SIZE 2

CHARLES HOLBROOK LIBRARY
Pacific School of Religion

HOLBROOK LIBRARY
PACIFIC SCHOOL
OF RELIGION

HOLBROOK LIBRARY
PACIFIC SCHOOL
OF RELIGION

THE

ENCYCLOPÆDIA BRITANNICA.

A

DICTIONARY

OF

ARTS, SCIENCES, AND GENERAL LITERATURE.

NINTH EDITION.

(*AMERICAN REPRINT.*)

GENERAL ANALYTICAL AND TOPICAL

INDEX.

D. O. KELLOGG EDITOR.

PHILADELPHIA:
J. M. STODDART CO., LIMITED.
1890.

AE54
E.9
1875
v.25

Entered, according to Act of Congress, in the year 1890, by the
EXECUTOR OF THE ESTATE OF ROGER SHERMAN, DECEASED,
In the Office of the Librarian of Congress, at Washington.

SHERMAN & CO.,
Printers, Philada.

WM. RUTTER & CO.,
Bookbinders, Philada.

PREFACE.

By virtue of its name an encyclopædia offers to perform for its owner a very different service from any other sort of publication. As a work of reference it aims to be an everyday companion to the scholar, by means of which he can pursue investigations over unfamiliar ground. As "a book treating of all the various kinds of knowledge," within its covers should lie the material for a gazetteer of geography, a catalogue of authors and treatises, a calendar of events, a glossary of terms, a dictionary of biography, a hand-book of law, a register of technical formulæ, a repertory of biblical learning, a guide to arts and industries, and in fine, for a *vade-mecum* for each branch of human learning. Since it is impracticable to construct an encyclopædia with a sufficient number of separate articles to cover so wide a range of inquiry by a mere alphabetical arrangement of their titles, whether it will accomplish such varied services as these must depend on the index. It alone can bring under prompt observation the treasures of information which are woven into all consecutive writing as the incidents of a narrative or component parts of a system. If it be ample and faithful the inquirer will soon learn to consult it first, as the quickest way to look up the subject-matter he desires to read. With it he will find little or no embarrassment from the way in which an encyclopædia is arranged, and without it cannot know wherein his work of reference will either disappoint or reward his curiosity. The ensuing volume is an attempt to make the varied contents of the American Reprint of the Encyclopædia Britannica accessible to the student in the most expeditious manner, through all their details and also in their groupings as parts of a larger subject.

To the indexer the Britannica presents another problem than that of a consecutive treatise on a single theme, and has in it analogies to the proper cataloguing of a library. It should give not titles of articles alone, but clues to subjects and authors. Let it be remembered, also, that the labors of twelve hundred scholars, each chosen as an authority, each employing such methods of classification or system of nomenclature or style of orthography as seemed good in his own eyes, and often overlapping each other's boundaries, were to be fused together in a common scheme for investigation. Equivalent names separated as widely as Jimenes from Ximenes, as Gengis-Khan from Tchenguyz Khan, as Ouranos from Uranus; oriental and barbarian words reduced to English forms by different alphabetical expedients; statesmen, soldiers and lawyers in one place called by their patronymics and in others by unstable peerage titles; artists and heroes here mentioned by their names and there indicated by an epithet; individuals with their distinctive personality obliterated under official titles;—these and like divergences and obscurities were not to be allowed to sunder references to the same subject.

Another feature of the Britannica imposed its especial requirement upon the indexer, and, while making his work look more complicated, probably will augment the chances of an exhaustive research for the inquirer. It has through nine editions been a unique merit of this great Encyclopædia, that related topics are gathered under one comprehensive head, where they may be studied as parts of a completed unity. This plan has filled half its pages with articles rising to the size and dignity of treatises or even of systems. The critical advantages are invaluable. In literature, as everywhere, the highest talent is shown not in collecting details, but in comprehending them. A scholar puts the results of years of labor into an analysis or a classification. Break up and scatter his material, and a judgment, if not a truth, is dissipated. The writers for the Britannica do not offer to view, strewn about for the mechanical convenience of handling, the piles of stone and timber they have gathered for edification, but as built up into a structure plastic to their learning or art. Majestic events are displayed as the pivots of social and intellectual revolution. Renowned personages move in the procession of history as products of one age and renewers of another. They are immeasurably more real and significant when seen in their proper relations, than when their dislocated heads are bowled down the alphabet at chronological wickets. The same systematized treatment of literatures, of fine and industrial arts, of professional learning, of physical and metaphysical progress, has been fruitful of biographical condensation and variety. Two or three dates affixed to a name standing in an historical or analytical order, complete, in thousands of instances, intelligible sketches of the less renowned workers for human advancement,—of men not eminent enough for separate notice, not comprehensible when isolated from their times, yet worth the understanding, who for reasons of space are omitted from works of reference constructed upon the plan of multiplying articles by disjointing subjects.

The long treatises which result from the method of the Britannica are exhibited in the index under the form of Tables of Contents analytically prepared, alphabetically arranged, and placed immediately after the titles of the articles which they represent. They have usually been suffixed where the article extends over three or more pages, and each sub-division has been of compass so small as, on the average, to comprise the contents of less than half a page. To many students these Tables of Contents will prove suggestive of related lines of investigation. They have permitted the use of general terms which would be lost among specific names; they have given rise to groups of references extending through many volumes; they have brought under observation paragraphs comprising classifications and catalogues, so that, if perchance the index has failed to catch some desired detail, the means are here at hand for its easy pursuit.

In the compilation of the following volume the question has often arisen: "Should the catch-word of the index invariably be found on the page indicated?" If so, many an important passage treating incidentally of a subject would be lost because its author had failed to use a customary or expected term. On the other hand any liberal use of discretion in gathering topics under heads of the indexer's choosing would often result in his putting upon an author's language a sense which had been intentionally excluded. Obviously, a reference apparatus ought only to display the character of the book to which it is attached, whatever its defects, redundancies or excellences. Yet by a system of analyzing the more comprehensive articles into Tables of Contents, of forming hundreds of groups of general subjects, and of copious cross-referencing by equivalent terms, it is hoped that the work of this index will be found so interlaced that each catch-word will carry the thread of all important references to the same topic throughout the Encyclopædia.

In several legitimate ways this volume will be found to extend the scope of the Britannica. A writer of connected paragraphs can indulge in indefiniteness or ambiguities with some reliance upon the context to make his allusions plain. But the indexer has no context and must be precise. Hence the references in this volume will clear up obscurities in the text for many a reader uncertain of the facts. Frequently dates have been supplied to distinguish one event or personage from another. Scientists mentioned only by their surnames, public men alluded to by a mere title, individuals having the same names, have had to be distinguished by fuller appellations or epithets; different designations of the same thing to which the pages of the Encyclopædia have given no clue have been brought together. Much has been done to make specific what would otherwise be left indefinite.

Opportunity has also been taken during the compilation of this index to add therein the dates of birth and death to the names of eminent persons, chiefly American, to whom the Britannica writers have accorded only an incidental notice. The same service has been done for distinguished individuals who have died during the publication of this work, and hence have failed of separate biographical sketches therein. Especially has this improvement been carried through the List of Contributors to the Encyclopædia. By these expedients the personal contents of the work have been brought down to the latest practicable date.

While the columns of each page have been indicated by the use of **a** for the left and **b** for the right hand, the simple plan of printing these letters in *Italics* has been employed to denote that the subject matter of a reference occurs disconnectedly more than once in the same column, which therefore is worth reading through. Again, in all references to matter composing a subordinate part of an article the title of that article in parenthesis follows the catch-word. Frequently the parenthetical words locate the reference in a smaller division of a page than a column and help expedition. But the two chief gains by their use are that they define the character of the matter referred to, thus saving the need of qualifying phrases; and that they bring before the eye in one group all the articles of the Britannica having kindred scope, thus suggesting an examination of equivalent or related terms.

It is believed that whatever faults may be found with this volume, critical examination will pronounce it the most copious and useful apparatus for reference to the largest and most scholarly Encyclopædia extant in the English tongue.

Besides the faithful services of several reference-writers, the editor has had the assistance of Professor John P. Lamberton of Philadelphia, a gentleman long experienced in the making of books, upon the examination of sheets for the compositor and of the revised proofs.

Occasion is here taken to acknowledge valuable aid in placing the entire American Reprint Edition of the Britannica on the ground it now occupies. For six years the original text from which the Reprint has been made, as well as its own pages, has been under the constant examination of a large staff of special and general scholars, for the purpose not only of detecting discrepancies or errors of statement, but omissions of information which an American reader would regret to discover in a work of reference bought for daily use. This revision has resulted in a large number of foot-notes scattered upon the pages of every volume of the work, and these are distinguished from the matter of the original text by ending in the abbreviation AM. ED. (American Editor). With the same end in view, several hundreds of additional articles have been prepared and bound up according to their alphabetical range as supplements to different volumes of the Reprint. The names of the principal writers for these supplements may be found recorded in the List of Contributors, where each is credited with his own articles. In the work of revision and annotation the editor has received assistance from the late Pliny E. Chase of Haverford College, from Charles W. Greene, the erudite encyclopædist, from Guy Hinsdale, M.D., from John P. Lamberton, all of Philadelphia, from Rev. A. D. Heffern, now of Pittsburgh, from Rev. F. D. Hoskins, recently Warden of the Divinity School at Faribault, Minnesota, from Otis H. Kendall of the University of Pennsylvania, from Nathan Burnham Webster, formerly of Norfolk, Virginia, but more recently a coadjutor in the work of enlarging this Reprint, and from many others whose special services have been less continuous and extended. His whole undertaking has been sustained by the generous liberality of the publishers who have undeviatingly sought to make the American Reprint of the Encyclopædia Britannica of unmatched usefulness and value to the American public.

D. O. KELLOGG,
Editor for THE AMERICAN REPRINT.

LIST OF CONTRIBUTORS

TO THE

ENCYCLOPÆDIA BRITANNICA,

(NINTH EDITION),

(AMERICAN REPRINT.)

WITH THE NAMES OF ARTICLES ATTACHED.

NOTE.—Asterisks (*) denote American contributors; dates attached to a name are for the person's birth and death.

A

*Abbot, W. G., Hartford.
Connecticut.

Abbot, Edwin A., London.
Gospels.

*Abbott, Henry L., U. S. Army.
Mississippi River.

Abel, Sir Frederick Augustus, Woolwich.
Gun Cotton; Nitroglycerin.

Abney, William de Wiveleslie, London.
Photography.

Acton, Roger, London.
Australia.

Adam, James.
Simonides.

*Adams, Charles Kendall, Ann Arbor.
Michigan.

Adamson, Robert, Manchester.
Baader, Franz Xaver; Bacon; Belief; Beneke, Friederich Edward; Berkeley; Bolingbroke, H. St. John; Bonaventura; Brown, Thomas; Bruno, Giordano; Butler, Bishop; Cairnes, John Elliott; Category; Erigena; Fichte; Gassendi; Hermann; Hume, David; Jacobi, F. H.; Kant; Logic; Schelling.

Affleck, J. O., Edinburgh.
Anæsthesia; Antiseptics; Apoplexy; Asthma; Ataxy, Locomotor; Atrophy; Auscultation; Bright's Disease; Bronchitis; Cancer or Carcinoma; Cholera; Colic; Corpulence; Cramp; Croup; Delirium; Diabetes; Diphtheria; Dysentery; Dyspepsia; Epilepsy; Fever; Goitre; Gout; Hooping-Cough or Whooping-Cough; Hydrocephalus; Hydrophobia; Influenza; Jaundice; Measles; Neuralgia; Paralysis; Phthisis; Pleurisy; Pneumonia; Preserved Food; Rheumatism; Rickets; St. Vitus's Dance; Scarlet Fever; Skin Diseases; Small-pox; Stomach Diseases; Sunstroke; Throat Diseases; Typhus, Typhoid, and Relapsing Fevers.

Aglen, A. S., Alyth.
Eschatology.

Aird, David A.
Forge.

Airy, Osmund.
Marvell; Monk, George; Monmouth, Duke of; Oates, Titus; Ormonde; Owen, John; Penn, William; Pepys; Presbyterianism; Prynne; Rupert; Russell, Lord William; Shaftesbury, Earls of; Sharp, James; Sydney, Algernon; Vane, Henry.

Alcock, Sir Rutherford.
Japanese Art.

Alexander, P. P.
Golf.

Alexander, William Lindsay (1808–1884).
Arnold, Thomas; Calvin; Channing; Habakkuk.

Allen, Grant.
Mimicry.

Allman, George Johnston, Galway.
Ptolemy; Pythagoras, Geometry of; Thales.

*Ames, Charles Gordon, Boston.
Pennsylvania, in part.

Anderson, Joseph, Edinburgh.
Arms and Armor; Arthur or Artus; Barrows; Cranogs; Lake Dwellings.

Anderson, R. E., London.
Manin, Daniele; Schoolcraft.

Anderson, R. Rowand, Edinburgh.
Campanile.

Andrieu, Jules.
Alchemy; Astrology.

Annerstedt, Dr. Claes, Upsala.
Upsala.

Arber, Edward, Birmingham.
Smith, John.

Archer, T. A., Oxford.
Roland, Legend of; Silvester II.; Templars; Theodosius; Toulouse; Ursula; Vincent of Beauvais.

Armitage, E. S., Mrs.
John (of England).

Armstrong, Henry E., London.
Carbon; Hydrogen; Iodine.

Arnold, F.
Bute, John Stuart, third earl of; Cambridge; Cardiff.

Arnold, Matthew (1822–1888).
Sainte-Beuve.

Arnold, Thomas, Oxford.
Cædmon; English Literature; Grail.

Ascoli, Graziado Isaia, Milan.
Italy—Language.

*Atkinson, G. H., Portland, Oregon.
Oregon.

Atkinson, J. B.
Kaulbach, Wilhelm von; Overbeck.

*Atkinson, Joseph, Newark, N.J.
Newark.

Atteridge, A. Hilliard, London.
Cemetery; Charles XII.

*Aughey, Samuel, Lincoln, Nebraska.
Nebraska.

Axon, W. E. A., Manchester.
Manchester; Roscoe, William.

Aytoun, William Edmondstoune (1813–1865).
Campbell, Thomas.

B

*Backus, M. M., New York.
Fur.

Bacot, J. T. W., Seaton, Devonshire.
Bahamas.

Bagwell, Richard, Clonmel, Ireland.
Ireland—History.

Bailey, James E., Manchester.
Cryptography; Fuller, Thomas.

Bain, Alexander, Aberdeen.
Mill, James.

*Baird, Spencer Fullerton (1823–1887).
Henry, Joseph.

Baker, Benjamin, London.
Tunnelling.

Baker, John Gilbert, London.
Ferns

Balfour, George W., Edinburgh.
Dropsy; Drunkenness; Heart Disease.

Balfour, John Hutton, Edinburgh (1808–1884).
Algæ; Arbor Vitæ; Arnica; Botany.

Ball, John.
Alps; Lucerne.

Ball, Sir Robert Stawell, Dublin.
Gravitation; Measurement; Nebular Theory.

Ballantyne, R. M.
Lifeboat.

Balsillie, David, Edinburgh.
Condillac; Ferrier, James Frederick.

Balzani, Ugo, Count, Rome.
Villani.

Barnabei, Febre, Rome.
Herculaneum.

Barnaby, Sir Nathaniel, Whitehall.
Navy; Shipbuilding.

*Bartlett, W. C., San Francisco.
San Francisco.

Bartoli, Adolfo, Florence.
Italy—Literature of.

Bastable, C. F., Galway.
Money.

Bateman, A. E., London.
Board of Trade.

Bateman, John Frederick, London.
Aqueduct.

*Bates, Henry Hobart, Washington.
Patents in the United States.

*Bates, Samuel Penniman.
Hooker, General Joseph.

Bauerman, Hilary, London.
Bismuth; Cadmium; Coal; Coke; Founding; Fuel; Furnace; Gold.

Bayne, Peter.
Miller, Hugh.

Bayne, Thomas, Helensburgh, Scotland.
Philips, Ambrose and John.

Baynes, Thomas Spencer. Editor of Encyclopædia Britannica (1823–1887).
Shakespeare.

Bazalgette, C. Norman, London.
Abattoir.

Beckett, Edmund (Lord Grimthorpe).
Clocks; Dome; Lock; Watch.

Beddard, Francis Evers, London.
Nematoidea; Worm.

Bell, F. Jeffrey, London.
Hedgehog.

*Bemis, Edward W., Springfield, Mass.
Workingmen in United States.

Bertram, J. G.
Aquarium.

Besant, Walter, London.
Froissart; Helvetius, Claude Adrien; Languedoc.

Bevan, G. Phillips.
Flannel; Flowers.

Beverly, Alexander.
Acta Diurna; Acta Senatus.

Bianchi, G. H., Cambridge.
Masaniello.

*Bigelow, John, New York.
Franklin, Benjamin; Jefferson; La Fayette.

Bingham, C. W., Melcombe Horsey.
Dorset.

*Binney, W. G., Burlington, N. J.
Gould, Augustus Addison.

Birch, Samuel (1813–1885).
Apis; Copts; Ammon; Anubis; Athor.

Birch, W. de Grey, British Museum.
Griffin.

*Bird, Frederic Meyer, Bethlehem, Pa.
Sumner, Charles; Taney, Roger Brooke; Taylor, Zachary; Thomas, George H.; Trumbull Family; Wade, B. F.; Warren Family; Washburn Family; Wentworths; Winthrops.

Birdwood, George.
Incense.

Black, Clementina, Miss.
Martineau.

Black, C. Bertram.
Chili.

Black, C. E. D., London.
Hissar; Kashgar or Káshghar.

Black, John Sutherland, Assistant Editor of Encyclopædia Britannica.
Esdras; Ewald, Heinrich Georg August von; Excommunication; Ezekiel; Ezra and Nehemiah, Books of; Fasting; Fathers of the Church; Festivals; Folk-Lore; Free Church of Scotland; Galatians; Genealogy; Gibbon; Guyon, Madame; Huss; Image Worship; Lanfranc; Mazzini; Missal.

Blackie, J. Stuart, Edinburgh.
Æschylus.

Blades, William.
Gutenberg.

Blanch, W. Harneth, Dulwich College.
Dulwich.

*Blodget, Lorin, Philadelphia.
Quakers, U. S.

Blunt, John Henry (1823–1884).
English Bible.

Blyth, James, Glasgow.
Graduation; Gyroscope; Hodograph; Kaleidoscope; Magic Lantern; Manometer.

Boase, C. W., Oxford.
Macedonian Empire.

Bolas, Thomas, London.
India-Rubber.

Bond, Edward Augustus.
Diplomatics.

Bonwick, James.
Queensland; South Australia; Tasmania; Western Australia.

Bosanquet, R. H. M., London.
Music—Science of; Organ.

Bourne, A. G., Madras.
Rotifera.

Boutell, Charles.
Costume; Cross; Crown; Duke; Earl; Effigies.

Boyle, George David.
Coleridge.

Boys, C. V., South Kensington.
Tricycle.

Brabrook, Edward W., London.
Building Societies; Friendly Societies; Savings Banks.

Braden, W.
Congregationalism.

Bradley, George Granville, Dean, London.
Stanley.

Brandis, Sir Dietrich.
Teak.

*Brantly, William T., Baltimore, Md.
Maryland.

*Brewer, William H., New Haven, Conn.
Wheat, American.

Brickwood, Edwin Dampier, London.
Horse, Management, etc.; Horsemanship; Horse-Racing; Hound; Hunting; Rowing; Wrestling and Boxing; Yachting.

Bridge, C. A. G., British Navy.
Signals.

*Briggs, Charles Augustus, New York.
Presbyterianism.

Briggs, H. B., London.
Portugal—Literature of; Provence; Salamanca; Savoy; Seville.

Brill, A., Munich.
Mathematical Drawing.

Broadley, A. M.
St. John, Knights of; Tripoli.

Brodribb, W. J., Wiltshire.
Hamilcar Barca; Hannibal; Hortensius, Quintus; Jugurtha; Lucullus; Lycurgus; Pompey; Scipio; Solon; Spain—History of; Sparta; Syracuse; Tacitus; Themistocles; Titus; Xenophon.

Brown, Alexander Crum, Edinburgh.
Liebig, Justus; Mitscherlich; Molecule; Polarity; Sainte-Claire Deville; Thénard; Wurtz, C. A..

Brown, H. F., Venice.
Milan; Padua.

Brown, J. Taylor, Edinburgh.
Leighton, Robert; Lyndsay.

Brown, Robert.
Eskimo; Greenland; Heligoland.

Brown, T. Craig.
Selkirk.

Browne, C. Orde, Woolwich.
Ammunition.

Browne, Montague.
Taxidermy.

*Brown, William Hand, Baltimore, Md.
Baltimore.

Browning, Oscar, Cambridge.
Cæsar; Carthage; Dante; Education; Goethe; Guelfs and Ghibellines.

Bruce, Alexander, Edinburgh.
Ophthalmology; Spectacles.

*Bryce, George, Winnipeg, Canada.
Manitoba.

Bryce, James, Oxford.
Emperor and Empire; Justinian; Procopius; Theodora; Tribonian.

Buchan, Alexander, Edinburgh.
Atmosphere; Barometer; Climate; Hygrometry; Meteorology.

Buchanan, J. Y.
Lake; Mediterranean.

Buchheim, C. A., London.
Gervinus.

Buckley, Arabella Burton, Miss.
Lyell.

Buckmaster, J. C., South Kensington.
Cookery.

Bunbury, Sir Edward H.
Asia Minor; Bithynia; Cappadocia; Caucasus; Cilicia; Circassia; Crete; Cyprus; Geography; Ionia; Italy; Latium; Liguria; Lucania; Lycia; Mela, Pomponius; Nearchus; Numidia; Paphlagonia; Pompeii; Pontus; Ptolemy; Pytheas; Rhodes; Sabines; Samnites; Samos; Thule.

Bunce, J. T., Birmingham.
Birmingham.

Bunsen, G. Von, Berlin.
Bunsen.

Burbury, S. H., London.
Molecule.

***Burlingame, Edward Livermore**, New York.
Ripley, George.

Burnett, George.
Mar, Earldom of.

Burnley, James, Bradford.
Bradford (borough).

Butler, A. J., London.
Tyrol.

Butler, Edward Dundas, London.
Hungary; Ladrone or Mariana Islands; Lima, Peru.

Butler, F. H., London.
Caria; Chemistry; Chloral; Chromium; Compass; Cyprus; Dalton; Davy, Sir Humphrey; Digitalis; Echinodermata; Ergot; Flame; Forbes, Edward; Frankincense; Fuchsia; Galls; Garnett; Geoffroy Saint-Hilaire, Étienne; Guyton de Morveau, Louis Bernard, Baron; Hazel; Hellebore; Holly; Honey; Horse-Chestnut; Hunter, John and William.

C

***Cable, George W.**, Hartford, Conn.
New Orleans.

Caird, Edward, Glasgow.
Cartesianism; Metaphysic.

Caird, F. M., Edinburgh.
Surgery.

Cambridge, O. Pickard, Wareham.
Arachnida.

Cameron, Peter, Glasgow.
Hymenoptera.

Cameron, T. W., Newcastle.
Wolsey.

Campbell, Donald.
Slate.

Campbell, F. J., London.
Blind.

Campbell, Lewis, St. Andrews.
Plato; Sophocles.

Candlish, J. S., Glasgow.
Dogmatic.

Cantor, Moritz, Heidelberg.
Pisanus; Stevinus.

***Capen, Elmer Hewitt**, College Hill, Mass.
Universalists.

Cardew, Philip, Chatham.
Heliography.

Carpenter, William Benjamin. (1813–1885).
Atlantic; Baltic; Black Sea; Caspian Sea; Foraminifera; Indian Ocean; Leeuwenhoek or Leuwenhock, Anthony van; Microscope.

Carr, Arthur, Wokingham, England.
John, Epistle of.

Carr, George B., Edinburgh.
Bede.

Carr, J. W. Comyns.
Blake, William.

Carrington, Benjamin, London.
Liverworts.

Carruthers, Robert (1799–1878).
Elizabeth; Fairfax; Falconer, William; Farquhar; Garrick; Gay; Gray, Thomas.

Carter, Andrew, Stirling.
Ken; Lyte.

Carter, F. Hayne.
Bookkeeping.

Cates, W. L. R.
Anglesey, Henry William Paget, Marquis; Arndt, Ernst Moritz; Auber; Aytoun, William Edmondstoune; Blake, Robert; Boscovich, Roger Joseph; Brunel, Isambard Kingdom; Chronology; De Vigny, Alfred Victor; Edmund, St.; Feuerbach, P. J. A.

Caulfield, Richard, (1823–1887).
Cork.

Cayley, Arthur, Cambridge.
Curve; Equation; Function; Gauss; Geometry, Analytical; Monge; Numbers; Series; Surface; Wallis.

Cazenove, J. G.
Church; Cistercians; Confession; Relics.

***Chamberlain, Joshua Lawrence**, Brunswick, Me.
Maine.

***Chamberlin, Thomas Crowder**, Madison, Wis.
Wisconsin.

Chambers, T. K.
Dietetics.

***Champlin, John D.**, New York.
Hayti.

Chapman, F., Dunedin, N. Z.
Dunedin.

Chappell, William (1810–1888).
Ballet.

Chaumont, F. de.
Hospitals; Hygiene.

Chesney, Charles Cornwallis, Col. (1826–1876).
Battle.

Chesney, G. T., Lieut.-General.
Chesney, Charles Cornwallis; Combe, George.

***Chester, W. T.**, New York.
Horse-Racing.

Cheyne, Thomas Kelly, Oxford.
Amos; Canaan; Canaanites; Cherubim; Circumcision; Cosmogony; Daniel; Deluge; Esther; Hittites; Isaiah; Jeremiah; Jonah, Book of.

Chichester, H. M., London.
Roy, Wm.

Chiene, John, Edinburgh.
Club-Foot; Hernia; Surgery; Vesical Diseases.

Chisholm, George G., London.
Pyrenees; Roumania; Sardinia; Servia; Spain—Geography and Statistics; Syracuse; Venezuela.

Christie, Richard C., Staine.
Scaliger.

Chrystal, George, Edinburgh.
Electricity; Electrometer; Galvanometer; Magnetism; Mathematics; Parallels; Pascal; Perpetual Motion; Plücker; Poisson; Riemann.

Church, A. H., London.
Guano; Hemp; Irrigation.

Church, Richard William, Dean, London.
Lombards.

Clark, D. Kinnear, London.
Railway.

Clark, F. W.
Apprentice.

Clark, George Thomas.
Heraldry.

Clarke, Alexander Ross.
Earth, Figure of; Geodesy; Geography, Mathematical.

Clarke, F. C. H., British Army.
Khiva; Merv.

***Clarke, James Freeman** (1810–1888).
Flint, Timothy.

Clarke, John Algernon, London.
Magic, White.

Cleghorn, Hugh
Arboriculture; Forests.

Cleland, John, Glasgow.
Lamarck.

Clerke, A. M., Miss.
Galileo; Humboldt, A. von; Huygens, Christian; Kepler, John; Lagrange, Joseph Louis; Laplace, Marquis of; Lavoisier; Leverrier, Urbain Jean Joseph; Zodiac.

Clerke, E., Miss, London.
Matilda.

Cleve, P. T., Upsala.
Sweden, Geography and Statistics of.

***Cochrane, W. C.**, Cincinnati, Ohio.
Lynch Law.

Codrington, Thomas, London.
Roads and Streets; Tramway.

Cole, A. S., South Kensington.
Lace.

Colenso, Francis E., London.
Zululand.

Collen, E. H. Hayter British Army.
Artillery; Arsenal.

Collet, S. D., Miss.
Roy Rammahun.

Colley, Sir George Pomeroy.
Army.

Collier, James, London.
Al Farabi, Al Gazali, Al Kindi, etc.

Collins, James, London.
Gutta Percha.

Collins, William Lucas.
Anacreon; Cleon; Cleopatra.

Colvin, Sidney, London.
Art; Baldovinetti, Alessio; Bellini; Botticelli; Dürer; Flaxman; Fine Arts; Giorgione; Giotto; Leonardo da Vinci; Marcantonio; Michel Angelo.

Conder, C. R., Major.
Galilee; Galilee, The Sea of; Jerusalem; Idumea.

Connell, Arch Browning, Dundee.
Bossuet, Jacques Bénigne.

Connellan, P. L., Rome.
Roman Catholic Church.

***Conway, Moncure Daniel.**
Jew, Wandering.

***Cooley, W. B.**, Washington, D. C.
Post-Office.

Coolidge, W. A. B.
Jura; Switzerland; Tell, William; Valais; Winkelried; Zurich.

Cooper, Charles, Edinburgh.
Reporting.

Cooper, Thompson.
Capgrave; Challoner.

Coote, Charles H., London.
Globe; Lincoln; Hakluyt Richard.

Corkran, A., Miss.
Hume, Joseph.

Corlass, Reginald W.
Nicholson.

Cornish, Francis Warre, Eton College.
Lambert.

Cosens, Frederick W., London.
Camoens.

Cotton, J. S.
Hastings, Warren.

Courtney, Leonard Henry.
Banking.

Courtney, W. Prideaux, London.
Marlborough; Oxford, Earl of; Peterborough, Earl of; Pulteney; Russell, Earl; Tooke; Walpole; Wedderburn; Wilkes, John.

Cox, Sir George William.
Alexander the Great; Crusades; Dorians; Eleusinia.

Cracroft, Bernard.
Account.

Creighton, Charles, London.
Leprosy; Malaria; Medicine—Synoptical View; Monster; Morgagni—Parasitism in; Medicine: Pathology; Pellagra; Quarantine; Surgery; Sydenham; Vaccination; Yellow-fever.

Creighton, Mandell, Cambridge.
Philip II.; Waldenses.

*Crew, Benjamin J. (d. 1886).
Pennsylvania Hydrocarbon Products; Petroleum; Gas Wells; Coal Tar Colors.

*Crocker, S. R.
Columbia, S. C.

Crofton, Morgan W.
Probability.

Crombie, Frederic, St. Andrews.
Alexandrian Manuscripts; Bengel, John Albert; Bleek, Friederich; Bretschneider; Buxtorf, or Buxtorff, John; Simon, Richard.

Crombie, James M.
Lichens.

Crookes, William, London.
Assaying.

Crowe, Joseph Archer, London.
Cranach; Cuyp; Eyck; Francken; Fyt, Johannes; Gossart; Holberg; Memling; Metsu; Neer; Ostade.

Cruickshank, Alexander, Aberdeen.
Aberdeen.

Cunningham, J. T., Oxford.
Oyster; Salmonidæ; Siredon; Teredo.

Cunningham, W., Cambridge.
Shipping.

Curtis, C. G., Pera, Turkey.
Constantinople.

D

Dallas, Eneas S. (d. 1879).
Alexandrine Verse; Alliteration.

D'Almeida, W. B., London.
Malacca; Manila.

Darwin, Francis, Cambridge.
Breeds.

Darwin, George Howard, Cambridge.
Tides.

Davids, Thomas William Rhys, London.
Buddhism; Jains; Lamaism.

Davidson, A. B., Edinburgh.
Apocrypha; Job; Proverbs, Book of.

Davidson, Samuel, Manchester.
Abraham; Adam; Ahab; Antichrist; Apocalyptic Literature; Baruch; Beelzebub; Canon.

Davidson, Thomas (1817–1885).
Brachiopoda.

*Davidson, Thomas.
Longfellow, Henry W.

Davidson, Thomas, Edinburgh.
Macneill.

Davies, G. Palmer, Berlin.
Berlin.

Davies, James.
Flint (county); Glamorgan; Gloucester; Hereford; Hesiod.

Davis, Israel, London.
Jews, Modern.

Davis, James Edward, (1817–1887).
Labor and Labor Laws; Police; Poor Laws; Reformatory and Industrial Schools; Registration, Parliamentary.

*Davis, John, Junction City, Kansas.
Kansas.

Dawkins, William Boyd.
Manchester Cave.

Deby, H., Brussels.
Brussels; Mechlin; Ostend.

Deecke, Wilhelm.
Etruria.

*Del Mar, Alexander, New York.
Silver.

Dendy, A.
Wight, Isle of.

Dewar, James, Cambridge.
Acid; Alum; Ammonia.

*Dexter, F. B., New Haven, Conn.
New Haven.

*Dexter, Henry Martyn, Boston, Mass.
Mather.

Dickson, Sir J. Frederick.
Ceylon.

Digby, Kenelm E., London.
Littleton.

Dingelstedt, Victor, Tiflis.
Shemaha; Shusha.

Dittmar, William, Glasgow.
Balance; Distillation; Fermentation; Lactic Acid; Lanthanum; Lead; Lime; Lithium; Magnesium; Manganese; Mercury; Metallurgy; Metals; Methyl; Nickel; Nitrogen; Oxalic Acid; Oxyhydrogen Flame; Paraffin; Phosphorus; Platinum; Potassium; Prussic Acid; Sea-Water; Selenium and Tellurium; Silver; Soap; Sodium; Sugar; Sulphur; Tar; Tartaric Acid; Thallium; Tin; Titanium; Tobacco; Tungsten; Uranium; Water; Wine; Zinc; Zirconium.

Dobson, G. E., Southampton.
Mammalia; Mole; Shrew; Vampire.

Dobson, Henry Austin, London.
Hogarth; Kauffmann, Angelica.

Dods, Marcus.
Pelagius; Predestination; Robertson, F. W.; Taylor, Jeremy.

Donaldson, James, St. Andrews.
Acts of the Apostles; Apostolic Fathers; Boeckh, August; Boetius; Celsus; Cerinthus; Clemens, Alexandrinus; Eginhard: Greece—History and Literature of.

Doran, John (1807–1878).
Beard; Dwarf.

Dougall, J. Dalziel.
Shooting.

Doughty, C. M.
Oneiza.

Douglas, Robert Kennaway, London.
Canton; China; Jenghiz Khan; Julien, Noel; Manchuria; Mongols—History; Nanking; Peking; Shanghai; Tong-King.

Douglas, Sir Wm. Fettes.
Gordon, Watson.

*Douglass, Frederick, Washington, D. C.
Slavery, American.

Dove, P. E., London.
Jung (Heinrich Stilling); Knot.

Dowson, John, London.
Inscriptions, Indian.

*Drake, J. R.
Foster, S. C.

*Drake, Samuel Adams, New York.
Florida; Georgia (United States).

Drennan, James, Ayr, Scotland.
Ayrshire.

Dreyer, John L. E., Armagh.
Observatory; Sextant; Time; Transit Circle.

*Drone, Eaton Sylvester, New York.
Charleston; Cincinnati; Copyright (American).

Drummond, Frederick, Brighton.
Knighthood; Precedence; Prince; Royal Household; State Officers; Titles of Honor; Thompson (Count Rumford); Trade Unions.

Drummond, Henry, Glasgow.
Zambesi.

Dunkin, Edwin.
Hansen.

*Dunning, S. Wright, New York.
Railway (U. S.).

Durie, William.
Alfred.

Dyer, William Turner Thistleton, Kew.
Biology; Distribution; Ferns.

E

Eastlake, Lady Elizabeth Rigby.
Gibson, John: Jameson, Mrs.; Lockhart, John Gibson.

Edwards, Amelia Blandford, Miss.
Mummy.

Edwards, Edward.
Newspapers; Post-Office.

Eggeling, Julius, Edinburgh.
Brahmanism; Sanskrit.

Elles, W. Kidston, Adj.-General.
Dahomey.

Elliot, Dan. Giraud.
Jaguar.

Ellis, Alexander John.
Phonetics; Speech Sounds.

*Ellis, George Edward, Boston, Mass.
Boston; Fillmore, Millard

Elton, Charles I., London.
Municipality; Parish; Primogeniture.

*Emerson, George H., Boston, Mass.
Universalists.

*Esting, F. M., Philadelphia, Pa.
Girard, Stephen.

Ethé, Hermann, Aberystwith, Wales.
Mirkhond; Nasir, Khosrau; Nizami; 'Omar, Khayyám; Persian Literature; Rúmí; Sa'di.

Evans, Arthur John, Oxford.
Herzegovina; Vlachs.

Ewald, Alexander C., London.
Domesday Book; Records; Ministry.

Ewart, Charles B., Lt.-General.
Barracks.

Ewing, J. A., Dundee.
Pneumatic Despatch; Seismometer; Sewerage; Siemens; Steam-Engine; Strength of Materials; Traction (electric): Ventilation; Watt, James.

Ewing, Robert, Oxford.
Shairp.

F

Fairbairn, A. M., Oxford.
Arminius; Independents.

Farr, William, London (1807–1883).
Census.

Farrar, Frederic William, London.
Jesus Christ.

Fatio. See Morel-Fatio.

Fausset, T. G. G., Canterbury.
Canterbury.

Fawcett, Millicent Garrett, Mrs.
Communism.

Felkin, Robert W.
Uganda.

Fennell, C. A. M., Cambridge.
Hercules.

Ferguson, George, St. Andrews.
Agrarian Laws.

Ferguson, John, Glasgow.
Gay-Lussac; Geber; Paracelsus; Scheele.

Ferguson, Sir Samuel, Dublin (1810–1886).
Brehon Law.

Ferguson, William.
Barrow-in-Furness.

Ferrier, J. Walter, St. Andrews.
Heine.

Ffoulkes, W. Wynne, Chester.
Chester.

Findlay, J. R.
De Quincey.

Fitch, J. G., London.
Lancaster, Joseph.

Fitzgerald, C. C. Penrose, Royal Navy.
Naval strategy (War).

Fitzgerald, Percy, Hetherington.
Dumas.

Fleming, George, London.
Mule; Murrain; Rabies; Veterinary Science.

Flint, Robert, Edinburgh.
Ast, George Anthony Frederick; Bastiat, Frederic; Berengarius; Bodin, Jean; Buchez, Philippe Joseph Benjamin; Buckle, Henry Thomas; Buridan, Jean; Clarke, Samuel; Condorcet; Cudworth; Cumberland (Bishop); Theism; Theology.

Flower, William Henry, British Museum.
Horse, its Zoology and Anatomy; Kangaroo; Lemming; Lemur; Leopard; Lion; Llama; Lynx; Mammalia; Manatee; Marten; Mastodon; Megatherium; Mink; Narwhal; Otter; Platypus; Rhinoceros; Seal; Sheep; Sloth; Swine; Tapir; Tiger; Walrus; Whale; Wolf; Wombat; Zebra.

Forbes, George Hay.
Altar; Amphitheatre; Breviary.

Forbes, Henry O.
Gama, Vasco da; Oporto.

***Ford, W. F.**
New York City (Appendix).

Foster, Clement Le Neve, Llandudno, Wales.
Mining.

Foster, Michael, Cambridge.
Physiology—General View.

***Foster, William E.**, of Providence.
Providence (City), Rhode Island.

Fowler, J. T., of Durham.
Durham.

Fowler, Thomas, Oxford.
Hutcheson; Price, Richard; Shaftesbury, Earls of.

Francis, Francis (1822–1886).
Angling.

Fraser, Alexander Campbell, Edinburgh.
Locke, John.

Fraser, H. J. E., Edinburgh.
Erskine, Lord; Fehmic Courts.

***Fraser, John**, Chicago, Ill.
Mormons.

Frazer, J. G., Cambridge.
Penates; Pericles; Phædrus; Philopœmen; Phocian; Pisistratus; Præfect; Præneste; Prætor; Proserpine; Province; Saturn; Taboo; Theseus, Thesmophoria; Totemism.

Freeman, Edward Augustus, Oxford.
Godwine; Goths; Harold; England—History; Palermo; Peerage; Nobility; Normandy; Normans; Sicily.

Freshfield, Douglas W.
Engadine; Grisons.

Frost, A. Hollingworth, Cambridge.
Magic Square.

Fry, Sir Edward, London.
Quakers.

Führer, A., Allahabad, India.
Parsees.

***Fulton, Robert B.**, Oxford, Miss.
Mississippi (State).

Fyffe, C. Alan.
Metternich; Napoleon III.; Nicholas I., of Russia; Turkey—History and Literature; Wellington (duke).

G

Gairdner, James, London.
Gardiner, Stephen; Grey, Lady Jane; Lancaster, House of; Leicester, Robert Dudley, Earl of; Mary of England; Percy; Plantagenet; Talbot Family; York, House of.

Gallée, J. H., Utrecht.
Holland—Language.

Galloway, Thomas.
Calendar.

Gallwey, Edwin J. P., Royal Navy.
Torpedo.

Galton, Douglas, London.
Heating.

Gamgee, Arthur, London.
Nutrition; Respiration.

***Gannett, Henry**, Washington, D. C.
Idaho; Indian Territory; Indians, American; Iowa; Louisiana; Montana; Utah; Washington (city); Wyoming; Yellowstone Park.

Gardiner, Samuel Rawson, London.
Buckingham, Duke of; England—History; George I.–IV.; Hampden; Laud, William; Montrose, Marquis of; Prynne; Pym; Raleigh; Strafford.

***Gardner, Henry B.**, Baltimore.
Taxation in the United States.

Gardner, Percy, Cambridge.
Corinth; Ephesus.

Garnett, Richard (British Museum).
Alexander VI., Pope; Anthology; Apotheosis; Apuleius; Arnim, Bettina von; Arnold of Brescia; Augustan History; Bâbi or Bâby; Borgia, Cæsar and Lucretia; Brown, Charles Brockden; Byzantine Historians; Calderon; Calpurnius, Titus; Cardan or Cardano, Girolamo; Châteaubriand; Claudianus, Claudius; Clement XIV.; Faustus; Feurbach, L. A.; Forster, Johann Georg Adam; Hazlitt; Hunt, Leigh; Irving, Washington; Leo X., Pope; L'Estrange, Sir Roger; Leopardi, Giacomo; Lucan; Milman; Niebuhr; Ochino; Oppian; Otway; Peacock, Thomas Love; Pius II.; Panizzi; Paston Letters; Paul (Popes); Photius; Philostratus; Salmasius; Sarpi, Pietro; Sixtus IV.; Sixtus V.; Swift; Taylor, Sir H.; Thirlwall; Tieck; Trench; Wakefield, E. G.; Warburton; Watson, Richard.

Garnett, William, Newcastle.
Dynamics; Energy; Evaporation; Hydrometer.

Garran, Andrew, Sydney, Australia.
New South Wales.

Gasquet, J. Raymond, Brighton.
Jenner.

Gausseron, Henri, Paris.
France—Geography of.

***Gay, Sidney Howard** (1814–1888).
Otis; Quincy, Josiah.

Geddes, Patrick, Dundee.
Insectivorous Plants; Morphology; Parasitism—Animal; Protoplasm; Reproduction—Animal; Sex; Variation (Species).

Geddes, William Duguid, Aberdeen.
Longinus.

Geikie, Archibald, London.
Geography, Physical; Geology; Hutton, James; Murchison; Scotland—Geology; Vesuvius.

Geldner, K., Halle.
Persia—Language; Zend-Avesta; Zoroaster.

Gell, Philip Lyttelton, Oxford.
Khazars.

Gibb, E. J. W.
Turkey—History and Literature.

Gibbon, Charles.
Combe, Andrew.

Gibson, Alexander, Edinburgh.
Insanity—Law of; Libel; Mansfield; Norway—History.

Gibson, John.
Butterflies; Camel; Crocodile; Cattle; Coleoptera; Deer; Dog; Eel; Egg; Elephant; Fox; Frog; Hare; Hippopotamus; Hyæna.

Gill, David, Cape of Good Hope.
Micrometer; Parallax; Telescope.

***Gillmore, Quincy Adams** (1825–1888).
Galveston.

Gilray, Thomas, Dundee.
Cotta; Dobell, Sidney; Drummond, Thomas; Edgeworth; Galt; Geoffrey of Monmouth; Henderson, Alexander.

Ginsburg, C. D.
Ecclesiastes; Kabbalah.

Girdlestone, R. B., London.
Bible Societies.

Gisborne, William.
New Zealand.

Glaisher, James, London.
Aëronautics.

Glaisher, J. W. L., Cambridge.
Legendre, Adrien Marie; Logarithms; Napier, John; Tables—Mathematical.

Glover, J. Grey, London.
Homœopathy.

Goadby, Edwin.
Loughborough; Scarborough.

Godfray, Hugh, Cambridge.
Dialling.

***Godkin, Edwin Lawrence**, of New York.
New York (City).

Goebel, Karl E., University of Rostock.
Muscineæ.

Goeje, M. J. de, Leyden.
Tabarí; Thousand and One Nights.

Goldsmid, Sir Frederick John, British Army.
Persia—Modern History and Geography; Sind; Sistán; Timur.

Goodall, J.
Dulwich.

Goodchild, J. G., London.
Westmorland.

*Goode, G. Brown, Washington, D. C.
Oyster Industry; Pisciculture.

*Goodrich, J. E., Burlington, Vt.
Vermont.

*Goodwin, Juliet H., Miss, Newport, R. I.
Amherst.

Gordon, Alexander, Belfast.
Servetus; Socinus; Valdes.

Gordon, John, Kenilworth.
Baxter, Richard.

Gosse, Edmund William, Cambridge.
Almqvist, Karl Jonas Ludwig; Baggesen, Jens Emmanuel; Baldur; Collins, Mortimer; Cowley; Crashaw, Richard; Davenant, Sir William; Denmark; Donne, John; Drayton, Michael; Edda; Ewald, Johannes; Holland—Literature; Huygens, Sir Constantlin or Constantin; Norway—Literature; Oehlenschlager; Pastoral; Sweden—Literature; Tegnér.

Gotch, F. W., Bristol.
Baptists.

Goudy, Henry, Edinburgh.
Prescription.

Gough, A. E., Calcutta.
Vedanta.

Graff, Ludwig von, of Graz, Austria.
Planarians.

Grant, Sir Alexander (1824–1886).
Aristotle; Hastings, Marquis of.

Gray, Albert, London.
Laccadives.

Gray, John M., Edinburgh.
Leech, John; Reynolds; Tassie; Wilkie.

Gray, Robert, Peterhead.
Whale Fisheries.

Gray, Thomas, Glasgow.
Telegraph; Telephone.

Green, Joseph.
Uruguay.

Green, Sir W. H. R., British Army.
Baluchistan; Khelat.

Greene, Joseph Reay.
Cœlentera.

Greenhill, A. G., Woolwich.
Hydromechanics—Hydrostatics, Hydrodynamics.

Griffiths, Arthur, London.
Aldershot Camp; Prison Discipline.

Grimthorpe, Lord. See Beckett, Edmund.

Groome, Francis Hinds, Edinburgh.
Gipsies; Leith; Norwich.

Grosart, A. B.
Abbot, George; Abel, Thomas; Abercromby, David; Abercromby, Patrick; Adams, Richard; Adams, Thomas; Ainsworth, Henry; Airay, Henry; Akenside, Mark; Alabaster, William; Alexander, Sir William; Alleine, Joseph; Alleine, Richard; Alsop, Vincent; Ambrose, Isaac; Ames, William; Amyraut, Moses; Andrewes, Lancelot; Anstey, Christopher.

Grub, George, Aberdeen.
Beaton, David; St. Cuthbert.

Gubernatis, Angelo de, Florence.
Giusti; Goldoni.

Gunn, John, London.
West Indies.

Gunszt, Bartholomew, London.
Presburg.

Günther, Albert C. L. G., British Museum.
Flying-Fish; Ichthyology; Lizard; Mackerel; Ray; Reptiles; Shark; Siluridæ; Snakes; Sword-Fish; Tortoise.

Guthrie, William, Lanark.
Abatement.

Gutschmid, A. von, Tübingen.
Moses of Chorene; Persia, Ancient History; Phœnicia; Scythia.

Guyard, Stanislas, (1846–1884).
Mohammedanism—Eastern Caliphate,

H

*Hadley, Arthur Twining, New Haven, Conn.
Railway.

Haldane, R. B.
Heraclitus; Lamettrie.

*Hale, Edward Everett, Boston, Mass.
Everett.

Hales, John Wesley, London.
Robin Hood.

Hamerton, Philip Gilbert.
Drawing; Engraving.

Hamilton, E., Miss.
Hamilton, Sir William.

*Hanna, E. P., Washington, D.C.
Homestead.

Hanna, William, Edinburgh.
Brucker, James; Chalmers.

Harcourt. See Vernon-Harcourt.

Hare, Arthur William, Manchester.
Surgery.

Harnack. Adolph, Berlin.
Manichæism; Marcion; Millennium; Montanism; Neoplatonism; Origen; Paul of Samosata; Peter; Polycarp; Presbyter; Prophet; Revelation (book); Sabellius; Simon Magus; Socrates, historian; Sozomen; Tatian; Tertullian; Theodore of Mopsuestia; Theodoret; Valentinus.

Harper, W. P., London.
Lloyd's; Stock Exchange.

*Harris, A. C., Indianapolis, Ind.
Indiana; Indianapolis.

*Hart, Charles Henry, Philadelphia, Pa.
Philadelphia.

Hartley, Sir Charles Augustus.
St. Lawrence.

Harvey, M., St. John's, Newfoundland.
Labrador; Newfoundland; Seal Fisheries.

Hatch, Edwin, (1835-1889).
Luke; Mark; Pastoral Epistles; Paul; Peter—Epistles of; Philippians; Pusey.

Haweis, Hugh Reginald, London.
Bell.

Hayward, Abraham (1803–1884).
Gentz; Junius.

Heath, T. L., London.
Pappus; Porism.

Hedderwick, Robert, Glasgow.
Bute—County of.

Heddle, M. F., St. Andrews.
Mineralogy.

*Heffern, A. D., Pittsburgh, Pa.
Pullman, town; Republican Party (Appendix).

*Henderson, Peter, (1823-1890).
Horticulture—Calendar for the U. S.

Henderson, T. F., London.
Edwards, Jonathan; Essex, Earls of; Fife—County of; Foster; Fouché, Joseph; Frederick I. (Barbarossa); Frederick II. (Hohenstaufen); Grattan: Hall, Robert; Hooker, Richard; Ireland—Geography and Statistics; Irving, Edward; Jeffrey; Latimer, Hugh; London; Mozambique; Orkney and Shetland; St. Andrews; Scotland; Stirling; Stuart; Suffolk; Surrey; Sutherland; Wicklow; Wigtownshire; Wiltshire; Yarmouth; York (shire and city).

Henley, William Ernest.
Chamfort; Chenier; Cooper, James Fenimore.

Henrici, Olaus, London.
Geometry, Pure and Projective; Projection.

Henslow, George.
Maize; Oat; Laurel; Maple.

Hepworth, Walter, South Kensington.
Fairies; Fetichism; Flag; Font; Fool; Fountain.

Herdman, William A., Liverpool.
Tunicata.

Hessels, J. H.
Salic Law; Typography.

Hibberd, Shirley.
Ivy.

Hicks, Edward L., Leamington.
Athens; Inscriptions—Greek.

Hicks, R. Drew, Cambridge.
Seneca; Stoics.

Hildebrand, Hans, Stockholm.
Stockholm.

Hildebrandsson, Hugo H., Upsala.
Sweden—Geography and Statistics.

Hill, R. A., London.
Mint.

*Hill, Robert T.
Texas.

Hind, John Russell, London.
Comet.

*Hinds, William Alfred.
Oneida Community.

Hipkins, A. J.
Harmonium; Harp; Lute; Lyre; Pianoforte.

*Hitchcock, Charles H., Hanover, N. H.
New Hampshire.

Hjaltalin, J. A., Reykjavik, Iceland.
Iceland.

Hobson, E. W., Cambridge.
Trigonometry.

Hodgkin, Thomas.
Jordanes; Kirkcaldy; Narses; Odoacer; Ravenna; Theodoric; Vandals.

*Hodgson, Joseph, Mobile, Ala.
Mobile.

Holdich, T. H., British Army.
Kandahar.

Holdsworth, E. W. H.
Fisheries.

Holland, Thomas Erskine, Oxford.
Bentham; Treaties.

Holmes, E. M, London.
Gentian; Herbarium; Hop; India-Rubber; Ipecacuanha; Jaborandi; Lavender; Lemon; Myrrh; Opium; Pepper; Pharmacopœia; Quinine; Rhubarb; Vanilla.

*__Homans, J. Smith.__
Adrian; Altoona.

Hooper, George F., London.
Rodney.

Hooper, Wynnard, London.
Population; Statistics; Suicide.

Hopkinson, Alfred, Manchester.
Gaius.

Hopkinson, John.
Lighting—Electric.

Horne, John, Edinburgh.
Oases.

Horner, Misses.
Florence.

*__Hotchkiss, George W.__, Chicago, Ill.
Saws.

*__Hotchkiss, Jedidiah__, Staunton, Va.
Virginia.

Houghton, Monckton Milnes, Lord (1809–1885).
Hood, Thomas.

Houtsma, M. Th., Leyden.
Seljúks; Turks.

*__Hovey, Horace C.__, New Haven, Conn.
Luray Cavern; Mammoth Cave.

Hoyle, William E., Edinburgh.
Phosphorescence; Sea-Serpent; Sounding; Tape-worms; Trematoda.

*__Hubbard, J. R.__, New York.
Horse-Racing.

Hubner, E., Berlin.
Inscriptions—Roman.

Hubrecht, A. A. W., Utrecht.
Nemertines.

*__Hudson, J. F.__, Pittsburgh, Pa.
Pittsburgh.

Hueffer, Francis, London.
Bach, Johann Sebastian; Balfe, Michael William; Beethoven; Berlioz, Hector; Boccaccio; Cherubini; Chopin; Cimarosa; Fux, Johann Joseph; Gluck; Handel; Haydn.

Hügel, Anatole von, Baron, Cambridge.
Solomon Islands; Tahiti.

Hunt, H. G. Bonavia, London.
Flute; Forkel.

Hunter, John.
Bee.

Hunter, P. Hay, Yester, Scotland.
Clyde, Lord.

Hunter, W. B., Bath.
Hydropathy.

Hunter, William Frederick.
Canon Law.

Hunter, William Wilson, London.
Assam; Balasor; Bengal; Bhágalpur; Bombay; Brahmaputra; Bráhma Samáj; Calcutta; Cattack (Cuttack); Cawnpur; Central Provinces; Chutia (Chota) Nagpur Tributary States; Dacca; Darjiling or Darjeeling; Delhi; Hooghly or Húglí; Hyderabad; India; Madras; Mysore; Northwestern Provinces.

Husband, H. A.
Gymnastics.

Hutchison, A. F., Stirling.
Wallace.

Hutchison, Thomas, of Kirkcaldy.
Kirkcaldy.

Huxley, Thomas Henry, London.
Actinozoa; Amphibia; Animal Kingdom; Biology; Evolution.

Hymans, Henri, Brussels.
Rubens; Teniers; Van Dyck.

I

Ingram, John Kells, Dublin.
Leslie, Thomas Edward Cliffe; McCulloch; Political Economy; Quesnay; Ricardo; Rodbertus; Say, Jean Baptiste; Senior; Slavery; Smith, Adam; Sumptuary Laws; Turgot; Young, Arthur.

J

Jackson, B. Daydon, London.
Linnæus.

Jackson, Henry, Cambridge.
Parmenides; Socrates; Sophists; Thales; Xenocrates; Xenophanes; Zeno.

Jackson, J. R., London.
Ginger.

Jacobini, D., Archbishop, Rome.
Propaganda.

Jebb, Richard Claverhouse, Glasgow.
Aristophanes; Demosthenes; Euripides; Greece—History and Literature; Isæus; Isocrates; Lysias; Olympia; Pindar; Rhetoric.

Jenkin, Fleeming (1833–1885).
Bridges.

Jenkinson, H. I., Keswick.
Cumberland.

Jervise, Andrew.
Banff; Banffshire.

Jevons, William Stanley (1835–1882).
Boole, George; De Morgan.

Jewill, E., Cornwall.
Sail.

Johnson, C. Pierpoint.
Fig; Fir; Gooseberry; Heath; Larch; Olive; Oak; Oranges; Pine; Poplar; Sequoia.

Johnson, J. Henry, London.
Patents.

Johnson, J. Yate.
Canary Islands; Hawaiian Islands; Lisbon; Madeira.

*__Johnson, Oliver__, New York.
Garrison, William Lloyd.

*__Johnston, Alexander__, Princeton, N. J. (1849–1889).
United States—History; Washington, George; Webster, Daniel.

*__Johnston, J.__, of Wisconsin.
Milwaukee.

Johnston, Keith (1844–1879).
Africa; Bolivia; Brazil; Cape Colony; Costa Rica; Cuba; Fezzan.

Jones, Henry (Cavendish).
Badminton; Backgammon; Bézique; Cards; Cribbage; Croquet; Draughts; Ecarté; Euchre; Loo; Piquet; Poker; Whist.

Julg, Bernhard, Innsbruck (1825–1886).
Mongols—Language and Literature.

Jüng, Emil, Leipsic.
Hanover.

K

Kaltbrunner, D., Paris.
Senegambia.

Kan, C. M., Amsterdam.
Holland—Geography.

Kay, David.
Abyssinia; Algeria; Austria; Belgium.

Keane, A. H., London.
Georgia (Transcaucasia); Indians—American; Kaffraria; Khorásán; Kirghiz; Malay Peninsula and Malays; Negro; Niam-Niam; Nicaragua; Nubia; Senaar; Somali; Soudan; Tibbus; Tierra del Fuego; Transvaal; Turkey—Geography and Statistics; Ural-Altaic Languages; Yoruba; Yucatan; Zaire; Zanzibar; Zululand.

Keith-Falconer, Ion G. N., Cambridge (1856–1887).
Shorthand.

Kelland, Philip, Edinburgh.
Algebra.

*__Kellogg, Charles Day__, New York City.
Reformed Episcopal Church.

*__Kellogg, Day Otis__, American Editor of this Reprint.
Mexico; New York, in part; Ranke; Reformatories (American); Sanitary Commission; Santa Ana, Antonio Lopez de; Sewing Machines; Smithsonian Institution; Stanton, E. M.; Surveys—U. S. Coast and Geodetic; Tammany Hall; United Brethren in Christ; Universities and Colleges in the United States; Whig party.

*__Kelly, J. D. Jerrold__, U. S. Navy.
Navy.

Keltie, J. Scott, London.
Caffraria; Finland; Flinders, Matthew; Franklin, Sir John; Frobisher, Sir Martin; Livingstone, David; National Debt.

*__Kenna, John E.__, Charleston, W. Va.
West Virginia.

Kennedy, Alexander B. W., London.
Air-engine; Air-pump; Brake; Friction.

Kent, William Charles Mark.
Alford, Dean; Dalling.

Kerney, Michael, London.
Romance.

*__Kerr, Washington Caruthers__, (1827–1885).
North Carolina.

Kessler, Karl, Marburg, Prussia.
Mandæans.

*__Killits, J. M.__, Washington, D.C.
Signal Service.

King, C. C., Sandhurst College.
Marines.

King, R. J., Crediton, Devon.
Cornwall; Devonshire; Exeter.

Kirby, William F., London.
Hibernation.

Kirkup, Thomas.
Canning, George; Catherine II.; Cavour; Charlemagne; Charles V.; Essenes; Gustavus II. or Gustavus Adolphus; Hadrian, Roman Emperor; Henry VII. and VIII.; Herod; Julian; Lassalle, Ferdinand; Malthus; Owen, Robert; Proudhon; Saint-Simon; Socialism.

Kitchin, George William, Dean of Winchester.
Franks; Guise; Henry II., king of France; Henry IV., king of France; France—History of; Holland—History of; Huguenots; Hutten, Uhlrich von; Inquisition.

Kjellman, F., Upsala.
Sweden—Geography and Statistics.

Knott, Cargill G., Tokio, Japan.
Ice; Pneumatics.

Kropotkine, Petr Alexeievitch, London.
Lithuanians; Livonia or Livland; Maritime Province; Moscow; Nijni-Novgorod; Nova Zembla; Novgorod; Odessa; Perm; Poland—Russian; Pskoff; Riga; Russia—Geography and Statistics; Saghalin or Sakhalin; St. Petersburg; Samara; Samarkand; Saratoff; Siberia; Spitzbergen; Syr-Daria; Tartars or Tatars; Tobolsk; Tomsk; Transbaikalia; Transcaspian Region; Transcaucasia; Turkestan; Ural Mts.; Uralsk; Volga; Volhynia; Vologda; Vyatka; Warsaw; Yakutsk; Yaroslavl; Yeniseisk.

L

Lacouperie, A. Terrien de, London.
Tibet.

Laing, H.
Esquire.

Lake, John J., Birmingham.
Brooms; Brushes; Buttons.

*Lamberton, John P., Assistant Editor of this Reprint.
Saint Clair; Stuart, J. E. B.

Lamprey, Joseph H., London.
Apennines; Badakshan.

Land, J. P. N., Leyden.
Physiologus.

Landreth, P.
Gilfillan.

Lane, R. Stuart, London.
Tokio.

Lang, Andrew, Oxford.
Apparitions; Ballads; Balzac; Family; Moliére; Mythology; Names; Prometheus; Tales; Theocritus; Zeus.

Lang, P. R. Scott, St. Andrews.
Calculating Machines.

Langford, J. A., Birmingham.
Stafford.

Lankester, Edwin Ray, London.
Hydrozoa; Mollusca; Mussel; Polyzoa; Protozoa; Vertebrata; Zoology.

Large, Alfred, Edinburgh.
Deaf and Dumb.

Latham, G. W.
Cheshire.

Latham, Henry, Cambridge.
Examinations.

Laughton, J. K., Greenwich.
Farragut; Fitzroy.

Leech, D. J., Manchester.
Iron—Therapeutic Uses; Mercury—Therapeutic Uses.

*Leeds, Albert R., Hoboken, N. J.
Mineral Waters.

Lefroy, E. T., Dublin.
Down; Dublin.

Legge, James, Oxford.
Confucius; Lâo-Tsze; Mencius.

*Lesley, J. Peter, Philadelphia, Pa.
Pennsylvania.

Letheby, Henry (1816–1876).
Adulteration.

*Levan, W. Barnet, Philadelphia, Pa.
Steam Engineering—American.

Lewis, Thomas Hayter, London.
Architecture.

Liebermann, F., Berlin.
Pauli.

Lindsay, T. M., Glasgow.
Apologetics; Apostolic Canons; Apostolic Constitutions: Aquinas, Thomas; Armenia; Arndt, John; Arno or Aquila; Baptism; Basel—the Council of; Christianity; Franciscans; Gerson; Greek Church; Heresy; Inspiration; Irenæus; Jerome; Justin Martyr; Kempis, Thomas a; Lollards; Luther and Lutherans; Moravian Brethren; Occam; Plymouth Brethren; Zinzendorf; Zwingli.

Lister, Thomas Henry.
Crabbe, George.

Littledale, Richard Frederick, London.
Jesuits; Liguori; Monachism; Neri; Penance; Pilgrimage; Trappists; Trent—Council of; Usher; Vatican Council; Xavier.

Littlejohn, Henry D., Edinburgh.
Drowning.

Lockhart, W., Rome.
Rosmini-Serbati.

*Lockington, William N., Philadelphia, Pa.
Prairie; Pueblo Indians; Surveys and Explorations of the United States.

Lockyer, Joseph Norman, London.
Sun.

*Lodge, Henry Cabot, Boston.
Gallatin.

Lodge, Richard, Oxford.
Hanseatic League; Spain—History.

Lomas, John.
Segovia.

Longmore, Sir Thomas, Surgeon-General, British Army.
Ambulance.

Lonie, A. C. Oughter, Kinghorn, Fife.
Animism.

*Lord, J. K., Hanover, N. H.
New Hampshire.

Low, George M., Edinburgh.
Insurance—Life.

*Lowell, John, Boston, Mass.
Bankruptcy (American).

Luard, Henry Richards, Cambridge.
Grosseteste; Porson.

Lumby, Joseph Rawson, Cambridge.
James—Epistle of; Jude.

Lyall, Charles James.
Hamasah; Hindustani Literature.

Lyons, Ponsonby A., London.
Dictionary; Encyclopædia; Fust.

Lyte, F. Maxwell, London.
Salt.

M

*McAdam, D. H., St. Louis, Mo.
St. Louis.

Macalister, Alexander, Cambridge.
Phrenology; Physiognomy; Stigmatization.

McAll, Hugh, Lisburn, Ireland.
Belfast.

McArthur, George, Sub-Editor of the Encyclopædia Britannica.
Arithmetic.

Macaulay, James, London.
Tract Societies.

Macaulay, Thomas Babington, Lord (1800–1859).
Atterbury, Francis; Bunyan, John; Goldsmith; Johnson; Pitt.

M'Candlish, John M., Edinburgh.
Insurance—Fire.

M'Clatchie, T. R. H., Yokohama.
Japan.

*M'Clellan, George Brinton (1826–1885).
New Jersey.

M'Crie, Charles G., Ayr.
Knox, John.

MacDonald, A., London.
Hong-Kong.

Macdonald, James, Glasgow.
Caledonia; Comitia; Druidism; Elgin; Gaul; Hadrian's Wall.

Macdonald, John, London.
Fair; Fonblanque.

Macdonell, Arthur A., Oxford.
Jones, Sir William; Kalidasa.

Macdonell, John, London.
Savigny; Thibaut; Zachariae von Lingenthal.

MacDowall, Alexander B., London.
Bellows; Blasting; Blowpipe; Brick; Bronze; Candle; File; Filter.

M'Dowall, William.
Curling; Dumfries.

Macfarren, Sir George A. (1812–1886).
Music—History.

MacGregor, James.
Canoe.

M'Grigor, A. B., Glasgow.
Sepulchre—Holy.

M'Intosh, Wm. C., St. Andrews.
Annelida; Leech.

Mackay, Æneas J. G., Fifeshire.
Scotland—History; Robert the Bruce; Northumberland (Kingdom); Lothian; Sheriff; Stair.

Mackay, John S., Edinburgh.
Decimal Coinage; Euclid.

Mackay, Robert, Perth.
Castle.

M'Kendrick, J. G., Glasgow.
Bell, Sir Charles; Brodie, Sir Benjamin; Ear; Eye; Longevity; Magnetism, Animal; Milk; Narcotics; Nervous System; Sleep; Smell; Stammering; Stereoscope; Taste; Touch; Vascular System; Voice.

M'Lachlan, Robert.
Dragon-Fly; Ephemeridæ; Insects; Locust; Mosquito.

Maclagan, Robert, British Army.
Kashmir; Lahore; Mahmúd; Punjab.

M'Lauchlan, Thomas.
Gaelic Language and Literature.

Maclear, George F., Canterbury.
Missions.

M'Lennan, John F., Edinburgh.
Lycanthropy.

M'Murdo, William M., British Army.
Volunteers.

M'Nab, W. R., Dublin.
Histology—Vegetable.

Macpherson, John.
Baths; Mineral Waters.

Madan, Falconer, Oxford.
Oxford.

Magnus, Sir Philip, London.
Technical Education.

Mahillon, Victor, Brussels.
Ophicleide; Oboe; Tournebout; Transverse Flute; Trombone; Trumpet; Zincken.

Maitland, Eardley, Woolwich.
Gunmaking and Gunnery; Sights.

Major, Richard Henry, British Museum.
Henry the Navigator.

Markham, Clements R., London.
Geography—Historical; Peru; Polar Regions.

*Marks, W. D., Philadelphia, Pa.
Telephones in the United States.

Marshall, Julian.
Tennis.

Martin, Frederick (1833–1883).
England—Geography and Statistics.

Martin, Sir Theodore, London.
Helps, Sir Arthur.

Marzials, E., London.
Jasmin.

Masson, David, Edinburgh.
Milton.

Masson, Miss Flora, Edinburgh.
D'Arblay, Madame; Freiligrath; Fouque; Gaskell, Mrs.; Hemans, Mrs.; Hoffmann; Körner, Karl Theodore.

Masson, J., Dundee.
Babrius.

Masson, Orme, Melbourne.
Smoke Abatement; Pyrotechny.

Masters, Maxwell Tylden, London.
Horticulture—Principles; Orchids; Palm; Peach; Potato; Wheat; Vine.

Matthews, H. J., Brighton.
Londonderry, Second Marquis of.

Maunoir, Charles, Paris.
Cochin China.

Maurice, J. F., Farnborough.
War.

Maw, Arthur, Trowbridge, Salop.
Encaustic Tiles.

Maw, George, Brosely, Salop.
Fireclay.

Max-Müller, Friedrich. See Müller, F. M.

Maxwell, C. C.
Dundee.

Maxwell, James Clerk (1831–1879).
Atom; Attraction; Capillary Action; Constitution of Bodies; Diagrams; Diffusion; Dimensions; Ether; Faraday; Harmonic Analysis; Physical Sciences.

May, Thomas Erskine (1815–1886).
Parliament.

*Medill, Joseph, Chicago, Ill.
Illinois.

Meiklejohn, John M. D., Dundee.
Mann.

Meissas, Gaston, Paris.
Lille; Lyons; Marseilles; Paris; Puy de Dôme; Pyrénées; Toulouse; Versailles.

Meldola, Raphael, London.
Chemistry.

Melven, William, Glasgow.
Renfrew.

Menteath, P. W. Stuart, Paris.
Andorre; Basque Provinces.

Menzies, Allan, Abernyte, Perthshire.
Scotland, Church of.

Menzies, R. C., Musselburgh, Scotland.
Paper.

Merivale, Charles, Dean of Ely.
Augustus; Cato; Cicero.

Merz, J. Theodore.
Lotze.

Meyer, Paul, Paris.
Provençal Language and Literature.

Michael, Albert D., London.
Mite.

*Micou, R. W.
Waterbury, Connecticut.

Middleton, J. Henry, Cambridge.
Metal-Work; Monreale; Mosaic; Mosque; Mural Decoration; Niello; Orcagna; Pæstum; Palissy; Phigalia; Plate; Pinturicchio; Pisano; Pottery and Porcelain; Raphael; Ring; Robbia; Rome—Topography and Archæology; Schools of Painting; Sculpture; Seals; Selinus; Tempera; Terra-Cotta; Textiles; Theatre; Tiles; Tiryns; Urbino; Wood-Carving; Venice—Antiquities; Verona; Verrocchio; Vesta; Vienna; Vitruvius; Wells (borough); Winchester; Windsor; Wren, Christopher; Zuccaro Family.

Mill, Henry R.
Rain-band; Rain-gauge; Red Sea; Thermometer; Whirlpool.

Miller, A. W. K.
Britannia.

Miller, Hugh, Edinburgh.
Northumberland (County).

Milligan, William, Aberdeen.
Ephesians.

Minto, William, Aberdeen.
Byron; Chaucer; Dekker, Thomas; Dickens; Dryden; Fielding; Lytton; Mandeville, Bernard de; Massinger; Mill, John Stuart; Minstrel; Moore, Thomas; Poe; Pope, Alexander; Prior; Reade; Richardson; Rogers, Samuel; Scott, Sir Walter; Sheridan; Smith, Sydney; Smollett; Spenser; Steele; Sterne; Thomson, James; Waller; Walton, Izaak; Warton (Family); Wordsworth.

Mivart, St. George, Kensington, London.
Ape; Reptiles; Skeleton; Viper.

Moffat, Robert (1795–1883).
Bechwana.

Mohn, Henrik, Christiania, Norway.
Norway—Geography and Statistics.

Monro, David Binning, Oxford.
Homer; Wolf, F. A.

Montefiore, Leonard A.
Górres.

Moore, Thomas (1820–1887).
Cactus; Camellia; Horticulture—Practice; Labyrinth.

*Moore, Thomas E., Brooklyn, L. I.
Salvation Army.

Moore, W., London.
Tonnage.

Morel-Fatio, Alfred, Paris.
Quevedo; Spain—Language and Literature; Vega.

Morfill, W. R.
Poland; Poushkin; Russia—History and Literature; Servia; Slavs.

Moriarty, Henry Augustus, British Navy.
Log; Navigation; Seamanship.

Morison, J. Cotter (1831–1888).
History; Robertson, William.

Morley, John, London.
Burke; Comte; Danton; Diderot.

Morley, Thomas, London.
Anchor; Block Machinery; Cable; Capstan.

Morris, William, London.
Mural Decoration.

Morris, W. O'Connor, Tullamore, Ireland.
Iron Mask; Nelson; O'Connell, Daniel; Plunket.

Moseley, Henry Nottidge, Oxford.
Myriapoda.

Muir, Thomas, Glasgow.
Squaring the Circle.

Muirhead, James, Edinburgh.
Patron and Client; Roman Law.

Muirhead, J. Findlay, Leipsic.
Leipsic; Mainz; Mecklenburg; Moravia; Munich; Nuremberg; Oldenburg; Pesth; Prague; Prussia; Rhine; Salzburg; Saxe-Weimar-Eisenach; Saxony; Schleswig-Holstein; Silesia; Stein; Transylvania; Würtemburg.

Müller, A., Königsberg.
Sunnites and Shi'ites.

Müller, D. H., Vienna.
Yemen.

Müller, Friedrich Max, Oxford.
Aryan.

Mullinger James Bass, Cambridge.
Matthew of Paris; Old Catholics; Parker, Matthew; Pius IX.; Popedom; Reformation; Richard of Cirencester; Universities.

Munro, Robert, Kilmarnock.
Rude Stone Monuments.

Munro, Robert, Dumbartonshire.
Vitrified Forts.

Murray, Alexander Stuart, British Museum.
Achilles; Agamemnon; Ajax; Ajax Oileus; Amazon; Amphiaraus; Antioch; Apelles; Aphrodite; Apollo; Aqueduct; Archæology; Areopagus; Ares; Argonauts; Artemis; Athena; Athletæ; Augurs; Bronze; Circus; Costume; Dionysus; Etruria; Gems; Laocoon; Lamp; Mirror; Phidias.

Murray, George R. Milne, British Museum.
Fungus; Parasitism—Vegetable.

Murray, James A. H.
English Language.

Murray, John, Edinburgh.
North Sea; Norwegian Sea; Pacific Ocean.

Muston, C. N. B., Edinburgh.
Canterbury; New Zealand.

N

Naake, J. T., British Museum.
Gogol.

Nesbitt, Alexander.
Glass.

*Nettleton, A. B., Minneapolis, Minn.
St. Paul, Minn.

*Newberry, John Strong, New York City.
New York State.

*Newcomb, Simon, Washington, D. C.
Moon.

Newman, H. J., London.
Wine.

Newton, Alfred, Cambridge.
Birds; Bunting; Bustard; Buzzard; Capercally or Caperkally; Coot; Cormorant; Crane; Crossbill; Crow; Cuckoo; Curlew; Dodo; Dove; Duck; Eagle; Eider; Emeu; Falcon; Fieldfare; Finch; Flamingo; Flycatcher; Fowl; Frigate-Bird; Fulmar; Gadwall; Gannet; Gare-Fowl; Goat-Sucker; Golden-Eye; Goldfinch; Goose; Grackle; Grebe; Greenshank; Grosbeak; Grouse; Guacharo; Guillemot; Guinea-Fowl; Gull; Hawk; Harpy; Harrier or Hen-Harrier; Heron; Hoactzin or Hoatzin; Honey-Eater or

Newton, Alfred—Continued.
Honey-Sucker; Honey-Guide; Hoopoe; Humming-Bird; Hornbill; Ibis; Icterus; Jabiru; Jacamar; Jacana; Jackdaw; Jay; Kakapo; King-Bird; Kingfisher; Kinglet; Kiwi or Kiwi-Kiwi; Knot-Bird; Lammergeyer; Lapwing; Lark; Linnet; Loom or Loon; Love-Bird; Lyre-Bird; Magpie; Manakin-Bird; Manucode; Martin; Megapode; Merganser; Mocking-Bird; Moor-Hen; Mot-mot; Mouse-Bird; Nestor; Nightingale; Nonpareil; Oriole; Ocydrome; Ornithology; Orthomyx; Ortolan; Osprey or Ospray; Ostrich; Ousel, or Ouzel; Owl; Oxynotus; Oyster-Catcher; Parrot; Partridge; Peacock; Pelican; Penguin; Petrel; Pheasant; Pigeon; Pitta; Plover; Pochard; Pratincole; Puff-Bird; Puffin; Quezal; Rail; Raven; Razor-bill; Redbreast; Redshank; Redstart; Redwing; Rhea; Rifle-Bird; Quail; Roller-Bird; Rook; Ruff; Sand-Grouse; Sandpiper; Scamp; Scrub-Bird; Secretary-Bird; Serieme or Caryama; Shearwater; Sheld-Drake or Shelldrake; Shoveler; Shrike; Siskin; Skimmer; Skua; Snake-Bird; Snipes; Sparrow; Spoonbill; Starling; Stilts; Stork; Sun-Bird; Sun-bittern; Swallow; Swan; Swift; Tanager; Tapaculo; Teal; Tern; Thrush; Tinamou; Titmouse; Tody; Toucan; Touraco; Tree-Creeper; Trogon; Turkey; Vulture; Wagtail; Warbler; Waxwing; Weaver-Bird; Wheatear; Whitethroat; Wigeon; Woodcock; Woodpecker; Wren; Wryneck; Yellowtail; Zosterops.

Newton, A. V., London.
Globe.

Newton, Edwin T., London.
Plesiosaurians; Pterodactyle.

***Newton, Hubert A.**, New Haven, Conn.
Meteor.

Nichol, John, Glasgow.
American Literature; Burns.

Nichols, Thomas, British Museum.
Goodsir.

Nicholson, E. W. B., Oxford.
Mandeville, Jehan de.

Nicholson, Henry Alleyne, Aberdeen.
Buffon; Corals; Cuttlefish; Cuvier.

Nicholson, Joseph Shield, Edinburgh.
Taxation; Usury; Value; Wages; Wealth.

Nicol, Henry.
France, Language of.

Nicol, James, Aberdeen.
Crystallography; Diamond.

***Nicolay, John George.**
Lincoln, Abraham.

Nicolson, Alexander, Renfrewshire.
Cromwell, Oliver.

Nisbet, Charles, London.
Scutari.

Noble, John, Cape of Good Hope.
Hottentots.

Noble, William James, London.
Glauber.

Nöldeke, Theodor (1836–1875).
Moallakat; Mohammedanism; Koran; Pahlavi; Persepolis; Persia—Ancient History; Semitic Languages.

Noreen, Adolf, Upsala.
Scandinavian Languages.

Norman, C. B.
Fez.

Nugent, Sir Charles, B.P.N.H., British Army.
Fortification.

Nys, Ernest, Brussels.
Pufendorf.

Nyström, J. Franz, Upsala.
Sweden—Geography and Statistics.

O

***O'Connor, J. D. A.**, Chicago, Ill.
Galena.

O'Dowd, James Cornelius, London.
Military Law; Militia.

Ohlson, J. L., London.
Barbadoes; Guiana; Jamaica.

Oldfield, Thomas, British Museum.
Pangolin.

Ollier, Edmund (1826–1886).
Alsace.

O'Meara, Eugene H., Dublin.
Diatomaceæ.

O'Neill, Charles.
Dyeing.

Orelli, A. von, Zurich.
Veto.

***Orton, Edward**, Columbus, O.
Ohio.

Otté, Elise C. Miss.
Æsir.

Ouseley, G. J., Edinburgh.
Catholic Apostolic Church.

Overland, O. Andreas, Christiania.
Norway—Statistics.

Overton, Canon, Epworth.
Law, William.

Owen, Sir Richard.
Oken.

P

Paley, Frederick Apthorp (1816–1889).
Lucian; Menander; Metempsychosis; Pausanias; Pliny; Plutarch; Polybius.

Palgrave, William Gifford.
Arabia; Caravan; Caravanserai.

Palliser, F. B., Mrs.
Embroidery.

Palmer, Edward Henry (1840–1882).
Firdousí; Hafiz; Harírí; Haroun al Raschid; Hasan and Hussein; Ibn Khaldoun; Legerdemain.

Palmer, Sir Roundell. See **Selborne.**

Paoli, Cesare, Florence.
Siena.

Papworth, Wyatt, London.
Building.

Pardon, George Frederick (Capt. Crawley).
Bagatelle; Billiards.

Parish, Frank, London.
Argentine Republic.

Parker, Charles Stuart, London.
Peel.

Parker, William Kitchen, London.
Birds.

Paton, James, Glasgow.
Asphalt; Baking; Bleaching; Bookbinding; Brass; Calico-Printing; Cameo; Carpet; Carriage; Cinchona; Coffee; Comb; Copper; Cutlery; Distillation; Feathers; Fibres; Flax; Floor Cloth; Flour; Gas and Gas-Lighting; Gelatin, Industrial Relations of; Glasgow; Glass, Manufacture; Greenock; Hat; Hosiery; Indigo; Ink; Jute; Lamp; Leather; Linen Manufacture; Linoleum; Linseed; Liqueurs; Matches; Milk; Mirror; Needle; Net; Nut; Oils; Paraffin; Pen; Pencil; Pigments; Pin; Pipe; Rope; Safes; Sewing-Machines; Shoemaking; Silk; Soap; Sodium; Starch; Sugar; Tar; Tea; Tobacco; Weaving; Wool; Yarn.

Patrick, David, Edinburgh.
Council; Deism.

Pattison, E. F. S., Mrs. (Lady Dilke).
Greuze; Houdon; Ingres; Millet, J. F.

Pattison, Mark (1813–1884).
Bentley; Casaubon; Erasmus; Grotius; Lipsius, Justus; Macaulay; More, Thomas.

Paul, C. Kegan.
Godwin, Mary and William; Kingsley, Charles.

Pauli, Reinhold, Göttingen (1823–1882).
Lorraine; Lübeck.

Payne, Edward James, London.
Grey, Earl; Violin.

Payne, Joseph F., London.
Linacre or Lynaker, Thomas; Medicine—History; Plague; Sweating Sickness.

***Payne, William Harold**, Ann Arbor, Mich.
Schools in the United States.

Peacock, D. R., Batoum.
Kuban.

***Peckham, Stephen Farnum.**
Petroleum.

Pegler, S. Holmes.
Goat.

Peile, John, Cambridge.
A; Alphabet; N.

Pelham, H. F., Oxford.
Livy; Nero; Nerva; Otho; Roman History.

***Perkins, George Henry**, Burlington.
Vermont.

Perry, George G.
England, Church of.

Petrie, W. M. Flinders, Bromley.
Pyramid; Weights and Measures.

Pettigrew, J. Bell, Edinburgh.
Flight.

Phillips, J. Rowland.
Glendower.

Picton, Sir James Allanson.
Liverpool.

Picton, James Allanson, Jr., Liverpool.
Priestley.

Piesse, Charles H., London.
Perfumery.

Pike, Luke Owen.
Crime.

Platt, J. A., London.
Sappho.

Platts, J. T.
Hindūstānī.

Pollen, John Hungerford, Kensington.
Carving; Fan; Filigree; Furniture.

Pollock, Frederick, Oxford.
Tort; Sword.

Pollock, Walter H., London.
Musset; Thackeray.

Poole, R. Lane, Oxford.
Wycliffe.

Poole, Reginald Stuart, British Museum.
Egypt; Hammer-Purgstall, Joseph von; Hieroglyphics; Numismatics.

Porter, Josias Leslie (1823–1889).
Damascus; Dead Sea.

Portlock, J. E., Whitehall.
Fortification.

Postgate, J. Percival, London.
Propertius; Tibullus.

Potter, W. Norwood, London.
Chess.

Powell, F. York.
Iceland.

Pratt, Sisson Cooper, Woolwich.
Battery.

*Price, W. T., Louisville, Ky.
Louisville.

*Prime, Samuel Irenæus (1812–1885).
Morse.

*Prince, J. Bradford, Santa Fé, New Mexico.
New Mexico.

Pritchard, Charles, Oxford.
Herschel; Photometry.

*Proctor, John R., Frankfort, Ky.
Kentucky.

*Proctor, Richard Anthony (1837–1888).
Astronomy.

Prothero, G. W., Cambridge.
Henry I.–VI.; Pole; Richard I.–III.; Star-Chamber; Stephen, King of England; Temple, Sir W.; Warwick (Earl); William I.–IV.; William of Wykeham.

*Pryor, Roger Atkinson, New York.
Jackson, T. J. ("Stonewall Jackson.")

Puckle, Canon, Dover.
Dover.

Purves, James, Edinburgh.
Bruce, Michael.

Pye-Smith, Philip H., London.
Harvey.

*Pyle, J. G., St. Paul, Minn.
Minnesota.

Q

Quick, Robert H., Cambridge.
Froebel; Kindergarten.

R

Radcliffe, E. Delmé.
Falconry.

Rae, John, Kensington.
Funeral Rites; Greece—Geography.

Rae, W. Fraser.
Fox, Charles James.

Ralston, William Ralston Shedden, Oxford.
Hertzen, Alexander.

Rampini, Charles J. G., Elgin.
Orkney and Shetland.

Ramsay, Alexander, London.
Andes.

Ramsay, Sir James Henry, Banff.
Feudalism.

Ramsay, William M., Aberdeen.
Hephæstus; Hera; Hermes; Illyria; Jupiter; Mysteries; Oracle; Phrygia; Scio; Sicyon; Smyrna.

Rankine, W. J. Macquorn (1820–1872).
Mechanics, Applied.

Ransom, Edwin, Bedford.
Bedfordshire.

Rasch, Halvor.
Christiania.

Rawlinson, George, Oxford.
Herodotus.

Rawlinson, Sir Henry C., London.
Baghdad; Bushire or Abuscherr; Bussorah; Euphrates; Herat; Ispahan; Kurdistan.

Rayleigh, Lord (John William Strutt).
Optics; Wave Theory of Light.

*Read, Miss Emily.
Delaware.

Réclus, Élie, Paris.
Ethnography; Fire.

Reeve, Henry, London.
Ambassador; Balance of Power; Broglie, Duc de; Brougham; Cabinet; Clarendon; Congress; Declaration of Paris; Guizot.

Reid, George, Edinburgh.
Lithography; Painting; Turner.

Reid, James S., Cambridge.
Quintilian; Ritschl; Ruhnken; Severus; Silius Italicus; Statius; Tiberius; Trajan; Tribune; Varro; Wyttenbach.

Reid, T. Wemyss, Leeds.
Leeds.

*Reid, Whitelaw, Editor, New York Tribune.
Greeley; Newspapers.

Reilly, A. Adams.
Forbes, J. D.

Renard, N., Brussels.
Limburg; Belgium.

Renton, A. Wood, London.
Thurlow.

Reynolds, S. Harvey, London.
Coronation.

Ricci, Luini, London.
Lesueur; Lully.

Richard, Henry (1812–1888).
Cobden.

Ridgeway, William, Cork, Ireland.
Strabo; Umbria.

Rigg, James Harrison, Tottenham.
Methodism.

Ritchie, James, Edinburgh.
Diuretics.

Rix, Herbert, London.
Royal Society.

Robb, D. Constable, Oxford.
Gelatin.

Roberts-Austen, William Chandler, London.
Gold; Graham, Thomas; Mint.

Robertson, Edmund, London.
Action; Bankruptcy; Bastard; Bill; Blasphemy; Blackstone; Code; Commons; Company; Contempt of Court; Contract; Conspiracy; Constitution and Constitutional Law; Copyright; Coroner; Corporation; Costs; Court; County; Criminal Law; Damages; Divorce; Domicile; Ecclesiastical Commission; Education—Laws Relating to; Equity; Evidence; Executors and Administrators; Exchequer; Extradition; Factors; Factory Acts; Fictions; Fine; Forgery; Forest Law; Fraud; Game Laws; Games; Gaming; Government; Hallam, Henry; Heresy; Highways; Husband and Wife; Infant; Inheritance; International Law; Intestacy; Judicature; Jury; Landlord and Tenant; Law; Limitation—Statutes of; Marriage; Mortgage; Murder.

Robertson, Eric S., Lahore, India.
Delavigne, Jean François Casimir.

Robertson, George Croom, London.
Abelard; Absolute; Analogy and Analysis; Antimony; Association; Axiom; Hobbes.

Robertson, John.
Burton-on-Trent.

Robinson, Charles John, London.
Baron; Caerleon.

Roby, Henry John, Oxford.
Priscian.

Rockstro, W. S.
Mendelssohn; Meyerbeer; Mozart; Palestrina; Plain Song; Purcell; Spohr; Tallis; Wagner, Richard; Weber.

*Rockwell, A. P., Boston, Mass.
Fire and Fire Extinction.

Rodwell, George F.
Etna; Lipari Islands.

Rogers, J. E. Thorold, Oxford.
Finance; Free Trade.

Rogers, Henry (1807–1877).
Gibbon.

Romanes, George John, London.
Hybridism; Instinct.

Ronson, W. T., London.
Rajputana.

Ross, John M.
Accent.

Rossetti, William Michael, London.
Canova; Cartoon; Cellini, Benvenuto; Cimabue, Giovanni; Claude of Lorraine or Claude Gelée; Corregio; Domenichino; Dyce; Fiesole; Gaddi; Ghirlandajo; Haydon; Lippi; Mantegna; Murillo; Parmigiano; Perugino; Pippi; Reni; Ribera; Robusti or Tintoret; Rosa Salvator; Shelley; Signorelli; Titian; Veronese; Sarto.

Rost, Reinhold, London.
Pali; Malay Peninsula and Malays; Siam—Language and Literature; Tamils; Thugs.

*Rowell, E. T., Lowell, Mass.
Lowell.

*Rowland, Henry A., Baltimore, Md.
Screw.

Rowsell, Francis W.
Admiral and Admiralty; Dockyards.

Rudler, Frederick William, London.
Earthquake; Electro-Metallurgy; Enamel; Granite; Jade; Marble; Pearl; Ruby; Serpentine.

Ruge, Sophus.
Map.

*Runnion, James B., Chicago, Ill.
Chicago.

Russell, David, Dunfermline.
Dunfermline.

Russell, Francis Shirley.
Cavalry.

Russell, John, Galashiels.
Galashiels.

Russell, J. M., Maidstone.
Maidstone.

Russell, William, Edinburgh.
Simpson, J. Y.

Rutley, Frank, London.
Lapidary.

Rye, Edward Caldwell, Putney.
Diptera; Earwig; Flea; Ichneumon Fly.

S

St. Paul, Anthyme.
Paris; Rouen.

Saintsbury, George Edmund Bateman, London.
Butler, Samuel; Corneille; Defoe; Gautier; Joinville; La Bruyére, Jean de; La Fontaine; Lamartine; La Rochefoucauld, François de; Le Sage, Alain René; Lever, Charles; France—Literature of; Maistre, Joseph de; Malherbe, François de; Marguerite de Valois; Marivaux; Marot; Mérimée; Michelet; Montaigne; Montesquieu; Montpensier, Duchesse de; Orleans, Charles of; Pascal; Saint-Simon, Duc de; Sévigné; Stael; Quinet; Retz; Ronsard; Rabelais; Racine; Rousseau; Thiers; Trollope, Anthony; Vigny; Villehardouin; Villemain; Vilion; Voltaire; Wilson, John.

Salmond, S. D. F., Aberdeen.
Hermeneutics; Logos.

Sang, Edward.
Arch.

Sawyer, J. Charles, Tottenham.
Jasmine or Jessamine.

Sawyer, Frederick E., Brighton.
Halo; Sussex.

Sayce, Archibald Henry, Oxford.
Babel; Babylonia; Cyrus; Darius; Elam; Grammar; Humboldt, W. von; Inscriptions—Cuneiform and Semitic; Lydia.

Schäfer, Edward Albert, London.
Histology—Animal.

Schiller-Szinessy, Solomon M., Cambridge.
Mahzor or Mahazor; Maimonides; Midrash; Mishnah; Rabbi; Raba; Raban; Ramban; Rashba; Rashbam; Rashi; Riph; Rosh; Saadia; Talmud; Tam; Targum.

Schürer, E., Geissen.
Philo; Romans (Epistle); Thessalonians.

Schuster, Arthur, Manchester.
Spectroscopy; Volta.

Scott, C. Anderson, Aberdeen.
Ulfilas.

Scott, Edward J. L., British Museum.
Gauden.

Scott, John, London.
Hemiptera.

Scott, William Bell, London.
Cox; Delaroche, Hippolyte.

Scott, W. B., Mrs., London.
Gioberti.

Seeley, John Robert, Cambridge.
Napoleon I.

Seidlitz, N. von, Tiflis, Caucasia.
Lesghians.

Selborne, Earl of (Roundell Palmer).
Hymns.

Sellar, William Young, Edinburgh.
Catullus; Ennius; Horace; Juvenal; Livius Andronicus; Lucilius; Lucretius; Mæcenas, C. Cilnius; Martial; Nævius; Ovid; Pacuvius, Marcus; Persius; Petronius; Plautus; Roman Literature; Terence; Virgil.

Semple, Robert Hunter, London.
Apothecary.

Seth, Andrew, St. Andrews.
Mysticism; Norris; Paley; Peripatetics; Philosophy; Pythagoras; Reid; Scepticism; Scholasticism; Spinoza; Stewart; Theosophy; Theresa; Trendelenburg; Weber's Law; Whately; Wolff, Christian.

Shairp, John Campbell (1819–1885).
Keble, John.

Sharp, William.
Thoreau.

Sharpe, James.
Archery.

Shaw, Thomas, Edinburgh.
Buccaneers; Cumberland, William Augustus, Duke of; Desmoulins; Dundee, Viscount; Roland; Talleyrand; Vergniaud.

Shaw, William N., Cambridge.
Electrolysis; Pyrometer.

*Shea, George, New York.
Hamilton, Alexander.

*Sheahan, J. W., Chicago, Ill.
Illinois.

Shearer, Thomas, Glasgow.
Boatbuilding (see Ship).

Shelley, C. P. B., London.
Hammer; Hand Tools; Lathe; Machine Tools; Gauge.

Shipley, Arthur Everitt, Cambridge.
Wasps; Weevil; Wheat-pests; Vine Diseases.

*Short, John T., Columbus, O.
Ohio.

Sibree, James.
Madagascar; Mauritius.

Sidgwick, E. M., Mrs., Cambridge.
Spiritualism.

Sidgwick, Henry, Cambridge.
Ethics.

Sievers, G. Eduard, Tübingen.
Germany—Language; Gothic Language; Philology—Aryan Languages.

Sime, James.
Deák, Franz; Dewitt, John; Dresden; Frederick the Great; Germany—History and Literature of; Grillparzer, Franz; Hanover; Henry IV., emperor; Joseph II., emperor; Leopold I., emperor; Lessing; Nibelungenlied; Reuter; Schiller; Sweden—History; Switzerland—Literature; Wallenstein; Wieland; William the Silent; Winckelmann.

Sime, William, London.
Josephine.

*Simons, William, Charleston, S. C.
South Carolina.

Simpson, A. L., Derby.
Derby.

Sinclair, Thomas, London.
Lamennais.

Skeat, Walter William, Cambridge.
Langland, William.

Small, John, Edinburgh.
Barbour, John; Douglas, Gawain or Gavin; Eliot, John; Exhibitions; Scotland—Early Literature.

*Smalley, E. V., Cleveland, O.
American Journalism.

Smith, Alexander (1830–1867).
Cowper, William.

Smith, C. Michie, Madras.
Zodiacal Light.

Smith, George (Assyrian Explorer) (1842–1876).
Bernoulli or Bernouilli.

Smith, George, Annalist of India.
Clive; Ellenborough; Lawrence, Sir Henry Montgomery; Lawrence, John Laird Stair Lawrence, Baron.

Smith, George Barnett, London.
Browning, Mrs.

*Smith, Goldwin, Toronto.
Dalhousie; Peel.

Smith, John, Edinburgh, Canada.
Dentistry.

Smith, J. F.
Parker, Theodore; Pietism; Rationalism; Rothe; Schleiermacher; Swedenborg; Toland; Unitarianism.

Smith, L. Toulmin, Miss.
Guild; Malta.

Smith, R. H., Birmingham.
Joints; Lifts; Lubricants.

Smith, Walter.
Leyden, John; Macleod.

Smith, William, Edinburgh.
Grote.

Smith, William Browning, Edinburgh.
Chambers, Robert; Chatham; Constantine; Cranmer; Derby, Earl of; Dundonald; Elijah; Elphinstone, the Honorable Mountstuart; Epitaph.

Smith, William Charles, Edinburgh.
Ballot; Borough; Camisards; Campbell, Lord; Caste; Concordat; Concubinage; Consul; Contraband; Court-Martial; Cremation; Cretinism; Dance; Dervish; Entail; Foundling Hospitals; Freemasonry; Infanticide; Liquor Laws; Lotteries.

Smith, Worthington G.
Mushroom; Potato, Diseases of.

Smith, William Robertson, Editor Encyclopædia Britannica.
Angels; Apostle; Aramaic Languages; Ark of the Covenant; Baal; Bible; Chronicles; Canticles; David; Decalogue; Eve; Haggai; Hebrews, Epistle to the; Hebrew Language and Literature; Hosea; Jerusalem; Joel; Judges, Book of; Kings, Books of; Lamentations; Levites; Malachi; Mecca; Medina; Messiah; Micah; Michaelis; Moloch; Nahum; Nineveh; Numerals; Obadiah; Palmyra; Passover; Petra; Philistines; Priest; Prophet; Psalms; Reuchlin; Ruth; Sabbath; Sacrifice; Sacy, Baron Silvestre de; Salt; Samaria; Samaritans; Samuel, books of; Temple; Tithes; Tobit; Vow; Zephaniah.

Smith, W. Saumarez, Birkenhead.
Colossians; Corinthians.

*Snow, Freeman, Cambridge, Mass.
Madison; Monroe.

*Snow, Marshall Solomon, St. Louis, Mo.
Missouri.

Socin, Albrecht, Tübingen.
Lebanon; Mesopotamia; Nestorians; Palestine; Phœnicia; Sinai; Syria.

Sollas, W. Johnson, Dublin.
Sponges.

Somers, Robert.
Commerce; Co-operation; Corn Laws; Corn Trade; Emigration; Exchange; Excise.

Sorley, W. R., Cardiff.
Iamblichus; Leibnitz.

Southward, John, London.
Typography.

Spalding, William.
Addison; Anne, Queen.

Spitta-Bey, Wilhelm, Cairo.
Sunnites and Shi'ites.

Sprague, Thomas Bond, Edinburgh.
Annuities.

***Squier, Ephraim George** (1821–1887).
Honduras; Honduras—British.

Stead, W., Darlington.
Darlington.

Steel, W., Carlisle.
Carlisle.

Stephen, John, Edinburgh.
Accumulation.

Stephen, Robert S., Douglas, England.
Man, Isle of.

Stephens, F. G.
Landseer.

Stephens, H. Morse.
Littré; Marat; Maintenon, Madame de; Marie Antoinette; Murat; Mazarin; Mirabeau; Moore, Sir John; Napier, Sir Charles J.; Napier, Sir William F. P.; Necker, Jacques; Orleans, Dukes of; Portugal—Geography and History; Robespierre; Turenne.

***Stephens, Kate**, Cambridge, Mass.
Women in the United States.

***Stevens, John Austin**, New York.
New York (State).

Stevenson, David.
Canal; Coffer-Dams; Diving; Dredging.

Stevenson, Robert Louis.
Béranger.

Stevenson, Thomas (Engineer).
Harbors; Lighthouse.

Stevenson, Thomas, M.D.
Medical Jurisprudence; Poisons.

Stewart, Balfour (1828–1887).
Meteorology.

***Stewart, George, Jr.**, Quebec.
New Brunswick; Nova Scotia; Prince Edward Island; Quebec.

***Stoddard, Richard Henry**, New York.
Hawthorne.

Stoddart, James H.
Glasgow.

***Stone, Henry**, Boston, Mass.
Pacific Railroads.

Storer, John, Glasgow.
Gum.

Storm, Gustav, Christiania, Norway.
Snorro Sturluson.

Storm, Johan, Christiania.
Romance Languages.

Storr, Francis.
Academy; Dudevant; Duel; Fable; Flaminius; Games; Germanicus; Gladiators.

Strachey, Richard, London.
Asia; Himalaya; Kuen-Lun or Kouen-Lun.

Street, George Edmund (1824–1881).
Architecture.

Stuart, J. Montgomery.
Foscolo.

Sullivan, William K., Cork, Ireland.
Celtic Literature; Claw; Fenians; Ireland—History; Patrick, St.

Sully, James, Cambridge.
Æsthetics; Dream; Evolution; Herder; Lewes, George Henry.

***Sumner, William Graham**, New Haven, Conn.
Jackson, Andrew.

Sutherland, Alexander, Melbourne.
Melbourne; Victoria (colony).

Sweet, Henry.
Grimm.

Swinburne, Algernon Charles, London.
Beaumont and Fletcher; Chapman, George; Congreve; Keats, John; Landor, Walter Savage; Marlowe; Mary (of Scotland); Tourneur; Webster, John.

Symonds, John Addington, Davos Platz, Switzerland.
Guarini; Ficino; Filelfo; Guicciardini; Italy—History; Jovius, Paulus or Paolo Giovio; Machiavelli; Manutius; Metastasio; Petrarch; Poggio; Politian; Pontanus; Renaissance; Tasso.

***Symons, Thomas W.**, U. S. Engineers.
Oregon; Washington Territory.

***Sypher, Josiah Rhinehart**, Philadelphia.
American Copyright.

T

Tait, Peter Guthrie, Edinburgh.
Hamilton, Sir W. Rowan; Light; Lightning Conductor or Lightning Rod; Maxwell, James Clerk; Mechanics; Quaternion; Radiation; Thermodynamics; Thunderstorm; Wave.

Taylor, E. Fairfax, Weybridge, England.
Bibliography; Book.

Taylor, Henry Martyn, Cambridge.
Conic Sections; Newton.

Taylor, John, Bristol.
Bristol.

Tedder, Henry R., London.
Libraries; Pamphlets; Periodicals; Romance; Shakespeare—Bibliography; Societies; Rymer, Thomas; Wood, Anthony.

Tegetmeier, William Bernhard.
Poultry.

Telfer, J. Brechan, London.
Crimea.

Temple, Sir Richard, Evesham.
Mahrattas.

***Thayer, M. Russell**, Philadelphia, Pa.
Lieber, Francis.

Thilo, Marie von, London.
Granada.

Thomas, D. R., Montgomeryshire.
Denbigh.

Thomas, E. C., London.
Libraries.

Thomas, M. R. Oldfield, British Museum.
Marmot; Mouse; Opossum; Phalanger; Squirrel; Rat; Ratel; Vole.

Thomas, W. Cave.
Cornelius; Encaustic Painting.

Thompson, D'Arcy Wentworth, Dundee.
John Ray.

Thompson, Edward Maunde, British Museum.
Miniature; Palæography; Paper; Papyrus.

***Thompson, Robert Ellis**, Philadelphia.
Protection—Tariff.

Thomson, Allen (1809–1884).
Embryology.

Thomson, Sir Charles Wyville (1830–1882).
Dredge; Falkland Islands; Juan Fernandez.

Thomson, David, Aberdeen.
Acoustics.

Thomson, Joseph.
Sokoto.

Thomson, J. Arthur, Edinburgh.
Treviranus.

Thomson, Sir William, Glasgow.
Elasticity; Heat.

Thomson, William, Stellenbosch College, South Africa.
Mensuration.

Thorburn, Thomas Charles.
Birkenhead.

Thornton, William Thomas (1813–1880).
Agriculture, Large and Small Farming.

Tiele, C. P., Leyden.
Religions.

Tiele, P. A., Utrecht.
Plantin.

Tilley, Arthur Augustus, Cambridge.
Stephens or Éstienne.

***Todd, David Peck**, Amherst, Mass.
Telescopes, American.

Tomes, Charles Sissmore, London.
Ivory.

Tozer, Henry Fanshawe, Oxford.
Attica; Eubœa; Greece—History; Macedonia; Thera; Thessaly; Thrace; Trebizond.

Traill, J. W. H., Aberdeen.
Macgillivray.

Trimen, Henry, Ceylon.
Grasses.

Trollope, Thomas Adolphus, Florence.
Cardinal; Carnival; Carthusians; Catherine, St.; Clergy; Conclave.

Trotter, Coutts, Edinburgh.
Ferghana; Fiji Islands; Friendly Islands; Ladác and Balti; Micronesia; New Caledonia; New Guinea; New Hebrides; Siam.

Tuke, J. Batty, Edinburgh.
Aphasia; Hippocrates; Hysteria; Insanity.

Tulloch, John (1823–1886).
Arius; Athanasius; Augustine; Baur, Ferdinand Christian; Benedict, St.; Bernard, St.; Creeds; Cyprian (Thascius Cæcilius Cyprianus); Devil; Dominic, St.; Eusebius; Fénelon; Francis (Saints); Gnosticism; More, Henry; Neander.

Turnbull, J. W., Natal, South Africa.
Natal.

***Turner, F. J.**, Madison, Wis.
Wisconsin.

Turner, Sir William, Edinburgh.
Anatomy; Digestive Organs.

Turner, William (1800–1872).
Artaxerxes; Bashan; Cambyses.

Twiss, Sir Travers, London.
Archbishop; Archdeacon; Arches, Court of the; Benefice; Bishop; Blockade; Consulate of the Sea; Convocation; Sea-Laws.

Tylor, Edward Burnett, Oxford.
Anthropology; Cannibalism; Demonology; Divination; Eunuch; Giant; Magic; Mexico; Oath; Ordeal; Salutations.

Unwin, W. Cawthorne, London.
Hydromechanics—Hydraulics; Windmill.

V

Vandam, Albert D., London.
Amsterdam; Casanova.

Veitch, John, Glasgow.
Cousin.

Venables, Edmund, Lincoln.
Abbey and Abbot; Basilica; Catacombs; Cathedral; Cloister; Crypt; Easter; Ember Days and Ember Week; Epiphany; Episcopacy; Eucharist.

Vernon-Harcourt, Leveson Francis, London.
River-Engineering; Water-Supply.

Verrall, Arthur Woolgar, Cambridge.
Thebes.

Veth, P. J., Amsterdam.
Melvill.

Villari, Linda, Madame, Florence.
Savonarola.

Villari, Pasquale, Florence.
Medici; Pisa; Rimini; Rome—Recent History; Vico.

Vinckers, J. Beekering, Kampen, Holland.
Holland—Language.

Vines, Sydney Howard, Oxford.
Physiology—Vegetable; Reproduction—Vegetable; Vegetable Kingdom.

Voelcker, August (1823–1884).
Manure.

W

Wagner, Hermann, Göttingen.
Germany—Geography.

Walford, Cornelius (1827–1885).
Famines.

*Walker, Francis Amasa, Boston.
Census; United States—Statistics.

Walker, James T., Indian Army.
Oxus; Pontoon; Surveying; Tibet.

Wallace, Alfred Russel, London.
Acclimatization; Distribution.

Wallace, Edwin.
Lully.

Wallace, Robert, Edinburgh.
Church History.

Wallace, William, Oxford.
Anaxagoras; Anaximander; Anaximines; Antisthenes; A Priori and A Posteriori; Arabian Philosophy; Averroes; Avicenna; Descartes; Empedocles; Epicurus; Epictetus; Hegel; Pessimism; Schopenhauer.

Wallace, William, Glasgow.
Aurelius.

Wallis, George, South Kensington.
Jewellery.

Walters, Frederick, London.
Chili.

Ward, Adolphus William, Manchester.
Cumberland (Dramatist); Drama; Foote; Ford, John; Garrick; Greene, Robert; Hroswitha; John, Don of Austria; Johnson; Lodge, Thomas; Pantomime.

Ward, Mary Augusta (Mrs. Humphry Ward).
Lyly.

Ward, H. Marshall, Staines.
Schizomycetes.

Ward, James, Cambridge.
Herbart; Psychology.

Ward, J. Clifton, Keswick.
Cumberland.

Ward, Thomas Humphry, London.
Hollar, and many minor biographies.

Wardell, W. H., Waltham Abbey.
Explosives; Gunpowder.

Warrack, John, Leith.
Average; Bottomry; Insurance—Marine.

Warre, Edmund, Eton College.
Ship.

Warren, Frederick, E., Bristol.
Liturgy.

Watson, Henry William, Coventry.
Molecule.

Watson, John, Edinburgh.
Baikie.

*Watson, W. M., Washington, D. C.
Columbia, District of.

Watt, Francis, London.
Law, John; Haddington or East Lothian; Heidelberg; Paterson.

Watts, Henry Edward.
Cervantes; Cid.

Watts, Isaac, Manchester.
Cotton.

Watts, W. Theodore, London.
Poetry; Rosetti, D. G.; Sonnet; Vanbrugh; Wycherley.

Webster, Hugh A., Edinburgh.
Borneo; Celebes; Columbia; Corea; Danube; Druses; Ecuador; Europe; Frankfort; Geneva; Guatemala; Guiana; Hainan; Hamburg; Indian Archipelago; Italy—Statistics; Java; Lapland; Mermaids and Mermen; Montenegro; Morocco; Niger; Nile; Paraguay; Patagonia; Philippine Islands; Plate, The River; Reunion; Rhone; Rio de Janeiro; Sahara; Sierra Leone; Sumatra; Switzerland—Geography and Statistics.

Webster, James Claude, London.
Club; Inns of Court; Piracy.

*Webster, Nathan Burnham, Assistant Editor of this Reprint.
West Point; Zoology (U. S.).

Wedmore, Frederick, London.
Méryon.

Wellhausen, Julius, Marburg, Prussia.
Israel; Moab; Mohammedanism—Mohammed; Moses; Nimrod; Pentateuch; Reiske; Septuagint; Zechariah.

*Wellington, Arthur Mellen, New York.
Railway (American).

Wheatley, H. B., London.
Index; London; Middlesex.

*Wheeler, E. J., New York.
Temperance Societies.

Wheeler, R. Mortimer, Glasgow.
Prescott; Punchinello.

White, Arthur Wellesley, Woolwich.
Woolwich.

White, John F., Dundee.
Rembrandt; Velasquez.

White, T. Holt, London.
Calais.

Whitmee, S. J., Dublin.
Polynesia.

*Whitney, Josiah Dwight, New Haven, Conn.
California; United States—Geography and Statistics.

*Whitney, William Dwight, New Haven, Conn.
Philology.

Whyte, W. A., Edinburgh.
Bayard.

Whytock, Alexander, Edinburgh.
Carpet.

Wilkins, A. S., Manchester.
Greece—Language; Latin Language.

Wilkinson, H. F., London.
Athletic Sports; Baseball; Betting; Bowls; Coursing; Cricket; Football; Rackets; Swimming.

Williams, James, London.
Navigation Laws; Negligence; Partnership; Perjury; Personal Estate; Petition; Pleading; Possession; Prerogative; Prescription; Press Laws; Privy Council; Prize; Public Health; Real Estate; Registration; Remainder; Rent; Riot; Riparian Laws; Sale; Seamen, Laws Relating to; Settlements; Simony; Statute; Sunday; Test Acts; Theatre; Theft; Tithes; Torture; Trade-Marks; Treason; Trespass; Trial; Trusts; Warrant; Warranty; Will; Witness; Wreck; Witchcraft; Women, laws concerning; Writ.

Williams, Richard, Newtown, Montgomeryshire.
Eisteddfod.

Williamson, Benjamin, Dublin.
Infinitesimal Calculus; Maclaurin; Variable; Variations (Calculus of).

Williamson, William Crawford, Manchester.
Agassiz.

Wilson, Andrew, Edinburgh.
Ant; Antelope.

Wilson, C. Heath.
Fresco; Glass Painting.

*Wilson, Sir Daniel, Toronto, Ont.
Archæology (Prehistoric); Canada; Chatterton; Columbia, British; Edinburgh; Federal Government; Ferguson, Robert; Montreal; Ontario; Toronto.

Wilson, Henry Bringhurst, London.
Illumination.

Wilson, John, Berwickshire.
Agriculture.

Wilson, John, Abernyte, Scotland.
Melancthon.

Wilson, Robert, London.
Coolie.

Wilson, William, Glasgow.
Swimming.

*Winsor, Justin, Cambridge, Mass.
Massachusetts.

Wirén, A., Upsala.
Sweden—Geography and Statistics.

Wood, C. Page, Kelveden, England.
Essex.

Wood, H. Trueman, London.
Monopoly; Trade-Marks.

Wood, Thomas McKinnon, London.
Casuistry; Charles I.; Colbert, Jean Baptiste; Collins, Anthony; Condé, Prince of; Cromwell, Thomas; Dunstan; Eliot, Sir John; Farnese; Hartley, David.

Woodward, Henry, British Museum.
Crustacea.

Woolhouse, W. S. B., Canonbury.
Calendar.

Wornum, Ralph Nicholson, (1812–1887).
Arabesque.

*Wright, Arthur W., New Haven, Conn.
Silliman.

Wright, Charles R. Alder, London.
Glycerin; Iron.

Wright, Daniel, St. Andrews.
Nepâl.

*Wright, Daniel F., Clarksville, Tennessee.
Tennessee.

*Wright, William, Virginia City, Nev.
Nevada.

Wright, William (1830–1889).
Syriac Literature.

Wright, W. H. K.
Plymouth.

Wyllie, Stewart A.
Brewing.

Y

Young, Francis, London.
Ali Pasha.

Young, John, Glasgow.
Anthropoda.

Yovtcheff, E. S., Sophia, Bulgaria.
Varna; Widdin.

Yriarte, Charles.
Venice.

Yule, Henry, Colonel.
Achin; Afghânistân; Andaman Islands; Bámián; Brambánan; Cabul or Kabul; Cambaluc; Cambodia; Carpini, Joannes de Plano; Chinchew or Chinchu; Cosmas; Gaur; Ghazni; Ghúr; Gilgit; Hindú Kúsh; Hwen T'sang; Ibn Battuta; Kafiristan; Kâshkâr; Kublai Khan; Lhasa; Maldive Islands; Mandeville, Jehan de; Marignoli, Giovanni de; Odoric; Ormus; Polo, Marco; Prester John; Rubruquis; Ramusio; Rennell.

ENCYCLOPÆDIA BRITANNICA.

(AMERICAN REPRINT.)

INDEX.

NOTE.—References to articles are printed in capital letters; references to incidental topics have the title of the article in which they occur in parenthesis; names of books and works of art, not architectural, are printed in italics; Roman numerals indicate the volumes; a and b denote the left and right hand columns on the page; when they are printed in Italics the subject-matter referred to is mentioned disconnectedly two or more times in the column.

A, the letter, I, 9–10
  origin, a 9
  pronunciation, a 9
  sound, b 9
  uses, a 10

AA, European rivers, I, a 10; (France), IX, a 458; (Nord), XVII, *a* 548; (Pas de Calais), XVIII, b 344, a 345; (St. Omer), XXI, a 197; (Unterwalden), XXIII, a 915
Aach river (Danube), VI, a 721
Aachen. See AIX-LA-CHAPELLE
Aah-hotep, queen, Egypt (Jewellery), XIII, b 686
Aahmes or Amasis, of Sais, king (Egypt), VII, b 644
——, of Thebes, king (Egypt), VII, *a* b 638
Aakirkeby rune (Scandinavian Languages), XXI, a 388
Aalborg, district (Denmark), VII, a 71, *a* 73
AALBORG, city, I, a 10
AALEN, town, I, b 10
Aall, Jakob, historian (Norway), XVII, b 606
Aalst, town. See ALOST
Aalum, shah (Clive), VI, b 11, *a* 12
Aar glacier (Geology), X, b 250; (Glacier), a b 559
AAR or Aare, river, I, b 10; (Aargau), b 10, *a* 11; (Bern), III, *b* 518; (Jura), XIII, a *b* 791
——, valley (Switzerland), XXII, a b 814, *a* b 815, a 816
AARAU, town, I, b 10; (Switzerland), XXII, b 816
AARD-VARK, mammal, I, b 10; (Africa), a 232; (Distribution), VII, b 232, a 235; (Mammalia), XV, a 387, b 392
—— -Wolf (Aard-Vark), I, b 10
AARGAU, canton of Switzerland, I, b 10–11; (Switzerland), XXII, a b 816, b 817, *a* b 818, a 819, *b* 820, b 823, *a* 824, a 831, *b* 832, a *b* 833
AARHUUS, town, I, a 11; province and town (Denmark), VII, *a* b 73
Aarmühle, village (Interlaken), XIII, b 195
AARON, high priest, I, a 11; (Genealogy), X, a b 128; (Hor), XII, a 163; (Levites), XIV, a b 488; (Moses), XVI, b 888; (Pentateuch), XVIII, a 521
—— or Ahrōn, historian (Syriac Literature), XXII, a 892
—— ben Joseph, rabbi (Hermeneutics), XI, a 665
—— bar Maʻdani, bishop (Syriac Literature), XXII, b 897–8
Aaron's Ephod (Gold Lace), X, a 671
—— *Rod Blossoming* (Gillespie), X, a 535
AARSSENS, Francis van, diplomatist, I, b 11
Aasen, Ivar Andreas, philologist (Norway), XVII, b 605, b 606; (Scandinavian Languages), XXI, *b* 390
Aba, cloak (Costume), VI, a b, 407
ABABDE, tribe, I, b 11; (Africa), b 233
ABACA or Abaka, plant, I, b 11; (Manila-Hemp), XV, b 495; (Philippine Islands), XVIII, b 764–5
Abacè Liber (Pisanus), XIX, *a* *b* 134
Abaciscus. See ABACUS
Abaco, island (Bahamas), III, *b* 203–4, a b 206
ABACUS, architectural term (Ill.), I, b 11; Egyptian (Architecture), II, b 341; Greek (Architecture), a 354, a b 355, b 356, a b 357; Roman (Architecture), b 364
——, calculating device (Ill.), I, b 11; (Arithmetic), II, *a* 462; (Napier), XVII, a 186; (Numerals), a b 641, a 642; (Silvester), XXII, *a* 83
Abadavine or Aberdevine, bird (Siskin), XXII, b 106 note
ABÆ, town, I, a 12; (Phocis), XVIII, *b* 814
Abai or Blue Nile River (Abyssinia), I, a 62; (Nile), XVII, *b* 520
Abakan river (Yeniseisk), XXIV, *b* 779; steppes of, *a* 779, *b* 780; races of (Tartars), XXIII, b 76
ABAKANSK, town, I, a 12
ABANA and PHARPAR, rivers, I, a 12; (Damascus), VI, a 696; (Lebanon), XIV, b 394
ABANCAY, town, I, a 12
ABANDONMENT, of a child, I, b 12; marine insurance, a b 12; (Insurance), XIII, a 193; railway law of, XIII, a b 12
ABANO, town, I, b 12
—— or Apono, or Aponensis, Pietro d', physician, I, b 12; (Physiognomy), XIX, b 8
Abantes, tribe (Eubœa), VIII, b 569
Abarbanel, Isaac. See Abrabanel
ABARIS, philosopher, I, b 12; (Druidism), VII, a 413
Abars, tribe (India), XII, b 816.
Aba Samú, king (Hungary), XII, a b 382
Abasia, district. See ABKHASIA
ABATEMENT, law-term, I, b 12–3; writ of, or *nocumento amovendo* (Writ), XXIV, b 731
ABATI, Niccolo, painter, I, a 13
Abattis (Fortification) (Ill.), IX, *a* *b* 372, a 375
ABATTOIR (Ill.), I, a 13–14
  English, b 13
  French (Ill.), a b 13
  Roman, a 13
  Scotch (Ill.), a b 14

—— (Jersey City), XIII, b 646
ABAUZIT, Firmin, philosopher, I, b 14–15
Abayye, rabbi (Rābā), XX, *b* 197, note
ABB, town of Arabia, I, a 15
Abbacomes, title (Abbot), I, b 29
Abbad I. or Abú 'l-Kásim Mohammed, sultan (Seville), XXI, a 742
Abbadie, A. d', physicist (Seismometer), XXI, a b 661, note
ABBADIE, James, theologian, I, a 15
Abba Jared or Yaret, Mt. (Africa), I, b 224
'ABBÁS I., the Great, Persia, sháh, I, a b 15; (Armenia), II, b 480; (Ispahan), XIII, a b 404, a b 406; (Mosque), XVI, b 893; (Persia), XVIII, b 648–9, a 652; (Pottery and Porcelain), XIX, b 640
—— II., sháh (Persia), XVIII, a 650
—— III., sháh (Persia), XVIII, a 652
—— Pasha, viceroy (Egypt), VII, a 665; (Sunnites), XXII, a 695
—— of Merv, poet (Persia), XVIII, a 668
'ABBÁS MIRZA, prince, I, b 15; (Persia), XVIII, a 659, a b 660, a 661
——, Theophilus. See THEOPHILUS
'Abbása of Baghdad, princess (Mohammedanism), XVI, a 605
'Abbásí, sheiku 'l-Islám, theologian (Sunnites), XXII, b 694–5
ABBASSIDES, caliphs, I, b 15–6; (Al-Mamun), a 519; (Arabia), II, *b* 226–7; (Caliph), IV, a 626; (Divan), VII, b 253; (Egypt), a b 650; family (Mohammedanism), XVI, a b 597, b 599; genealogy (Mohammedanism), a b 611; (Mohammedanism), a 600–11; (Numismatics), XVII, *b* 678; (Seljuks), XXI, a b 666, a 667
Abbasination, punishment (Dandolo), VI, a 707
Abbato, Niccolo, dell', painter, I, a 13
ABBÉ or Abbot, I, a 16
Abbe, Cleveland, astronomer (Signal Service), XXII, *a* 904
——, Ernst, of Jéna, optician,

- (Microscope), XVI, b 275, a 277, note, a b 278, b 280–1, b 285, a 286 note; (Stereoscope), XXII, b 568
- Abbeloos, commentator (Syriac Literature), XXII, a 867 notes, a 869 notes, a 871, b 872 note, b 899 note
- ABBEOKUTA or Abeokuta, town, I, a b 16; (Ibadan), XII, a 639; (Yoruba), XXIV, *a* b 792, note
- Abberley Hills (Worcester), XXIV, *b* 700
- Abbés of St. Hope, I, a 16
- ABBESS, I, b 16; of the Frau Munster (Zurich), XXIV, a b 870; position of (Monachism), XVI, b 732, a 735
- Abbess's court (Gandersheim), X, b 61
- ABBEVILLE, France, city, I, b 16; arrondissement (Somme), XXII, *b* 274, a 275
- ——, county and town (South Carolina), XXII, *b* 301, b 302
- ABBEY (Ill.), I, 17–27
  - Athos, Mt. (Ill.), b 17–8
  - Black Austin Canons, a b 25
  - Canterbury, b 19–20
  - Carthusians, b 25–7
  - cells, a 17, b 27
  - Cistercian, b 21–a 25
  - Citeaux (Ill.), b 23–4
  - Clairvaux (Ill.), b 21–3
  - Clermont (Ill.), a b 26
  - Clugny (Ill.), b 20–1
  - cœnobia, a b 17
  - Fountains (Ill.), b 24, a 25
  - Kirkstall (Ill.), a 24–5
  - mendicant friars, a b 27
  - Premonstratensian, b 25
  - St. Gall (Ill.), a 18
  - Westminster, a 20
  - Witham, b 26–7
  - York (Ill.), a 20

- Abbey of Arbroath, II, a 284
- —— Austin Canons (Bristol), IV, a 315, a 317
- —— Bardney (Grosseteste), XI, b 187
- —— (Bath), III, a 374
- —— (Battle), III, a b 385
- —— Baudelo (Ghent), X, b 504
- —— Bolton (York), XXIV, a 787
- —— (Burton), IV, a 509
- —— Cambuskenneth (Stirling), XXII, a 583
- —— (Chertsey), V, b 509
- —— Citeaux (Cistercians), V, *a* b 693
- —— Cleves (Architecture), II, b 404
- —— (Cluny), VI, a 42
- —— Clonmacnoise (Kings Co.), XIV, b 89
- —— Crom-Hir (Radnor), XX, b 224
- —— (Crowland), VI, b 546
- —— Cymmer (Merioneth), XVI, a 44
- —— Disibodenberg (Hildegard), XI, *b* 728
- —— Dryburgh (Architecture), II, b 375
- —— (Dunfermline), VII, a *b* 468
- —— (Einsiedeln), VII, a b 685; (Schwyz), XXI, *a* 486
- —— (Gandersheim), X, b 61
- —— (Glastonbury), X, b 601–2; (Grail, Holy), b 32
- —— Glenluce (Wigtown), XXIV, a 595
- —— Fearn (Ross Co.), XX, a 878
- —— Fountains (York), XXIV, a 787
- —— Furness (Barrow in Furness), III, a 341
- —— (Gloucester), X a *b* 616, a 617
- —— (Ham), XI, a 358
- —— Hastings (Sussex), XXII, a 763
- —— (Hersfeld), XI, b 688
- —— Hexham (Architecture), II, b 375
- —— Holy Cross (Donauwerth), VII, *b* 312; (Tipperary), XXIII, a 433
- —— (Jedburg), XIII, a 624
- —— (Jumièges), XIII, a b 782
- —— (Kilwinning), XIV, a 79
- —— Knockmoy (Galway), X, a 52
- —— La Merveille (Mont St. Michel), XVI, a 823
- —— lands (Presbyterianism), XIX, a 700
- —— La Trinita della Cava, V, a 226
- —— Leicester (Rugby), XXI, a 62
- —— Limburg (Dürkheim), VII, a 487
- —— (Malmesbury), XV, b 338
- —— Melrose (Architecture), II, b 375; (Melrose), XV, a 851; (Scotland), XXI, b 500
- —— (Middelburg), XVI, a 290
- —— (Middlesborough), XVI, b 290
- —— Mölkerhof (Vienna), XXIV, b 237
- —— Monte Cassino (Italy), XIII, b 469; XVI, b 804
- —— Multifarnham (Westmeath), XXIV, b 541
- —— Murbach (Gebweiler), X, b 113
- —— (Neath), XVII, b 315
- —— Neufmoustier (Hug), XII, b 431
- —— (Newry), XVII, b 417
- —— Notre Dame (Soissons), XXII, b 260
- —— (Paisley), XVIII, a b 145
- —— Pomposa (Guido), XI, a 229
- —— (Quedlinburg), XX, *a* 176
- —— (Reading, Eng.), XX, b 316–17
- —— (Reichenau), XX, b 361–62
- —— (Romiremont), XX, *a* 391
- —— ruins (Shropshire), XXI, b 887
- —— St. Albans (Architecture), II, a 400, a b 405, b 409, b 411, b 413, a 414, b 415, a b 416, a 418; (Cathedral), V, a 198, b 199
- —— (St. Amand-Les-Eaux), XXI, a 165
- —— St. Augustine's (Canterbury), V, a 27, a 28
- —— St. Bertin's (St. Omer), XXI, *a* 197
- —— (St. Denis), XXI, b 169–70; (Sculpture), a 589, note
- —— St. Evroul (Ordericus), XVII, *b* 844, a 845
- —— (St. Gall), XXI, a 177, *a* 178
- —— St. Jean des Vignes (Soissons), XXII, a b 260
- —— St. Julien (Tours), XXIII, a 523
- —— St. Martin of Tours (Palæography), XVIII, a 164; (Tours), XXIII, b 522–3
- —— St. Mary's (York), XXIV, b 788–9
- —— St. Medard (Soissons), XXII, b 260
- —— (St. Omer), XXI, b 197
- —— St. Peter's (Peterborough), XVIII, b 713
- —— St. Saviour's (Wicklow), XXIV, a 589
- —— San Domenico (Sora), XXII, a 288
- —— San Nicolo (Catania), V, a 190
- —— Santo Spirito (Caltanisetta), IV, a 631
- —— Schottenhof (Vienna), XXIV, b 237
- —— Seckingen (Glarus), X, b 567
- —— Selby (Architecture), II, b 374; (Selby), XXI, b 661, *a* 662
- —— (Sherborne), XXI, a *b* 832
- —— (Sligo), XXII, *b* 169
- —— (Tewkesbury), XXIII, a 219
- —— Thorney (Cambridge), IV, a 644
- —— Trinity (Vendome), XXIV, b 149–50
- —— Vézelay (Architecture), II, b 376, a 399
- —— (Waltham), XXIV, b 360
- —— Westminster (Architecture), II, b 372, b 374, a 377, b 387, a 399, a b 403, a 404, *b* 405, a b 408, a 411, a 417, b 418; (London), XIV, b 847, b 853, b 855, b 856. See Westminster
- —— (Whitby), XXIV, *b* 579, *a* 580
- —— Woburn (Bedfordshire), III, a 417
- Abbeys (Clare), V, b 702
- —— (Clermont), V, b 723
- —— (Cloister), VI, b 35–6
- —— (Donegal), VII, b 314
- —— (Dorset), VII, b 322
- —— (Down), VII, a 332
- —— (Fife), IX, a 134
- —— (Fontevrault), IX, a 320
- —— (Hertford), XI, a 690
- —— (Huntingdon), XII, a 414
- —— (Italy), XIII, b 469–70
- —— (Lancashire), XIV, a 255
- —— (Lincoln), XIV, a 663
- —— (Monmouth), XVI, b 781
- —— (Surrey), XXII, a 730
- —— (Tipperary), XXIII, a b 433
- —— (Wexford), XXIV, b 550
- —— (York), XXIV, a 787
- Abbeyside, suburb (Dungarvan), VII, a 469
- ABBIATE GRASSO, town, I, b 27
- ABBON of Fleury, theologian, I, b 27
- ABBOT, an ecclesiastic, I, b 27–9
  - authority, a b 29
  - ecclesiastical standing, a 28
  - insignia, b 28
  - lay abbot, b 29
  - luxury, a 29
  - priors, b 29

- —— duties of (Monachism), XVI, a 730; (Peerage), XVIII, a 470, b 473; of unreason (Christmas), V, b 611
- *Abbot, The* (Scott), XXI, b 575
- ABBOT, Charles. See Lord COLCHESTER
- ——, Ezra, theologian, (Gospels), X, a 749
- —— Female Seminary (Andover), II, a 19
- ABBOT, George, archbishop, I, b 29; (Abbot, Robt.), b 30; (England, Church of), VIII, a 338; (Surrey), XXII, a 730
- ABBOT, George, the Puritan, I, a 30
- ——, Henry L., engineer (Geology), X, a 242, b 244, a 247; (Hydromechanics), XII, a b 519, b 523, a b 524
- ABBOT, Robert, theologian, I, b 30; (Columba, St.), VI, a 150
- Abbots of Burton (Brewing), IV, a 237; lay (Culdees), VI, b 613; (Peerage), XVIII, a 470, b 473
- ABBOTSFORD, I, b 30–1; (Scott), XXI, a b 574
- "ABBOTSFORD CLUB," I, a 31
- Abbott, Edwin, educator (English Language), VIII, b 356 note, *a* 360; (Gospels), X, b 705 note
- Abbottábád, station (Hazára), XI, a 488
- ABBREVIATION, I, a 31–4
  - classical, a 31–3
  - mediæval, a 33
  - miscellaneous, b 33–4
  - titles and designations, a b 33
  - weights, measures and moneys, b 33

- —— (Hieroglyphics), XI, b 720; Latin (Inscriptions), XIII, a b 132; manuscript (Palæography), XVIII, b 168–169
- ABBREVIATORS, I, b 34
- Abbt, Thomas, philosopher (Germany), X, b 478
- A b c process (Sewerage), XXI, b 747
- 'Abd al-'Aziz, sultan. See 'Abd-ul-'Aziz
- ——, Egypt, governor in 7th century (Mohammedanism), XVI, a 592, b 595
- Abdalis, tribe (Afghanistan), I, b 210, a 212, *a* 215
- 'Abdallāh I., caliph in Spain, XXII, b 327
- —— al-Mamún, caliph of Baghdad (Mohammedanism), XVI, b 604, b 605–7
- —— al Saffāh, caliph. See Abú 'l-'Abbas al Saffah
- —— ben 'Ali, governor of Syria (Mohammedanism), XVI, a *b* 600, *a* 601
- —— ben Hanzala of Medina, rebel (Mohammedanism), XVI, b 591
- —— ben Majmún al-Kaddah, Ismailian prophet (Assassin), II, b 631; (Mohammedanism), XVI, b 615, a 616
- —— ben Sáood, Wahhabee chief (Arabia), II, *b* 228
- ——-ben-Yazím, African conqueror (Almoravides), I, a 524
- —— ben Zobair or Zobeyr, caliph of Mecca (Mohammedanism), XVI, a *b* 590, *a* *b* 591, *a* *b* 592, *a* b 593, a 594

‘Abdallāh Ibn Balkeen or Balkin of Granada, king (Cid), V, a 676
—— -ibn-Mokaffah, fabulist (Bidpai), III, a 576
ABDALLATIF or Abd-ul-Latif, physician, I, b 34; (Anatomy), a 706
‘Abd al-Melik or Malik, caliph of Damascus (Mohammedanism), XVI, *b* 592, b 593, *a* b 594, a b 595, b 612; (Temple), XXIII, b 185
‘Abd al Mozaffar, vizier of Almansur (Spain), XXII, a 329
Abdalmottalib, grandfather of The Prophet (Mohammedanism), XVI, b 569
‘Abd al-Mu ’min, or Mumen or Mowmen, Almohad, caliph (Almohades), I, b 522; (Spain), XXII, b 331
‘Abd al Rahmán or er Rahman I, ben Mo ‘áwiya, emir in Spain (Arabia), II, b 226; (Cordova), VI, a b 346; (Mohammedanism), XVI, b 600, b 601, a 602; (Mosque), b 891; (Spain), XXII, a b 325, a 326
‘—— II., emir (Spain), XXII, a 327
‘—— III., caliph (Spain), XXII, b 327–8
‘—— IV., caliph (Spain), XXII, a 330
‘——, governor of Africa, 8th century (Mohammedanism), XVI, a b 598, b 601
‘——, son of Almansur, vizier (Spain), XXII, b 329
‘Abd al-Wād, Algerine dynasty (Tlemcen), XXIII, a 450
Abdalwáhid, historian (Tabarí), XXIII, b 8
‘Abd-el ‘Azíz, mountains (Mesopotamia), XVI, b 52, a 55
‘——, sultan of Tlemcen (Ibn Khaldoun), XII, a 644
——, Wahhabee chief (Arabia), II, *a* 228
Abd-el-Kaaba. See Abu-Bekr
Abd-el-Jelîl, chief (Fezzan), IX, a 114
ABD-EL KADER, defender of Algeria, I, b 34–5; (Algeria), a 500–1; (Pau), XVIII, b 425; (Tlemcen), XXIII, a 450
—— Mūnshi of Singapore, traveller (Malays), XV, a 329
ABDERA, Hispania, town, I, a 35; (Adra), a 150
ABDERA, Thrace, town, I, a 35; (Adra), a 150; (Numismatics), XVII, a 656; (Thrace), XXIII, a 339
Abderame or ‘Abd-er-Rahmán, caliph. See ‘Abd al-Rahmán
Abd-er-Rahman el Raschid, Soudanese king (Darfur), VI, b 725
ABDICATION, sovereign act, I, a b 35; (Charles V.), V, b 361
ABDOMEN, part of the body, I, b, 35; (Anatomy), b 718; arteries of (Anatomy), a b 793, b 795, a 796; (Arachnida), II, a 238, b 240, b 243, b 244, a b 247, b 248, b 249, b 251, b 252, *a* 253, b 254, *b* 256, *a* 257; (Coleoptera), VI, b 115–6; (Crustacea), b 559, *a* 560, b 564; (Digestive Organs), VII, b 194; (Dragon Fly), a 334, a 336; (Hymenoptera), XII, a b 607; (Insects), XIII, b 149–50, a 151; muscles of (Anatomy), I, a 733
Abdominal operations (Surgery), XXII, a 723, a 725–7; wounds (Medical Jurisprudence), XV, a 792
—— Typhus, XXIII, b 720
ABDOMINALES, fish, I, b 35
Abdominalia, Cirripeds (Crustacea), VI, b 588, a b 589
Abducent cranial nerve (Anatomy), I, b 773
ABDUCTION, crime, I, b 35; (Kidnapping), XIV, b 70–1; (Women), XXIV, b 675, b 676
‘Abd-ul-‘Aziz, sultan of Turkey (Sunnites), XXII, b 696; (Turkey), XXIII, a 693
—— Hamid II., sultan (Hungary), XII, a 389; (Turkey), XXIII, a 693
Abdulla Khan (Baluchistan), III, *b* 259
Abdullah Kutab Shah, sultan (Hyderabad), XII, a 445
‘—— ibn ‘Abdelkādir Mūnshi, traveller (Malays), XV, a 329
‘Abdu ’l-Latif, shah of Persia, XVIII, b 643
ABDUL MEDJID, sultan, I, b 35–6; (Turkey), XXIII, a 692–3
Abdurrahman Khán, amír of Cabul (India), XII, a 851
À BECKET, Thomas, archbishop, I, a 36–7; (Canterbury), V, *b* 27, a 28; (Coronation), VI, b 380; (Cromwell, Thos.), b 535; (England), VIII, b 274–5, a b 276; (Henry II.), XI, *b* 586; (John of Salisbury), XIII, a b 729; (Soissons), XXII, a 260, note
A’BECKETT, Gilbert Abbott, humorist, I, a 37
Abeigh, town (Druses), VII, b 419
Abeilles, Nouvelles Observations sur les (Huber, F.), XII, b 341
ABEL, son of Adam, I, b 37; (Abila), b 50
——, Sir Frederick Augustus, chemist (Blasting), III, a 702, *b* 703, a 704; (Explosives), VIII, a *b* 708, *a* 709, a b 710, a 711; (Gunpowder), XI, a b 288, a 295; (Mining), XVI, a 465, a 481
ABEL, Karl Friedrich, musician, I, b 37
ABEL, Niels Henrik, mathematician, b 37; (Algebra), I, b 455; (Equation), VIII, b 448, a b 450; (Infinitesimal Calculus), XIII, b 43, a 44, b 72–3, a b 75, b 78
ABEL, Thomas, theologian, I, b 37–8
ABELARD, Peter or Pierre, philosopher, I, a 38–9; (Bernard), III, b 520; (Champeaux), V, *b* 335; (Ethics), VIII, a–b 522, note; (Scholasticism), XXI, b 435, b 439, *b* 440, note, a 441, a b 442, *a* b 443, a 444; (Theology), XXIII, b 280; (Universities), *a* 890
Abele, tree (Poplar), XIX, b 525
Abelian functions (Abel), I, b 37; (Curve), VI, a b 640, b 641; (Function), IX, a b 721
Abella or Avella nuts (Hazel), XI, a 490
——, town (Italy), XIII, a 455
Abel’s fire-test (Paraffin), XVIII, b 243; mechanical exploder (Torpedo), XXIII, b 478, a 479; process (Gun-cotton), XI, b 245, a 246
ABENCERRAGES, family, I, b 39; hall of (Alhambra), b 503
Abendana, R. Ya’akob and R. Yitshak (Mishnah), XVI, a 529
ABENEZRA, rabbi, I, b 39
ABENSBERG, town, I, b 39
Abeokuta, town. See ABBEOKUTA
Aberaeron, town (Cardigan), V, *a* 84
ABERAVON, borough, I, b 39–40; (Glamorgan), X, a b 565
Aberbrothock, town (Arbroath), II, a 284
Abercius, Saint (Phrygia), XVIII, b 867
Aberconway, town (Conway), VI, a b 293
Abercorn blackband (Iron), XIII, a 294
ABERCROMBIE, John, physician, I, a 40
ABERCROMBY, David, physician, I, a b 40
ABERCROMBY, James, Lord Dunfermline, I, b 40–1
ABERCROMBY, Patrick, physician, I, a 41
ABERCROMBY, Sir Ralph, general, I, b, 41–2; (Egypt), VII, *b* 659; (Moore, Sir J.), XVI, b 830, b 831
ABERDARE, town, I, a 42
ABERDEEN, city (Ill.), I, a 42–6
    history, a b 42
    industries, a 45
    old, a 46
    public buildings, a 43
—— (Aberdeenshire), I, a *b* 47, *a* 48
—— breakwater, IV, b 217; (Harbors and Docks) (Plate IX), XI, a b 411; (River-Engineering) (Ill.), XX, b 592
—— (Campbell, George), IV, b 666; cattle (Agriculture), I, b 344; (Comb), VI, a b 159; (Libraries), XIV, a 522, b 542; (Quakers), XX, b 157, a 158; (Scotland), XXI, a 502, a 503, a 505, a 550, *a* 551, *b* 557, *a* 559; University (Boece), III, a 738; (Universities), XXIII, a 899, b 910
Aberdeen engine (Steam-Engine), XXII, b 545
—— island (Hong Kong), XII, b 144
Aberdeen Journal (Aberdeen), I, b 45
ABERDEEN, George Hamilton Gordon, earl of, I, a 48–9; (Clarendon), V, b 706; (England), VIII, a 328; (Guizot), XI, b 239–40; (Junius), XIII, a 786; (Palmerston), XVIII, b 199, *b* 200
ABERDEENSHIRE, I, a 46–8; (Scotland), XXI, b 549, *a* 551, b 556, b 557, *a* 558
Aberdevine, bird. See Abadavine
ABERDOUR, village, I, a 49
ABERFELDY, village, I, a 49
ABERGAVENNY, town, I, a 49; (Monmouth), XVI, *a* 781; (Wood-carving), XXIV, *b* 680
Aberglaube, superstition (Mythology), XVII, a 146
Aberlemno, town (Forfar), IX, *b* 362, a 363.
ABERNETHY, town, I, a 49; (Perth), XVIII, b 679, a 680; (Scotland), XXI, b 498, *a* 499
ABERNETHY, John, physician, I, b 49–50
ABERNETHY, John, theologian, I, a 49
ABERRATION of light (Ill.), I, a b 50; (Astronomy), II, b 661; (Campani-Alimenis), IV, b 665; concave gratings (Wave Theory), XXIV, b 463; (Comet), VI, b 169; constant of (Parallax), XVIII, b 250; correction for (Telescope), XXIII, b 152–5, a 157; (Eye) (Ill.), VIII, a–b 716; influence of (Wave Theory), XXIV, b 458–60; (Light), XIV, b 588–9; (Microscope), XVI, a 270 seq.; (Optics), XVII, b 822, b 825, b 826, a b 827, a 828, a b 831; (Parallax), XVIII, b 256, a 257; spherical (Light), XIV, a 593; (Wave Theory), XXIV, b 446–7
Aberteifi, town (Cardigan), V, a 85
ABERYSTWITH, borough and town, I, b 50; (Cardigan), V, a b 84, a 85
Abeshr, city (Soudan), XXII, a 293
ABETTOR, law-term, I, b 50
ABEYANCE, law-term, I, b 50; (Peerage), XVIII, a 478
ABGAR, Kings, I, b 50; (Edessa), VII, b 566; (Mesopotamia), XVI, b 52
Abgeordnetenhaus (Prussia), XX, b 22
Abhā of Nisibis, commentator (Syriac Literature), XXII, a 868
—— of Kashgar or Mār-Abhā, patriarch (Syriac Literature), XXII, b 887
‘Abhd īshō‘ bar Bahrīz, bishop (Syriac Literature), XXII, b 893–4
—— bar Bĕrīkhā, bishop (Syriac Literature), XXII, b 900-1
—— of Nisibis, bishop (Syriac Literature), XXII, b 865, b 867, *b* 870, a 875, *a* 876, a 878, a 894, a 897
—— bar Shahhārē, poet (Syriac Literature), XXII, b 893
Abhidhánappadípiká, vocabulary (Pali), XVIII, a 190
Abhidharma or philosophy (Buddhism), IV, b 387
Abhijit, superfluous asterism (Zodiac), XXIV, a 832
‘Abhsamya of Edessa, poet (Syriac Literature), XXII, b 868

Abhzūdh, author (Syriac Literature), XXII, a 893
ABIAD, BAHR-EL-, or White Nile river, I, b 50. See Bahr-el-Abiad, and White Nile
Abiathar, priest (Israel), XIII, b 414
Abich, Wilhelm Hermann, geologist (Caucasus), V, a *b* 223
Abies, trees (Fir), IX, a 193; cedrus (Cedar), V, b 247–8; excelsa (Arboriculture), II, a 277; pectinata (Arboriculture), II, a 277
Abietic acid (Rosin), XX, b 875
Abietineæ, meristem zones of (Histology), XII, *b* 17
Ab-i-Istada, lake (Afghânistân), I, b 206
Abijah's speech (Chronicles), V, b 615
ABILA, city, I, b 50
ABILDGAARD, Nikolaj, painter, I, b 50–1; (Denmark), VII, a 82
ABIMELECH, king, I, a 51; (Israel), XIII, a 411, a 412; (Shechem,, XXI, *a* 820
ABINGDON, town, I, a 51; (Jute), XIII, b 811
ABIOGENESIS, I, a 51–2; (Biology), III, b 595–6
Abiom, João de, poet (Portugal), XIX, b 570
ABIPONES, tribe, I, a 52; *history of* (Dobrizhoffer), VII, a 268
Abir, powder (Incense), XII, b 758
Abjuration, oath, I, b 511–2; (Oath), XVII, b 720; and sanctuary, XXI, a 268
Abkari opium, XVII, a 813
ABKHASIA, country, I, a 52; (Georgia), X, b 387, a b 388, b 389
Abkhasians, tribes (Caucasus), V, a 224, a 225
Ablation of surface (Glacier), X, b 559
Ablative case (Grammar), XI, *b* 36, a 39
ABLUTION, I, a 52; (Mosque), XVI, b 890, note. See Bath
Abnaki Dictionary, VII, b 167
ABNER, Hebrew general, I, b 52; (David), VI, b 737, b 738; (Israel),. XIII, *b* 414, b 415
Abney, William de Wiveslesie, physicist (Photography), XVIII, a b 839, a 840, a 841, a 842, b 843, a 844, a 847, a b 848, note, a b 851, a 853; (Spectroscopy), XXII, a 390, *a* 395; (Telescope), XXIII, a 154
—— Park (London), XIV, a 836
Abney's level (Surveying), XXII, a 758
Abnicum, town. See ANNI
ABO, city, I, b 52–a 53; (Ibo), XII, a 645; province and town (Finland), IX, *a* b 189, a *b* 190; university (Observatory), XVII, b 734
Abo-Björneborg, provincial statistics (Russia), XXI, a 76
Abolished Weights and Measures, XXIV, a 517
Abolition of slavery (Clarkson), V, b 710–1; (Garrison), X, a 77–9; (Greeley), XI, a b 144; (Wilberforce), XXIV, b 596–7
Abolitionists, political party (Essenes), VIII, b 486, a 487; (Slavery), XXII, b 150, b 908, a b 909; (United States), XXIII, b 811, b 815, a 816, b 817, a 819
ABOMASUM, town, I, a 53
ABOMEY, town, I, a 53; (Dahomey), VI, b 674, a *b* 675
Abong Abong mt. (Sumatra), XXII, b 671
Aboo or Abou. See Abu
Aboo-Areesh, district (Arabia), II, a 217, a 221, a 228
Aboo-'Alee Ahmad, vizier (Egypt), VII, b 652
Aboo-bekr Mohammed el-Ikhsheed Ibn-Taghag, ruler (Egypt), VII, b 650
Aboo-Keer, lake (Egypt), VII, b 614
Abooseer or Abusir, city (Busiris), IV, a 514; (Egypt), VII, a 667, a 670; (Pyramids), XX, b 129, a 130
Aboosimbel. See Abu-Simbel and Ipsambul
ABORIGINES, I, a 53; (America), b 602–8; Hindu (India), XII, b 815–8, a 821, b 829–31
ABORTION, I, a 53; (Infanticide), XIII, a 6; (Medical Jurisprudence), XV, b 790; (Persia), XVIII, b 611 note; (Veterinary Science), XXIV, a 221
Aboth, book (Midrash), XVI, a 298, note
Abotrites, tribes (Germany), X, b 431, a 434; kingdom (Lothair, Saxon), XV, b 11
Aboughir, Gulf of (Caspian Sea), V, a 155
ABOUKIR, town, I, b 53
—— Bay (Napoleon I.), XVII, a 208; (Nelson), a b 331
Abou-mengel, bird (Ibis), XII, b 641
About, Edmond, novelist (France), IX, a 597
ABRABANEL, Abarbanel, or Abravenel, Isaac, philosopher, I, b 53
ABRACADABRA, I, a 54
Abraha, king, Yemen (Sanaa), XXI, b 266
ABRAHAM or ABRAM, patriarch, I, a 54–6; (Circumcision), V, a 690; (Hebrew Language and Literature), XI, b 531; (Limbus), XIV, a b 653; (Mecca), XV, a b 679, *a b* 680; (Melchizedek), a 848; (Nimrod), XVII, b 524–5; (Philo), XVIII, b 776; (Psalms), XX, *a* 34; religion of (Galatians), X, b 19; standing stone of (Mecca), XV, b 679, *a b* 680; wife of (Ethnography), VIII, b 544
ABRAHAM-A-SANCTA-CLARA, monk, I, b 56; (Germany), X, b 475
—— bar Dāshadādh, the lame (Syriac Literature), XXII, a b 887
—— bar Kīlī of Amid, bishop (Syriac Literature), XXII, b 876
—— ben David of Posquières (Rabad), XX, a 198
—— of Kartamīn, anti-patriarch (Syriac Literature), XXII, *a* 889, note
—— of Kashkar, hermit of Hazzah (Syriac Literature), XXII, b 878; hermit of Izlā (Syriac Literature), XXII, b 878
—— of Nephtar, author (Syriac Literature), XXII, b 877
—— of Nisibis, commentator (Syriac Literature), XXII, a 878
Abrahamson, Werner, critic (Denmark), VII, a 80
Abramidina, fishes (Ichthyology), XII, a b 714, b 731
ABRANTES, town, I, b 56; (Tagus), XXIII, b 26
——, Duc d'. See Andoche JUNOT
—— duchesse d'. See Laure Permon JUNOT
Abrányi, Emil, poet (Hungary), XII, b 393
Abrasion, water. See Erosion
Abraumsalze, mineral (Potassium), XIX, a 608
ABRAXAS or Abrasax, stones, I, b 56; (Basilides), III, *b* 363; (Gems), X, a 126; (Magic), XV, a 204
Abrégé Chronologique (Hénault), XI, b 580
Abriachanite (Mineralogy), XVI, a 436
Abridgments of books (Copyright), VI, a 320
Abrincatæ, town. See Avranches
Abrolhos islets (Brazil), IV, *a* 201; (Caravellas), V, a 76
Abruzzan dialect (Italy), XIII, a b 506
ABRUZZO, province, I, b 56–7
ABSALOM, Jewish prince, I, b 57; (David), VI, b 739–40; (Israel), XIII, a b 415; tomb of (Architecture), II, a 345
Absalom and Achitophel (Dryden), VII, b 424–5; (Halifax), XI, a 346; (Settle), XXI, a 726; (Shadwell), *b* 763
ABSALON or Axle of Lund, archbishop, I, b 57; (Copenhagen), VI, *a* 307; (Saxo Grammaticus), XXI, *a* 366
Absaroka range (Wyoming), XXIV, *b* 748; (Yellowstone Park), a b 773
ABSCESS, disease, I, b 57; (Ivory), XIII, a 531; liver, tropical (Pathology), XVIII, b 405, b 406, a 407; (Ophthalmology), XVII, a b 803, a b 808; (Surgery), XXII, b 717
Abscissa (Conic Sections), VI, b 242, b 244, a 248; axis of abscissæ (Variable), XXIV, b 76
Absentee, The, novel (Edgeworth, Maria), VII, b 567
Absenteeism (Ireland), XIII, b 234–5, b 274, b 275
Abside de Notre Dame, etching (Méryon), XVI, a 50
ABSINTHE, beverage, I, b 57–8; (Elecampane), VIII, a 4; (Jura), XIII, a 792; (Neuchatel), XVII, a b 370
ABSOLUTE being, I, a b 58; (Æsthetics), a 192, b 193, a 194, *a* b 196; (Al-Farabi), *a* 443; (Descartes), VII, b, 106; (Eckhart), a 557; (Hamilton, Sir W.), XI, a 374; (Hegel), b 552; (Schleiermacher), XXI, a 431; (Vedanta), XXIV, *a b* 128, b 129–30; knowledge or truth (Anselm), I, b 82; (Hegel), XI, b 551; philosophy of the (Theism), XXIII, a b 266; (Schelling), XXI, b 409–10; spirit (Metaphysics), XVI, a 93, a 107; unity, Spinoza on (Cartesianism), V, b 134–8
—— measurements (Electricity), VIII, b 38, b 97–8; (Galvanometer), X, b 48
—— pitch (Music), XVII, b 109
—— poetry, XIX, b 269–70
—— sensitiveness (Touch), XXIII, a b 511
—— temperature (Heat), XI, b 512–4; (Thermodynamics), XXIII, b 303, a 305
—— unit force (Mechanics), XV, *b* 706
ABSOLUTION, I, b 58; (Confession), VI, a 229; (Liguori), XIV, b 643; (Penance), XVIII, b 497, a b 498
Absolutism, political (Filmer), IX, b 145; (Germany), X, b 456–7; (Miguel), XVI, a b 302; (Prussia), XX, b 11, b 12, a 15; (St. Petersburg), XXI, a 205
Absolving power, papal (Nicholas IV.), XVII, b 497
Absorbent system (Mammalia), XV, a 367–8
Absorbents (Hunter, J.), XII, a 403
Absorption, gaseous (Charcoal), V, b 345, a b 346; (Diffusion), VII, a 189, a 191; (Sea Water), XXI, b 643–4
——, light (Light), XIV, a 605–7; (Photometry), XVIII, a 856; selective (Radiation), XX, b 220; spectrum (Geology), X, *a* 192; (Wave Theory), XXIV, b 475
ABSORPTION, physiological, I, b 58; (Botany), IV, b 106–7; (Insectivorous Plants), XIII, a b 142, a b 143, a b 144; (Irrigation), a 372; (Nutrition), XVII, a b 697; (Physiology), XIX, a 51–2
ABSTEMII, sect, I, b 58–9
Abstinence. See ASCETICISM and TEMPERANCE
—— and interest (Political Economy), XIX, b 390
ABSTRACTION, psychological, I, a b 59; (Attention), III, a 47; (Psychology), XX, a *b* 81–2; Spinoza on errors of (Cartesianism), V, a b 134
ABSURDUM, REDUCTIO AD, I, b 59
Absyrtus, legend of (Argonauts), II, *b* 437
Abu. See Aboo

ABU, mountain, I, b 59-60; (Architecture), II, b 346; (India), XII, b 771, *b* 776; (Jains), XIII, a 553; (Sirohi), XXII, *a* 106
Abu-Abdullah Mahommed, traveller. See Ibn Batuta
Abu-Ali al-Hasen. See ALHAZEN
Abu-Ali al-Hosein. See AVICENNA
Abubacer or Ibn Tofail, *q.v.* scholar (Arabian Philosophy), II, *a* 236
Abubaker, rajah (Johore), XIII, *a* 741
Abubakr ben Sa'd of Shíráz, sháh (Sa'dí, XXI, *b* 151
Abú Basír, robber (Mohammedanism), XVI, a 582 note
ABÚ-BEKR, first caliph of Mecca, I, a 60; (Arabia), II, b 224; (Mohammedanism), XVI, a 572, a b 575, b 581, b 584, a 585, a 586; (Sunnites), XXII, a 697
——, Mohammed ibn Jahya. See AVENAPACE.
Abu-Bishīr, fish. See Bishīr
Abú Dabus Edris, caliph (Almohades), I, b 522
Abu-Dani. See ELDAD BEN MALCHI
Abu Einán, sultan of Fez (Ibn Khaldoun), XII, a 644
Abu-Faraj, historian. See Abu 'l-Faraj al-Ispaháni
Abū Ghālib bar Sābūnī, bishop Syriac Literature), XXII, a 895
Abū-Hamed Muhammod. See AL GAZALI
Abú Hashim súfí (Sunnites), XXII, a 697
Abu Hassan, opera (Weber), XXIV, *a* 495
Abu Husain, Kutab Shah (Hyderabad), XII, *a* 445
Abu 'Isa, prophet (Messiah), XVI, a 61 note
Abū Ishāk Ibrahim, Aristotelian (Syriac Literature), XXII, b 871 note
Abú Ismá'íl al-Baçrí, historian (Tabarí), XXIII, b 9
Abú Já 'far or Jaafar, caliph. See Mansur
Abu Jaafar Ala Addaula, emir of Ispahan (Avicenna), III, *b* 133
—— Mohammed ben Jarir. See TABARÍ
Abú 'Kobeys, mountains (Mecca), XV, *b* 677
Abula. See AVILA
Abú'l-'Abbas Al-Saffah, caliph (Abbasides), I, b 15; (Arabia), II, *b* 226; (Mohammedanism), XVI, b 599, a 600, a 601; (Syriac Literature), XXII, b 887, note
—— Ahmed. See IBN KHALLIKAN
—— Ahmed ibn Mohammed. See MAKKARÍ
Abulafia, Abraham, false Messiah, XVI, a 61 note
Abú Lahab, Prophet's uncle (Mohammedanism), XVI, a 574, a 625
Abu'l Casim Mansúr. See FIRDOUSI
Abulcasis, or Abu 'l-Kásim, physician (Distillation), VII, b 229; (Medicine), XV, b 814, a 815; (Surgery), XXII, *b* 709
ABULFARAGIUS, or Abu 'l-Faraj. See Barhebræus, physician, I, a b 60; (Alexandria), b 436; (Tabarí,) XXIII, a 9
Abu'l-Faraj 'Abdallah ibn at-Taiyib, lawyer (Syriac Literature), XXII, b 875, b 894
—— al-Ispaháni, editor (Arabia), II, a 231; (Tabarí), XXIII, b 8
ABULFAZL, historian, I, b 60; (Akbar), b 385
ABULFEDA, Ismael ben-Ali Emad Eddin, historian, I, b 60; (Arabia), II, a b 231; (Chess), V, a 521; (Tabarí), XXIII, a 9
ABULGHAZL - BAHADUR, Khan of Khiva, and historian, I, a 61
Abu'l Hakam of Fez, emir (Spain), XXII, a 334
Abul l-Hassan, astronomer (Dialling), VII, b 132
Abu 'l-Hín, mountain (Lebanon), XIV, a 394
Abu-l-Hoseyn Góhar el-Káïd, general (Egypt), VII, a b 651
Abu 'l-Kasim, physician. See ABULCASIS
—— Mohammed, Sultan. See Abbad I.
Abulkhair, Khan (Mongols), XVI, b 775
Abu 'l-Mahásin, historian (Tabarí), XXIII, a 9; (Thousand and One Nights), b 337, a 338
Abulmajd Majdúd b. Adam, poet. See SANÁ'I
Abu-l-Munegga canal (Egypt), VII, b 615
Abú'l-Tayyib Ahmed ibn al Hossain, poet. See MOTANABBI
Abu 'l-Wafâ, prince (Hamasah), XI, a 360
—— of Baghdad, mathematician (Algebra), I, a 452; (Trigonometry), XXIII, a 597
Abú 'l-Walíd. See JONAH of Cordova
—— Mohammed ibn Roshd. See AVERROES
Abul-Werdis, tribe (Turks), XXIII, b 703
Abu-Maaschar, astronomer. See ALBUMAZAR
Abu Merwan Abdalmalec ibn Zohr. See AVENZOAR
Abú Mikhnaf, historian (Tabarí), XXIII, b 6, a 7; Pseudo romancist (Tabarí), b 9
Abú Moslim, general (Arabia), II, *b* 226; (Mohammedanism), XVI, b 599, a b 600, a 601
Abú Músá, negotiator (Mohammedanism), XVI, b 588
Abú No'aim al-Ispahání, historian (Tabarí), XXIII, b 8
ABUNA, title, I, a 61; (Abyssinia), a 63, b 64, b 65; (Egypt), VII, a 638
Abu Nasr Isma 'íl ibn Hammád. See JAUHARY
—— Muhammad. See AL-FARABI
Abú 'Obaida, author (Mo'allakát), XVI, a b 560; (Tabarí), XXIII, a 7
Abus, mt. (Euphrates), VIII, a 587
Abú Sa'íd. See Abú Zaíd
——, king (Persia), XVIII, a 644
——, sufi (Sunnites), XXII, a 697
—— bin Abulkhair, poet (Omar Khayyám), XVII, b 793, note; (Persia), XVIII, a 671, a 673
Abuschehr, town. See BUSHIRE
Abuse of Satire, On the (D'Israeli), VII, a 226
Abú Sháma, historian (Tabarí), XXIII, b 8
ABU-SIMBEL or Ipsambul, Nubian town, I, a 61; (Architecture), II, a b 340; (Hittites), XII, a 29; inscription at (Egypt), VII, a 644
Abusir, town (Busiris), IV, a 514; (Egypt), VII, a 667, a 670; (Pyramids), XX, b 129, a 130
Abú Sofyán, chief (Mohammedanism), XVI, b 569, b 578, a b 579, a 582, a 583, b 586, a 588
Abú Táhir Isma'íl ibn Al-Káim, caliph (Mansur), XV, b 507
Abú Tálib ben Abdalmottalib, uncle of the Prophet (Mohammedanism), XVI, b 569, a b 572, a 574
ABU-TEMAN, or Temmám or Tammám, poet, I, a 61; (Arabia), II, a 231; (Hamasah), XI, *b* 359, a 360; (Mo'allakát), XVI, b 562, a 563
Abutment in Arches, II, a 289; in Bridges, IV, b 253, b 291-2
Abū Yahyā al Marwazí, physician (Syriac Literature), XXII, a 891
Abú Yezíd, African caliph, 10th century (Mansur), XV, b 507
Abú Yúsuf, philosopher. See AL KINDI
—— Ya'kúb, Almohad caliph, 12th century (Mansur), XV, a 508
Abú Zaid. See Abú Sa'id
——, traveller (Geography), X, a 159
Abú Zakaríyá, prince (Tunis), XXIII, a b 661
Abu Zeid, pseudonym (Harírí), XI, a *b* 429
—— Abdarrahmán, historian. See IBN KHALDOUN
ABYDOS, town of Egypt, I, a b 61; bronze lion-weights (Weights and Measures), XXIV, *b* 515, b 516; (Egypt), VII, *a* 620, note, a 634. b 672-3; (Pyramid), XX, b 130; ruins at (Weights and Measures), XXIV, a 511; tablet at (Egypt), VII, b 636
——, Mysia, city, I, a 61; (Scythia), XXI, *b* 604
Abyla or Alybe, cape (Gibraltar), X, a 523; (Ceuta), V, a 311
Abyssal fishes (Ichthyology), XII, b 707-8, b 715-6, a 721-3; marine detritis (Geology), X. b 255-6; marine fossils (Geology), X, *a* b 284
—— theory of light (Phosphorescence), XVIII, b 827
Abyssascidia, genus of Tunicata, XXIII, b 656
ABYSSINIA (Map), I, b 61-6
  history, a 64
  inhabitants and manners, a 63, b 64
  language, a 64
  natural history, b 62
  physical features, b 61
  political features, b 63
  Theodore's reign, a 65-6
—— (Africa), I, a 226; avifauna of (Birds), III, a 658; (Coffee), VI, a *b* 100; explorations in (Africa), I, a 222; (Geography), X, b 161, b 163, a 166, b 173; (Munziger), XVII, a 39; fauna (Africa), I, a 231; (Birds), III, a 658; (Filigree), IX, a 144; flora (Distribution), VII, a 252; (Forests), IX, a 359; invasion (Arabia), II, 224; (Magdala), XV, b 197; missions in (Paez, Pedro), XVIII, b 138; plateau of (Africa), I, b 224, b 228, b 230, b 239; (Prester John), XIX, b 736-7; (Yemen), XXIV, *b* 776
Abyssinian Canon, V, a b 13; chronicles (Semitic Languages), XXI, b 688; language in *Koran* (Mohammedanism), XVI, b 623, a 624; reckoning (Chronology), V, b 621, a 622
Abyssinians, race (Africa), I, a b 235; (Dance), VI, a 703; (Galabat), X, b 16; (Mohammedanism), XVI, a 569, b 572
ACACIA, plant, I, b 66-7; (Ant), II, b 87; (Botany) (Ill.), IV, a 81, b 97, b 101, *a* 102, b 103, b 125, b 136, b 137; (Catechu), V, *a* 192; (Gum), XI, b 243; false (Arboriculture), II, b 278; (Forests), IX, a 356, a b 358; forests (United States), XXIII, a b 860; (Leather), XIV, a 382; (New South Wales), XVII, b 420
Acacians, sect (Macedonius), XV, a 146
Acacius of Aleppo, bishop (Syriac Literature), XXII, a 868
—— of Constantinople, patriarch (Felix III.), IX, b 58
—— of Emid, bishop (Syriac Literature), XXII, b 869-70
—— of Seleucia, commentator (Syriac Literature), XXII, a b 871
Academia. See Accademia
—— della Crusca, I, b 71; (Boccaccio), III, b 734; (Grazzini), XI, b 71
—— Española, La Real (Spain), XXII, b 374
—— Naturæ Curiosum (Zoology), XXIV, b 839, note
Academic Costume, VI, b 410-11
Academical degrees. See Degrees, academical, collegiate, etc. (Music), XVII, b 90
—— Precedence, XIX, b 687
Academicians, persecution of (Rome), XX, b 823

Academicism, Greek (Speusippus), XXII, a 412
Academics, Plato's school (Academy), I, a 67; (Augustus), III, b 71
Académie Royale des Beaux Arts, France, I, a b 75
—— des Sciences (Marat), XV, a 534
—— des Sciences, Morales et Politiques (Guizot), XI, a 239
Academies, art, I, a 75–6; (Germany), X, b 425; (Berlin), III, b 515; French (Colbert), VI, b 111; (Italy), XIII, b 517; (Portugal), XIX, b 572–3; (Stockholm), XXII, a b 588
——, educational (France), IX, b 452–3; medical, I, b 74–5; Brussels (Belgium), III, a 450; musical, I, b 75, a 76; Natural Sciences (Zoology), XXIV, b 838–9; New England (Schools), XXI, a 910; Scientific, I, b 68–71
ACADEMY, I, a 67–76
  academies of Belles Lettres, b 71–3
  archæology and history, b 73–4
  classical, a 67–8
  fine arts, a 75–6
  medicine and surgery, b 74–5
  modern, a 68
  music, a 76
  scientific, b 68–71
  Seminary, royal collegiate, a 76
 See under the names of various nations

—— Alexandrian, I, a 68
——, Arcadian (Drama), VII, a 361; (Metastasio), XVI, b 108; Art (Copenhagen), VI, a 306; France, I, a b 75; London, I, b 75–6; Russia, I, a 75; Sweden, I, b 75
—— of architecture (France), IX, a 507
—— (Bucharest), IV, b 371–2
—— Fine Arts, Autwerp (Belgium), III, b 449–50; (Teniers), XXIII, b 190; Florence (Michel Angelo), XVI, b 238, b 239; (Leonardo), XIV, b 456; (Lippi), a 691; Milan (Bossi, G.), IV, b 61; St. Petersburg, I, a 75; (Elizabeth Petrovna), VIII, b 135; Seville (Murillo), XVII, a b 62; Philadelphia, XVIII, a 754; Venice (Bellini), III, b 472; (Venice), XXIV, b 168–9
——, French, I, a 72–3; (Corneille), VI, a b 370; (D'Alembert), a *b* 683; (France), IX, a 503, a 579; (Gay-Lussac), X, a 110; (Gelatin), b 118; (Ménagé), XVI, b 5; (Montaigne), a 796; (Montesquieu), a b 809; (Paris), XVIII, a 286; (Sainte-Beuve), XXI, b 173; (Saint-Pierre), a 205
——, Greek (Academy), I, a 67–8; (Arcesilaus), II, a 236; (Athens), III, a 4; (Carneades), V, *b* 106; (Clitomachus), VI, a 9; (Scepticism), XXI, b 396–7
——, Herculaneum, I, b 73
——, Inscriptions and Belles Lettres, France, I, b 72, b 73–4; (France), IX, a 507; (Gibbon), X, a 515
——, Leopoldine, I, b 74
——, Ligurian (Genoa), X, b 140
——, Lincean (Galileo), X, b 30, a 31
—— of Natural Sciences, Philadelphia (Libraries), XIV, a 535, b 553; (Philadelphia), XVIII, a 754; (Say), XXI, b 906; (Societies), XXII, a 235; (Troost), XXIII, a 944
—— of painting (Bruges), IV, a 356; (Düsseldorf), VII, b 488
—— of Painting and Sculpture, Italy, I, b 75; Madrid, I, b 75; Paris, I, a b 75; (Coypel), VI, b 476; (Coustou), a 469
—— of Quirina (Gravina), XI, a 59
——, Royal Irish (Celtic Literature), V, a b 265, b 271, *b* 283; (Filigree), IX, a b 144
——, Royal Military (Artillery), II, a 575
—— of Science, Literature and Art at Brussels (Belgium), III, a 450
—— of Sciences, Berlin, I, b 69–70; (Berlin), III, a 515; (Euler), VIII, a 584
—— of Sciences, French, I, a b 69; (Arago), II, b 264–5; (Earth), VII, b 516; (Euler), VIII, a 584: (France), IX, a 507; (Marat), XV, a 534; (Zoology), XXIV, b 839
—— of Sciences, Hungarian (Erdélyi), VIII, a 460; XII, b 380, a 386, a 393, notes, b 395; (Pesth), XVIII, b 705, a 706
—— of Sciences, St. Petersburg, I, a 70–1; (Euler), VIII, b 583; (Globe), X, a b 609; (St. Petersburg), XXI, a *b* 203
—— of Surgery, Paris (Surgery), XXII, a 711; Vienna, I, b 74–5
—— War, Berlin, (Army), II, a 524; West Point, U.S. (Army), II, a 541; XXIV, b 891–2
ACADIA or Acadie, settlement, I, a 76; (Canada), IV, b 676, a 678, a 685; (Maine), XV, b 303, a 304; (Nova Scotia), XVII, a 616, a 618; (United States), XXIII, a 782
Acadian series, rocks (Geology), X, *a* 293
Acadians, French settlers (New Brunswick), XVII, a b 384; (New Orleans), a 414
Acæna, plants (Horticulture), XII, a 257
——, measure (Weights and Measures), XXIV, a b 510, a 512
ACALEPHÆ, animal, I, a 76; (Zoology), XXIV, b 849
Acamarchis avicularia, species (Polyzoa) (Ill.), XIX, a b 452
Acanthaceæ, order of plants (Botany), IV, a 119, a 131
Acanthias, fish (Shark) (Ill.), XXI, a b 812; vulgaris (Dogfish), VII, b 288
Acanthisitta, birds (Nuthatch), XVII, a 685
Acanthite, mineral (Mineralogy), XVI, a 395, a 408
Acanthobdella (Leech), XIV, b 405
ACANTHOCEPHALA, worms, I, a 76; (Animal Kingdom), II, b 49; (Parasitism), XVIII, b 263, b 264; (Zoology), XXIV, a 852
Acanthocystis, genus (Protozoa) (Ill.), XIX, a 866, *b* 867
Acanthodes, fishes (Ichthyology), XII, b 705, a 725
Acanthodini, fishes (Ichthyology), XII, a 725
Acanthodrilus, genus (Worm) (Ill.), XXIV, a b 712, note, b 714, a b 715, a 716, a *b* 717
Acanthoglossus, genus (Mammalia) (Ill.), XV, b 380
Acantholimon, plants (Horticulture), XII, a 257
Acanthometra, genus (Protozoa), XIX, a 860
Acanthometridea, group (Protozoa) (Ill.), XIX, a b 874–6
Acanthomys, genus (Mouse), XVII, a 12
ACANTHOPTERYGII, fish, I, a 76; (Asia), II, a 608; (Himalaya), XI, a 745; (Ichthyology) (Ill)., XII, a 674–5, b 695, b 706, a b 716, a b 717, b 718, a b 720, b 722–3, a 726–9; Pharyngognathi (Ichthyology), XII, b 695, b 706, a 716, a b 718–19, a 730
ACANTHUS, plant, I, a 76; (Horticulture), XII, a 257; (Illumination), *b* 746; leaves in Architecture (Plate XXIV), II, b 365
——, town of Macedonia (Numismatics), XVII, a 657
Acanthyllis, bird (Swift), XXII, a 799
ACAPULCO, town of Mexico, I, a b 76
Acaridea, insects (Arachnida) (Ill.), II, *a* b 239, a 240–2, b 247, b 258; (Galls), X, a 40, a 42
Acarides (Arachnida), II, *a* b 240
Acardiac Monster, XVI, a 791, b 792
ACARNANIA, province of Greece, I, b 76; (Numismatics), XVII, a 658
ACARUS, mite, I, b 76; (Harvest Bug), XI, *b* 447; (Mite), XVI, a 552
Acastus, myth (Pelias), XVIII, b 485
Accad, province. See Akkad
Accadai or Akkadai, highlanders (Babylonia), III, a 160; (Elam), VII, b 689; (Mesopotamia), XVI, a 56
Accademia degli Umidi (Grazzini), XI, b 71
—— del Cimento, I, b 68; della Crusca, I, b 71; (Boccaccio), III, b 734; (Grazzini), XI, b 71; delle Belle Arte (Bologna), IV, b 18; di San Luca, Rome (Libraries), XIV, a 529; Ercolanese (Herculaneum), XI, b 647
Accadian art (Babylonia), III, *a* 164; Deluge, VII, a 49; *Dictionary*, b 164; Inscriptions, XIII, a b 120, a b 121; law (Babylonia), III, b 166; literature (Babylonia), III, b 165–6; religion (Babylonia), III, a b 167; (Religions), XX, b 374; writing (Alphabet), I, b 531, *a* 532
Accadians, people (Babylonia), III, a *b* 160; (Cuneiform Writing), VI, *b* 624
Acca Larentia or Laurentia, heroine (Arval Brothers), II, a 587
Accaron, town. See Ekron
ACCELERATION, velocity, I, b 76–7; (Diagram), VII, b 129–30; (Dynamics), a 503; (Hodograph), XII, *b* 44, *a* 45; (Mechanics), XV, a 689–90; central (Mechanics), XV, b 690, a b 691–7
—— of moon (Astronomy), II, b 699; (Moon), XVI, b 828; of (Tides), XXIII, a b 402, b 403–4, a 405
Accelerations, component (Hydromechanics), XII, a 463, b 464
ACCENT, I, a 77–9
  classical, b 77–8
  derivation, a 77
  English, a 78–9
  position, a 79
  varieties, a 77

—— Latin, barbarous (Romance), XX, b 684–5; Latin, old (Romance), XX, b 681; marks of (Speech Sounds), XXII, b 404; quantity and, Church Latin (Romance Languages), XX, b 683–4; (Speech Sounds), XXII, b 398–9
Accentor, bird (Sparrow), XXII, a 383
Accents, breathings and, Greek (Palæography), XVIII, b 169; (Greece), XI, b 117, a 119, b 120; Sanskrit, XXI, a b 285; Scandinavian Languages, XXI, a 389
Accentuation (Latin Language), XIV, a 330–1; (Music), XVII, a b 89
ACCEPTANCE, commercial term, I, a b 79
Acceptations, the (Consulate of the Sea), VI, b 282
ACCESSION, political, I, b 79; industrial, b 79
Accessit, electoral privilege (Conclave), VI, a 214
ACCESSORY, I, b 79; (Agent), b 250; (Criminal Law), VI, a 521
Accho, town. See Acre
ACCIAJUOLI, Donato, writer, I, b 79
——, Nicolo, seneschal (Boccaccio), III, a 735
Accidence (Grammar), XI, b 34, b 38
Accident (Insurance), XIII, a 168; (Insanity), a 107; mining (Coal), VI, a b 74; (Mining), XVI, a 484, b 488, a 489; railway (Labor), XIV, b 171; (Railway), XX, b 260–61, b 266; (Seamanship), XXI, b 630–31; reaction after (Pathology), XVIII, b 408
ACCIDENT, logical, I, a 79–80; hypostatization of (Scholasticism), XXI, b 439, b 442, a 446, a 448

Accipiter, bird (Hawk), XI, a *b* 477; (Ornithology), XVIII, a 42, b 45, b 50; (Owl), a 92; pileatus (Mimicry), XVI, a 354
ACCIUS, poet of 16th century, I, a 80
ACCIUS or Attius, Lucius, poet, I, a 80; (Drama), VII, a 355; (Latin Language), XIV, b 332; (Pacuvius), XVIII, a b 134; (Pesaro), a 697
ACCLAMATION, noise, I, a b 80
ACCLIMATIZATION, I, 80–5
  adaptation to climate, b 80–2
  definition, b 80
  heredity, b 82
  man, a 84–b 85
  method of, b 83–a 84
  modification by, b 82
—— (Ichthyology), XII, a 703; fish (New Zealand), XVII, a 483; (Pisciculture), XIX, a 138; insects (Insects), XIII, a 148; society (Geoffroy Saint-Hilaire), X, a 157
ACCOLADE, an honor, I, b 85; (Knighthood), XIV, b 119, note, a 120, b 122
ACCOLTI, Benedict, jurist, I, b 85
ACCOLTI, Bernard, poet, I, b 85; (Drama), VII, a 362
ACCOLTI, Pietro, Cardinal, I, a 86
ACCOMMODATION, commercial, I, a 86; bills (Banking), III, *b* 284; (Bill), b 582
ACCOMMODATION, exegetical, I, a 86
—— to presentations (Psychology), XX, a 54, *b* 73
——, visual (Ophthalmology), XVII, a b 807, a 808
Accomptant. See ACCOUNTANT
ACCORAMBONI, Vittoria, beauty, I, a 86
Accord of Seyssel, 1124 (Geneva), X, b 133
ACCORDION, musical device, I, a 86
ACCORSO, Francis, lawyer, I, a 86; (Gloss), X, b 612
ACCORSO, Mariangelo, critic, I, b 86
ACCOUNT, I, b 86–7; books of (Roman Law), XX, a 716, a b 718; regulation of in Bank of England, III, b 286
ACCOUNTANT or accomptant, I, a 87
ACCOUNTANT-GENERAL, official, I, a 87
ACCRA or Acra, African town, I, a 87; (Gold Coast), X, b 672, *a* 673, note
ACCRINGTON, Lancashire, town, I, a b 87
ACCUM, Frederick, chemist, I, b 87
ACCUMULATOR, electrical, I, b 87; (Electricity) (Ill.), VIII, a 32–4; hydraulic (Hydromechanics) (Ill.), XII, b 552–3
Accursius, lawyer. See ACCORSO
Accused persons (Police), XIX, a 347; (Witness), XXIV, *b* 658
ACE, unit, I, b 87; origin of term (As), II, a 590
Acelum, town. See ASOLO
ACEPHALA, shell fish, I, b 87; (Mollusca), XVI, b 655, 710 *sq*
ACEPHALI, sects, I, b 87
Acequias, ditches (Valencia), XXIV, a 39
Acer, group of trees (Arboriculture), II, b 278; (Maple), XV, a 531–2
Acera, genus (Mollusca) (Ill.), XVI, a b 680
Aceratherium, fossil (Rhinoceros), XX, a 538
Acerba, encyclopædia (Cecco d' Ascoli), V, b 245
ACERBI, Giuseppe, traveller, I, a 88
Acerbus of Lodi, chronicler (Frederick I., emp.), IX, a 643
Acerina cernua, fish. See POPE, a fish
ACERNUS or Sebastian Fabian Klonowicz, poet, I, a 88; (Poland), XIX, b 312
Aceros, bird (Hornbill), XII, *a* 173
ACERRA, Italian town, I, a 88; (Punchinello), XX, *a* 111
ACERRA incense box, I, a 88
Acervetis, town. See MANGALIA
Acetabularia, plant (Reproduction), XX, a 442, *b* 443; (Vegetable Kingdom), XXIV, a 137
Acetals, compounds (Chemistry), V, b 492
Acetate of Copper, VI, a 312; of Lead, XIV, b 378
ACETIC ACID, I, a b 88; (Alcohol), a 416; (Chemistry), V, b 406–7, b 493, *a b* 494; (Fermentation), IX, b 81; (Molecule), XVI, a b 643, b 645
—— anhydride (Chemistry), V, a 496
Acetone, compound (Chemistry), V, a 479, a 493; (Methyl), XVI, a b 203, a 206
Acetonitrile, compound (Methyl), XVI, a 205
Acetophenone, compound (Chemistry), V, a 493
Acetyl arabin, powder (Gum), XI, b 243
Acetylene, a compound (Chemistry), V, b 451, b 485; gas (Paraffin), XVIII, a b 241, b 242; (Tar), XXIII, *b* 63; series (Coal Tar Colors), XVIII, b 899
Achæan league (Achaia), I, b 88; (Aratus), II, b 271; (Cleomenes), V, *a* 721; (Federal Government), IX, a 55; (Greece), XI, b 96–7; (Philopœmen), XVIII, a b 804; (Polybius), XIX, *a* b 425; (Rome), XX, *b* 772
Achæans, people (Achaia), I, b 88; (Crotona), VI, a 544; (Greece), XI, a *b* 83, a b 84, a 85, a 86
Achæmenes, eponym (Persia), XVIII, b 576, a 577
Achæmenes, brother of Xerxes, satrap (Egypt, VII, b 644–5
Achæmenian dynasty (Artaxerxes), II, a b 560; (Persia), XVIII, b 576–92, a b 627, a b 667
Achænium, fruit (Botany) (Ill.), IV, a b 137
ACHAIA, province I, b 88; (Ætolia), *b* 202; (Greece), XI, b 96, a 97, a 107; (Numismatics), XVII, a 659; Roman province (Polybius), XIX, a b 425
ACHAN, of Scripture, I, b 88
Achane, volume (Weights and Measures), XXIV, *b* 512, a 513
ACHARD, Franz Carl, chemist, I, a 89; (Platinum), XIX, a b 201; (Sugar), XXII, a 658
ACHARIUS, Erik, physician, I, 89; (Lichens), XIV, b 563
Acharnians, play (Aristophanes), II, a 447; (Megara), XV, b 837
ACHATES, hero, I, a 89
——, gem (Jasper), XIII, a 607
Ache river (Gastein), X, a 97
Acheen, town. See ACHIN
Achelnotus of Canterbury, archbishop. See AGELNOTH
ACHELOUS, river, I, a 89
ACHENWALL, Gottfried, statistician, I, a 89; (Statistics), XXII, *a* 479
ACHERON, legendary hero, I, b 89
——, river (Albania), I, a 396; (Cave), V, b 231
Acherontia, moth (Butterflies), IV, b 530
Achetidæ, insects (Cricket), VI, a 511
ACHILL, island, I, b 89; (Ireland), XIII, a 222; (Mayo), XV, a 657
Achille in Sciro, opera (Metastasio), XVI, b 109
Achillea, plants (Horticulture), XII, a 257
ACHILLES, hero, I, b 89; (Agamemnon), *a* 245; (Ajax), b 383; (Greece), XI, b 82, a 83; (Hector), a 544; (Helena), a 562; (Homer), XII, *b* 120; *a b* 121, *a* 122; (Neoptolemus), XVII, b 348; (Scyros), XXI, b 601; burial of (Barrows), III, b 343; in Round Table Stories (Romance), XX, *a* b 659; shield of (Metal Work), XVI, b 79; tortoise and (Eleatic School), VIII, b 3
Achilles with Penthesilea (Schadow), XXI, b 402
—— *and Polyxena* (Holland), XII, a 97
—— Pontarches, deity, (Olbia), XVII, b 774
ACHILLES TATIUS or Statius, romancer, I, a 90; (Romance), XX, *b* 651
ACHILLINI, Alessandro, philosopher, I, a 90; (Anatomy), a 707, a 708; (Averroes), III, b 131
Achimenes, plants (Horticulture), XII, a 274
ÁCHÍN, state and town, I, a 90–1
——, islands (India), XII, a 836, b 837; (Indian Archipelago), a 858; residency (Sumatra), XXII, a 672, a 673, *a* 674
Achinese, race (Áchín), I, b 90; (Sumatra), XXII, a *b* 674
Achish, king of Gath (Israel), XIII, b 414
Achlamydeous flower (Botany), IV, a 114, b 116
Achmet. See AHMED
ACHMET I., II., and III., sultans of Turkey, I, b 91
——, pasha of Baghdad, III, a 202
—— Pasha, adventurer. See Claude Alexandre, Comte de BONNEVAL
Achorion, fungus (Parasitism), XVIII, a 274
Achradina, town (Syracuse), XXII, a *b* 853, b 854, a 855, *a* b 856
ACHRAY, lake, I, b 91
Achrida, city (Greece), XI, b 103
ACHROMATIC GLASSES, I, b 91; (Dolland), VII, b 299; (Light), XIV, b 599; (Micrometer), XVI, a 260; (Microscope), a 271; (Optics), XVII, b 827–9; (Telescope), XXIII, b 151–5, a 156, a 157; (Wave Theory), XXIV, b 459–60; invention of (Telescope), XXIII, a 149–50
—— spectrum bands (Wave Theory), XXIV, b 447–8, b 449–50
Achromatin plasma (Protozoa) (Ill.), XIX, b 854–5
Achromatism (Light), XIV, b 596–7, a b 606; (Microscope), XVI, b 272, a 277
Achtheres, genus (Crustacea), VI, b 575–6
Aciculidæ, family (Snail), XXII, a 197, a 198
ACID, I, b 91–2; Acetic, I, a b 88; -amides (Nitrogen), XVII, b 532, b 533; carbolic (Poisons), XIX, a 289; carbonic (Poisons), XIX, a b 291; halides (Chemistry), V, b 479, a b 496; Lactic, XIV, a b 197; oxalic (Physiology), XIX, *a* 59; (Poisons), XIX, a 289; Phthalic, XVIII, a 869; rocks (Geology), X, b 198–9, b 207–9; (Granite), XI, b 43; salts (Chemistry), V, b 421; Tartaric, XXIII, a 75–6; Uric, XXIV, a b 16
ACIDALIUS, Valens, critic, I, a 92
Acids (Chemistry), V, b 413–4, b 420–3; discovery of (Scheele), XXI, *a* b 405; fatty (Glycerin), X, *a* 622, *a* 623; (Insectivorous Plants), XIII, a 142; isolation of (Glauber), X, b 602; mineral (Poisons), XIX, b 288–9; odor of (Smell), XXII, b 177; organic (Chemistry), V, b 479, a 493–5; (Sulphur), XXII, b 669–70; theory of (Gay Lussac), X, b 110, a 111; (Tobacco), XXIII, *a* 453; vegetable (Liebig), XIV, b 569; (Physiology), XIX, a 59
Acidulated springs (Mineral Waters), XVI, a 455
"Acidum phosphoricum glaciale" (Phosphorus), XVIII, b 831
ACINACES, ancient sword, I, a 92
Acineta, genus (Protozoa) (Ill.), XIX, b 860, a b 890
Acinetaria, group (Protozoa) (Ill.), XIX, *a* 859, *b* 860, b 889–91; (Zoology), XXIV, a 851

Acinetidæ, group (Animal Kingdom), II, *a* 46
Acingani, people (Gipsies), X, a b 546
Acini canal (Trematoda), XXIII, a 571
Acinipo or Arunda, town (Ronda), XX, b 862
Acinous glands (Nutrition), XVII, a 688
Acipenser, fish (Ichthyology) (Ill.), XII, a 674, a 685, b 689, a 690, b 694, b 695, b 696, b 706, b 713, b 725; (Sturgeon) (Ill.), XXII, b 643–45
Acipenseridæ, fishes (Ichthyology), XII, a 708, a 709, b 725
ACI REALE, town, I, b 91
Aciris or Agri river (Lucania), XV, *b* 39
ACIS, myth, I, a 92
Acken, town. See AKEN
ACKERMANN, John Christian Gottlieb, physician, I, a b 92
Acknowledgment of deeds (Women), XXIV, b 675, note
Acmite, mineral (Mineralogy) (Ill.), XVI, a 380, b 434
Acne, eruption (Skin Diseases), XXII, a 129
Acnodal cubic Curves, VI, a b 639
Acnode defined (Surface), XXII, a 703
Acnodes (Curve), VI, a 638; (Infinitesimal Calculus), XIII, a 28
Acœla, worms (Planarians) (Ill.), XIX, *b* 182, a b 183, *b* 184
ACŒMETÆ, monks, I, b 92; (Monachism), XVI, b 726
Acolhuas, tribe (Mexico), XVI, a b 217
ACOLYTE, I, b 92
Acoma, town (Pueblo Indians), XX, a 887, a 889
Acomys, classification of (Mammalia), XV, a 422, a 424
ACONCAGUA, province, I, b 92; (Chili), V, a *b* 535, *b* 536, a b 540
—— mountain, I, b 92; (Andes), II, a *b* 16, a 17; (Argentine Rep.), II, a 430; (Chili), V, b 535
Aconcio. See ACONTIUS
ACONITE or Aconitum, plant, I, b 92–3; (Botany) (Ill.), IV, b 99, b 118, b 119, a 120, b 121, b 131, b 137; (Horticulture), XII, a 257; (Poisons), XIX, a 291; signification of (Pharmacopœia), XVIII, b 745
Aconitic acid (Chemistry), V, b 495; (Citric Acid), V, a 694
Acontia, anemone (Corals), VI, b 328
Acontiidæ, family (Lizard), XIV, b 739-40
ACONTIUS or Aconcio, Giacomo, philosopher, I, a 93
Acorn (Oak), XVII, b 708, b 710, *a* b 711, *a b* 712, b 713; bird use of (Woodpecker), XXIV, b 686; cup and (Botany) (Ill.), IV, a 108
ACORUS, plant, I, a 93
ACOSTA, Christoval d', physician, I, a 93
ACOSTA, Joseph or José d', historian, I, a b 93; (Mexico), XVI, b 214; (Peru), XVIII, a 693
ACOSTA, Uriel d', polemic, I, b 93
ACOTYLEDONES, I, b 93; (Botany) (Ill.), IV, a 82, a b 88, a 107; ferns (Botany), IV, b 145; flowers in (Botany), IV, a 116; leaves in (Botany), IV, b 98, b 103, a 106; stem in (Botany) (Ill.), IV, b 88, a 94-6
Acoucryphone, musical instrument (Wheatstone), XXIV, a 568
ACOUSTICS, I, 93–111
- apparatus for measuring sound, b 101–3
- beats, b 109
- index, 111
- interference, b 108
- musical harmony, b 100–3; pipes, b 106–7; strings, a 104–5
- reflection of sound, b 99
- refraction of sound, a 99
- singing flames, b 107
- vibrations, communication of, a 108
  - defined, b 93
  - laws of, a 94
  - in rods and plates, a 105
  - transmission of, a 95
  - velocity in fluids, b 96; in liquids and solids, b 97; transversal, b 98
- voice, b 110
- waves, stationary, a 103

—— (Aëronautics), I, b 175, a 180; (Henry, J.), XI, *a* 602; (Magic), XV, b 208–209; (Telemeter), XXIII, a 136; (Theatre), a 241, note; (Wheatstone), XXIV, b 568; musical (Thompson), XXIII, b 331
Acqua nanfa, perfume (Italy), XIII, b 460
—— vitæ, spirits (Whiskey), XXIV, *b* 572
Acquapendente, surgeon. See FABRICIUS
Acquasparta, Matteo d', cardinal (Dante), VI, b 714
Acquaviva, Claudio, cardinal (Cervantes), V, b 302; (Jesuits), XIII, *b* 664
ACQUI, town, I, a 111; (Mineral Springs), XVI, a 553
Acquisition of territory (International Law), XIII, a 199
Acquisitiveness, organ of (Phrenology), XVIII, b 859
Acra, African town. See ACCRA
—— Syrian fortress. See ACRE
Acræ, city (Palazzolo), XVIII, b 171; (Syracuse), XXII, a 853
Acragas, river (Numismatics), XVII, a 655
Acrania, fish (Ichthyology), XII, b 733
Acranial Monsters, XVI, a 791
ACRE, measure, I, b 111
——, trees per, table (Arboriculture), II, a 284
ACRE or St. Jean d'Acre, town, I, a 112; (Ibrahim Pasha), XII, *a* 645; (Israel), XIII, b 431, *a* b 432, *a* 433; (Napoleon I.), XVII, a 208; (Saint John of Jerusalem), XXI, *a* 183; (Templars), XXIII, b 177; siege of, in 1189-91 (Templars), XXIII, b 177; in 1799 (Smith), XXII, b 189; sieges of (Egypt), VII, a 654, *a* 656, a 664
Acredula, genus (Birds), III, a 657; (Titmouse), XXIII, a 447
Acrimiz, A. T., astronomer (Zodiacal Light), XXIV, b 836
Acrinyl, sulpho-cyanate of (Mustard), XVII, b 119
Acrisius, king of Argos (Danae), VI, a 702
ACROBAT, I, a 112
Acrobata, mammal (Phalanger), XVIII, a b 743
Acrobrya, stem (Botany), IV, a 94
Acrocarpous mosses (Musciineæ), XVII, a 78
Acrocephalinæ, birds (Warbler), XXIV, b 387
ACROCERAUNIA, promontory, I, b 112
Acroceraunian Mountains (Albania), I, a 396
Acrochordidæ, family (Snakes), XXII, a 204
Acrocinus longimanus, species (Coleoptera) (Ill.), VI, a 115, a 121
Acrocorinthus, citadel (Corinth), VI, b 352; hill (Greece), XI, a 74
Acrodontes, family (Lizard), XIV, a 739
Acrodynia, disease (Pathology), XVIII, a 417
ACROGENÆ or Acrogens, plants, I, b 112; (Botany), IV, b 88, a 94, b 95–6
Acrolein, vapor (Chemistry), V, b 492; (Oils), XVII, a 761
ACROLITH, I, b 112
Acromyodi, division of Passeres (Ornithology), XVIII, a b 44, a 45, a 51
ACRON, physician, I, b 112
Acronuridæ, fishes (Ichthyology), XII, a 716, a 728
ACROPOLIS at Athens (Ill.), I, b 112; (Archæology), II, *a* b 302, a 307, a 308, a *b* 310, b 313, a *b* 314; (Architecture), II, b 355, a 356, b 357, b 358, b 360; (Athens), III, a *b* 3, a 6–8; (Greece), XI, a 74, *b* 86, a b 91; (Hecate), b 543; (Inscriptions), XIII, b 127; (Numismatics), XVII, a 659; (Pausanias), XVIII, a 448; Propylæum, II, b 414; recent sieges of (Athens), III, *a* b 11; (Wood-Carving), XXIV, a 680
—— of Sardes (Lydia), XV, b 101
Acropolita, Georgius, diplomatist (Byzantine Historians), IV, a 545
Acrorea, region (Elis), VIII, b 130, a 131
Acrospire (Brewing), IV, b 238, b 239, a 240, b 241, a 242
ACROSTIC, I, a 113; ichthus (Apocalyptic Literature), II, a 157; (Lamentations), XIV, a b 241
Acrostichum, genus (Ferns), IX, *a b* 91
Acroteleutia, refrain (Hymns), XII, a 613, b 614
Acroterium, ornament (Architecture), II, a 402
Acrydiidæ, family (Grasshopper), XI, b 53, *a* 54; (Insects), XIII, b 159; (Locust) (Ill.), XIV, a b 772, a 773
Acrylic acids (Chemistry), V, b 494
Acryllium, bird (Guinea-Fowl), XI, b 234
ACT, dramatic, I, a 113
—— in law, I, b 113
—— OF PARLIAMENT, I, b 113–4; (Parliament), XVIII, b 318, b 319; (Statute), XXII, b 485–6; Irish, b 114; modern, a 114; Scotch, a 114
—— OF SEDERUNT, Scotch law, I, b 114
—— *of settlement* (England), VIII, a 315, a 316
—— *of Submission*, 1534 (England), VIII, a b 300
—— *of Supremacy* (More, Sir T.), XVI, b 844
"Act and Testimony" (Presbyterianism), XIX, a 720
Act of Uniformity (England), VIII, b 312, a 337, a 341; (Sunday), XXII, b 689
Acta Archelai (Manichæism), XV, b 489, *a* b 490, note, a 493, *b* 494
ACTA CONSISTORII, I, a 119
—— DIURNA, I, b 119
—— *Eruditorum Lipsiensium* (Periodicals), XVIII, b 551
—— *Sanctorum* (Bollandist Fathers), IV, a 18
—— *Sanctorum* (James), XIII, a 562
ACTA SENATUS, I, b 119
—— *Thomæ* (Persia), XVIII, b 613; (Thomas), XXIII, *b* 328, *a* 329
—— *Timothei* (Timothy), XXIII, b 425
ACTÆON, myth, I, b 119
—— islands (Tuamotu), XXIII, b 639 note
Acte, mistress (Nero), XVII, a 358, b 360
——, peninsula of (Athos), III, a 14; (Macedonia), XV, *a* 139
Actiaca Æra (Actium), I, a 123
ACTIAN GAMES, I, b 119; (Nicopolis). XVII, a 504
Actia Nicopolis, city (Nicomedia), XVII, a 504
Acting, art of (Drama), VII, b 338, b 342–3, b 369; (Fine Arts), IX, a b 170, b 176, a b 182
ACTINIA, genus, I, b 119; (Actinozoa), I, a b 120; (Crustacea), VI, a b 581; (Longevity), XIV, b 868; fibres of (Histology) (Ill.), XII, a 9
Actinidæ, family (Actinozoa), I, b 120; (Corals) (Ill.), VI, *a* 327-9
ACTINISM of sunlight, I, b 119
Actinolite (Mineralogy), XVI, b 435
ACTINOMETER, I, b 119
Actinomma, genus (Protozoa) (Ill.), XIX, a *b* 873
Actinomycosis, cattle-disease (Parasitism), XVIII, b 274-5; (Veterinary Science), XXIV, a b 221

- Actinophrys, genus (Protozoa) (Ill.), XIX, a 860, a 866, *b* 867
- Actinosoma, genus (Corals), VI, b 341
- Actinosphærium, genus (Protozoa) (Ill.), XIX, a *b* 867
- Actinotrocha, genus (Polyzoa) (Ill.), XIX, b 448, b 454
- ACTINOZOA, I, b 119–22
  - Coralligena, a 120–1
  - Ctenophora, b 121–2
    - classification, a 122
  - structure, general, a 120
- —— (Corals), VI, b 326–44; (Distribution), VII, a b 241; (Hydrozoa), XII, b 581; (Skeleton), XXII, a 114
- Actio empti, process (Roman Law), XX, b 719–20
- Action, Dramatic, VII, a 338–41; tragic (Sophocles), XXII, b 286, a 287
- —— (Pianoforte)(Ill.), XIX, a b 80, *a* 81, *a* 82, *a* 83, a 84
- ——, causation and (Psychology), XX, a 87
- ACTION at law, I, b 122–3; right of (Limitation), XIV, b 656–7; (Partnership), XVIII, a 336; (Pleading), XIX, a b 229, a b 230, a b 231; (Roman Law), XX, b 698–704; (Summons), XXII, b 676
- —— mechanical change of (Mechanics), XV, b 731; characteristic function (Mechanics), a 732; least (Mechanics), a b 731; Light, XIV, a 602–3; of particles (Mechanics), XV, a 731–6; stationary (Mechanics), b 731; varying (Mechanics), XV, a b 731, b 735–6
- Actiones in factum, prætorian (Roman Law), XX, b 727, a 730
- —— ficticiæ in jus naturale (Roman Law), a b 727
- —— juris honorarii (Roman Law), a 727–8
- —— utiles in jus naturale (Roman Law), a b 727, a 730
- "Actions by contact," chemical (Sainte-Claire Deville), XXI, b 174
- ACTIUM, promontory, I, a 123
- —— Era of (Actium), I, a 123; (Chronology), V, b 621
- Activity (Mechanics), XV, a 683
- ACTON, village, I, a 123
- ——, Charles Januarius Edward, Cardinal, I, a 123
- ACTON, Sir John Francis Edward, admiral, I, a 123; (Ferdinand IV., Naples), IX, b 69
- ——, Joseph Edward, general, I, a 123
- Actors (Drama), VII, *a* b 357; Chinese (Drama), VII, a 347, a 348; English (Drama), VII, b 370, a 371, b 374, b 375, b 377, b 378, b 379, b 380; German (Drama), VII, b 380, *a b* 381, a 383; Greek (Drama), VII, b 349, a 350, a b 353; (Sophocles), XXII, b 284–5; Hindu (Drama), VII, b 345; Japanese (Drama), VII, b 348; laws concerning (Theatre), XXIII, a b 245; Roman (Drama), VII, a b 354, a b 356
- Actresses (Drama), VII, a 347, a 348, a 350, a 371; Byzantine (Theodora), XXIII, b 272, b 273, a 274; introduction of (London), XIV, b 845; Roman (Drama), VII, b 356; (Women), XXIV, a b 672, note
- ACTS OF THE APOSTLES, I, b 114–9
  - authorship, b 114–8
  - contents, b 115–8
  - corroborative history, b 116
  - date, a 119
  - place, a 119
  - purpose, a 118
  - speeches in, b 117
  - text, b 114
- —— (Baur), III, a 388; (Mark), XV, b 558; (Peter), XVIII, b 708
- —— of Bankruptcy, III, a 296; United States, b 297
- —— of Congress (Statute), XXII, a b 488
- —— *of Peter and Paul* (Peter), XVIII, a 710; *of St. Demetrius* (Vlachs); XXIV, a b 289; *of Solomon* (Kings), XIV, a 87
- Actuality of things (Psychology), XX, b 60
- Actuaries, frauds of (Savings Banks), XXI, a 345; Institute of (Annuities), II, b 75; (Insurance), XIII, b 176; *Journal of* (Insurance), XIII, a 181, note; tables of (Annuities), II, a b 73, a 76, 78–80; (Insurance), XIII, b 176, b 177, a 178, note, a 180, a 184
- ACTUARY, I, a b 123
- Aculeata, insects (Hymenoptera), XII, *b* 606, a *b* 607, *b* 608, *a* 610, a b 611, a 612; (Insects), XIII, b 154
- Aculeo, lake (Chili), V, a 536
- ACUÑA, Christoval d', explorer, I, b 123; (Geography), X, b 165
- ——, Don Juan de, viceroy (Mexico), XVI, a 228
- ACUPRESSURE, surgery, I, b 123
- ACUPUNCTURE, surgery, I, b 123; history of (Surgery), XXII, a 708
- Acusium, town. See MONTÉLIMAR
- Acvini constellation (Zodiac), XXIV, b 832, note, a b 833
- ADAFUDIA, town, I, b 123
- *Adagia*, proverbs (Erasmus), VIII, b 455, *a* 456, a 458; (Virgil), XXIV, b 274
- Adah, wife of Lamech, XIV, a 239
- Adai Khokh, mt. (Caucasus), V, b 220
- ADAL, country, I, b 123–a 124
- Adalberon, archbishop (Rheims), XX, b 522; (Silvester), XXII, b 81, *a* 82
- Adalbert I., marquis (Tuscany), XXIII, a 713
- Adalbert II., marquis (Tuscany), XXIII, a 713
- ADALBERT, Saint, Prussia, I, a 124
- ADALBERT, Bremen, archbishop, I, a 124; (Germany), X, a 438; (Henry IV., emperor), XI, a 595
- Adalia or Audaliyeh, town. See SATALI
- ADAM, patriarch, I, a 124–7
  - account of creation, b 124
  - bibliography, b 127
  - Hebrew conceptions, a 127
  - interpretation of narratives, a 125
  - traditions of ancient nations, a 126–7
- —— (Adam's Peak), I, a 129; (Kabbalah), XIII, b 821; (Manichæism), XV, a 491; (Theism), XXIII, a 255; beard of, III, b 399; *Book of* (Aramaic Literature), II, a 270; fall of (Calvin), IV, a 637; *Life of* (Apocalyptic Literature), II, b 155; (Psalms), XX, a 34; reconciliation with Eve (Arafat), II, b 263; theory of (Edwards), VII, b 598; transgression of (Paul), XVIII, b 434.
- ——, Adolphe Ch., composer (Boieldieu), III, a 750
- ADAM, Alexander, teacher, I, a 128
- —— *Blair* (Lockhart), XIV, b 770
- ADAM of Bremen, historian, I, a 128; (Sweden), XXII, b 783
- —— *and Eve*, painting (Dürer), VII, b 481; painting (Leonardo), XIV, a 457; painting (Dürer), VII, b 481
- Adam de la Halle, poet (France), IX, b 565, b 567
- —— *Homo*, satire (Paludan-Müller) XVIII, *b* 207
- Adam, L., philologist (Ural-Altaic), XXIV, a b 7
- ——, L'Isle d', master (St. John of Jerusalem), XXI, b 183
- ADAM, Melchoir, biographer, I, a 128
- —— du Petit-Pont, bishop (Scholasticism), XXI, a 444
- ADAM, Robert, architect, I, a 128; (London), XIV, a b 861; (Plate), XIX, b 197
- —— of St. Victor, monk (Hymns), XII, a 618
- ——, William, missionary (Roy, R.), XXI, a 40
- ADAM, William, statesman, I, b 128
- Adamantine lustre (Jacinth), XIII, b 541
- Adamantius of Alexandria, physician (Physiognomy), XIX, *a* 8
- Adamas, stone and metal (Diamond), VII, b 140
- ADAMAWA or Fumbina, country, I, a 129; (Africa), a 243; (Sokoto), XXII, a *b* 261, a 262; (Soudan), b 290, *a* b 291, *a b* 292
- Adamawas tribes (Negro), XVII, a 328
- Adamite (Mineralogy), XVI, a 423
- ADAMITES or Adamians, sect, I, a b 129
- ADAMNAN, or Adomnan of Iona, Saint, I, b 129; (Columba, St.), VI, b 150; (English Literature), VIII, a 362; (Ireland), XIII, *b* 256; (Scotland), XXI, b 496, b 497, b 565
- Adampe. See Adangme
- Adams, mt. (United States), XXIII, a 851
- Adams, Abigail Smith (Women), XXIV, b 911
- Adams, Alexander J. S., physicist (Meteorology), XVI, b 186, b 191
- ADAM'S BRIDGE, I, b 128–9; (Andaman Islands), II, a 12; (Ceylon), V, b 311, a 314; (Rameswaram), XX, a 278
- Adams, Charles Francis, publicist (Greeley), XI, a 145
- ——, Charles Francis, Jr., capitalist (Schools), XXI, *b* 908
- *Adam's Daughters, book of* (Apocalyptic Literature), II, b 155
- Adams, Francis, physician (Surgery), XXII, b 709, a 712
- ——, Sir Frederick, general (Ionian Islands), XIII, b 212
- ——, Henry Carter, economist (Taxation, U. S.), XXIII, a 927
- ——, Herbert Baxter, historian (United States), XXIII, a 794
- Adams, John, president, I, b 129–30; (Jefferson, T.), XIII, a b 627; (Otis), XVIII, a 71; (Slavery), XXII, a 150, a 908; (Unitarianism), XXIII, a 774 note; (United States), b 786, b 789, *b* 790, a 793, b 800, b 801, *a* b 804, a 805; (Washington), XXIV, b 409
- ——, John, magistrate (Pitcairn), XIX, *b* 141
- ——, John Couch, astronomer (Astronomy), II, *b* 711; (Logarithms), XIV, b 785; (Moon), XVI, b 828; (Tables), XXIII, a 18, a 19; (Tides), a *b* 402; (Trigonometry), b 605
- ADAMS, John Quincy, president, I, b 130–1; (American Literature), I, b 633; (Gallatin), X, *a* 37; (Rush, R.), XXI, b 897; (Slavery), XXII, b 909; (United States), XXIII, a 809, b 810, *a* 811, b 812; (Whig), XXIV, *b* 894, a 895
- Adam's Needle, plant (Yucca), XXIV, b 798
- ADAM'S PEAK, mt., I, a 129; (Ceylon), V, b 311, a b 312, a 313, a 314
- ADAMS, Richard, divine, I, b 131
- ADAMS, Samuel, statesman, I, b 131; (Adams, John), I, b 129; (Warren), XXIV, *a* 855
- —— Temple (Quincy), XX, a 189
- ADAMS, Thos., divine, I, a 132
- ——, William, traveller (Geography), X, a b 166; (Japan), XIII a 594
- ——, William Bridges, engineer (Railway), XX, a 232, a 254
- ——, William Grylls, physicist (Electricity), VIII, b 49
- Adamsia, anemone (Crustacea), VI, a 581
- Adamson, James, missionary (Hottentots), XII, a 326

ADAMSON, Patrick, archbishop, I, a 132; (Scotland), XXI, *b* 529, a b 530, b 567
ADANA, Turkish city, I, b 132; town (Cilicia), V, *a* b 679; province (Turkey), XXIII, a 695
Adangme or Adampe tribe (Gold Coast), X, *a* 673 note
ADANSON, Michel, naturalist, I, b 132-3; (Teredo), XXIII, a b 202
Adapis, genus (Lemur), XIV, a b 445
ADAPTATION, biological, I, b 133; (Acclimatization), *b* 81-3, direct process (Zoology), XXIV, a 857
Adar, Babylonian month (Zodiac), XXIV, a 830, a 831
Adarbaijan, government. See AZERBIJAN
Adbhuta-brâhmana (Sanskrit), XXI, a 291, note
ADDA or Addua, river, I, b 133; (Como, Lake of), VI, a b 196; (Italy), XIII, a b 445
Addah, town (Gold Coast), X, b 672, a 673
Addai, Doctrine of (Syriac Literature), XXII, b 864, b 868
Ad-Damiri. See DAMÎRÎA, VI
Addaula, Shems, emir of Hamadân (Avicenna), III, *b* 133
Addax, species (Antelope), II, b 90
Ad Decimum, battle of, 533; (Vandals), XXIV, *a* 66
Addendum circle (Mechanics), XV, a 766
ADDER, snake, I, b 133; (Snakes), XXII, b 209-10; (Zoology), XXIV, b 924
Adder's tongue, plant (Ferns), IX, b 92
ADDINGTON, Henry, Viscount Sidmouth, premier, I, b 133-4; (England), VIII, a 325, b 326-7; (George III.), X, a b 383; (Pitt), XIX, b 155, a b 156; b 157
ADDISON, Joseph, essayist, I, 134-7
  early literary efforts, a 134
  periodical essays, a 136
  political career, a 135, a 137
  residence on the continent, b 134
—— (Acrostic), I, a 113; (Æsthetics), a 200; (Budgell), IV, *b* 392; (Drama), VII, b 375, b 376, a 378; (Duel), a 444; (D'Urfey), a 483; (English Literature), VIII, a b 379; (Halifax, Earl), XI, a b 345; (Hymns), XII, *b* 627, note; (La Bruyere), XIV, a b 178; (Pope), XIX, b 498, a b 499, a 500; (Sacheverell), XXI, a 139; (Steele), XXII, *a b* 554, a *b* 555, a 556; (Tickell), XXIII, a 374
——, Thomas, physician (Medicine), XV, a 826
——, William, physician (Pathology), XVIII, b 409
Addison's disease (Pathology), XVIII, a b 392, a 394, note; (Skin Diseases), XXII, a 130
Addition (Algebra), I, a 459; (Arithmetic), II, a 463; compound (Arithmetic), b 468
—— of Fractions (Algebra), I, a 469-70; (Arithmetic), II, b 465, b 466; of Surds (Algebra), I, b 471-2
Address to the Christian Nobility of the German Nation (Luther), XV, b 75; *to the Deil* (Burns), IV, a 506, a 508; *to the People of Great Britain* (Wakefield), XXIV, b 340-1
Addresses to the throne (Parliament), XVIII, b 318
Addua river. See ADDA
Ad Ecclesiam (Salvian), XXI, *b* 250, *a* b 251
ADEL, country, I, a 138
ADELAAR, Cort Sivartsen, naval commander, I, a 138
ADELAIDE, city, I, a 138; (Newspapers), XVII, a 449; (Observatory), b 737; (South Australia), XXII, *b* 297, *a b* 298, b 299, b 300; governors of (Australia), III, b 99
——, river of (Australia), III, b 92
Adelaide, empress of Otto I. (Germany), X, a 434, a 436; (Italy), XIII, b 479-80
—— of Saxe-Meiningen, queen of England (William IV.), XXIV, a 612
Adelard of Bath, monk (Scholasticism), XXI, a 441
Adelborst, Curzio Suffrido, Admiral (Adelaar), I, a 138
Adelchi (Manzoni), XV, a 522
Adelheid, empress. See Adelaide
Adelina Longa, town (Ogoway), XVII, a 754
Adelm, St., bishop. See ALDHELM
Adelocodonic gonophors (Hydrozoa), XII, a 587
Adelphi, building (London), XIV, *a* 861, b 844, b 855
ADELSBERG, town, I, a b 138
ADELUNG, Friedrich von, philologist, I, b 138
ADELUNG, Johann-Christoph, philologist, I, b 138-9
ADEN, town, I, b 139; (Arabia), II, a 205, b 207, a 218, b 229; (Ibn Batuta), XII, b 642; gulf of (Red Sea), XX, b 328, a 330
Adenocarpus, plant (Distribution), VII, b 251
Adenoid tissue (Anatomy), I, b 745, b 796, *a* 797
Adenoma, tumor (Pathology), XVIII, b 386, b 389; (Surgery), XXII, *b* 722
Adenophora, plants (Horticulture), XII, a 257
Adeona, genus (Polyzoa), XIX, b 445
ADERNO, city, I, b 139
ADERSBACH ROCKS, I, b 139-40
Adfected cubic equations (Algebra), I, b 477, a 482 *sq*
Adfoo, town. See EDFU
Adghagh plateau (Sahara), XXI, b 157, a 158
Adhémar or Aimar, baron (Bourbon), IV, b 157
——, or Aymar, bishop (Crusades), VI, b 551, a *b* 553
Adherbal, Numidian, king (Jugurtha), XIII, *b* 776
ADHESION, I, a 140; floral (Botany), IV, a b 116; (Capillary Action), V, b 50
Adhesive inflammation (Pathology), XVIII, a 410
Adhesiveness organ of (Phrenology), XVIII, a 859
Adhvaryu, priest (Sanskrit), XXI, *b* 286, b 291
Adi, mountain (Navarra), XVII, a 256
Adiabatic compression (Heat), XI, b 508-9; expansion of air (Hydromechanics), XII, b 503-4, a 505; of steam, XXII, a 499, b 501, a 502, a 504 note, a 506 note; lines in Carnot's cycle (Thermodynamics), XXIII, *b* 304
Adiaphonon, instrument (Tuning-fork), XXIII, b 659
ADIAPHORISTS, I, a b 140; controversy (Melanchthon), XV, a 843
Adíb Sabír, encomiast (Persia), XVIII, b 670
'Adid li-deeni-llâh Aboo Mohammad Abd-Allah el, caliph (Egypt), VII, b 652-3
Adie's Hydrometers, XII, b 570
ADIGE, river, I, b 140; (Alps), I, a 546, a *b* 547; (Austria), III, b 101; (Italy), XIII, a b 444, b 445; (Rhætia), XX, a 519
Adi Granth, Sikh scriptures (Hindūstānī), XI, a 751; (Hindustani Literature), a 753, *a b* 754
'Adil, El-Melik el, the younger, sultan (Egypt), VII, b 654-5
Adil Ibn-Tataë, vizir (Egypt), VII, b 652
'Adil Seyf-ed-deen, el Melik-el, sultan (Egypt), VII, b 653, a b 654
'Adil, sháh (Persia), XVIII, a b 654
Adináth, deity (Pálitána), XVIII, b 191
Adinida, order (Protozoa), XIX, b 884
Adinole, mineral (Mineralogy), XVI, b 437
ADIPOCERE, waxy fat, I, b 140; (Drawing), VII, a 410
ADIPOSE, tissue, I, b 140; (Anatomy), I, a b 747; (Nutrition), XVII, a b 699; (Pathology), XVIII, b 397-8
Adirondack iron ores (United States), XXIII, b 856-7
ADIRONDACK MOUNTAINS, I, b 140; (New York), XVII, a 462, a 463, a b 464, a *b* 465; (United States), XXIII, *a* 842, note, a 859
Adisûra of Bengal, king (Sanskrit) XXI, a 300
ADIT, drain, I, b 140; (Mining), XVI, b 478; (Tunnels), XXIII, a 662
Aditi, myths (Astrology), II, b 646; (Mythology), XVII, b 159
Aditio hereditatis (Roman Law), XX, a 710
Adja Tamkarang, kingdom of (Celebes), V, a 251
Adjective, English (Grammar), XI, b 38; Græco-Italic (Greece), XI, b 116; (Provençal Language), XIX, b 895
Adji-Bojur bay (Caspian Sea), V, a 155
Adjoints, officers (Commune), VI, a b 188
ADJUDICATION, I, b 140; (Roman Law), XX, a 708
ADJUSTMENT, insurance, I, a 141
ADJUTAGE, I, a 141
ADJUTANT, officer, I, a 141
—— -General, I, a 141; (Army), II, a 502, *a* 506
ADJUTANT, stork (Ill.), I, a 141; (Jabiru), XIII, b 539
ADJYGURH, town, I, a 141
Adler, Felix, moralist (Jews), XIII, a 698 note
——, Kaspar. See AQUILA
—— of Schleswig, entomologist (Insects), XIII, b 149
Adlerberg. See Arlberg
Adlerbeth, Gudmund Göran, author (Sweden), XXII, a 795
Adlesparre, Georg, count, critic (Sweden), XXII, a 795
Admensuratio, Writ, XXIV, a 730
Admetus, king (Epirus), VIII, b 429; (Themistocles), XXIII, b 270
ADMINISTRATOR, I, a b 141; (Executors), VIII, a b 700; (Intestacy), XIII, b 203
ADMIRAL, I, b 141-4
  departmental officers, a 144
  fleet, of the, a 142
  foreign, b 144
  legal history, a 143-4
  lord high, a 142-3
  origin, b 141
—— (Navy), XVII, b 300, b 303, a 307; *Jurisdiction, View of the* (Sea Laws), XXI, b 611; Lord High (Precedence), XIX, b 682 note
Admirals (Admiralty), I, b 144, a b 145
Admiralty, British (Dockyard), VII, b 274-6; (Flag), IX, b 243; anchor (Ill.), II, b 6, *b* 7-8; Board of (Admiral), I, a b 144; (Court-martial), VI, a 461; (Navy), XVII, b 300; building (London), XIV, b 849; level datum (Tides), XXIII, b 393; reform of (St. Vincent), XXI, b 211; rule (Damages), VI, a 695; survey, British (Stevenson), XXII, a 573; warrants (Yatching), XXIV, b 760-1
ADMIRALTY CHARTS, I, a 148; (Navigation), XVII, b 268, a b 269; courts (Seamen), XXI, b 637-8; Compass, VI, a 203; first lords of (Ministry) XVI, b 496
ADMIRALTY, High Court of, I, b 144-8
  counsellors, b 147
  Ireland, a 148
  judge, b 146
  jurisdiction, a 145-6
  marshal, b 147
  registrar, a 147
  Scotland, a 148
  vice-admiral, b 145

ADMIRALTY, High Court of (London), XIV, a 841
ADMIRALTY ISLAND, United States, I, a 148
ADMIRALTY ISLANDS, New Guinea, I, a b 148
Admonition to Parliament (Presbyterianism), XIX, b 705
Adna-Muorki-Kortje, waterfall (Sweden), XXII, a 775
Adnotatio, imperial (Roman Law), XX, a 724
'Adod-al-Daula, shah (Mohammedanism), XVI, a 610
Adolesence Clémentine (Marot) XV, b 570
Adolf or Adolphus, of Nassau, Emperor (Albert I.), I, a 399; (Germany), X, b 442-3; (Nassau), XVII, a 245; (Rosh), XX, a 875 note; (Switzerland), XXII, b 821
Adolphus, Holstein, counts of (Schleswig-Holstein), XXI, b 433
——, Frederick, king (Sweden), XXII, b 789
ADOLPHUS, John, historian, I, b 148
——, John Leycester, lawyer, I, b 148
Adomnan Saint. See Adamnan
ADONIS, of mythology, I, b 148; (Hadad), XI, b 322
ADONIS, plant, I, a 148; (Horticulture), XII, a 257
—— river, I, 148
ADOPTIAN CONTROVERSY, I, a 149; (Alcuin), b 417
Adoptianists, sect (Sabellius), XXI, b 135
ADOPTION, I, a 149; (Knighthood), XIV, b 113; (Roman Law), XX, b 689, a 692
Adorantes, sect (Unitarianism), XXIII, *a* 773
ADORATION, ceremony, I, b 149; of saints (Apotheosis), II, a 175
Adoration of the Lamb, Van Eycks' (Pianoforte), XIX, b 73
—— *of the Magi*, paintings (Perugino), XVIII, a 696; (Peruzzi), b 696; (Rubens), XXI, *a* 48; relief (Pisano) (Ill.), XIX, *a* 133
—— *of the Shepherds*, Lorenzo's (Schools of Painting) (Ill.), XXI, b 453
—— *of the Trinity* (Dürer), VII, b 481
ADOUR, river, I, b 149; (France), IX, b 446, b 447; (Geology), X, a 236; (Gers), X, b 490; (Landes), XIV, *b* 272; (Pyrénées), XX, *b* 132, *a* b 133; (River Engineering) (Ill.), *a* 592
ADOWA, town, I, a 150; (Abyssinia), I, a 64
Adpar, suburb (Cardigan), V, a 84, a 85
Ad quod damnum (Writ), XXIV, b 731
ADRA, town, I, a 150
——, river (Almeria), I, a 522
Adramyttium, town and gulf (Mysia), XVII, *a* 130
Adranas Tchai, river (Asia Minor), II, b 618
Adranum, town. See Aderno.
Adrar district (Sahara), XXI, *a* 158, b 159
—— Budfel, mt. (Kabyles), XIII, b 823
ADRASTUS, king, I, a 150; (Amphiaraus), I, a 657
Adrenal glands (Mammalia), XV, b 367
ADRIA, city, I, a 150; (Geology), X, a 247
—— Sea, I, a 150
Adrian. See *Hadrian*
ADRIAN, Mich., town, I, a 150
ADRIAN I., pope, I, b 150
—— II., pope, I, b 150; (Hincmar), XI, a b 747
—— III., pope, I, b 150
—— IV., pope, I, b 150; (Abbot), I, b 28; (Arnold of Brescia), II, b 546
—— V., I, a 151
—— VI., pope, I, a 151; (Alcantara, Knights of), a 406; (Charles V., emperor), V, b 358; (Jovius), XIII, a 766; (Luther), XV, b 78; (Utrecht), XXIV, a 27
—— of Canterbury, abbot (Aldhelm), I, b 419
ADRIAN de Castello, cardinal, I, a b 151
—— of Metz, mathematician (Squaring of Circle), XXII, a 451
—— of Tyre, sophist (Rhetoric), XX, b 529
—— of Utrecht, regent (Spain), XXII, *a* 343
ADRIANI, Giovanni Battista, historian, I, b 151
——, Marcello Virgilio (Machiavelli), XV, *a* 147
ADRIANOPLE, city, I, b 151; battle, A.D. 378; (Theodosius I.), XXIII, a b 277; (Valens), XXIV, a 42; treaty of, 1828 (Turkey), XXIII, a 691
ADRIATIC SEA, I, b 151–2; (Mediterranean Sea), XV, b 829–30; (Meteorology), XVI, a 146
Adrogation, law-term (Adoption), I, a b 149; (Roman Law), XX, *b* 689, a 692, *a* 705
Adrumetum, city. See Hadrumetum
Adscripti glebæ, serfs (Slavery), XXII, a 144
Adularia, felspar (Mineralogy), XVI, a 388, a 437
ADULE or Adulis, town, I, a 152; (Abyssinia), I, a b 64; (Red Sea), XX, a 329; (Zulla), XXIV, a 866
ADULLAM, city and cave, I, a 152; (David), VI, a 738, note
ADULTERATION, I, a 152–60
    cattle-food and seeds, b 158
    cocoa, a 155
    coffee, b 153
    coins, etc., b 159
    drugs, a 159
    fabrics, b 159
    history, a 152
    liquors, b 156–8
    milk, a 153
    objects of, a 158
    oils, b 155
    seeds, b 158
    solids, a 155
    tea, a 154
    tobacco, a 158
—— (Absinthe), I, b 57; beer (Brewing), IV, b 243–4; (Brandy), IV, a 195; (Butter), IV, b 526; (Coffee), VI, b 101, a 104; food (Government), XI, a 18; (Gin), X, b 537, a 538; (Glycerin), a 624; (Guano), XI, b 207; (Honey), XII, b 140; (India-rubber), XII, b 877; (Linseed), XIV, b 683; manures (Agriculture), I, b 309; (Milk), XVI, b 317–8; (Musk), XVII, b 113; (Oil-cake), a 760; (Oils), b 766, a 770; (Opium), a 811, b 812, b 814; (Pepper), XVIII, a 527; (Peppermint), b 528, a 529; (Perfumery), b 537; (Saffron), XXI, a 154; (Silk), XXII, a b 70; (Soap), b 214, a 215; (Tea), XXIII, b 107–8, a 109; tests (Rape Oil), XX, a 286; wine (Oporto), XVII, b 818; (Wine), XXIV, b 634, *a* 635
ADULTERY, I, b 160; (Divorce), VII, *a* 261, *a b* 262, *a b* 263, *a b* 264; casuist doctrine of (Liguori), XIV, b 645; Great Britain (Women), XXIV, b 675, b 676; (Roman Law), XX, a 693; (Women), XXIV, b 672
Adur river (Sussex), XXII, *a* 761
Advanced guards (War), XXIV, b 365, b 383
Advance notes (Seamen), XXI, a 636, a 638
Advancement of Learning (Bacon), III, *b* 176, a 182, a 184
ADVENT, season, I, a 161
—— Christ's Second (Millennium), XVI, a 327, b 330; (Paul), XVIII, a b 430, b 437; (Thessalonians), XXIII, b 318
Adventists, sect (Miller, William), XVI, b 332; statistics (United States), XXIII, b 884
"Adventure," vessel, wreck of (Lifeboat), XIV, a 575
Adventurer (Hawkesworth), XI, a 478
Adventures of Mr. Ledburg (Leech), XIV, a 406
—— *of Philip* (Thackeray), XXIII, a 233, a 235
Adverb (Grammar), XI, a b 37, a 39; Latin, (Priscian), XIX, b 764–5; origin of (Philology), XVIII, a 785; primitive (Greece), XI, *a* 115
Adversaria, books (Libraries), XIV, a 519
—— (Porson), XIX, *a* 540
—— *Anatomica* (Morgagni), XVI, a–b 848
Adversus Gentes (Arnobius), II, a b 546
ADVERTISEMENT, I, a b 161; (American Journalism), XVII, b 890; French (Newspapers), XVII, b 437–8; *London Times* (Newspapers), a 429; (Newspapers), b 425
Advertiser, American Daily (Philadelphia), XVIII, a 754
——, *London Morning* (Newspapers), XVII, b 429, a 431
——, *London Public* (Newspapers), XVII, b 427, b 428
ADVOCATE, official, I, b 161–2; General (Admiralty), I, b 147; King's, I, a b 162; Roman (Patron and Client), XVIII, a 424
ADVOCATION, law term, I, b 162
ADVOWSON, transfer of cure of souls, I, b 162; (Advocate), a 162; (Simony), XXII, a b 92
'Adwin tribes (Syria), XXII, b 862
ADYTUM, sanctuary, I, b 162; (Temple), XXIII, a b 182, b 183; Egyptian (Architecture) (Plate VII), II, b 340, a 341, a 342
Æ, diphthong, I, b 162
ÆACUS, in mythology, I, b 162
Æbutian Law (Roman Law), XX, b 698, a 714, b 719, a 723, b 726, a 727
Æcidiomycetes, sub-class (Vegetable Kingdom), XXIV, a *b* 139
Aed or Aedan, king (Celtic Literature), V, b 275; (Ireland), XIII, a 255
—— Alaind, king (Ireland), XIII, b 256–7
Aed Slane, Birth of (Celtic Literature), V, a b 269
Aed of Sletty, bishop (Ireland), XIII, a 253
Aedan MacGabran, King (Celtic Literature), V, b 275
Ædes Vesta, temple, XXIV, a 210, note, a 211
ÆDILE, magistrate, I, a 163; (Roman Law), XX, a b 696, a 704, a 716, b 719, b 723, b 757, b 774; (Rome), XX, a 790, note
Ædui, tribe (Gaul), X, b 100
Æetes of Colchis, King (Ares), II, a 457; (Argonauts), a b 437
ÆGADES or Ægates islands, I, a 163; (Hamilcar), XI, a 367; (Rome), XX, b 766; (Sicily), XXII, a 36
Ægæ, town. See EDESSA
Ægæon, myth (Briareus), IV, b 247
Ægaleos, Mt. (Attica), III, *b* 51, *b* 52, a 53
Ægean islands (Terra-cotta), XXIII, b 207
ÆGEAN SEA, I, a 163; (Mediterranean), XV, a b 829
Ægeidæ, family (Pindar), XIX, a 107
Ægeriidæ, moths (Butterflies), IV, a 528, a 530
Ægérine (Mineralogy), XVI, b 434
ÆGEUS, king of Athens, I, a, b 163; (Theseus), XXIII, b 314-6
Ægiale, town (Numismatics), XVII, b 661
Ægialitis, birds (Killdeer), XIV, *a b* 78
Ægida, town (Capo d'Istria), V, a 67
Ægidæ, tribe (Crustacea), VI, a 583, note
Ægidius, St. See GILES
—— of Colonna, theologian (Scholasticism), XXI, b 447
Ægilia, Island (Cerigotto), V, a 301
Ægina, city, I, *b* 163–4; (Slavery), XXII, *b* 138
gulf of (Greece), XI, b 74

ÆGINA or Egina, island, I, b 163; (Æacus), I, 162; (Corinth), VI, a 353; (Greece), XI, b 75, a 89, a b 90, a 91, *b* 108; (Numismatics), XVII, a 659; (Pericles), XVIII, b 541, a 542, a 544; school of (Archæology), II, b 306, b 307, b 308; system of Weights and Measures, XXIV, a 513, b 515; temple at (Tiles), XXIII, a 414
Ægina and Bassæ, Temples of, Cockerell's (Phigalia), XVIII, b 748
ÆGINA, heroine, I, b 163
ÆGINETA, Paulus, physician, I, a 164
Ægineticus (Isocrates), XIII, b 402
Æginium, town (Meteora), XVI, a b 119
ÆGIS, shield, I, a 164
ÆGISTHUS, king, I, b 164
Aegithalus, bird (Titmouse), XXIII, a 447
Ægithognathæ, group (Birds), III, b 604, a 605; (Ornithology), XVIII, b 37 note, b 38 note, a b 39
Ægithognathous Birds (Ill.), III, b 619–20
ÆGOSPOTAMI, river, I, b 164
Ægotheles, bird (Goat-sucker), X, a 635
Ægus, Alexander, king (Egypt), VII, b 645
Ægyptiaca (Hellanicus), XI, b 566
Ægyptus, myth (Danaus), VI, a 702
Æizanes, Ethiopian king (Yemen), XXIV, b 776
Ælfgar, earl of Mercia (Harold II.), XI, *b* 434
Ælfred. See Alfred
——, Etheling, prince (Godwine), X, a 641; prince (Normandy), XVII, a b 556
Ælfric of Canterbury, archbishop, I, b 164
ÆLFRIC, grammarian, I, b 164; (England, Church of), VIII, a 333, a b 342; (English Language), b 351, *b* 352, 359; (English Literature), a 363
—— *Heptateuch of* (English Bible), VIII, a b 342; *Paschal Homily of* (Typography), XXIII, a 741
Ælfthryth, or Elfrida, princess (England), VIII, b 258
ÆLIA CAPITOLINA, city, I, b 164; (Jerusalem), XIII, a 647, b 652
Æliæ Insulæ. See LIPARI ISLANDS
Ælian Law (Slavery), XXII, a 142
ÆLIANUS, Claudius, rhetorician, I, a 165; (Ornithology), XVIII, a 7; (Persepolis), b 570 notes; (Salamander), XXI, a 215 note
——, Casperius, prefect (Nerva), XVII, b 362
Ælia-Sentian law (Roman Law), XX, a 723
Ælius, name of historians. See Gallus, Lampridius, Spartianus
——, Sextus Pætus Catus, jurist (Roman Law), XX, b 697
Ælla, king of Deira (Northumberland), XVII, *b* 582, a 583
Ælle, Saxon invader (Sussex), XXII, *a* 763
Æluroidea, classification of (Mammalia), XV, a 440–444
Æmilian family of Rome. See Paulus
—— Way (Parma), XVIII, a 319; (Piacenza), XIX, b 72
ÆMILIUS, Paulus, historian, I, a 165
Æmona, town. See LAIBACH
Ænachs or fairs (Brehon Law), IV, b 226–7
Ænaria, island. See ISCHIA
ÆNEAS, hero, I, a 165; (Homer), XII, a 122; (Nævius), XVII, b 168–9; (Troad), XXIII, b 615, a 618, a 619, a 620
Æneas Sylvius, pope. See Pius II.
Æneia, town (Numismatics), XVII, a 657
Æneid, of Virgil (Æneas), I, a 165; (Æolus), b 165; (Amsancti Vallis), a b 683; (Augustus), III, *a* 72; (Conington), VI, a b 254; (Mythology), XVII, b 152; (Poetry), XIX, b 279; (Roman Literature), XX, a 742; (Virgil), XXIV, *a* 267, *b* 268, b 269, b 270, a b 271, a 272–4
Ænesidemus, philosopher (Scepticism), XXI, b 397–8
Aeng or An pass (India), XII, a 770
Aennchen, innamorata (Goethe), X, a 644
Ænos, Mount (Cephalonia), V, b 298
——, town (Enos), VIII, a 400; (Numismatics), XVII, b 656
ÆOLIÆ-INSULÆ, I, a 165; (Italy), XIII, a 450; (Lipari Islands), XIV, b 688; (Sicily), XXII, a 36
ÆOLIAN HARP, I, a b 165
—— poetry (Greece), XI, b 124
Æolians, people (Bœotia), III, b 742; (Greece), XI, b 81, a b 83, a 84, a 86, a 89, *a* 122
Æolic dialect (Greece), XI, b 117–8, *a* 122; (Homer), XII, b 117
Æolica (Hellanicus), XI, b 566
Æolidia, enteric canal of (Mollusca) (Ill.), XVI, a 683; gonads of (Mollusca), b 682
Æolipile (Blowpipe), III, a 730; Hero's (Steam-Engine), XXII, a 490
ÆOLIS or Æolia country, I, b 165; (Numismatics), XVII, a 663
Æolosoma, genus (Worm), XXIV, *b* 713, *a* 714, a *b* 715, b 718, *a* b 719
Æolotropy (Elasticity), VII, *a* 698, a b 716; (Magnetism), XV, a *b* 245, a b 246–7, a *b* 248, a 249, a b 267, a b 268
ÆOLUS, god, I, b 165
—— sprayer (Ventilation), XXIV, b 175
ÆON, an emanation, I, b 165; (Mandæans), XV, b 475, a 476; (Gnosticism), X, a 628; (Valentinus), XXIV, b 44, a b 45, note, *a* 46
ÆPINUS, Franz Maria Ulrich Theodor, physicist, I, b 165–6; (Electricity), VIII, b 8, a 9
Æpyornis (Birds), III, a 634, a 659; (Madagascar), XV, b 171
Æpyornithes, order of birds (Ornithology), XVIII, a 48
Æpyprymnus, genus (Kangaroo), XIII, a 850
ÆQUI or Equians, tribe, I, a 166; (Italy), XIII, b 454; (Rome), XX, *a b* 758, a b 759, b 761, b 764, note
Æquoridæ group (Hydrozoa), XII, a 596
ÆRARIANS, citizens, I, a 166
ÆRARIUM, treasury, I, a 166
Aëration of aquaria, II, b 190
Aërated bread (Ill.) (Baking), III, a 218, a b 220–1
ÆËRATED WATERS (Ill.), I, a 166–7; (Distillation), VII, a 229
Aerial locomotion (Mammalia), XV, a b 410, a 413; (Gavarni), X, a 107; (Traction), XXIII, a 528
—— perspective (Projection), XIX, b 826
—— roots (Botany) (Ill.), IV, b 83–84; (Tree-ferns), XXIII, b 568
—— Telescopes, XXIII, b 148
Aërobiotic forms (Schizomycetes), XXI, a 424
AEROE, island, I, a 167
AËROLITE, I, a 167; (Geology), X, b 191; (Meteor), XVI, a 113
Aeron valley and river (Cardigan), V, a 84
Aëronautical Society, Great Britain, I, b 182, a 183
AËRONAUTICS (Ill., Plate I), I, a 167–87
    ascents, a 170–5
    balloon, construction of, b 186
    invention of, b 169–71
    motion of, a 184
    British Association, a 176–7
    classical legends, b 167
    equilibrium theory, a 183
    flying inventions, a 168–9, b 182
    Glaisher's experiments, a 176–80
    height determination, a 186
    mediæval history, a 168
    navigation, b 182
    parachutes, a 181–2
    practice of aërostation, a 187
    scientific ascents, b 175 80
    war experiments, a 180–181

Aërophores, air-carriers (Coal), VI, b 68–9
Aërostation (Flight), IX, a 269
Ærssens, Cornelis van, governor (Guiana), XI, b 224
ÆRTSZEN, Pieter, painter, I, b 187
Æs, money, I, b 187; (Numismatics), XVII, *b* 652, *a* 653, b 669; grave (Rimini), XX, b 570; value of (Roman Law), XX, b 699, note
ÆSCHINES, orator, I, a 188–9; (Amphictyony), I, *a* b 678; (Demosthenes), VII, a b 62, a 63, a 64; (Dinarchus), b 211; (Exorcism), VIII, a 705; (Greece), XI, a 127; (Homer), XII, b 118 note
ÆSCHINES, philosopher, I, b 187
Æschnidæ, insects (Dragon Fly), VII, b 333, b 334, *b* 335, *a* b 336
ÆSCHYLUS, poet, I, a 188–9; (Adam), *b* 126; (Drama), VII, b 350, *a* b 351, *a* 352; (Euripides), VIII, *a* b 591; (Flaxman, J.), IX, b 261; poet (Greece), XI, a b 125, b 127; (Ixion), XIII, b 537; (Lämmergeyer), XIV, b 244 note; (Pericles), XVIII, b 541; (Persæ), a 576 note, a b 583, b 584; (Poetry), XIX, b 277, a 278, a 280; (Sophocles), XXII, *b* 284, *b* 285, a 286, *a b* 287; (Thebes), XXIII, b 248, *a b* 249; (Tortoise), a 485
Æschylus (Porson), XIX, a 538, a 539, a 540
Æschynite (Mineralogy), (Ill.), XVI, b 445
ÆSCULAPIUS, god, I, a 189; (Egypt), VII, a 623, b 634; (Medicine), XV, b 809–10;
—— cult of (Cos), VI, *b* 393; (Epidaurus), VIII, a b 423
Æsculapius's snake, XXII, *b* 204–5
Æsculin, alkaloid (Gelsemium), X, a 121; (Horse-chestnut), XII, a b 210
Æsculus, plants (Horse-chestnut), XII, *a b* 210; Hippocastanum, plant (Arboriculture), II, b 279
Æsepus, river (Mysia), XVII, b 129; (Troad), XXIII, a 615
Æsernia, town. See ISERNIA
ÆSIR, gods, I, a 189–190; (Asgard), II, b 593–4; (Baldur), III, a 238; (Denmark), VII, a 74; (Edda), a b 564; (Mythology), XVII, b 162
Æsis or Æsium. See JESI
Æson, myth (Pelias), XVIII, a b 485
ÆSOP, fabulist, I, b 190–1; (Fables), VIII, b 733–4; (Phaedrus), XVIII, a b 740
——, Clodius, actor, I, a 191; (Drama), VII, b 356
ÆSOP, historian, I, a 191
Æsop, comedy (Vanbrugh), XXIV, b 61
Æsop's Fables (Luther), XV, b 83; (Syriac Literature), XXII, a 895
Æsthacytes, cells (Sponges) (Ill.), XXII, a b 436
Æsthesiometer (Touch) (Ill.), XXIII, b 510
Æsthetic feelings (Psychology), XX, b 74–5
Aesthetik (Kant), XIII, a b 861, a 862
ÆSTHETICS, I, a 191-201
    Classical writers, b 193-5
    English writers, a 199–201
    French writers, a 198
    German writers, a 195-8
    history of systems, b 193–201
    Italian and Dutch writers, b 198

ÆSTHETICS, *continued*
  metaphysical problems, b 191-2
  scientific problems, a 192-3

—— (Baumgarten, A. G.), III, a 387; (Fine Arts), IX, b 169; (Hegel), XI, a b 550, b 553, a 554; (Hemsterhuis), XI, a 580; (Herbart), XI, a 642, a 644; (Hutcheson), XII, b 426-7; (Jouffroy), XIII, b 764; (Kant), a b 864; (Lotze), XV, a b 16; (Philosophy), XVIII, b 805, a 806, a 809
Æstivation (Frog), IX, b 698; (Hibernation), XI, b 703, *a* b 704; (Lemur), XIV, a b 443; floral (Botany) (Ill.), IV, a *b* 17, *a* 118
Ætas, tribe (Philippine Islands), XVIII, b 766
Æth, city. See ATH
Æthaleia, island. See LEMNOS
Æthalia, spores (Protozoa), XIX, b 863
Æthelberht. See ETHELBERT
Æthelfrith. See Ethelfrith
Æthelings, princes. See Athelings
Æthelnoth. See AGELNOTH
Æthelred, kings. See ETHELRED
Aethelstan. See ATHELSTAN
——, Danish king (Alfred the Great), I, b 447
Æthelwulf. See ETHELWULF
Æther. See ETHER
Æthiopia. See ETHIOPIA
Æthiopica, romance (Heliodorus), XI, *b* 564; Longus), XIV, *b* 878; (Romance), XX, a b 651
Æthiopis (Achilles), I, a 90; (Homer), XII, a 113, a 118; (Medicine), XV, a 809
"Æthiops mineralis" (Mercury), XVI, b 38; (Vermilion), XXIV, a 180
Æthra, legend (Theseus), XXIII, a 314
Æthusa Cynapium, plant (Botany), IV, b 75
Ætiology (Amphibia), I, b 675-6; (Biology), III, b 595-7; (Hygiene), XII, a 603; (Parasitism), XVIII, b 266-8, a 274-6; (Pathology), a 366-7; (Sponges), XXII, b 443-4
AETION, painter, I, b 201-2; (Games), X, a 58
AËTIUS, Arian bishop, I, a 202
AËTIUS, of Mesopotamia, physician, I, a 202; (Medicine), XV, a 814
AETIUS, Count of Italy, Roman general, I, a 202; (Atilla), III, b 54-5; (Rome), XX, b 798, a b 799; (Valentinian III,), XXIV, *a* 43
Ætna, volcano. See ETNA
——, city (Catania), V, b 190
Aeto, Mount (Ithaca), XIII, *a* 527
Aetobatis, fish (Ichthyology) (Ill.), XII, a 704, b 724
ÆTOLIA, country, I, a b 202; (Numismatics), XVII, b 658
Ætolian league, I, b 202; (Federal Government), IX, a 55; (Greece), XI, b 96-7
Ætomorphæ, group (Birds), III, a 618-9, b 627, a 629
Æx or Aix, genus (Duck), VII, b 437; (Teal), XXIII, a 113
AFANASIEF, Aleksandr Nikolaevich, author, I, b 202-3
Afars, race (Adal), I, b 123-4; (Somali), XXII, b 268, a 269
Afdal, el, vizir (Egypt), VII, b 652
AFER, Domitius, orator, I, a 203; (Quintilian), XX, a 194
Affections, the (Butler), IV, a b 522; morbid (Cannibalism), a 713; sense (Kant), XIII, b 861, a 862; (Stoics), XXII, a 596. See Ethics
Afferent nerve fibre (Respiration), XX, b 494-5
AFFIDAVIT, law-term, I, a 203
AFFINITY, Chemical, I, b 203; (Chemistry), V, b 412; Lavoisier on (Chemistry), V, a b 402; oxygen atoms (Chemistry), V, a b 416, a 418, a 424
AFFINITY in Law, I, a 203
Affirmation, judicial (Affidavit), I, a 203; (Law), XIV, b 366; (Oath), XVII, a 721; (Perjury), XVIII, b 559
Affittanza, land system (Italy), XIII, b 461-2
Afflek, James, poet (Scotland), XXI, b 566, note
Affonso. See ALPHONSO
Afforestment, legal process (Forests), IX, a 361
Affray, definition (Riot), XX, a 579
AFFRE, Denis Auguste, archbishop, I, b 203; (Paris), XVIII, a 299
Afghan *Dictionaries*, VII, a 166; coins (Numismatics), XVII, a 679; frontier (Persia), XVIII, a 665; (Oxus), XVIII, b 104, b 107; invasions (Ispahán), XIII, b 406; (Persia), XVIII, a b 651-2; (Punjab), XX, a b 117; language (Persia), XVIII, a 668; power (Herat), XI, b 638, a 639
—— wars (Auckland), III, b 60; (Ellenborough), VIII, b 136-7; (Havelock), XI, b 469; (India), XII, a b 846-7, b 850, a 851; (Lawrence), XIV, b 372, a 373
AFGHANISTAN, country, I, a 204-19
  agriculture, a 209
  animals, a 209
  antiquities, a 216
  boundaries, a 204
  climate, b 207
  divisions, natural, b 204
  history, b 213-6
  industries, a 210
  inhabitants, b 210-2
  language, b 213
  political features, b 212-3
  productions, a 208-9
  provinces, b 206
  rivers and lakes, b 205
    AFGHAN TURKESTAN, b 216-19
      antiquities, a 219
      population, b 218

AFGHANISTAN, *continued*
      provinces, b 217
      rivers, b 216

—— (Asia), II, a 599; (Hindú Kúsh), XI, b 747; (Ghazni), X, a b 502; made a kingdom (Persia), XVIII, a 654; organic forms of (Asia), II, *b* 606; relations with (Persia), XVIII, a b 660, a 662
Afgháns, people (Herat), XI, b 637; (India), XII, *a* 784
AFIUM-KARA-HISSAR, city, I, a 219
Aflaj, district (Arabia), II, a 209, b 217, a 219, b 221
Afnu language (Houssa), XII, b 331-2
AFRAGOLA, town, I, a 219
Afranio, canon of Ferrara, musician (Oboe), XVII, b 726
AFRANIUS, Lucius, poet, I, a 219; (Drama), VII, a 356
AFRANIUS, Lucius, consul, I, a 219
Afrásiáb kings (Turks), XXIII, b 701
AFRICA (Plate II), I, b 219-44
  Abyssinians, a b 235
  Æthiopic races, b 235-6
  ancient geography, b 219
  Berber races, a b 234
  climate, b 229-31
  configuration, b 223-5
  explorers, modern, a 220-3
  fauna, b 231-3
  flora, a b 231
  geological features, b 225-6
  Hottentot races, a b 236
  index, 242*
  Indian Ocean drainage, a b 228
  lakes, b 228-9
  Moors and congeners, b 234-5
  name, b 223
  Nile basin races, a 233-4
  political divisions, b 237-42
    central states, b 242
    north coast states, b 237-9
    Red Sea state, a b 239
    Sahara, b 239-40
    South Africa, b 241-2
    West Africa, b 240-1
  population, distribution of, b 236-7
  races, a 233-6
  rivers, b 226-8

—— (Brewing), IV, b 236; (Coal), VI, b 55; (Cotton), b 433; (Forest), IX, a b 359; (Honey), XII, b 141-2; (Hunting), XII, a 412; (Ichthyology), XII, b 671, b 710, a b 711-12, b 719; (Ivory), XIII, b 531-2; (Libya), XIV, a 554; (Magic), XV, *b* 201; (Map), XV, b 525; (Meteorology), XVI, b 137, a 148, b 153; (Mining), a 491; (Mohammedanism), b 590, b 595, a-b 598. b 601; (Protestants) XIX, *a b* 848; (Railway), XX, b 263; (Religions), b 374-5, a b 382; (Reptiles), b 481-3, b 486; (Semitic Languages), XXI, a 675; (Slavery), XXII, a b 152-3; (Totemism), XXIII, b 505; (Vaccination), XXIV, b 33; (Yaws), b 769
—— Catholic Missions in (Propaganda), XIX, b 833
—— Central (Missions), XVI, a 540; languages of (Philology), XVIII, a b 794
—— circumnavigation of (Henry, the Navigator), XI, b 599; (Phœnicia), XVIII, a 820; conquest of (Arabia), II, a 225; fauna, I, b 231-2; (Distribution), VII, b 234, a 235-6, *b* 239, *a* 240, *a* 242; (Reptiles), XX, a 454; flora, I, a 231; (Distribution), VII, b 251-2; Gold Coast of (Accra), I, a 87; languages of (Philology), XVIII, b 791-2, b 793-4; rainfall (Meteorology), XVI, b 158-9
—— South (Libraries), XIV, b 552; (Diamond), VII, b 142; (Missions), XVI, a 540; birds of (Ornithology), XVIII, a b 20; natives of (Totemism), XXIII, *b* 497
Africa, Latin Epic (Petrarch), XVIII, b 720, a b 724
Africæ Descriptio (Leo, J.), XIV, a 454
Africaine l', opera (Meyerbeer), XVI, a-b 231
African Church, Early (Donatists), VII, a 311-12; Coffee, VI, *b* 100; Colonization Company, English (Slavery), XXII, *b* 146; Company, English, abolished (Ashantee), II, b 595; Dances, VI, a 704; Elephant (Ill.), VIII, a b 117; (Mammalia), XV, b 430; colonies (Phœnicia), XVIII, b 819, a 820; (Garrison), X, a b 77, a 78
—— exploration (Hanno), XI, a 398; (Heuglin), b 699; (Laing, A. G.), XIV, b 216; (Lander), b 272; (Barth), III, a 346; (Beke), III, a 441; (Clapperton), V, a b 700; (Douville), VII, b 327-8; (Geography), X, a 161, b 163, a 166, b 168, a b 171, a 173-4; (Livingstone), XIV, b 726-9; (Munzinger), XVII, a 39; (Niger) b 511; (Park), XVIII, b 303-4; (Speke), XXII, b 405, a 406; Roman (Ptolemy), XX, b 100-1
—— Geographical Society (Rennell), XX, a 412; gums (India-rubber), XII, a b 876, b 879-80; ivy (Ill.), XIII, a b 536; Institution, English (Slavery), XXII, a b 148; International Association (Zaire), XXIV, *b* 803; languages (Dictionary), VII, a b 167; Latinity (Latin), XIV, b 338-9; learned Societies, XXII, b 234, b 237, a 238, b 240; Methodist Episcopal Church (Methodism), XVI, a 200; Mokta ore (Iron), XIII, b 292; Mosaics, XVI, b 878; ores (Gold), X, a 660, a 662; possessions of Turkey, XXIII, b 695-6
AFRICANUS, Julius, historian, I, a 244; (Millennium), XVI, a 329

Afrikus, king (Somali), XXII, b 269
'Afrína river (Syria), XXII, b 860
Afshars or Aushars, tribe (Turks), XXIII, a 703
Afsos, Sher 'Alī, author (Hindustani Literature), XI, *a* 758
Aftan valley (Arabia), II, b 209
Afterglow (Twilight), XXIII, b 716
Aftermath (Agriculture), I, b 336
Afuera islands (Peru), XVIII, b 684
AFZELIUS, Adam, botanist, I, a 244
AFZELIUS, Arwid August, historian, I, b 244; (Sweden), XXII, b 795
AGA or Agha, title, I, b 244
Agadah (Midrash), XVI, a 297-8; (Mishnah), b 526, b 527-8; (Talmud), XXIII, *b* 41
Agadath Bereshith (Midrash), XVI, a 299 note
AGADES, town, I, b 244; (Oases), XVII, a 715
Agadir, town of Spain (Cadiz), IV, b 557
——, town (Morocco), XVI, b 857; (Tlemcen), XXIII, a 450
Agalmatolite (Mineralogy), XVI, a 443
Agamas, scriptures (Jains), XIII, b 553
AGAMEMNON, king, I, b 244-5; (Ajax Oileus), a 384; (Greece), XI, *a* 83; (Iphigeneia), XIII, b 217; (Memnon), XV, a 856; (Troad), XXIII, b 615
Agamemnon of Æschylus (Poetry), XIX, b 278, a 280
Agami, bird (Trumpeter), XXIII, b 631, note, a 632
Agamidæ, family (Lizard) (Ill.), XIV, a 740, a 742-3
Agamogenesis (Biology), III, b 593-4, b 598-9; (Insects), XIII, a 153
Agaña, San Ignacio de, town (Ladrone), XIV, b 200
Aganippe, fountain (Helicon), XI, a 563; river (Greece), XI, a 74
AGAPE, feast, I, a b 245; (Hymns), XII, b 613
Agapetus, I, St., pope (Popedom), XIX, b 507, b 523; (Syriac Literature), XXII, a 875
—— II., pope (Rome), XX, a 806
AGAPETUS, of Constantinople, deacon, I, b 245
Agapornis (Love-bird), XV, *a* 30
Agar-Ellis, George James Wellbore. See DOVER, baron
AGARDE, Arthur, antiquary, I, b 245
Agaricini, mushroom (Fungus), IX, *a* 731, note
Agaricus, mushroom (Fungus) (Ill.), IX, *a* b 731; (Mammoth Cave), XV, a 457; (Mushroom) (Ill.), XVII, b 81-3, a 84
Agariste, princess (Sicyon), XXII, b 37-8
Agartalá, town (Hill Tipperah), XI, a 733
AGASIAS, sculptor, I, b 245
Agassiz, Alexander, naturalist (Animal Kingdom), II, a 45, b 47-8; (Zoology), XXIV, b 853
AGASSIZ, Louis John Rudolph, zoologist, I, b 245-8; (America, South), b 591; (Acclimatization), I, b 80; (America), I, b 591, a 601, b 607; (Anthropology), II, a 98; (Corals), VI, b 333, b 339; (Distribution), VII, b 237, b 243; (Glacier), X, a 561, b 562; (Hydrozoa), XII, b 584, a 586, *b* 589, a 594, a 598; (Ichthyology), XII, b 670, a 706; (Miller, Hugh), XVI, b 331; (Morphology), b 871, a 872; (Pacific Ocean), XVIII, b 132; (Radiata) XX, a 219; (Reproduction), b 432; (Reptiles), b 453, note; (Zoology), XXIV, a 840, a 844, b 848-9
AGATE, stone, I, a b 248; (Europe), VIII, b 621; (Onyx), XVII, a b 798
AGATHARCHIDES, geographer, I, b 248; (Yemen), XXIV, a 776
AGATHARCHUS, painter, I, b 248; (Archæology), II, b 317
AGATHIAS, historian and poet, I, b 248; (Anthology), II, a b 92, a 93; (Byzantine Historians), IV, b 544; (Zoroaster), XXIV, a b 859
AGATHO or Agathon, poet, I, b 248; (Drama), VII, b 350, *b* 351, a 352
AGATHOCLES, of Syracuse, tyrant, I, b 248; (Carthage), V, a 141; (Numismatics), XVII, a 655; (Sicily), XXII, a b 25; (Syracuse), b 855
Agathodæmon of Alexandria, geographer (Ptolemy), XX, b 100
Agathon, poem (Wieland), XXIV, *b* 590
Agathyrsians, people (Scythia), XXI, b 602
Agave, plant (Aloe), I, b 525; (Fibre), IX, a 116; (Horticulture), XII, b 270; (Mexico), XVI, a 226; (Yucatan), XXIV, a 796
Agaw, language. See Agow
AGDE, town, I, b 248-9
Agdistis, goddess (Galatia), X, b 18
AGE, I, a b 249; description of (Longevity), XIV, b 870; diseases of old (Pathology), XVIII, b 391-2 391-2; earth's (Geology), X, a b 202; (Tides), XXIII, b 402, b 404-5; pulse effects of (Vascular System), XXIV, b 113-4; scale (Population), XIX, a b 529; self-destruction by (Suicide), XXII, a b 664; of solar system (Tides), XXIII, b 406; of the Tide, XXIII, b 377, b 392, b 393, *a* 394
Age of Louis XIV. (Iron Mask), XIII, a 371; *of Reason* (Paine), XVIII, b 140, a b 141
Ageing (Calico-printing) (Ill.), IV, b 609, a 612
AGELADAS of Argos, sculptor, I, b 219; (Archæology), II, *b* 306; (Messene), XVI, b 57; (Phidias), XVIII, b 747
Agelastes bird (Guinea-Fowl), XI, a 235
AGELNOTH, archbishop, I, b 249-50
AGEN, town, I, a 250
——, dialect (Jasmin), XIII, b 604-5
Agenardus. See EGINHARD
Agency (Husband and Wife), XII, b 417; (Partnership), XVIII, a 335, a 336
AGENT, I, a 250-1; (Broker), IV, a 325; (Payment), XVIII, a b 451; defined (Bribery), IV, a 249
Agent del credere. See DEL CREDERE AGENT
Agents. See Factors
"Agents de Change," I, a b 251
Ager Falernus (Sessa), XXI, a 726
—— Gallicus, district (Italy), XIII, b 453; (Umbria), XXIII, *a* 771, a 772
—— publicus (Roman Law), XX, a 704; regal period (Roman Law), XX, *b* 690
Agershuus, fort (Christiania), V, b 597
Agesander, sculptor (Laocoon), XIV, a 293
AGÉSILAUS II., king, I, b 251; (Egypt), VII, a 645; (Greece), XI, *b* 92; (Persia), XVIII, a 589, a 591
——, conspirator (Agis IV.), I, a 253
Agesilaus (Xenophon), XXIV, b 757
Ageusia, disease (Taste), XXIII, b 86
Agger of Servius (Rome) (Il.), XX, b 831, a b 832
Aggeus. See Haggai
Agglomerate rocks (Geology), X, a b 278; (Geology), X, a 214
Agglutinative languages (Grammar), XI, b 35; (Mongols), XVI, a 776; (Philology), XVIII, a 788, a 793; (Turks), XXIII, a 704
Aggregate combinations (Mechanics), XV, a 272-4
AGGREGATION, states of, I, b 251-2
—— of protoplasm (Insectivorous Plants), XIII, b 141, b 142, a 143, a b 144
Aggtelek cave (Hungary), XII, a 376
Agha, title. See AGA
Agha Muhammad, sháh (Persia), XVIII, b 655, b 656, a b 657, a 658
Aghaboe, village (Queen's County), XX, b 177
Aghlabite caliphs (Arabia), II, b 227; (Mohammedanism), XVI, b 601, b 609; (Morocco), a 860, a 861
Aghrem Baba Saád, town, (Gardaia), X, a 69
AGHRIM, town, I, a 252; (Ginckell), X, a 538
Agiadæ dynasty (Greece), XI, b 84
Agias of Trœzen, poet, (Greece), XI, a 123
Agilulf, king (Lombards), XIV, *a* 824
AGINCOURT, town, I, a b 252
——, Jean Baptiste Louis George Seroux d', antiquary (Catacombs), V, a 181, *b* 187, *a* 188
AGIO, commercial term, I, b 252
AGIS, four kings of Sparta, I, b 252
—— II. (Sophocles), XXII, a 284
Agister, officer (Forests), IX, *b* 360
AGISTMENT, tithe, I, a 253; (Landlord and Tenant), XIV, a 278
Agisymba, region (Ptolemy), XX, b 100
"Agitators" or "Adjutators" (Charles I.), V, a 353
Aglaia, goddess (Graces), XI, b 24
Aglaophamus, Lobeck's (Mysteries), XVII, a 132
Aglaophon, painter (Archæology), II, a 309
Aglaura (Suckling), XXII, b 650
Agly river (Pyrénées), XX, *a* 134
Agminated glands (Digestive Organs), VII, b 197-8
Agmondesham. See Amersham
AGNANO, Lago d'. I, a 253
AGNATES, law-term, I, a 253; (Roman Law), XX, a b 691, note, a 692, b 705, b 706-7, b 709-10; jus naturale (Roman Law), XX, a 726, b 733; prætorian (Roman Law), XX, *a* 721
Agnes, empress and regent (Germany), X, b 437-8; (Henry IV., emperor), XI, a 595
——, cemetery of St. (Catacombs) (Ill.), V, 180, a b 184
Agnes Grey (Bronte), IV, a b 329, *a* 330
—— *von Hohenstaufen* (Spontini), XXII, a 447
AGNESI, Maria Gaetana, mathematician, I, a 253
AGNESI, Maria Teresa, musician, I, b 253
Agnew family (Wigtown), XXIV, *b* 595
Agni, deity (Brahmanism), IV, *b* 186, a 187, a 188; (Hestia), XI, *b* 698; (India), XII, a 280; (Mythology), XVII, a 145, a 147; (Sanskrit), XXI, a 289
AGNOETÆ, sect, I, b 253
Agnoiology, ignorance (Ferrier, J. F.), IX, a b 97
AGNOLO, Baccio d', architect, I, b 253
AGNOLO or Angelo da Siena, sculptor (Agostino), I, b 254
AGNONE, town, I, b 253; tablet (Italy), XIII, a 455
Agnosticism (Mansel), XV, a 505; (Philosophy), XVIII, a 808; (Scepticism), XXI, a b 400; (Theism), XXIII, a 253, a 264, b 265, a 266, b 269
AGNUS DEI, figure, I, a 254
——, anthem, I, a 254; (Agostino), I, a 255
AGOBARD of Lyons, archbishop, I, a 254
Agolanti, Sandro di Giovanni, artist (Glass), X, *a* 598
Agomey river (Dahomey), VI, a 674
Agona and Testaccio sports (Carnival), V, a 108
AGONALIA, festivals, I, a 254
AGONIC LINES, I, a 254
Agonistics (Athletæ), III, a 12; (Athletic sports), b 12

Agonostoma, genus (Mullet), XVII, b 24
AGONOTHETA, officer; I, a 254
AGORA, market-place, I, a b 254; (Greece), XI, a 84; (Olympia), XVII, b 791; Athens (Architecture), II, a 355, a 357; (Athens), III, a b 4, b 5, a 6, b 9; Roman (Athens), b 9
Agoracritus of Paros, sculptor (Archæology), II, b 311
AGORANOMOI, magistrates, I. b 254
AGORDO, town, I, b 254
AGOSTA, city, I, b 254
AGOSTINI, Leonardo, antiquarian, I, b 254
——, Niccolo degli, poet (Boiardo), III, b 749
AGOSTINO and AGNOLO DA SIENA, sculptors, I, b 254; (Siena), XXII, a b 44, b 49
——, Paolo, musician, I, b 254
——, Veneziano, engraver, (Marcantonio), XV, a 539
AGOUTI, mammal, I, a 255; (Mammalia), XV, a *b* 421, a 422
Agow language (Abyssinia), I, a 64; (Semitic Languages), XXI, b 687, note
AGRA, district, I, a 255
——, city, a 255; (India), XII, b 832, *b* 833, *a b* 834;
AGRAM, city, I, a 256; (Croatia), VI, *a b* 523; (Hungary), XII, b 379, b 380, b 381
Agraphia, disease (Aphasia), II, b 150
Agrarian agitations (Rome), XX, a 756, a 757, a b 776, a 778, a 780, a 782, b 783, a 784, a 785; banks (Italy), XIII, b 476
AGRARIAN LAWS, I, a 256–8; (Agriculture), b 260; (Cæsar), IV, a 564, a 565; (Nerva), XVII, a 362; Roman (Land), XIV, b 261–2
—— riots (Japan), XIII, a 588, b 594; (Ireland), XIII, a 276, b 277, a 278
AGREDA, town, I, b 258
Agreement (Contract), VI, b 286
Agret, town (Syr-Daria), XXII, a 860
Agri river. See Aciris
Agricola, Calphurnius, general (Scotland), XXI, b 494
AGRICOLA, Christoph Ludwig, painter, I, b 253
AGRICOLA, Cnæus Julius, general, I, b 258; (Antoninus, wall of), II, b 122; (Britannia), IV, a 319; (Caledonia), IV, b 588; (Domitian), VII, a 303; (Perth), XVIII, a 680; (Scotland), XXI, a b 493; general (Tacitus), XXIII, b 24, a 25; (Thule), b 349; (Vespasian), XXIV, *a* 208
AGRICOLA, Georg, mineralogist, I, b 258; (Chemistry), V, b 393; (Hazel), XI, b 490
——, Johann, theologian (Antinomians), II, *b* 114; (Germany), X, b 473; (Trent, council of), XXIII, a 581
AGRICOLA, Johann, Friedrich, musician, I, a 259
——, Martin, musician, (Pianoforte), XIX, a 74, a 87
AGRICOLA, Rodolphus, author, I, a 259; (Deaf and Dumb), VII, b 7; (Schlettstadt), XXI, a 434
Agricola of Tacitus (Hadrian, wall of), XI, a 327
Agricultural College (New Jersey), XVII, b 407; entomology (Locust), XIV, b 773; festival (Siam), XXI, b 893; implements (Patents), XVIII, a 877–8; (Sind), XXII, a 98; labor (Sunday), XXII, *a* 689; labor census (Paris) XVIII, a b 283; lands (New Zealand), XVII, b 481–2, note; plants (Asia), II, a *b* 606; products in Canada, IV, a b 685; in the United States (Patents), XVIII, b 884; Roman labor (Slavery), XXII, a b 144; Societies, I, b 270, a b 272; stage of progress (Archæology), II, a b 299; war exemptions (United States), XXIII, b 824–825
AGRICULTURE (Plates III–IX), I, 259–370
ANCIENT, b 259–61; classical, b 260; Egyptian, b 259; Jewish, a 260
barley, a b 319
books on, early, a 363–5
British, in 17th and 18th centuries, b 266–70; in 19th century, b 270–3
buildings, a 274–5
CATTLE, b 343–7; dairy, b 344; management, b 345; mountain, a 345; short-horns, b 343
clover, b 333-4
co-operation, a 369–70
crops, limited, b 337–41
DRAINAGE, b 292–9; acts, a 298; modern, b 295: preparation for, a 298; tools, a 297
external influences, b 273-4
fallowing, a 300–3
farmers, a b 362
farms, large, a 365; small, b 365–6
fences, b 275–6
forage, a 334-6
goats, a 354-5
grasses, a 329–333
harvesting, grain, a 322–3
haymaking, b 336-7
hogs, a 355-6
horses, b 341–3; cart, a 342; management, a 343
IMPLEMENTS, b 276–92; feed machines, b 290; grubbers, a 278; harrows, b 283; harvest, b 286–9; ploughs, a 277; rollers, a 284; sowing, a 285; steam-power, a 279–83, a 288; thrashing and winnowing, b 389–90; tillage, a 286
Index, 368
laborers, a 262, b 362–3
laws, early, b 265; 19th century, a 271
legislative duty, b 363–4
leguminous crops, b 320–1
MANURES, a 305–14
artificial, b 314; bones, a 309; concentrated, b 310; farmyard, a 305; guano, a 309; lime, b 311; liquid, b 305–8; mineral, b 311–14
AGRICULTURE, *continued*
MANURES
mediæval, b 261–3
métayage, a 368–9
oats, b 319-21
poultry, a b 356
peasant proprietors, a 367–8
reclamation of land, b 356–61
ROOT-CROPS, b 323–9; mangel-wurzel, a 327; potato, b 323; turnips, a 325
rotation, crop, a 303–4
seeds, b 340–1
SHEEP, b 347–54; management, lowlands, b 349; mountain, b 354; Tweed valleys, a 352
soils, a b 273
tenures of land, a 361–2
tillage, preparatory, a 299–305
vetches, a 334–5
wheat, a 315–9
wool, b 353-4

—— (Algeria), I, b 497; (Bhután), III, a 546; (Bombay), IV, b 21; (California), b 624–5; (Canada), IV, b 681–3, a 685; (Columella), VI, a 158; (Cork), a b 358; (Edinburgh), VII, a b 570; (Egypt), VII, b 613–14; (Fitzherbert), IX, b 237; (Forests), a 350, b 351; (France), a 458–9; (Free Trade), a b 663, b 664, a 665, a b 669, a 670; (Germany), X, a 405–6; (Greenland), XI, b 151; (Hartlib), *a* 446; (Holland), XII, a 70; (Horse), a 185; (Hungary), a 378, a 388; (Huntingdon), a b 413; (Iceland), a b 653; (Illinois), b 742, a 743; (India), b 770–1, b 772, a 785–93; (Japan), XIII, a 584, a 588; (Java), b 613-14; (Kansas), b 852; (Kentucky), XIV, b 45–6, (Madagascar), XV, b 172-3; (Madeira), b 178–9; (Malta), b 342; (Massachusetts), b 618; (Mesopotamia), XVI, b 54, a–b 55; (Mexico), b 226; (Mexico), b 910; (Morocco), b 859; (Poland), XIX, b 321–2; (Renfrew), XX, b 407–8; (Roumania), XXI, b 19, a b 20; (Russia), XXI, b 92-3; (Saxony), XXI, b 372-3, b 375; (Scotland), XXI, a 554-6; (Siberia), XXII, a b 14; (Spain), a 313-5; United States (America), I, a 624; (United States), XXIII, *a* b 876–8, a 880
—— ancient Chili (America), I, a b 615; ancient Peru (America), I, b 611; Aztec (Mexico), XVI, b 221; British (Corn Trade), VI, b 367–8; capital and (Land), XIV, a b 267, a b 268–9; corporate plunder of (United States), XXIII, a 835; depression of English (Protection), XIX, a b 937; development of (Land), XIV, b 260-1; history of (Ireland), XIII, b 225–35, a b 248; khil or jum system (Dehra Dun), VII, b 30; machine (Essex), VIII, b 488; mediæval (Ireland), XIII, b 261; National Society of (Paris), XVIII, a 287 note; statistics of (England), VIII, a 203–4; tariff effects on (Protection), XIX, a 934–5, b 939; trades and (Societies), XXII, a b 239; Von Thünen on (Political Economy), XIX, b 401; Young on, XXIV, b 793, a 794
Agriculture, Protection to (Ricardo), XX, b 549
Agri-dagh region (Transcaucasia), XXIII, b 546
AGRIGENTUM, city, I, a 370; (Carthage), V, b 140, *a* 141; (Greece), XI, *b* 85, a 94; (Minos), XVI, a 501; (Numismatics), XVII, a 655; (Phalaris), XVIII, b 743; (Rome), XX, a 766; (Sicily), XXII, *a b* 21, *a b* 22, *a* 23, *a* b 24, *a b* 25, *b* 26. See Akragas
AGRIONIA, festival, I, a b 370; (Dionysus), VII, b 216
Agrionidæ, insects (Dragon Fly), VII, b 333, *a b* 334, *b* 335, a b 336
Agrip, biographies (Iceland), XII, a 661
AGRIPPA, Herod, king of Judea, I, b 370
AGRIPPA, Herod, II., king of Chalcis, I, b 370
AGRIPPA, Marcus Vipsanius, general, I, a 371; (Milazzo); XVI, b 305; (Tiberius), XXIII, b 356, *a* 357
——, philosopher (Scepticism), XXI, b 397, a 398
AGRIPPA von Nettesheim, Henry Cornelius, physician, I, b 371–2; (Scepticism), XXI, b 399
—— Postumus, Cæsar (Tiberius), XXIII, a b 357, a 358
AGRIPPINA, the elder, wife of Germanicus, I, b 372; (Tiberius), XXIII, *a* 358
AGRIPPINA, empress, I, b 372; (Britannicus), IV, a 320; (Gold and Silver Lace), X, a 671; (Nero), XVII, *a b* 357, a b 358; (Seneca), XXI, b 690
—— Vipsania, wife of Tiberius, XXIII, b 356
——, Life of (Hamilton), XI, b 370
"Agro Romano" (Italy), XIII, a 461
Agroëca brunnea, insect (Arachnida), II, *b* 261, a 262
Agropyrum, species (Grasses), XI, a 49, a 53
Agrostideæ, family (Grasses), XI, b 52
Agrostis, genus (Grasses) (Ill.), XI, b 52
AGROTERAS THUSIA, festival, I, b 372
Agrumi, fruits (Italy), XIII, b 460
AGTELEK, village, I, b 372
AGUA, Volcano d', I, b 372; (America), b 595; (Geology), X, a 216

AGUADO, Alexander Maria, banker, I, b 372
Aguan, river (Honduras), XII, b 133
Aguarico, river (Ecuador), VII, a 560
AGUAS CALIENTES, town, I, b 372 3; and state (Mexico), XVI, a 223
Ague (Fever), IX, b 110; (Malaria), XV, a b 319, b 320; (Pathology), XVIII, b 403-5; line (Malaria), XV, 322
Aguesseau. See D' AGUESSEAU
AGUILAR, Grace, authoress, I. a 373
AGUILAR DE LA FRONTERA, town, I, a 373
Aguilas, port (Murcia), XVII, a b 58
AGUILLON or Aguilonius, François d', mathematician, I, a 373; (Stereoscope), XXII, b 565
AGUIRRA, Josef Saenz d', theologian, I, a 373
Agul river (Yeniseisk), XXIV, a b 779
AGULHAS, cape, I, a 373; bank, a 373; (Cape Colony), V, a 39; current (Indian Ocean), XII, b 861, note; (Navigation), XVII, b 284
Agulians, tribe (Lesghians), XIV, a 475
Agusan, river (Philippine Islands), XVIII, b 766
Agylla, city (Cære), IV, b 561. See CÆRE (Etruria), VIII, a 558
Agyris, tyrant, (Sicily), XXII, a 24
Aha of Seleucia, bishop (Syriac Literature), XXII, a 869
AHAB, king of Israel, I, a b 373; (Israel), XIII, b 416 -7; (Kings, Books of), XIV, *b* 87; (Moab), XVI, b 558
Ahaggar, plateau (Africa), I, a 224; (Sahara), XXI, b 157, *a* b 158
AHALA, Roman family, I, b 373-4
Ahalkalaki, town (Transcaucasia), XXIII, b 547
Ahams or Ahoms, race (Assam), II, a b 627, b 630; (India), XII, a 831; (Shans), XXI, b 809, b 810
Ahangirán, villages (Hindú Kúsh), XI, a 749
AHANTA, district, I, a 374
AHASUERUS, king, I, a b 374; (Artaxerxes), II, a 561; (Cambyses), IV, a 649
——, legend of (Jew, Wandering), XIII, a b 684, *b* 685
Ahasvérus, rhapsody (Quinet), XX, a *b* 190
AHAZ, king of Judah, I, b 374; (Isaiah), XIII, b 388, a 389; (Israel), a b 422, *a* 423
AHAZIAH, king of Israel, I, b 374; (Israel), XIII, a b 417
AHAZIAH, king of Judah, I, b 374
AHENOBARBUS, plebeian family, I, b 374
Ahírs, tribe (Máinpurí), XV, *a* 306
AHITHOPHEL, politician, I, b 374; (David), VI, b 739; (Israel), XIII, a b 415
Ahijah, prophet (Kings, Books of), XIV, *a* 86
Ahl· Hadr Arabs (Arabia), II, a 217-20
Ahma, el, plain (Galilee), X, *a* 26, b 27
Ahmad or Ahmed. See ACHMET
Ahmad, false prophet of Egypt, VII, a 664
—— pasha of Egypt, VII, a 660
AHMADABAD, district, I, a 375; city, I, a b 375; (Bombay), IV, *a* b 22
Ahmad el-Bedawee or al Badawí Seyyid (Egypt), VII, b 629, b 666; (Sunnites), XXII, a b 697
—— Ibn-Tooloon or Ahmed ben Túlún, governor (Egypt), VII, a 650; (Mohammedanism), XVI, b 608
Ahmad Khán, Afghan chief (Persia), XVIII, a b 654
—— Bahādur of Urdū, writer (Hindustani Lit.), XI, a 759
Ahmad Khursheed, pasha (Egypt), VII, *a b* 661
AHMADNAGAR, district, I, b 375-6; city, I, a 376; (Bombay), IV, a 22, *a* 23
Ahmad Sayyid, reformer (Hindustani Lit.), XI, b 758
Ahmed I., sultan (Achmet), I, b 91; (Turkey), XXIII, b 685
—— II., sultan (Achmet), I, b 91; (Turkey), XXIII, a b 687
—— III., sultan (Achmet), I, b 91; (Turkey), XXIII, b 687
—— ben Avis, sultan (Baghdad), III, a 202
—— Ibn Fadlan, ambassador (Khazars), XIV, a 61, b 62, a 63
—— Khan, Golden Horde (Mongols), XVI, b 774; (Russia), XXI, a 100
—— Pasha, vizier-poet (Turkey), XXIII, a 698
AHMED SHAH, Abdáli or Duráni, I, a 376; (Afghanistân), I, a 215, a 219; (Afghanistan), I, b 207, b 213; (India), XII, a b 846; (Kandahar), XIII, b 845, a 846; (Persia), XVIII, a b 654; (Punjab), XX, b 117
—— Abulla, of Cabul (Baluchistan), III, b 259
Ahnfrau, Die, play (Grillparzer), XI, *a* 175
Ahoms, race. See Ahams
Ahr group, rocks (Geology), X, b 302
—— river (Prussia), XX, a b 25; (Rhine), a 534, a 535
Ahrens, Heinrich Ludolf, philologist (Greece), XI, *b* 117, *a b* 118, a b 119, b 121
AHRIMAN, I, b 376; (Devil), VII, a b 118; (Fire), IX, b 201; (Ormuzd), XVII, b 882; (Theism), XXIII, a 257; (Zoroaster), XXIV, *b* 861
Ahrōn or Aaron, historian (Syriac Literature), XXII, a 892
Ahts, people (Mythology), XVII, *b* 155
Ahuachapan, town (San Salvador), XXI, b 281
Ahúdemmeh or Ahū dh'emmeh of Taghrith, bishop (Persia), XVIII, a 623, note; (Syriac Literature), XXII, a 876
Ahuitzotl, king (Mexico), XVI, a 218
Ahura or Ahurō Mazdāo, deity (Theism), XXIII, a 257; (Zoroaster), XXIV, b 860, *a* b 861, a 862. See ORMUZD
Ahus, village (Christianstad), V, a 610
AHWAZ, town, I, b 376
AI, city, I, b 376
——, king (Egypt), VII, a 640
——, mammal (Sloth), XXII, b 171
Aibughir gulf (Turkestan), XXIII, a 675
Aicheson, C. W., jurist (Treaties), XXIII, b 565
AIDAN, king, I, b 376
AIDAN or Aedan, St., bishop, I, a 377; (England, Church of), VIII, b 332; (English Bible), a 342; (Ireland), XIII, a 255, a 256; (Northumberland), XVII, a 583; (Scotland), XXI, a 498
Aidat Lake (Geology), X, a 222
AIDE-DE-CAMP, I, a 377; British (Army), II, a 506
AIDIN, town, I, a 377
AIDS, tribute, I, a 377
Aids to Reflection (Coleridge, S. T.), VI, b 123
Aigoual, mountain (Lozere), XV, a 33
Aiguille du Midi, mountain (Isère), XIII, a 396
Aiguillette, or Œillette, Pass of (Chartreuse), V, b 376
Aiguillon, Armand Vignerot Duplessis Richelieu, duc de (DuBarry), VII, b 426
——, Armand de Vignerot, duc de, governor of Brittany (La Chalotais), XIV, b 192, a 193
Aiken, town (South Carolina), XXII, b 301, b 302
AIKIN, John, author, I, a b 377; (Barbauld), III, *a* 313
AIKIN, Lucy, authoress, I, b 377; (Addison), I, a b 137
AIKMAN, William, painter, I, b 377
Ailanthus silk (Lai-yang), XIV, b 217; (Silk), XXII, b 66
Ailanthus tree (Arboriculture), II, b 280
Ailill Olum, king (Celtic Literature), V, a b 267; (Ireland), XIII, b 258
Ailly, Peter d', cardinal (Gerson), X, *a b* 491, *a* 492; (Mysticism), XVII, a 139; (Scholasticism), XXI, b 448
AILRED, Ealred, Ethelredus or Aluredus of Rievaux, historian, I, b 377; (Ninian), XVII, b 526
Ailsa, marquis of, hatcheries of (Salmonidæ), XXI, b 237
AILSA CRAIG, rock, I, b 377-8
Ailuropus genus (Mammalia) (Ill), XV, a 448
Ailurus, genus (Mammalia), XV, a 448
Aimak tribes (Mongols), XVI, b 776
Aimar or Aymar. See Adhémar
Aimé-Girard, physicist (Mediterranean), XV, b 829, *a* 830
Aiming (Shooting), XXI, b 872
AIN, country, I, a 378
—— river (France), IX, b 457; (Jura), XIII, b 790, *b* 791, *a* b 792; (Rhone), XX, a 543
AINAD, Arabian town, I, a 378
Aine-Cliach, kingdom (Limerick), XIV, a 656
Ainhardus. See EGINHARD
'Aini, historian (Tabarí), XXIII, a 9
Ainmire, king (Ireland), XIII, a 255
AINMÜLLER, Maximilian Emmanuel, painter, I, a 378
AINOS, Japanese tribe, I, a b 378; (Japan), XIII, a 579, a 591, a 596; (Saghalin), XXI, b 155; Dictionary of, VII, a 167
Ainslie lake (Cape Breton), V, a 37
AINSWORTH, Henry, divine, I, b 378; (Independents), XII, a 763
——, Michael, clergyman (Shaftsbury), XXI, b 768
AINSWORTH, Robt., lexicographer, I, a 379
Aintab, Syrian town, I, a 379
Aïn Zarba, town (Cilicia), V, b 679
AIR or Asben, African country, I, a 381; (Africa), I, b 230, a 234; (Oases), XVII, *a* 715
—— mountain (Sahara), XXI, b 157, *a* 158, *b* 159
AIR, fluid, I, a b 379; (Acoustics), a 94, *a b* 97; (Filter), IX, b 149; (Flight), b 269-70; (Hygiene), XII, b 601, *a* 602; (Respiration), XX, b 495-6, a b 499
—— balloons (Aëronautics), I, a 170; bladder (Ichthyology) (Ill.), XII, a 668, a 691, b 694-5; (Salmonidæ), XXI, *b* 231; blast (Forge), IX, b 363; brake (Railway) (Ill.), XX, b 259-60; cane (Air-gun), I, b 380; cells of lungs (Respiration) (Ill.), XX, a b 489; collieries, distribution of, VII, a b 67; composition of (Chemistry), V, b 441; contact force with (Electricity), VIII, b 80; diffusion through (Heat), XI, *b* 519, b 523; discharge from orifices (Hydromechanics), XII, a b 505; displacement of (Weights and Measures), XXIV, a b 506
AIR-ENGINE (Ill.), I, b 379-80
Air, exclusion of (Preserved Food), XIX, b 727-8; expansion of (Heat), XI, a *b* 512; (Hydromechanics), XII, b 503-4; fan govenors (Telescope) (Ill.), XXIII, a b 170
Air gas (Gas Lighting), X, a b 92; gas-engines and (Steam-Engine) (Ill.), XXII, b 549-53

AIR-GUN, I, a b 380; (Torpedo) (Ill.), XXIII, b 479
Air lock (Bridges) (Ill.), IV, *a* 294; mechanical action of (Geology), X, a b 253; pipes, flow in (Hydromechanics), XII, a 515–17; pressure, oblique (Hydromechanics), XII, a 548
AIR-PUMP, I, b 380–1; (Guericke), XI, a 218; (Mercurial Air-pump), XVI, a 35–6; condenser (Steam-Engine) (Ill.), XXII, b 538, a 539, a 540; improvement of (Papin), XVIII, b 232; invention of (Pneumatics), XIX, b 257, a b 258; (Manometer), XV, b 503
Air resistance (Gunnery), XI, a b 264, b 268, a b 269, a b 270; rock, changes in (Geology), X, b 234–7; sacs (Mammalia), XV, b 368; spring of (Elasticity), VII, b 697; stomata (Histology), XII, b 19; temperature of, at sea (Meteorology), XVI, b 122 *seq.*; thermodynamics of (Elasticity), VII, b 706, *a* 707; (Heat), XI, b 510–11
—— Thermometer, XXIII, b 309; (Heat), XI, b 500–1, b 502, a b 503, b 508; scales (Heat), XI, a b 504
Air, theory of (Anaximenes), II, a 4; (Diogenes of Apollonia), VII, a 214; traps (Barometer), III, b 329; vibration of (Hydromechanics), XII, b 478
Air and Fire (Scheele), XXI, b 404, a 405
Aira, genus (Grasses) (Ill.), XI, *b* 52
Airate or Erati, people (Cherokees), V, b 508
AIRAY, Henry, theologian, I, a b 381
Airchinnech, office of (Ireland), XIII, a 254
AIRDRIE, town, I, b 381–2
Aire, chief (Brehon Law), IV, b 225–6; (Clan), V, a b 698, a b 699; (Ireland), XIII, b 261, a b 262, a 264
AIRE, town, Landes, France, I, a 382
AIRE, town, Pas-de-Calais, France, I, a 382
AIRE, river, I, a 382; (York), XXIV, b 784, a 786
Airecht, court (Brehon Law), IV, a b 227
Aires, rank (Brehon Law), IV, b 225–6
Airolo, town (Ticino), XXIII, b 373
Airuk, mt. (Ural Mountains), XXIV, a 9
Airy, Sir George Biddell, astronomer (Arago), II, *b* 266; (Astronomy), II, a 708, b 717; (Barometer), III, b 334; (Clocks), VI, b 19–20, a 28; (Earth), VII, a b 518, b 520, a 526; (Geography), X, a 180; (Harbors and Docks), XI, b 407, a 422; (London), XIV, b 850 note, a 852; (Meteorology), XVI, b 185, b 187, b 191–2; (Micrometer), b 261; (Moon), a 828, a 829; (Optics), XVII, b 830; (Parallax), XVIII, b 254; (Persia), b 575; (Telescope), XXIII, b 156, a 161; (Tides), a 378, b 380, a 383, b 386, note, a 394, note, b 396, a b 397; (Trigonometry), b 605; (Trumpet), b 631
Airyanem væjo, country (Zoroaster), XXIV, a 860
Airy's white centre theory (Wave-Theory), XXIV, b 447–8, a b 455, note
Aisha, prophet's wife (Mohammedanism), XVI, b 575, a 587, a 625
Ai-sin Ghioro, legendary hero (China), V, a b 564, a 567
AISLE, in architecture, I, a 382
Aislinge (Celtic Literature), V, b 270–1
AISNE, department, I, a 382
—— river (Ardennes), II, *a* 423; (Marne), XV, *a* b 568; (Oise), XVII, *a* 771; (Seine), XXI, *a* 655
Ai Strati, island (Lemnos), XIV, a 437
Aistulf, king (Lombards), XIV, b 824–5; (Popedom), XIX, b 509; (Stephen II.), XXII, a 560
Aisumnetes, title (Greece), XI, b 85
Aitareya-Brâhmana (Festivals), IX, a 100; (Sanskrit), XXI, b 289, note
Aithech Tuatha, the (Ireland), XIII, b 250, note, a 251
Aitken, W., manufacturer (Brass), IV, b 195
Aitken's experiment (Pneumatics), XIX, a 259
—— screen (Thermometer) (Ill.), XXIII, a 311
AITON, William, botanist, I, b 382
AITZEMA, Leon van, historian, I, b 382
Ai-van hills (Hué), XII, b 347
AIX, city, I, b 382; (France), IX, a 466; (Granet), XI, b 43
—— fossil flora (Distribution), VII, a b 252
——, genus. See Æx
AIX-LA-CHAPELLE, city, I, a b 383; (Prussia), XX *b* 25, *a* 26; abbey of (Monachism), XVI, a 734; Congress of, 1818 (Metternich), XVI, b 209; (Tunis), XXIII, b 661; in 1748, VI, b 239; (Italy), XIII, a 495; congresses and treaties of, I, a b 383; council of, 816; (Monachism), XVI, b 733, a 734; thermal springs (Mineral Waters), b 452, b 454
AIX-LES-BAINS, town, I, b 382; (Mineral Waters), XVI, b 454; (Savoie), XXI, b 347, a 348
AJACCIO, town, I, b 383; (Corsica), VI, *b* 389
Ajài Pál, king (Garhwal), X, a 73
Ajaik Divani, council (Divan), VII, b 253
AJAN, country, I, b 383
Ajātasatru, rajah (Buddhism), IV, b 386, b 387
AJAX, hero, I, b 383
—— OILEUS, hero, I, b 383–4
Ajax, plants (Horticulture), XII, b 265
Ajax, play (Sophocles), XXII, b 285, *a b* 286, a 287
AJEHO, city, I, a 384
AJMÍR or Ajmere, district, I, a 384; (India), XII, b 782; (Rajputána), XX, b 271, a b 272, a 273
—— city, b 384; (India), XII, b 776
Ajodhyă, town (Faizádád), VIII, b 748, a b 749; (Oudh), XVIII, b 76
Ajuda, post (St. Thomas), XXI, b 210
Ajuga, plant (Botany), IV, b 107, b 108; (Horticulture), XII, a 257
Ajugari, Lucrezia, singer (Voice), XXIV, *a* b 295
AJURUOCA, town, I, a 385
Ajiveh, conserve (Arabia), II, a 207
Ak, textile fibre, IX, a 116
AKABAH, gulf, I, a 385; (Red Sea), XX, a 329
—— town, I, 385; (Turkey), XXIII, a 695
Aka-no-gawa, river (Japan), XIII, a 582
Akaroa, town (Canterbury), V, *a* 29
Akatzirs, race. See KHAZARS
Akas, tribe (India), XII, b 816
AKBAR or Akber, Jellaladin Mohammed, emperor, I, a b 385; (Abu), I, a 60; (Ajmir), I, b 384, a 385; (Asia), II, a 612; (Gaur), X, *a* 102; (Hindūstānī), XI, a 750; (India), XII, *b* 833–4; (Lahore), XIV, *a* 215; (Pánipat), XVIII, b 215; (Punjab), XX, *b* 116
Akbar Khan (Afghanistan), I, b 215
Akbar's fort (Agra), I, b 255; tomb (Agra), a 256
Akbar Nameh (Abulfazl), I, b 60
Akbarpur, town (Cawnpur), V, b 241
Akberi, Ayeen (Caste), V, b 166
Ak-dagh, Mt. (Asia Minor), II, b 615, b 617
Ak Deniz lake (Syria), XXII, b 860
Akcha district (Afghânistân), I, a 218
Aké, ruined city (Yucatan), XXIV, *b* 796, *a* 797
Akeman street (Oxford), XVII, b 97
Akems, tribe (Gold Coast), X, b 672, *a* 673
AKEN or Acken, town, I, b 385
——, Hein van, romancist, (Holland), XII, a 94
Akenia, plant (Dogwood), VII, b 297
AKENSIDE, Mark, poet, I, b 385–6
AKERBLAD, Jan David, antiquarian, I, b 386
Akerman, district (Bessarabia), III, b 531, a 532
AKERMAN, town, I, b 386
AKERMAN, John Yonge, antiquarian, I, b 386–7
Akermann, A. R., classification of (Iron), XIII, b 288
Akhaf, district (Arabia), II, *b* 209
Akhal oasis (Transcaspian), XXIII, a 545; (Merv), XVI, a b 46
Akhal-Tekke, provincial statistics (Russia), XXI, b 76, notes
AKHALZIKH or Akhaltsikh, city, I, a 387; (Transcaucasia), XXII, b 547
Akhbar, emperor. See AKBAR
Akhbárís, sect (Shi'ites), XXII, a 700
Akhdar, district and mountains (Arabia), I, a *b* 205, b 222
—— Jabel al, plateau (Tripoli), XXIII, a 612
AKHISSAR, town, I, a 387
Akhmeem or Akhmin, town (Egypt), VII; b 672. See EKHMIN
Akhsu, village (Shemaha), XXI, a 831
Akhtārs, signs of Zodiac, XXIV, b 831
Akhtuba river (Volga), XXIV, b 299–300
AKHTYRKA, town, I, a 387
AKIBA, Ben Joseph, Talmudist, I, a 387; (Bible), III, b 549; (Canon), V, b 4; (Israel), XIII, a *b* 438; (Midrash), XVI, a b 298
Akka, town. See Acre
——, dwarf race (Bushman), IV, b 513
Akkad, province (Mesopotamia), XVI, *a* 56. See Accad or Accadai
Akkár, Jebel, mt. (Lebanon), XIV, b 393
Ak-kum, steppe (Syr-Daria), XXII, *a* 859; (Turkestan), XXIII, b 674
Ak-metchet, settlement (Simferopol), XXII, a 85
Akmolinsk, provincial statistics (Russia), XXI, b 76
Akodah or Aquidah, town (Gold Coast), X, b 672
AKOLÁ, district, I, a 387; river, I, b 387; town, I, b 387; (Berar), III, b 503, a 504
Akot, town (Akola), I, b 387; (Berar), III, *b* 503
Akouk-toung, town (Irawadi), XIII, b 219
Akra, citadel (Jerusalem), XIII, b 651–2; mountain (Syria), XXII, b 860
—— or Ga *Dictionary*, VII, b 167
Akragas, city. See AGRIGENTUM
Akrobaṭ pass (Afghanistan), I, b 216
AKRON, Ohio, town, I, b 387
Akropong, town (Gold Coast), X, b 672, a b 673
Akrostomum, genus (Nemertines), XVII, a 336, b 337, a 339
Akrotiri peninsula (Canea), IV, a 711
Aksa, El, mosque (Jerusalem), XIII, a b 653
Aksai river (Gobi), X, b 635
Aksarai river (Afghanistan), I, b 216
Aksĕnāyā of Mabbōgh, bishop (Syriac Literature), XXII, b 872–3
Ak Serai, town (Cappadocia), V, b 67
Ak-shiriyak mountains (Syr-Daria), XXII, b 857
AK-SU, town, I, a 388; (Turkestan), XXIII, *a* b 680, a 681
Aksú-Bártang, river (Oxus), XVIII, a 107
Aksúm kingdom (Semitic Languages), XXI, *b* 686, a 687; inscription (Yemen),

XXIV, b 776, a 777. See AXUM
Akuamu, country. See Aquimbo
AKYAB, district and town, I, a 388; (Arákán), II, *a* b 268
ALABAMA, State (Map Plate), I, a 388–9; history (United States), XXIII, b 809, b 811, *b* 821, *b* 831; (Slavery), XXII, b 907; statistics (United States), XXIII, b 853, a 856, a 858, *a b* 859, a b 860, a 861, a 863, *b* 864, a *b* 872, *a* 878; (Universities), XXIII, a 913, a 953, b 960
—— chamber (Geneva), XI, a 132; claims (Seward), XXI, b 744 note; (Waite), XXIV, b 879; ores (Iron), XIII, b 292; river, I, a b 388; tertiary group (Geology), X, *a* b 324
"Alabama," privateer (Semmes), XXI, b 916; (United States), XXIII, b 826
Alabandine (Mineralogy), XVI, b 408
ALABASTER, stone, I, b 389–90; (France), IX, b 461; (Gypsum), XI, b 313; (Marble), XV, b 536; (Mineralogy), XVI, b 417; (Sculpture), XXI, b 585, a 587; building stone (Rome), XX, b 826; glass (Glass), X, b 594; oriental (Marble), XV, b 536; vessels (Spikenard), XXII, a 414 note
ALABASTER, Wm., poet, I, a 390
Alabastrus, bud (Botany), IV, a 118
Al 'Abbás, chief (Mohammedanism), XVI, a 575
Alabuga river (Syr-Daria), XXII, b 857
Alacalufs, tribe (Tierra del Fuego), XXIII, b 410
Alachua Sink (Florida), IX, b 296
Alachun Dagh, mountain (Caucasus), V, b 221
ALACRANES, islands, I, a b 390
Alactaga, genus (Mammalia), XV, a 425
Ala-dagh, mountains (Asia Minor), II, a *b* 616, b 617; (Bithynia), III, b 688; (Galatia), X, b 18; (Khorásán), XIV, *b* 68
Aladdin and the Lamp (Thousand and One Nights), XXIII, b 338
Alafin, title of king (Yoruba), XXIV, *a* 792
Alaghez or Alaghöz mountain (Sulphur), XXII, b 667; (Transcaucasia), XXIII, *b* 546
Al-Aghlab, general (Mohammedanism), XVI, b 601. See Aghlabites
ALAGOAS, province, I, b 390; (Brazil), IV, a 202, b 210, *b* 212; town, I, b 390
Alāhā-zĕkhā, historian (Syriac Literature), XXII, a 887
Alai plateau and range (Oxus), XVIII, b 106; (Siberia), XXII, *a* 7; (Turkestan), XXIII, b 673
Alaid, volcanic island (Kurile islands), XIV, a 161
ALAIN DE LILLE, theologian, I, b 390; (Scholasticism), XXI, b 443 note
ALAIS, French town, I, b 390; coal (Iron), XIII, a 299; synod of, 1629 (Turretin), XXIII, b 712
Alaja, town (Cilicia), V, b 678; (Seljuks), XXI, *a* 669
ALAJUELA, city, I, b 390
Alaknandá river (Garhwal), X, b 72; (Himalaya), XI, b 745
Ala-kul, lake (Semiryetchensk), XXI, b 672
Alalála, songs (Portugal), XIX, a 570
Alaleoni, Angelo, senator (Rome), XX, a 821
Alalite (Mineralogy), XVI, a 434
Alam Sháh, emperor (Delhi), VII, b 41–2, b 43; (Hastings), XI, a 459
Alamance, battle of, 1771 (North Carolina), XVII, b 575; (Tryon), XXIII, b 946
ALAMANNI or Alemanni, Luigi, poet, I, b 390
Alamannorum Lex (Salic Law), XXI, a 225
Alambágh, garden (Lucknow), XV, b 51–2
Alameda (Granada City), XI, a 41
Al-Amin caliph (Al-Mamun), I, a 519
Alamo, town (San Antonio), XXI, *a* 267
ALAMOS DE BARRIENTOS, philologist, I, a 391
ALAMOS, Los, town, I, a 391
Alamut, fortress (Assassins), II, a 632
——, king (Persia), XVIII, a 645, a 646
——, Allamur, or Alwung Bey, ruler (Persia), XVIII, a 645
ALAN, William, cardinal, I, a 391
ALAND ISLANDS, I, b 391; (Baltic), III, a 254, a 255, a 256
Alane, theologian. See ALES
Alang grass (Sumatra), XXII, a 673
ALANI, tribes, I, b 391; (Huns), XII, a 396; (Persia), XVIII, a 605, b 613
Alankâra-sastra or rhetoric (Sanskrit), XXI, a b 308
Alantika mountain (Adamawa), I, a 129; (Africa), I, b 225; (Sokoto), XXII, a 261; (Soudan), b 290, a 291, b 292
Alanus ab Insulis, cardinal. See ALAIN DE LILLE
Alàotra Lake (Madagascar), XV, a 170
Alāra, teacher (Buddhism), IV, a b 383
Alarcon, Hernando de, navigator, I, b 391–2; (California), IV, b 615
ALARCON Y MENDOZA, Juan Ruiz de, dramatist, I, a 392; (Drama), VII, b 364; (Spain), XXII, a 373
Alard, William, poet (Hymns), XII, a 620
ALARIC, I, chief, Gothic king, I, a b 392; (Athens), III, b 10; (Goths), X, b 754–5; (Greece), XI, b 100; (Innocent I.), XIII, a 89; (Rome), XX, a b 798; (Spain), XXII, b 322–3
ALARIC II. king in Spain, I, b 392–3; (Goths), X, *b* 755, b 756; (Poitiers), XIX, 294; (Salic Law), XXI, a *b* 226, a 227; (Spain), XXII, b 323
Alarm boxes (Fire), IX, b 206; clocks, IV, b 24
"Alarm," vessel (Yatching), XXIV, a b 759
Alas, strait (Lombok), XIV, b 825
ALASCO, John, reformer, I, a 393
ALA-SHEHR, city, I, a 393
Alashkert plateau (Transcaucasia), XXIII, b 546
ALASKA, U. S. territory (Plate), I, a 393–4; (Aleutian Islands), a 425; (Finch), IX, a 168; (Fire), IX, b 198; (Otter), XVIII, b 73; (Seal), XXI, *b* 610; (United States), XXIII, a 840
——, acquisition of (United States), XXIII, b 830; Commercial Company (Pisciculture), XIX, a 135; (Seal), XXI, b 610; (Birds), III, a b 652–3; fauna (Distribution), VII, a 239; statistics (United States), XXIII, a b 853, b 868
Alastor, the Spirit of Solitude (Shelley), XXI, b 828
Alas-tu, peak (Tomsk), XXIII, a 466
Ala-tau mountains (Asia), II, a 600; (Semiryetchensk), XXI, *b* 672; (Yeniseisk), XXIV, a 780
ALATRI, town, I, a 394
Alauda, bird (Lark) (Ill.), XIV, a 315–7
Alaudidæ or Larks (Ornithology), XVIII, b 34, note, a 51
Ala-ud-din, Ghuri sultan (Delhi), VII, a 43; (Ghazni), X, b 501, *a* 502; (Ghúr), a 509
——, Seljúk sultan (Turkey), XXIII, a 681
Alaun heights (Pskoff), XX, a 40
Alauna, genus (Crustacea), VI, b 582
ALAVA, province, I, a 394; (Spain), XXII, b 312, b 318
ALAVA, Don Miguel Ricardo d', general, I, a 394
Alaw, town (Bornu), IV, a 55
ALAY, ceremony, I, b 394
Alazañ or Alazun river (Caucasus), V, a 222; (Transcaucasia), XXIII, a 546; (Georgia), X, b 387, b 389
Al Azhar mosque (Cairo), IV, a b 573
ALB or Albe, vestment, I, b 394; (Costume), VI, b 408
Alba, duke of. See ALVA
——, country (Celtic Literature), V, *a* 272
ALBA, town, I, b 394
——, song (Provençal Literature), XIX, b 900
ALBACETE, province, I, b 394–5; (Spain), XXII, b 312, a 313, a 317
——, town, I, a 395
Albaicin, faubourg (Granada), XI, a 41
Albacore or albicore, fish (Tunny), XXIII, b 665, a 666 note
ALBA LONGA, town, I, b 394; (Horatii), XII, *b* 169; (Latium), XIV, a 345; (Penates), XVIII, b 499, a 500
Albam, cipher (Kabbalah), XIII, a 822
Alban hills (Italy), XIII, a 448, a 452; (Jupiter), XIII, a 790; (Latium), XIV, a 344; (Rome), XX, a b 824, b 825
——, lake (Latium), XIV, a 344
ALBAN, Saint, martyr, I, a 395
Albana, city (Derbend), VII, a 92
Albani, Alessandro, cardinal (Winckelmann), XXIV, a 629
ALBANI or Albano, Francesco, painter, I, a b 395; (Reni), XX, *b* 408
—— Giovànni Francesco. See POPE CLEMENT XI.
—— collection, sculptures, (Rome), XX, a 859
ALBANIA in Asia, I, a 397
ALBANIA in Europe, I, b 395–7; (Ali Pasha), *b* 505; (Greece), XI, b 111
——, kingdom (Scotland), XXI, a 495, b 499, b 500
Albaniæ Pylæ (Caspian Sea), V, b 154
Albanian *Dictionaries*, VII, a 164; insurrection (Scanderbeg), XXI, b 381; language (Philology), XVIII, a 798; troops (Egypt), VII, a 660–2
Albanians, people (Fire), IX, a 200, a 201 note; (Greece), XI, *b* 75–6, a 79, b 109; (Hahn, J.G.), b 333; (Illyria), XII, b 748
Albano, artist. See ALBANI
ALBANO, town and lake, I, a 397
Albanus Lapis, stone (Rome), XX, *b* 825
—— Mount (Albano), I, b 397; (Italy), XIII, a 452
Albany, town (Georgia), X, a 391, b 393
——, New York, city, I, b 397; (Libraries), XIV, b 534, b 552; (New York), XVII, b 467, b 469, b 471
—— regency, junto (Marcy), XXIII, a 839; (Tammany Society), b 920; (Van Buren), XXIV, a 63, note; (Wright), b 727, note
——, town (Grahamstown), XI, b 31; (Western Australia), XXIV, a 535, *b* 536
——, duchess of, natural daughter of Charles Edward, V, b 370
——, Alexander Stuart, duke of (James III., Scotland), XIII, b 566; (Scotland), XXI, a 516, note, *a b* 517
——, Leopold George Duncan Albert, duke of, died 1884 (Golf), X, b 681
——, John Stuart, duke of, regent (Douglas), VII, a 326; (James V., Scotland), XIII, a 567; (Scotland), XXI, *b* 517, *b* 519, *a b* 520
ALBANY, Louisa Maria Caroline, of Stolberg, countess of, I, b 397; (Alfieri), *a* 444; (Charles Edward), V, b 370; (Sismondi), XXII, a 107
——, Murdoch, second duke

of (Scotland), XXI, a b 514
ALBANY, Robert Stuart, earl of Fife, and first duke of, regent (James I., Scotland), XIII, a b 565; (Scotland), XXI, *b* 512, *a b* 513–14
Albarine, river (Jura), XIII, a 792
Albarracin, district (Spain), XXII, b 307, a 308
ALBATEGNI, Al-Batinee, Al-Battáni, or Bategnius, astronomer, I, b 397–8; (Arabia), II, b 231; (Astronomy), a b 656; (Chronology), V, *a* 621; (Trigonometry), XXIII, b 596
ALBATROSS (Ill.), I, a b 398; (Birds), III, b 615, a 626; (Flight), IX, a 276, note; (Mallemuck), XV, *a* b 337
"Albatross," steamer (Smithsonian), XXII, *a* 916
ALBAY, town, I, b 398
Albe, vestment. See ALB
Albazin, fort (Amoor), I, a 655
Albemarle, duke of. See George MONK
——, George Thomas Keppel, earl of (Cuba), VI, a 600
—— island (Galapagos Islands), X, *b* 17
——, town. See AUMALE
Albenses, populi, league (Latium), XIV, a 345
Alberche river (Spain), XXII, b 308
Alberic of Camerino, adventurer (Rome), XX, a 805
—— III., eminentissimus consul (Rome), XX, a 808
——, Lord of the Romans (Rome), XX, *b* 805–6
ALBERONI, Giulio, cardinal I, b 398–9; (Charles XII.), V, b 365; (Orleans), XVII, *a* 877; (Spain), XXII, *a b* 351
Albert. See Albrecht and Albret
—— mount (Cameroons), IV, a 656
ALBERT, dukes of Austria, I, *a* b 399
ALBERT I., of Austria, emperor, I, a 399; (Austria), III, b 108; (Germany), X, a 443; (Rosh), XX, a 875 note; (Switzerland), XXII, *b* 821; (Tell), XXIII, b 171
——II., emperor and V. of Austria, I, a b 399; (Austria), III, b 108; (Germany), X, b 444–5; (Hapsburg), XI, b 405; (Hungary), XII, a 383
Albert II., Wise, duke of Austria, III, b 108; (Hapsburg), XI, b 405
—— III., duke of Austria, III, b 108; (Switzerland), XXII, a 823
—— V., duke of Austria. See ALBERT II., emperor
—— VI., Austria, Prodigal, archduke (Frederick IV.), IX, *a* 645
——, cardinal, archduke of Austria and Low Countries (Belgium), III, a 454; (Holland), XII, a 81
—— Frederick Rudolph, archduke (Hungary), XII, *a* 388
Albert I., Bavaria (Holland), XII, b 75
—— V. Bavaria (Libraries), XIV, a 526
ALBERT I., margrave of Brandenburg, "The Bear," I, b 399; (Germany), X, *b* 439; (Prussia), XX, b 6
—— III., Achilles, Brandenburg, margrave and elector (Prussia), XX, *b* 8
ALBERT of England, Prince Consort, I, a 400–1; (Balmoral Castle), III, b 252; (Copyright), VI, b 319; (Duel), VII, a 444; (Helps), XI, b 571; (Protection), XIX, a 930, a 938
—— of Hapsburg, the Rich, count, XI, a 405
—— of Hapsburg, the Wise, XI, b 405
—— Mecklenberg, king of Sweden, XXII, *b* 784, a 785
ALBERT of Mentz, cardinal, I, a 400; (Luther), XV, b 77, a 80; (Reformation), XX, b 338
ALBERT I., duke of Prussia, I, b 399–400; (Prussia), XX, b 10; (Universities), XXIII, b 900
—— of Munich, photographer, XVIII, b 845–6
—— of Saxony, king, XXI, a 372
—— of Saxony, founder of Albertine line, XXI, *a* 469; (Frisians), IX, b 692
—— of Saxony, prince, died 1822 (Teschen), XXIII, a 216
——, schoolman (Aëronautics), I, b 168; (Scholasticism), XXI, b 448
—— of Stade, poet (Romance), XX, b 654
—— of Vercelli, patriarch (Carmelites), V, *a* 103
Albert Edward of Wales, prince (Golf), X, b 681
Albert dock (Hull), XII, b 354–5; embankment (London), XIV, a 832; Memorial Hall, London (Architecture), II, a 367; (Gold), X, a 670; (London), XIV, b 849; Memorial Chapel (Windsor), XXIV, *a* 633; sprouts, vegetable (Horticulture), XII, b 291; Suspension Bridge (London), XIV, b 832
Albert Edward mountain (Vancouver), XXIV, a 64
ALBERTI, Leon Battista, painter, I, a b 401; II, b 382; (Italy), XIII, a 519; (Rimini), XX, b 572, a 573
Albertia, animalcule (Rotifera), XXI, b 11
Albertine house, rise of (Saxony), XXI, *a* b 369, b 374
Albertine pamphlets (Political Economy), XIX, b 369
Albertini, Ippolito Francisco, physician (Medicine), XV, a 824
——, Johann Baptist von, bishop (Switzerland), XXII, a 838
Albertis, Signor D', navigator (New Guinea), XVII, a 396
ALBERT NYANZA Lake, I, a 401; (Africa), a 222, b 225, b 226, a 229; (Nile), XVII, b 518–9, *b* 521
ALBERTRANDY, Jan Chrzciciel, historian, I, b 401
Albert's process (Photography), XVIII, b 845–6
ALBERTUS MAGNUS, philosopher, I, b 401–2; (Aëronautics), a 168; (Alchemy), a 411, a 414; (Ammoniac, Sal), a 650; (Aquinas), II, b 201; (Arabian Philosophy), II, b 236; (Automaton), III, a 124; (Bacon), III, a b 189, note,; (Crystallography), VI, b 594; (Ethics), VIII, b 522; (Evolution), a 664; (Freemasonry), IX, b 657; (Germany), X, a 468; (Gunpowder), XI, b 282; (Monachism), XVI, b 736; (Morphology), a 864; (Ornithology), XVIII, a b 7, note; (Phrenology), b 857; (Physiognomy), XIX, a b 8; (Scholasticism), XXI, b 435, b 436, b 444, *a* b 445–6
Albertville, town (Savoie), XXI, a 348
ALBI city, I, a 402; (Tarn), XXIII, *b* 71
Albicore or Albacore, fish (Tunny), XXIII, b 665, a 666 note
ALBIGENSES, sect, I, a 402; (Allix), I, b 516; (Dominic), VII, b 306; (Ferdinand III., Castile), IX, b 71; (France), a 478, a 479; (Inquisition), XIII, a 99; (Languedoc), XIV, a b 288; (Monachism), XVI, b 736; (Montauban), a 804; (Montfort), b 813; (Reformation), XX, *b* 334–5; (Waldenses), XXIV, a b 344
Albigularis, species (Zosterops), XXIV, b 803
Albin, resin (Gutta Percha), XI, b 302
——, Eleazar, artist (Ornithology), XVIII, a 9; artist (Touraco), XXIII, a 518 note
Albinism, disorder (Skin Diseases), XXII, a 130
ALBINO, freak of nature, I, b 402; (Anatomy), I, a 779; (Gold fish), X, b 675
Albinovanus, Caius Pedo, poet (Martial), XV, b 587
ALBINUS, Bernard Siegfried, anatomist, I, a 403; (Anatomy), b 713, *b* 714
—— Clodius, tyrant (Rome), XX, b 794; (Severus), XXI, *a b* 732, b 733
—— Flaccus. See ALCUIN
——, Spurius, consul (Jugurtha), XIII, b 776, a 777
Albion printing press (Typography) (Ill.), XXIII, b 750, a 751
Al-Birúni, traveller (Gilgit), X, a 530
Albite (Mineralogy) (Ill.), XVI, b 375, b 380, a 381, b 384, b 436, b 437
Albizzeschi, St. Bernardino (Bernard), III, b 521; (Siena), XXII, b 48. See BERNARD
Albizzi, family (Florence), IX, a b 293; (Italy), XIII, b 489; (Medici), XV, a 794–5
Albo-Carbon gas (Tar), XXIII, b 64
ALBOIN, Lombard king, I, a 403; (Italy), XIII, *a b* 478; (Lombards), XIV, a 823; Lombard (Milan), XVI, b 304; (Narses), XVII, b 240, note
Alboran Island (Mediterranean Sea), XV, a 829
ALBORNOZ, Gil Alvarez Carillo d', cardinal, I, a 403; (Rimini), XX, b 571; (Rome), *b* 818, a *b* 819
Albrecht. See ALBERT
——, Jacob, divine (Evangelical Association), VIII, b 636
ALBRECHTSBERGER, Johann Georg, musician, I, b 403
Albrechtsburg Castle (Meissen), XV, *b* 840
Albret, Henri d', King of Navarre (Marguerite de Valois), XV, *b* 545
——, Jean d', king (Navarra), XVII, b 256
Albucasis. See ABULCASIM or Abulcasis
ALBUERA, village, I, b 403; battle of 1811 (Hardinge), XI, a 424
Albufera, duke. See SUCHET
ALBUFERA DE VALENCIA, lake, I, b 403; (Spain), XXII, b 309
ALBUM, I, b 403
ALBUMAZAR, astronomer, I, a 404
ALBUMEN, organic compound, I, a 404; (Abattoir), I, b 14; (Botany), IV, b 140–1; (Calico-printing), b 613, b 614; (Cookery), VI, *a b* 295; food relations of (Gelatin), X, *b* 118; process on glass (Photography), XVIII, a b 837
Albuminoid (Chemistry), V, b 502–3; (Gelatin), X, *b* 117; (Histology), XII, b 12; (Nitrogen), XVII, b 533; (Nutrition), b 695
Albuminous degeneration of protoplasm (Pathology), XVIII, b 398
Albuminuria, disease (Pathology), XVIII, a 395–6, b 397, a 399
Albuquerque, duke of. See CUEVA
ALBUQUERQUE, Spanish town, I, a 404
—— (New Mexico), XVII, a 411 note, a 412
ALBUQUERQUE, Alphonso d', naval officer, I, a b 404; (Almeida), b 521; (Geography), X, *a* 162; (Goa), b 629; (India), XII, *a* 836; (Ormus), XVII, b 881
——, Joâo d', bishop of Goa (Xavier), XXIV, a 753, a 754
Alburnum, sap-wood (Botany), IV, b 89, a 90
Alburquerque or Albuquerque, Juan Alonso de, statesman (Pedro I.), XVIII, a *b* 461
Albury, village (Surrey), XXII, b 729, a 730
Alburz mountains (Persia), XVIII, b 630, b 631, a 633, b 637
Alca, genus of birds (Garefowl), X, a 71–2; (Loom), XV, b 4; (Razorbill), XX, a 315, note
Alcabalas, excise (Mexico), XVI, a b 901, a 904
ALCÆUS, poet, I, b 404–5; (Greece), XI, b 117, b 124; (Sappho), XXI, b 317

ALCAICS, metre, I, a 405; (Horace), XII, a 169
ALCAIDE or Alcayde, official, I, a 405
ALCALA DE GUADAIRA, I, a 405
—— DE HENARES, city, I, a 405; university of (Jimenes), XIII, a 705
—— LA REAL, town, I, a 405
——, Pedro de, grammarian (Semitic Languages), XXI, a b 685, note
ALCALDE, magistrate, I, b 405; (Fuero), IX, a 711
Alcmæonidæ, clan (Greece), XI, a b 87, *a* 88
ALCAMENES, sculptor, I, b 405; (Archæology), II, b 311, a 313
ALCAMO, city, I, b 405
ALCANTARA, town, Brazil, I, b 405
ALCANTARA, town, Spain, I, b 405
ALCANTARA, Knights of, I, b 405–6; (Ferdinand II., Leon), IX, a 71
—— river (Etna), VIII, *a* 552
—— valley (Lisbon), XIV, b 695
ALCARAZ, town, I, a 406
Alcarrazas ware (Andujar), II, a 23; (Filter), IX, b 146
Alcatraz island (San Francisco), XXI, b 274
ALCAVALA, tax, I, a 406; (Spain), XXII, b 334, b 340, b 348
Alcayde. See ALCAIDE
Alcazaba, fortress (Alhambra), I, a 503
Alcázar, palace (Segovia), XXI, a 654; (Seville), b 742
ALCAZAR DE SAN JUAN, town, I, a 406
—— KEBIR, city, I, a 406
—— -quivir or Alcácer Quiber, battle of, 1578 (Camoens), IV, *a* 662; (Portugal), XIX, a b 562
Alce, town (Alcazar de San Juan), I, a 406
Alcedinidæ family (Kingfisher), XIV, a b 84
Alcedo, birds (Kingfisher), XIV, b 83, *a b* 84
Alcelaphus, species (Hartē Beest), XI, b 443
Alceste, opera (Gluck), X, a *b* 619
ALCESTER, town, I, a 406; (Warwick), XXIV, b 400
ALCEŠTIS or Alceste, heroine, I, a 406
Alcestis, play (Euripides), VIII, a 592
Alcharesmius, geographer (Map), XV, a 525. See Mohammed ben Musa of Khiva
Alchemilla, plant (Botany) (Ill), IV, a b 124, a 131
ALCHEMY or Hermetics, I, a 406–14
    Arabian, a 410–1
    bibliography, b 413
    defined, b 406
    cosmogonies and philosophies, b 407
    etymologies, a 414
    Middle Ages, a 411–2
    Paracelsus, a 412
    the sacred art, b 408–11
—— Aëronautics, I, b 168; (Boyle), IV, a 167; (Chemistry), V, *a* b 398; (Flame), IX, a b 249; (Geber), X, b 112–3; (Helmont), XI, b 569; (Hermes Trismegistus), *b* 671; (Mercury), XVI, b 36; (Mohammedanism), XVI, a 619; (Newton), XVII, b 460
Alcherius, Jehan, *MS.* of (Dyeing), VII, b 493
Achornea ilicifolia, tree (New South Wales), XVII, b 420
Alchuku, city. See AJEHO
ALCIATI, Andrea, jurist, I, a 414
ALCIBIADES, general, I, a b 414; (Games), X, a 58, a 59; (Genealogy), X, b 127; (Greece), XI, *a* 92; (Isocrates), XIII, b 402; (Persia), XVIII, a b 587; (Socrates), XXII, a 244, *a* b 247, a 248; busts of Hermes and Andocides, II, a 18; in the *Symposium* (Plato), XIX, b 212
Alcidæ, family (Birds), III, b 671, a 672; (Guillemot), XI, a 233; (Ornithology), XVIII, a 49; birds (Puffin), XX, a b 107
Alcidamas, politician (Sophists), XXII, b 278
Alcimus, high-priest (Israel), XIII, a *b* 432–3
ALCINOUS, king, I, a 415
ALCINOUS, Platonist, I, b 414–5
Alcionius. See ALCYONIUS
Alciope, genus (Annelida), II, *a* 60
ALCIPHRON, Greek-writer, I, a 415; (Romance), XX, a 652
Alcippe, nymph (Ares), II, b 427
ALCIRA, town, I, a 415
Alcluyd, town (Dumbarton, town), VII, a 453
Alclyth or Alclyde, city (Scotland), XXI, b 495, a b 496, *b* 497, a 498, a 499, b 500
Alcmæŏn, legend of (Callirrhoe), IV, a 628
ALCMAN or Alcmæon, poet, I, a 415; (Greece), XI, b 118, b 119, b 124; MS. of (Palæography), XVIII, a 151
ALCMENE, heroine, I, a 415; (Hercules), XI, a 649
ALCOCK, John, bishop, I, a b 415
——, Sir Rutherford, traveller (Japan), XIII, a 581, note
ALCOHOL, I, b 415–7
    physiological effects, b 416
    properties, b 415
    synthesis, a 416
—— (Baking), III, a b 219; (Dietetics), VII, b 177, a b 178, a b 179; (Distillation), a b 228, b 229–31; (Diuretics), b 253; (Drunkenness), b 416–7; (Dyspepsia), b 507; (Fermentation), IX, a b 81, *a b* 82; (Fever), *a* 111; (Fig), b 135; (France), b 460; (Fuel), a 709; (Fusil Oil), *b* 749–50; (Gout), XI, a *b* 8; (Insanity), XIII, a 109, b 110, b 115; (Italy), b 465; (Lactic Acid), XIV, a 197
——, Methyl, XVI, a 203–204; (Varnish), XXIV, b 99
——, constitution of (Liebig), XIV, *b* 569–70; dehydrogenetum (Chemistry), V, a 492; effects of (Suicide), XXII, b 664; formulæ of (Chemistry), V, a b 474; propyl, isomerism of (Chemistry), V, a 477; pseudopropyl (Chemistry), V, b 490; refraction of (Optics), XVII, b 824; salicylic (Salicin), XXI, b 222; Silicon (Chemistry), V, a 454; surface tension of (Capillary Action), V, a 59;
—— Thermometer, XXIII, b 308, b 309; (Heat), XI, *b* 501, *a* 502, note; scale (Heat), XI, a 504
Alcoholates (Graham, T.), XI, a 31
Alcoholic liquor (Mexico), XVI, a b 910; (Agriculture), I, a 319; (Typhus), XXIII, a 720; substitute for (Hops), XII, b 161; tax on (Finance), IX, a 166
Alcoholism, disease (Delirium), VII, a b 45; (Drunkenness), VII, b 416–7 (Paralysis), XVIII, a 262; (Pathology), b 396, a 397, a 398, a b 408, b 417
Alcoholometer (Hydrometer), XII, a b 572
Alcohols (Chemistry), V, b 479, a 487–90; amine (Chemistry), V, a b 499; odor of (Smell), XX, b 177; sulphur group of (Chemistry), V, b 491–2
ALCOY, city, I, a 417
Alcubierre, D. Rocco de, engineer (Herculaneum), XI, b 647, a 649
Alcudia, bay and port (Balearic Islands), III, a b 239, a 240
ALCUDIA, Manuel de Godoy, duke of, statesman, I, a b 417. See GODOY
ALCUIN, or Albinus Flaccus, or Alcwin, theologian, I, b 417; (England), VIII, a 255; (English Literature), a 363; (Libraries), XIV, a 512; (Monachism), XVI, b 733, a 734; (Palæography), XVIII, a 164; (Scholasticism), XXI, a 435, a 438; (Sunday), XXII, b 688; (Tours), XXIII, b 522; (Universities), b 887; (Willibrord), XXIV, b 618, *a* 619; (York), b 789
Alcyonaria, order (Corals), VI, a b 334, a 337, b 339, a 340, a 341–3
Alcyonella, genus (Polyzoa), XIX, a 446, b 451
Alcyonidæ, family (Actinozoa), I, b 120; (Corals), VI, a b 341, a 343
ALCYONIUS or Alcionius, Petrus, scholar, I, a 418
Aldabra or Aldebra island (Madagascar), XV, b 171; (Tortoise), XXIII, b 487
Al-Dajjal, myth (Antichrist), II, b 111
ALDAN MOUNTAINS, I, a 418 (Siberia), XXII, a b 7, b 8, a 9
ALDAN, river, I, a 418; (Siberia), XXII, a b 9; (Yakutsk), XXIV, *b* 761
ALDBOROUGH, town, Yorkshire, I, a 418
Alde or Ore river (Suffolk), XXII, a 654
Alde Manuce (Manutius), XV, b 520
Aldebert, bishop. See HILDEBERT
ALDEBURGH or Aldborough, town, I, a 418; (Suffolk), XXII, b 654
Aldegild, king (Frisians), IX, a 692
Aldegonde, lord of St. See Marnix
ALDEGREVER or Aldegraf, Heinrich, painter, I, a 418
Aldehydes (Chemistry), V, b 479, a b 492; (Fermentation), IX, a b 86; (Lactic Acid), XIV, b 197; (Enanthic Acid), XVII, a 752
ALDER, tree, I a 418; (Arboriculture), II, a 279, b 282; (Erlkönig), VIII, a b, 465; wood (Gunpowder), XI, *b* 285
Alderbeth, Gudmund Göran, translator (Sweden), XXII, a 795
Alderley, village (Cheshire), V, b 572
ALDERMAN, magistrate, I, b 418; (Municipality), XVII, b 33, *a* b 34, *b* 35; (London), XIV, *a* 828, a b 855
ALDERNEY, island (Ill.), I, b 418–9; (Channel Islands), V, a *b* 340
—— breakwater (Harbors and Docks) (Plate IX.), XI, a *b* 411, b 415; cattle (Jersey, island), XIII, b 645
Aldersgate (London), XIV, a 834, b 851, b 854, a 861
ALDERSHOTT, camp, I, a 419; town, b 419
Alderson, Amelia. See OPIE
Aldfrid, king (Northumberland), XVII, b 583
Aldgate (London), XIV, b 830, *b* 851, a 852, b 854, a b 855, *a* 856, a 861
Aldgisius, Frisian King (Wilfrid), XXIV, b 597
ALDHELM, St., bishop, I, b 419–20; (English Literature), VIII, b 360, a 361; *Psalter* of (English Bible), VIII, a 342
Aldine press (Manutius) XV, a 520–1; (Medicine), XV, a 818
Aldines (Chemistry), V, b 492
ALDINI, Giovanni, physicist, I, a 420; (Asbestos), II, b 590
Aldobrandini. See CLEMENT VIII.
Aldo Manuzio, printer. See MANUTIUS
Aldona, Anna, queen (Poland), XIX, *a* 309
Aldos or Aldus, printers (Elzevir), VIII, a 145; (Typography), XXIII, a b 739, *b* 741
ALDRED, Alred or Ealdred, archbishop, I, a 420; (Tavistock), XXIII, a 91
ALDRICH, Dr. Henry, composer, I, b 420; (Atterbury), III, *b* 47, a 49
Aldrich, Lieutenant, explorer (Polar Regions), XIX, *b* 336
Aldrisi or Idrisi, See EDRISI

Aldrovanda, genus (Insectivôrous Plants) (Ill.), XIII, a b 140, b 143-4
ALDROVANDI, Ulisse, naturalist, I, b 420; (Hornbill), XII, b 172; (Ornithology), XVIII, a 8; (Toucan), XXIII, a 507
ALDSTONE or Alston Moor; town, I, a 421
Alduin of Limoges, bishop (Interdict), XIII, a 194
Aldus, printers. See Aldos and MANUTIUS
ALE, I, a b 424; (Adulteration), b 156-7; (Brewing), IV, a b 245, *a* 246; (Burton-on-Trent), a 510; (Stafford), XXII, b 459; India, pale (Burton-on-Trent), IV, a 510; manufacture (Scotland), XXI, a b 558; mediæval (Ireland), XIII, a 263
—— river (Roxburgh), XXI, b 39
ALEANDRO or Hieronymus, Girolamo, cardinal, I, b 421
ALE-CONNER, officer, I, b 421
Alectorides, group of birds (Ornithology), XVIII, b 48, note, b 49
Alectoromorphæ (Birds), III, b 615, a 617, b 627, a 629, a 630
Ale House Door, painting (Wilkie), XXIV, a 600
ALEMAN, Louis, cardinal, I, b 421
——, Mateo, novelist (Spain), XXII, *b* 371
ALEMANNI, German tribe, I, a 422; (Alps), a 557; (Germany), X, *b* 427, *a* 428, a b 429; (Julian), XIII, b 778; (Tyrol), XXIII, a 759; (Valentine I.), XXIV, *b* 42; (Würtemberg), *b* 737; (Zurich), a 870; invasion of (Rome), XX, a 795
Alemanni, poet. See ALAMANNI
——, Nicholas, antiquary (Theodora), XXIII, a 273; (Theophilus), a b 296, a 297
Alemannian speech (German Language), X, *a* 462, *b* 463, a *b* 465, a 466
Alemannus or Hermann, translator (Arabian Philosophy), II, a 237
——, Johannes, painter (Schools of Painting), XXII, b 454, b 462
Alembert. See D'ALEMBERT
ALEMBIC, I, a 422
ALEMTEJO, province, I, a b 422; (Portugal), XIX, *a* 552, a 553, *b* 556, a 557, a 551, *a b* 561
ALENÇON, town, I, b 422; (Orne), XVIII, a b 6; (William I.), XXIV, b 606
——, François, duc d'Anjou and prince, duc d' (France), IX, a *b* 495
——, Jean, first Duc d' (Agincourt), I, a b 252
——, Marguerite d', princess. See MARGUERITE D'ANGOULEME
—— diamond (Orne), XVIII, b 5; lace (Ill.), XIV, a b 187, note
Alends Haf, channel (Sweden), XXII, a 776
ALENIO, Giulio, missionary, I, b 422
Alepocephalidæ, fishes (Ichthyology), XII, *a* 723, b 732
Aleppi, city (Travancore), XXIII, b 558
ALEPPO, city, I, b 422-3; (Egypt), VII, *b* 651; Syria), XXII, a b 860, a b 861, b 862, b 863
—— galls (Ill.), X, a 41
Alerce, tree (Chili), V, b 541
Aleria, city (Corsica), VI, b 389
ALES, Aless, or Alesius, Alexander, Reformer, I, b 423-4
Alesia, siege of, 52 B. C. (Cæsar), IV, b 565
ALESSANDRI, Alessandro, jurist, I, a 424
ALLESSANDRIA, province, I, a 424; city, a b 424; (Guelfs and Ghibellines), XI, b 217; fortress (Italy), XIII, *a* b 484
ALESSI, Galeazzo, architect, I, b 424
Aletes, the wanderer (Corinth), VI, *a* 353
Aleth, city. See St. Servan
Aletornis, genus (Birds), III, a 633
Aletrides, slaves (Slavery), XXII, a 138
Aleuadæ, dynasty (Greece), XI, b 89, a 90; (Thessaly), XXIII, a 320
Aleurites (Oils), XVII, b 766, a 767
Aleurodidæ, family (Insects), XIII, a 160
Aleurone grains (Botany), IV, a 78; (Histology), XII, b 14; (Physiology), XIX, a 62
ALEUTIAN ISLANDS (Map), I, b 424; (Birds), III, a 653; people (Indians), XII, b 865, a 866
Alevin, growth stage (Salmonidæ), XXI, a 235
Ale-wife, fish (Ichthyology), XII, b 732; (Pisciculture), XIX, *b* 135, a 136, *b* 137; (Shad), XXI, a 763
Alewijn, Abraham, dramatist (Holland), XII, a 99
ALEXANDER I., Pope, I, a 430
ALEXANDER II., Pope, I, a 430; (England), VIII, b 262; (Lanfranc), XIV, a 283, a 284; (Popedom), XIX, a 513, a 524; (Rome), XX, a 809; (William I.), XXIV, *a* 601
ALEXANDER III., Pope, I, a 430; (Á Becket), I, b 36; (Frederick I., emp.), IX, *a* 642; (Interdict), XIII, a 194; (Italy), XIII, a 484; (Monachism), XVI, b 735, a 736 note; (Popedom), XIX, b 514-5, a 524; (Prester John), XIX, a 735, b 736; (Rome), XX, b 811-12
ALEXÀNDER IV., Pope, I, b 430; (England), VIII, b 279; (Inquisition), XIII, a 99; (Manfred), XV, a 486; (Rome), XX, b 814
ALEXANDER V., Pope, I, b 430; (Gerson), X, b 491; (Huss), XII, a b 420; (Popedom), XIX, a 517, b 524
ALEXANDER VI., Pope, I, b 430-3; (Adrian, Cardinal), I, a 151; (Alcantara, Knights of), a 406; (Cardinal), V, *a* b 86; Columbus), VI, b 155; (International Law), XIII, a 199; (Italy), a *b* 491; (Jubilee Year), a 770; (Julius II.), a 781; (Reformation), XX, a b 336; (Rome), b 823-4; (Savonarola), XXI, *a b* 352, a b 353, a 354; (Simony), XXII, a 92; (Turkey), XXIII, a 684
ALEXANDER VII., Pope, I, b 433; (Monachism), XVI, b 739, a 740; (Popedom), XIX, b 520, b 524
ALEXANDER VIII., Pope, I, b 433
—— of Battenburg (Turkey), XXIII, b 693
—— I. of Bulgaria, king (Roumelia), XXI, b 27 note
—— I. of Epirus, VIII, b 429 (Lucania), XV, b 39
—— II. of Epirus, VIII, b 429
—— I. of Macedon, king (Numismatics), XVII, b 656, *a* 657; (Pelopidas), XVIII, a 490
ALEXANDER III. of Macedon, THE GREAT, I, a 425
  Asiatic campaigns, a 426-9
  character, a 429
  court of Philip, a 425
  Greece subdued, b 425
  Persian campaigns, b 426
  (Afghânistân), a 214
—— (Anaxarchus), II, b 3-4; (Apelles), *a* 149; (Army), a 492; (Calisthenes), IV, a 628; (Cambodia), b 642; (Cassander), V, b 158, a 159; (Cavalry), a 229; (Cilicia), a 679; (Commerce), VI, a b 177; Macedonia (Dinocrates), VII, a b 212; (Diogenes, Cynic), b 214; (Egypt), b 645; (Ephesus), VIII, b 514; (Geography), X, b 157; (Greece), XI, a b 94, a 96, a 98; (Hephæstion), XI, b 604; (Hyderabad), XII, a 446; (India), a b 826; (Isocrates), XIII, a 401, b 403; (Kafiristan), b 830; (Lysippus), XV, *b* 121-2; (Macedonian Empire), b 141-4; (Nearchus), XVII, b 314-5; (Nizámí), a 536; (Numismatics), *a b* 648, b 656, a b 657, b 658; (Persepolis), XVIII, b 570, a b 571, note; (Persia), b 592-6, b 618 note; (Phocion), a 813; (Phœnicia), b 822; (Pindar), XIX, b 107; (Smyrna), XXII, a b 196; (Troad), XXIII, a 616; (Zend Avesta), XXIV, a b 815; *epics on* (Persia), XVIII, b 669; Era of (Chronology), V, a 621; heads of (Gems) (Plate I), X, *a* 125; *Histories of* (Arrian), II, b 551; (Romance), XX, a 656-7; *Life of* (Syriac Literature), XXII, a 895; *portraits of* (Archæology), II, a 317, a 318
—— I., Poland, Jagellon (Poland), XIX, a 300-1; (Russia), XXI, a b 100
ALEXANDER I., Russia, czar, b 434-5; (Canning), IV, a 715; (Czartoryski), VI, b 665; (Finland), IX, b 190; (France), b 542, a b 543; (Georgia), X, a 389; (Kosciusko), XIV, b 113; (Metternich), XVI, b 209-10; (Napoleon I.), XVII, b 216, a 218, a 220, b 222, a b 223, a b 224, b 228; (Nicholas I.), a b 498; (Russia), XXI, b 108-9; (Stein), XXII, *b* 558; (Talleyrand), XXIII, *a* 37; (Wellington), XXIV, a *b* 525, a 526
—— II., czar, Russia (Finland), IX, b 190; (Hertzen), XI, b 691; (Russia), XXI, b 110-11; (Slavery), XXII, a 152; (Socialism), *b* 228
—— III., czar (Russia), XXI, a 111; (Socialism), XXII, a 229
ALEXANDER I., Scotland, I, b 433; (Scotland), XXI, a b 504
ALEXANDER II., Scotland, I, b 433; (Scotland), XXI, a b 507
ALEXANDER III, Scotland, I, a 434; (Haco V.) XI, b 322; (Hebrides), XI, a b 542; (Scotland), XXI, *b* 507-8
ALEXANDER I. of Syria, Balas, I, a 430; (Egypt), VII, a 647; (Israel), XIII, b 432
—— Severus. See SEVERUS, ALEXANDER
—— of Ægæ, philosopher (Peripatetics), XVIII, a 558
—— of Alexandria, archbishop (Arius), II, a *b* 471, a 472, *a* 725
ALEXANDER of Aphrodisias, expositor, I, b 429; (Alchemy), I, b 408; (Medicine), XV, a 814; (Peripatetics), XVIII, a 558; (Sosigenes), XXII, a 290
——, Cappadocia, bishop (Pilgrimage), XIX, a 102
Alexander or *False Prophet* (Lucian), XV, b 47
—— Gallus or De Villa Dei, grammarian (Typography), XXIII, a 725
ALEXANDER of Hales, theologian, I, b 429; (Scholasticism), XXI, b 444-5
——, Hieronymus, papal nuncio (Luther), XV, a b 76
ALEXANDER JANNÆUS, Jewish king, I, a 430
ALEXANDER Jaroslawitz Nevski, Saint, I, a 435; (Russia), XXI, a b 99
—— of Jerusalem, bishop (Clemens Alexandrinus), V, *a* 716
—— Karageorgevich, prince (Servia), XXI, a 722
—— of Pheræ, tyrant (Pelopidas), XVIII, a b 490
ALEXANDER Trallianus or of Tralles, physican, I, a 430; (Medicine), XV, a 814
ALEXANDER, Archibald, divine, I, b 435
ALEXANDER, Joseph Addison, expositor, I, b 435
——, Sir James, traveller (Hottentots), XII, a 326
ALEXANDER, Sir William, poet, I, b 435-6; (Drama), VII, a 373; (Maine), XV, *b* 303; (Scotland), XXI, a 568
Alexanderlied (Germany), X, a 464, b 468
Alexander's wall (Derbend), VII, a 92
Alexandersbad, watering place (Fichtelgebirge), IX, b 121

Alexandra or Salome, queen (Israel), XIII, a 434
—— Land (South Australia), XXII, a 297.
—— Nile, river (Nile), XVII, a b 518
—— palace (London), XIV, b 833, *a* b 846
"Alexandra," ship (Navy), XVII, b 294, 296
Alexandre le Grand, play (Racine), XX, a b 212
Alexandreffsky prison (Prison Discipline), XIX, a 782
Alexandreis, poem (Slavs), XXII, b 160
Alexandres, manufacturers in Paris (Harmonium), XI, *a* 433
Alexandretta, town (Cilicia), V, b 679; (Scanderoon), XXI, b 381
Alexandri Itinerarium, XIII, b 527
ALEXANDRIA, Egypt, city (Sketch), I, a 436-8; (Alchemy), b 408, a b 409; (Alexandrian School), b 339-40; (Catacombs) (Ill.), V, a 188; (Egypt), VII, *b* 614, a 628, b 645, a 646, a b 647, a b 648, a b 649, a 652, a 653, a 656, b 659, a 660, a b 666, a 681; (Glass), X, a 577, a 580; (Greece), XI, b 96, a b 123; (India), XII, a b 826; (Libraries), XIV, a b 510; (Mark), XV, *a* 559; (Neoplatonism), XVII, a *b* 344 note; (Numismatics), b 668-9; (Origen), a 864
——, Ancient, I, a 436-7; Astronomical School of, II, a 654-6; founding of (Archæology), II, b 318
—— Jewish community at (Israel), XIII, b 439; (Jews), a 698; (Philo), XVIII, a 774, a 777
—— library of (Alexandrian School), I, b 439-40; (Amru-ben-el-Ass), a 683, (Libraries), XIV, a b 510
—— Modern, I, a 437-8
—— ad Caucasum, city (Persia), XVIII, b 594, a 610
ALEXANDRIA, Scotland, town, I, a b 438
—— Troas, city (Troad), XXIII, b 617
ALEXANDRIA, Virginia, town, I, b 438; (Columbia, Dist.), VI, a 151
Alexandrian Age (Ovid), XVIII, a 86, a b 87; calendar (Egypt), VII, a 632; Canon, V, a b 6, a 7, b 13; (Hebrews), XI, a b 541: criticism (Homer), XII, a b 118; culture (Philo), XVIII, a 774; Drama, VII, a 351; b 353; drachma (Weights and Measures), XXIV, *b* 515; Era (Africanus, Julius), I, a 214; (Chronology), V, a b 620; Fathers (Hermeneutics), XI, a b 666, b 667, b 669; Gnosis (Gnosticism), X, *a* 628; grammarians (Grammar), XI, a 39; Jewish gnosis (Apocalyptic Literature), II, b 156; literature (Greece), XI, a b 128; Logos (Gospels), X, a 732-3
ALEXANDRIAN MANUSCRIPTS, I, b 438-9
Alexandrian O. T. Canon (Apocrypha), II, a 159, a 161; patriarchate (Greek Church), XI, a 138; philosophy (Gnosticism), X, a 625
ALEXANDRIAN SCHOOL, I, b 439 2
  literature, a 440
  origin of, b 439
  philosophy, a 441
—— (Anatomy), I, a 703; (Arabian Philosophy), II, b 235; (Astronomy), a 654-6; (Medicine), XV, a 811-2, a 813; (Surgery), XXII, b 708-9
Alexandrina, lake (Australia), III, b 93
ALEXANDRINE VERSE, I, a b 442; (Catullus), V, a 218
Alexandrite (Mineralogy), XVI, b 402
Alexandropol, town (Gumri), XI, a 245; plateau and city (Transcaucasia), XXIII, *b* 546, b 547
Alexandrovsk, penal settlement (Saghalin), XXI, b 155
——, town (Transcaspian region), XXIII, b 545
Alexandrovskaya, town (Stavropol), XXII, b 489
Alexandrovsky mountains (Semiryetchensk), XXI, b 672
Alexiad (Anna Comnena), II, a 54
Alexin, town (Tula), XXIII, b 642
Alexipharmaca (Nicander), XVII, a 490
Alexiopolis, city (Paulicians) XVIII, a 445
ALEXIS, comic poet, I, b 442
—— Emperors. See ALEXIUS
Alexis I., Mikhailovitch, czar (Russia), XXI, b 104, *a* 105
Alexis Petrovich, czarovitch (Peter I.), XVIII, a b 712; (Russia), XXI, a 105, a 106
Alexis, Wilibald, pseudonym (Germany), X, a 486
ALEXIUS I., Comnenus, emperor of the East, I, b 442; (Crusades), VI, b 551, a 552, a 553; (Greece), XI, *a b* 105, a 106; (Nicephorus III.), XVII, b 495, a 496; (Paulicians), XVIII, a 445;
—— II. (Andronicus), II, a b 22
—— III. Angelus Comnenus, Emperor (Crusades), VI, b 555; (Isaac II.), XIII, a 385
—— IV., Angelus, Emperor (Crusades), VI, b 555; (Isaac II.), XIII, a 385
—— V., Ducas (Crusades), VI, b 555
—— I., Grand Comnenus of Trebizond, XXIII, a 567
—— III. of Trebizond, XXIII, b 567
Alfa, plant (France), IX, b 464-5
Alfama, town (Lisbon), XIV, a 697
ALFANI, Domenico, painter, I, b 442
AL-FARABI, philosopher, I, b 442-3; (Arabian Philosophy), II, b 234, a 235, a 236, a 237; (Avicenna), III, a 134
Al-Fátiha, prayer (Mohammedanism), XVI, a 625
Alfeeyah, grammar (Arabia), II, a 232
Alfergani, astronomer (Chronology), V, a 621, b 622
ALFIERI, Vittorio, dramatist, I, a 443-5; (Alban, Countess of), I, b 397; (Drama), VII, a 361; (Italy), XIII, a 495, a b 523
Alföld, plains (Hungary), XII, *a* 376 a b 377
Alfonso. See ALPHONSO
—— de Baena, poet (Spain), XXII, b 369
—— de la Cerda, pretender (Spain), XXII, b 333-4
——, Joan and, count and heiress (Poitiers), XIX, *a* 294; (Toulouse), XXIII, *a* 517
ALFORD, Henry, dean, I, a 445-7
Alfort, town (Charenton le Pont), V, *b* 347; (Veterinary Science), XXIV, *b* 214, a 215
Alfred. See also AELFRED
ALFRED or Ælfred, the Great, England, I, a 447-8; (Cædmon), IV, a b 560; (County), VI, a b 455; (Domesday Book), VII, b 303; (England), VIII, a 197, b 253, b 257-8; (England, Church of), a 333; (English Bible), a 342; (English Language), b 349, a b 350, a *b* 351, 359; (English Literature), b 361; (Geography), X, b 159; (Hertford), XI, b 689; (Hundred), XII, b 374; (Hunting), b 409; (Jury), XIII, b 793; (London), XIV, a *b* 853, *a* 854; (Navy), XVII, a 287; (Orosius), XVIII, a 54; (Polar Regions), XIX, a 328; laws of (Murder), XVII, b 59
—— *in the Neatherd's Cottage* (Wilkie), XXIV, a 600
——, son of Ethelred (Harold I., Eng.), XI, a 434
——, Croquis, painter. See MACLISE
—— jewel (Enamel), VIII, a 168
Alfredscombe. See ILFRACOMBE
Alfred's Tower (Wilts), XXIV, a 625
Alfurese language (Indian Archipelago), XII, b 857
Alfuros, tribe (Buru), IV, b 510
ALGÆ, plants (Ill.), I, a 448-9; (Atlantic Ocean), III, *b* 24; (Biology), a *b* 599; (Botany), (Ill.), IV, *b* 73, a b 74, *b* 81, a 96; (Fungus), IX, *b* 733, *a* 734; (Histology), XII, b 12, b 14, a b 15, a 16, a 19; (Kelp), XIV, b 31; (Kerguelen's Land), a 51; (Lichens), a 555, a b 560; (Parasitism), XVIII, b 270; (Reproduction), XX, a 436, a 437-8, *a* 442, *a b* 443; (Vegetable Kingdom), XXIV, b 136-9
——, coloring matter of (Physiology), XIX, b 59; marine (Herbarium), XI, a b 641; monocellular (Diatomaceæ), VII, b 146; (Protozoa), XIX, b 881; reproduction of (Botany) (Ill.), IV, b 126, *a* 141, a b 144, a 145, b 147
ALGARDI, Alessandro, sculptor, I, b 449; (Sculpture), XXI, a 597
ALGAROTTI, Francesco, count, author, I, b 449
Algárrobo tree (Peru), XVIII, b 683
ALGARVE or Algarves, province, I, a 450; (Portugal), XIX, a b 551, *a* b 552, a 553, b 554, b 556, b 557, *a* 561
ALGAU or Allgau, district, I, a 450
AL-GAZALI or Algazel, Abu Hamed Muhammed, Moslem theologian, I, a b 450; (Arabian Philosophy), II, b 234-5, a b 236; (Scepticism), XXII, b 393 note; (Theism), XXIII, b 261
Algazel, species (Antelope) (Ill.), II, a 90
ALGEBRA, I, 451 95
  combinations, a 494
  division, a 462-4
  EQUATIONS, a 474 *et seq*
    approximate solutions, a 487
    bi-quadratic, a 484
    cubic, a 482
    equal roots, a 486
    general, a 480
    quadratic, b 477
    root relations, known, b 485
    simple, a 474, b 476
    unknown quantities, two or more, a 475
  evolution, b 465
  fractions, a 467 *et seq*, continued, a 492
  fundamental operations, b 458-64
  history, a 451-6
  indeterminate problems, a 488
  Indian, a 456
  involution, a 464
  multiplication, a 459-62
  notation, a 458
  permutations, b 493
  probabilities, a 494
  progression, b 472
  proportion, b 472
  series, b 494
  surds, a 471
  theorems, binomial, a 489; exponential, a 491; logarithmic, a 490
  writers on, a b 457
—— (Analysis), I, a 698; (Descartes), VII, a b 105; (Lagrange), XIV, a 211; (Mathematics), XV, a b 637; (Newton); XVII, *a* 458; (Recorde), XX, a b 323; (Tartaglia), XXIII, a 74; astronomical (Moon), XVI, b 826 *sq.*; mediæval (Pisanus), XIX, b 134
Algebra, Treatise on (Peacock), XVIII, a 455
Algebraical Curves, VI, a b 633; determination of velocity (Gravitation), XI, a 61-2; imaginary quantity (Quaternions), XX, a 167 9; proportion (Geometry), X, b 340 2; solution of rectangular areas (Geometry), X, a 337 8
Algebrista, title (Algebra), I, b 453
ALGECIRAS or Algeziras, seaport, I, a 496; siege of, 1342 (Alphonso XI.), I, b 542

ALGECIRAS, province (Spain), XXII, b 330, a 331, a 334
ALGER OF LIÉGE, or of Clugny, writer, I, a 496; (Canon Law), V, b 17
ALGERIA or Algiers, country I, a 496-a 502
  Abd-el-Kader, a 500-1
  French invasion, b 499
  history, b 498-502; colonial, a 500-2
  industries, b 497
  natural features, a 496
  political features, a 497
—— (Africa), I, b 236; (Colony), VI, a 143; (Forests), IX, a 359; (France), b 464-5; (Fromentin), b 740; (Marble), XV, b 536; (Mining), XVI, a 491; (Mosque), a 892, b 893; (Wine), XXIV, a 639; French colonies in (Duval), VII, a b 489; French war in (Pelissier), XVIII, a 486
Algerine reefs (Corals), VI, a 344; mausoleums (Architecture), II, b 367 note
—— pirates (Cervantes), V, b 303-4: (Gibraltar), X, a 523; (Jefferson), XIII, a 627; (Preble), XIX, b 925; 1803-1804 (United States), XXIII, b 808 note
—— Wool, XXIV, b 689
Algerus Magister. See ALGER OF LIÉGE
Algesiras or Algeziras. See ALGECIRAS
Al-Ghazali. See ALGAZALI
ALGHERO, city, I, a 502; province and city (Sardinia), XXI, *a* 324; language (Spain), XXII, a 361, a 363, b 366
Algidus mt. (Latium), XIV, a 344
Algiers, province. See ALGERIA
ALGIERS, city, I, a 497, a *b* 499, a 502; (Algeria), b 497, a b 498, a *b* 499; breakwater (Harbors and Docks), XI, a b 411; National Observatory, XVII, a 737
Algin, gum (Mucilage), XVII, a 18
ALGOA BAY, I, b 502; (Cape Colony), V, a 39, b 40
Algodonite (Mineralogy), XVI, b 409
Algol, star (Wave Theory), XXIV, b 484
Algonquin Indians (America), I, a 606; (Indians), XII, *b* 865, b 867, a b 871, a 872; Language (America), I, b 604
Algorithm (Numerals), XVII, b 641
Algum tree. See ALMUG
Alhagi camelorum, plant (Manna), XV, b 500
Al-Hakam I., Emir of Cordova (Spain), XXII, b 325, a 326
—— II., caliph of Cordova (Spain), XXII, b 328
ALHAMA, Granada, city, I, b 502
——, Murcia, Spain, I, b 502
ALHAMBRA, palace, I, a 503-4; (Architecture) (Ill.), II, *b* 391; (Fountain), IX, b 429; (Jones, O.), XIII, *b* 749; (Mural Decoration) (Ill.), XVII, b 42, a b 43, note, a 44
Alhambresque. See Arabesque
Alhasen ibn Mohammed Abwazzan Alfasi. See LEO AFRICANUS
ALHAZEN, Abu Ali al-Hasam, mathematician, I, a 504; (Light), XIV, a 582, note
—— biographer (Timur), XXIII, b 426
Alhstan, bishop of Sherborne (Niello), XVII, a 508; Ring of (Ill.), XX, b 575
Alhucemas, bay (Morocco), XVI, b 856
ALI, caliph, I, a b 504; (Arabia), II, *b* 225-6; (Meshed-Ali), XVI, b 51, note; (Mohammedanism), a 572, a 575, a b 586, a—b 587, b 588-9; (Shi'ites), XXII, a *b* 698, a b 699
——, IV., caliph, I, a 504
——, of Cordova, caliph (Almoravides), I, b 524
Aliaga, Luis de, monk (Cervantes), V, b 308
ALIAS, law term, I, b 505; *Alias and Pluries*, writ of, XXIV, a b 730, a 731
Ali Baba and Forty Thieves (Thousand and One Nights), XXIII, b 338
Alíbágh, division (Kolába), XIV, a b 137
'Alí ben Ahmad al-Asadí, poet (Persia), XVIII, a 669
—— ben Bísutún, author (Sa'di), XXI, b 151
'Alí ben Isa, general (Mohammedanism), XVI, a b 605
Ali Boy. See BADIA Y LEBLICH
ALI BEY, pasha, Egypt, I, b 504; (Egypt), VII, *b* 658-9
ALIBI, law term, I, b 505
ALICANTE, province, I, b 505-6; (Spain), XXII, a 307, b 310, a b 311, b 312, b 313, b 314, *b* 316, b 318, b 360
——, city, I, a 506
ALICATA, city, I, a b 506
'Ali Chelebi, translator (Turkey), XXIII, b 698
ALICUDI, island (Lipari Islands), XIV, a 689
Alidade of theodolite (Surveying), XXII, a 756; (Vernier), XXIV, b 183
Alides, sect (Meshed), XVI, a 51, note; dynasty (Morocco), XVI, b 861
Al Idrisi. See EDRISI
Ali-elis, tribe (Turks), XXIII, a 703
ALIEN, I, b 506-7; Act, English (Talleyrand), XXIII, a 36; houses (Architecture), II, b 402
—— and Sedition Laws (Jefferson), XIII, a 627; (Taylor), XXIII, *a* 927; (United States), *a b* 804
Alienation of land (Corporation), VI, a b 384; (Trust), XXIII, b 633
—— of Peerage, XVIII, b 476
Aliens, mediæval protection of (Universities), XXIII, a 887, *b* 888, *a* 889; restrictions on (Passport), XVIII, b 349; time of war (International Law), XIII, b 200; testaments of (Will), XXIV, b 604; trial of (Jury), XIII, b 795
ALIGARH, district, I, b 507
—— FORT, I, b 507-8
Alighieri, family (Dante), VI, b 712, a 716
Alignments (Rude Stone Monuments), XXI, b 56, a b 57
'Alí ibn Abi Tálib, mullah (Imám), XII, a 753
'Alí ibn Abu Tálib, caliph (Hasan), XI, a *b* 454
'Alí ibn Hammúud, caliph (Spain), XXII, a 330
'Alí ibn Yussef of Marocco (Almohades), I, b 522
'Ali ibn Yúsuf, caliph (Spain), XXII, *a* 331
'Alí-Iláhí or Allahí, sect (Shi'ites), XXII, a 700, note
Al-'Ikd al-Faríd (Tabarí), XXIII, b 8
'Ali Mardan, pretender (Persia), XVIII, a 654, a b 655
—— Khan, architect (Lahore), XIV, b 215; (Punjab), XX, a 117
ALIMENT, I, a 508
Alimenta, charity (Trajan), XXIII, a 536
Alimentary canal of azygobranchia (Mollusca), XVI, b 675; of crinoids' (Echinodermata), VII, b 551; development of (Vertebrata), XXIV, b 197, a 201, a 202; differentiation of (Physiology), XIX, a b 19; (Digestive Organs) (Ill.), VII, a b 192-9; of gastropoda (Mollusca) (Ill.), XVI, b 664, b 665; of holothuridæ (Echinodermata), VII, b 554, a 555; of lamellibranchia (Mollusca) (Ill.), XVI, b 710, b 711, a 717; of Mammalia, XV, a 365; of Mollusca, XVI, b 658; of Planarians, XIX, a b 182; of Polyzoa, b 446, a 448; rise of (Animal Kingdom), II, *b* 46-7, a b 49; of siphonopoda (Mollusca), XVI, b 701, b 702; of Tunicata, XXIII, a 651, b 654, a 658; of Worms, XXIV, a b 715
Alimentary system (Anatomy), I, b 702, *b* 703, a 705, b 706, b 707; (Birds), III, a b 629; (Reptiles), XX, a 470-1
Alimentationes, charitable institution (Nerva), XVII, a 362
Alimentiveness, organ of (Phrenology), XVIII, b 859
ALIMONY, I, a 508
Alí Murád, sháh (Persia), XVIII, b 655, a 656
Aling Gangri, mountain (Tibet), XXIII, a 361
Ali Nizám (Hyderabad), XII, b 441
Ali-Ollahi, communities (Kúrdistán), XIV, *b* 158-9
ALI PASHA or Arslan, Albanian, I, a 505; (Greece), XI, b 111; (Turkey), XXIII, a b 690
—— of Agiers, bin Hasan (Tunis), XXIII, a 661
—— or Dámád 'Alí, grand vizier (Turkey), XXIII, a 688
—— El-Tarábulusee (Egypt), VII, b 660
Aliptæ, servants (Gymnasium), XI, a 311
Alipterium, chamber (Baths) (Ill.), III, b 375, b 376, a 378
Aliscan. See Chanson
Ali, Seyyed Mohammed. See BABI
Alishang, river (Afghânistân), I, a 205
Alisma, genus (Plantain), XIX, b 186
ALISON, Rev. Archibald, author, I, a 508; (Æsthetics), a b 192, b 200
Alison, Archibald, portrait of (Schools of Painting) (Ill.), XXI, a 461
ALISON, Sir Archibald, historian, I, a 508-9
——, Charles, envoy (Persia), XVIII, a b 665
——, William, Pulteney, physician, I, a 508; (Pathology), XVIII, a b 409
Ali Vardi Khan, nawáb (Hastings), XI, a 458; (India), XII, a b 840
Alix, Emond, ornithologist (Birds), III, a 622 note, *a* 628 note
Alixandre, Lamberts', romance, (France), IX, *a* 563
ALIZARIN, dye, I, a 509; (Calico-printing), IV, a 609, *b* 610, a 614; (Chemistry), V, a 497; (Coal Tar Colors), XVIII, a 900, a b 905; VII, a 494, a b 497
Aljubarrota, battle of, 1385 (John I., Castile), XIII, a 727
Al-Kaff or Al-Keif, town (Suakin), XXII, b 647
Alkaheat, solvent (Glauber), X, b 602
Alkalamides (Chemistry), V, a 502
ALKALI, I, a 509; sterilization of Bacteria (Biology), III, b 596
Alkalies (Alum), I, a 566; (Chemistry), V, a b 420, *b* 435; (Davy), VI, *b* 744; (Poisons), XIX, a 289; metals of the (Chemistry), V, b 454-5, a 465; (Metals), XVI, b 68, a 76
Alkaline air, (Ammonia), I, b 649; coatings to preserve Iron, XIII, a 367; developers (Photography), XVIII, a b 839, a 840, a b 841, a 842
—— earths, metals of (Chemistry), V, a 455-6; (Gay Lussac), X, *b* 110, note; analysis for (Potassium), XIX, a 610-1
—— spectra of (Spectroscopy), XXII, b 389-90; Phosphates, XVIII, a 832; silicates (Silica), XXII, b 59; springs (Mineral Waters), XVI, b 454, b 455; tests (Oils), XVII, a 766
ALKALOIDS, I, a 509; (Belladonna), III, a 469; (Cinchona), V, a b 683; (Colchicum), VI, b 113; (Gelsemium), X, *a* 121; (Jaborandi), XIII, a b 540; (Narcotics), XVII, a 237-9; (Nitrogen), b 533; (Opium), a 815-6; (Quinine), XX, a b 191-2, a 193; (Veratrum), XXIV, a 177

ALKALOIDS, formation of (Physiology), XIX, b 60; insecticides (Insectivorous plants), XIII, a 142; natural (Chemistry), V, a b 500
Alkama, poet, (Mo'allakát), XVI, b 560, a 561
Alkanet, Alkanna or Anchusa, plant, I, a 509; (Horticulture), XII, a 257
Al Kantara, town (Morocco), XVI, b 858
Al-Keif, town. See Al-Kaff
Al Khárizmi, Abu Ja'far Mohammed (Numerals), XVII, b 641
AL-KINDI, Abú Yusuf, philosopher, I, a b 509; (Arabian Philosophy), II, a b 234, a 236
Alkitáb Alfakhrí (Sanâ'í), XXI, a 267
ALKMAAR, town, I, b 509
ALKMAAR, Heinrik Von, translator, I, b 509
Alkylamines (Nitrogen), XVII, b 532
Alladá, city (Dahomey), VI, b 675
ALLAH, deity, I, b, 509; (Mohammedanism), XVI, a 570, a 577, b 583; (Theism), XXIII, b 259-60
ALLAHÁBÁD, district, I, b 509-10
——, city, I, a 510; (Agra), b 255; (Ganges), X, a 62; (Inscriptions), XIII, b 125; (Meteorology), XVI, b 124
Allah-dagh, mts. (Transcaspian), XXIII, *b* 543; (Transcaucasia), b 446
Allahí, sect (Shi'ites), XXII, a 700, note
Alla Hu Akbar, pass (Shíráz), XXI, a 868
Allah-ud-dín of Ghor, sultan (India), XII, b 831
—— of Delhi Khiljí, sultan (India), XII, a 832
ALLAMAND, Jean, philosopher, I, b 510
Allamanga, Justus d', painter (Ghent), X, b 505
Allan river (Roxburgh), XXI, b 39
ALLAN, David, painter, I, b 510
ALLAN, Sir William, painter, I, a 511; (Wilkie), XXIV, b 599
Allanite (Mineralogy) (Ill.), XVI, a-b 427, a 444
Allan's link motion (Steam-Engine) (Ill.), XXII, a b 526
—— saccharometer (Brewing), IV, b 237
Allantois, nutrient sac (Mammalia), XV, *b* 371, *a* 372
Allard's statistics (Lighthouse), XIV, a 634
Allas, mountain (Timor), XXIII, b 424
——, strait (Sumbawa), XXII, a 675
Allasch (Liqueurs), XIV, b 693
Allatius, Leo, writer (Greece), XI, b 133; (Greek Church), XI, b 142
Alldai, god (Celtic Literature), V, a 260
Allectus, usurper (Britannia), IV, a 319
Allegewis Indians (America), I, a 610
Alleghanian group of birds, III, a 652
ALLEGHENY, city, I, b 511; (Observatory), XXII, b 735; (Pittsburgh), XIX, b 160
ALLEGHANY Mountains, I, b 511; (America), a 592, *b* 595, *a* 596; fauna of (Distribution), VII, a 239; (New York), XVII, b 462, b 464; (United States), XXIII, b 845; (West Virginia), XXIV, *a* 548
—— petroleum district, XVIII, b 726; (United States), XXIII, a 865
ALLEGHANY river, I, b 511
ALLEGIANCE, I, b 511; (Domicile), VII, b 304-5; (Oath), XVII, b 720; American view of (United States), XXIII, a 807; law of (Treason), XXIII, b 561-2
Allegorical coinage (Numismatics), XVII, a 672
—— interpretation (Eve), VIII, b 643; (Homer), XII, a 118; (Hosea), XII, a 310; (Inspiration), I, a b 162; (Joel), b 715, a b 717; (Mythology), XVII, *b* 143-4; (Origin), a b 865; of Scripture (Philo), XVIII, b 774, a 776; (Theodore), XXIII, a b 274
—— painting (Cranach), VI, a 483; (Kaulbach), XIV, a b 19; (Honthorst), XII, a 147
—— poetry (Italy), XIII, b 511, a b 513, a 514
Allegories (Bunyan), IV, a b 473, a 474; (Portugal), XIX, a 572
Allegories of the Sacred Laws (Philo), XVIII, a b 776-7
Allegorists (Al-Gazali), I, b 450
ALLEGORY, I, a 512; (Adam), I, b 125; (Canticles), V, a b 30, note; (Capella), b 48; (Hermeneutics), XI, a b 665, a b 666; (Lyndsay), XV, a 109; (Physiologus), XIX, b 9-11; (Valentinus), XXIV, *a* 45
Allegory of Calumny (Zuccaro), XXIV, a 865
Allegranza, island (Canary islands), IV, b 706
Allegri, Antonio, painter. See CORREGIO
ALLEGRI, Gregorio, musician, I, a 512; (Mozart), XVII, a 15
ALLEINE, Joseph, theologian, I, a 512-3
ALLEINE, Richard, divine, I, a 513
Alleluia. See Hallelujah
Allemagne, De l' (Stael), XXII, a b 458, *a* 459
Allemontite (Mineralogy), XVI, a 396
ALLEN, Bog of, I, a 513; (Kildare), XIV, *a* 74
——, Hill of (Kildare), XIV, a 74
—— Lough (Ireland), XIII, *b* 222, a b 223; (Leitrim), XIV, *a* 433
ALLEN, Ethan, soldier, XXIII, a 836
——, Joel A., American naturalist (Birds), III, a b 652
——, John, archbishop (Fitzgerald), IX, a 237
ALLEN, John, M.D., essayist, I, a b 513
——, Josiah Asaph, naturalist (Zoology), XXIV, b 923
——, Ralph, postmaster (Post-Office), XIX, a 581, note; (Warburton), XXIV, *a* 389
ALLEN or Alleyn, Thos., mathematician, I, b 513
——, Timothy, physician (Homœopathy), XII, b 130
——, William, musical instrument maker (Pianoforte), XIX, a b 84
——, William, philanthropist (Owen), XVIII, b 90, b 91
—— or Allyn, William, cardinal. See ALAN
All England Club, Wimbledon (Tennis), XXIII, b 198.
Allen's governor (Steam-Engine), XXII, a 533
ALLENTOWN, Pa., I, b 513
Allerheiligencapelle, Munich (Hess, H. M.), XI, *b* 695
ALLESTRY or Allestree, Richard, D.D., I, b 513
Allevard, Isère, ore (Iron), XIII, a 294
ALLEYN, Edward, actor and college founder, I, a 514-5; (England), VIII, b 231
Alleyne's furnace (Iron), XIII, b 333
All-fools-day (April), II, a 187
All for Love (Dryden), VII, *a* b 424, b 425
Allgaier, Johann, author (Chess), V, a b 522, a 524
Allgau. See ALGAU
Allgemeine Literaturzeitung (Periodicals), XVIII, a 552
—— *Politische Annalen* (Heine), XI, a 559
—— *Zeitung* (Cotta, J. F. F.), VI, b 426; (Newspapers), XVII, b 439
Allhallowtide, festival (Ireland), XIII, b 250, note. See ALL SAINTS' DAY and Halloween
Allia, battle of the, 390 (Rome), XX, b 758-9
ALLIANCE, I, a 515
—— des Trois Cotillons (France), IX, a 518
—— Holy (France), IX, a 545. See Holy Alliance
—— Israélite Universelle (Jews), XIII, a 694
"Alliance of the three kings" (Saxony), XXI, b 371
ALLIER, department, I a 515
—— river, I, b 515; (France), IX, a 446, b 457; (Loire), XIV, b 815, *a* 817; (Puy de Dôme), XX, *b* 125, a 126
ALLIGATOR, I, b 515; (Crocodile), VI, b 524, *a* 525; (Reptiles), XX, a 459, a 478, b 483, note, a b 485
—— apple (Custard Apple), VI, b 643; Pepper, XVIII, a 528; river (Australia), III, a 94; skin (Leather), XIV, a 389; squeezer (Iron) (Ill.), XIII, b 335-6; Terrapin (Tortoise) (Ill.), XXIII, b 487
ALLITERATION, I, b 515-6; (English Literature), VIII, a 361, a b 367; Kaffraria), XIII, b 829
Allium, plants (Horticulture), XII, a 257, a 293, b 294, a 296, *a b* 297, b 299, b 300; (Leek), XIV, b 409-10
ALLIX, Pierre, theologian, I, b 516
Allman, George James, naturalist (Fisheries), IX, a b 213-14; (Hydrozoa) (Ill.), XII, a 581, note, b 582, b 583, b 585 note, b 586, a b 588, note, a 594, *b* 595, *a* b 596; (Polyzoa), XIX, b 445, b 446, *b* 447, a b 449, a b 451, a 452, b 456; (Protozoa), XIX, b 885, b 889, b 891
Allmends or common lands (Switzerland), XXII, a 818
ALLOA, town, I, b 516; (Clackmann), V, *a* b 697
Allobroges, tribe (Gaul), X, b 100; (Geneva), X, *b* 133, a 134
Allochroite (Mineralogy), XVI, a 429
ALLODIUM or Alodium, I, b 516
Alloiocœla, group (Planarians) (Ill.), XIX, a 184, a 185
Allomorphite (Mineralogy), XVI, a 417
Allopalladium (Mineralogy), XVI, b 398
Allophane, (Mineralogy), XVI, a 443
Allolobophora, group (Worms), XXIV, b 712, note, a 716
Allopora, genus (Hydrozoa) (Ill.), XII, a b 598
ALLORI, Alessandro, painter, I, a 517
ALLORI, Cristofano, painter, I, a 517
Allosauridæ, family (Zoology), XXIV, b 925
Allotheria, order (Zoology), XXIV, a b 925
Allotment notes (Seamen), XXI, a 636
Allotments, land (Commons), VI, b 187, a 188
Allotropic forms, phosphorus (Chemistry), V, b 446-7; selenium (Chemistry), V, b 432-3; sulphur (Chemistry), V, a b 432
ALLOTROPY, chemical, I, a 517
Alloway Kirk (Ayr), III, b 142
Alouez, Claude, missionary (Wisconsin), XXIV, a 652
ALLOXAN, compound, I, a 517; (Uric Acid), XXIV, b 16
ALLOY, I, a 517-8; (Gong), X, a 686; (Mint), XVI, b 509; (Money), XVI, a 751
—— cattle (Breeds), IV, a 224
—— coins (Mint), XVI, *a* b 506
—— tests for tempering (Iron), XIII, a 363
Alloys (Antimony), II, a 114; (Arsenic), II, a 555; (Assaying), b 633-6; (Bismuth), III, a b 687, b 686; (Bronze), IV, a b 330, b 331, a 332; (Cadmium), IV, b 558; (Cobalt), VI, a b 76; (Copper), b 311-2; copper

Alloys, *continued* (Iron), XIII, b 290; (German Silver), X, b 401; (Gold), X, a b 668-9; (Iridium), XIII, b 281-2; (Lead), XIV, a b 378; (Mercury), XVI, b 37-8; (Metals), a 73-5; (Nickel), XVII, a 502; Platinum, XIX, b 202-3, a b 205; (Sainte-Claire Deville), XXI, b 174, note; (Silver), XXII, a b 78; tin (Pewter), XVIII, b 738
——, conductivity of (Electricity), VIII, b 48-9; manganese, for steel (Iron), XIII, a 360, a b 361
All's Well that Ends Well (Drama), VII, a 362; (Shakespeare), XXI, a 800, a 805
ALL-SAINTS' DAY, I, b 509; (Gregory IV.), XI, b 159
Allsopp & Sons, S. (Burton-on-Trent), IV, *a* 510
All Souls' College (Oxford), XVIII, b 99-100; Libraries of, XIV, b 518
All-Souls' Day (November), XVII, a 621
Allspice (Pepper), XVIII, a 528; (Pimento), XIX, a 106, note
Allstedt, exclave (Saxe-Weimar), XXI, *b* 364, a 365
ALLSTON, Washington, painter, I, a b 518, b 633
All the Talents (Combe, Wm.), VI, b 161
All the Talents, ministry (England), VIII, b 325; (George III.), X, b 383-4; (Grenville), XI, b 166; (Holland, Lord), XII, a 103
All the Year Round (Dickens), VII, b 153, b 154
Alluvion, increase by (Riparian Laws), XX, b 580
ALLUVIUM, I, b 518; (Anthropology), II, a 103; Brahmaputra (Assam), a 629; Euphrates (Mesopotamia), XVI, b 55; (Geology), X, 245-7; (Gold), b 660, b 661, b 662, a 663-4; (Holland), XII, a b 64; (Hungary), a 376; (India), a 774; (Ostia), XVIII, b 64
Allyghur. See ALIGARH
Allwill, Correspondence of (Jacobi), XIII, b 546
Allwood, Thomas, inventor (Pontypool), XIX, b 474
Allyl iodide (Glycerin), X, b 623; isosulphocyanate (Chemistry), V, a 502; (Mustard), XVII, b 119
Allylic sulphide (Garlic), X, a 73
Allyn, Wm., cardinal. See ALAN
ALMA, river, I, b 518; battle of, 1854 (Artillery), II, b 584
—— Daga, mountains (Syria), XXII, a 860
Almada geological beds (Lisbon), XIV, b 696, note
ALMADEN, town, I, b 518; mines (Mercury), XVI, b 36, a 37; (Mining), b 490
ALMAGEST, book, I, b 518; (Astronomy), II, a 656; (Geography), X, a 159; (Gerard), b 395; (Moon), XVI, a 826; (Pappus), XVIII, b 233; (Ptolemy), XX, a *b* 92, *a* b 93, a 94 6
ALMAGRO, town, I, b 518
ALMAGRO, Diego de, conquistador, I, a 519; (Chili), V, a 537; (Peru), XVIII, b 690; (Pizarro), XIX, *a* 169
—— the Lad, prince (Peru), XVIII, b 690-1
Almai, girls. See ALME
Almakah, deity (Yemen), XXIV, a 778
ALMALI, town, I, a 519
AL-MAMUN, Al-Mamoun, or Al-Mamon, Abbasside caliph, I, a 519; (Anatomy), I, a 706; (Arabian Philosophy), II, a 234; (Earth), VII, a 516; (Geography), X, a 159; (Syriac Literature), XXII, *a* 88-9
——, Almohad caliph, 13th century (Spain), XXII, a 332
—— of Toledo, 11th century (Alphonse VI.), I, *b* 541
ALMANAC, I, b 519-21; (Fasti), IX, b 39; (Rabelais), XX, b 201; early printed (Typography), XXIII, b 727; nautical (Baily), III, b 211
Almanach de Gotha, I, a 521; (Perthes), XVIII, a 682
Almanack (Navigation), XVII, a 257, b 263, note, a b 267, a b 268-9
Almanack, Poor Richard's (American Literature), I, b 632; (Franklin, B.), IX, a 627
Almanacks, Book of (De Morgan), VII, a 59
Almandine (Mineralogy), XVI, a 429
Almandite, mineral (Garnet), X, *a* 74
ALMANSA or Almanza, town, I, a 521; battle of, 1707 (Berwick), III, a 527; (Cavalier), V, a 227; (France), IX, a 513
Al Mansúr, Almansor, or Almanzor. See MANSUR
——, Abú Yúsuf Yá kúb Ibn Yusuf, caliph of Cordova (Averroes), III, a 130
Almansor, Almansur, or Almanzor, Ibn Abí Amir Mohammed, caliph of Cordova (Alphonso V.), I, a 541; (Mansur), XV, b 507-8; (Spain), XXII, b 328-9
——, Plaza de, mountain (Spain), XXII, a 308
Almanzora river (Almeria), I, b 521
Almarda, Francisco d', count of Abrantes (Hottentots), XII, b 326
Almaty, town (Voernyi), XXIV, b 324
ALME, Almai or Awálim, singers, I, b 521; (Egypt), VII, *a* 630
ALMEIDA, town, I, b 521; battles of, 1810-1 (Wellington), XXIV, *b* 523
ALMEIDA, Don Francisco de, viceroy, I, b 521
——, Sir José d', physician (Gutta Percha), XI, b 302
——, Lorenzo de, navigator, I, b 521
Almelo, district and town (Overyssel), XVIII, b 81
Alméras, Pierre de', postmaster (Post-Office), XIX, b 596, a 599
Almeria, city, I, a 522
ALMERIA, province, I, b 521-2; (Spain), XXII, b 310, a b 311, b 312, a b 314, b 315, b 316, b 318
—— river (Spain), XXII, b 308
Almeria (Edgeworth, Maria), VII, b 567
Almery, recess (Architecture), II, b 402
Alminax, burlesque (Shaw), XXI, b 921
Almira, opera (Handel), XI, b 388
ALMOHADES, dynasty, I, a 522; (Algeria), b 498; (Arabian Philosophy), II, a 235; (Averroes), III, b 129; (Portugal), XIX, b 555, *a b* 556, a 557; (Spain), XXII, b 331-2; (Tunis), XXIII, a 661
Al-Mokanna. See MOKANNA
ALMON, John, publisher, I, b 522-3; (Contempt of Court), VI, a 283
ALMOND, tree and nut (Ill.), I, a b 523; (Botany) (Ill.), IV, b 137, b 139, a 142; (Fermentation), IX, b 84; (Horticulture), XII, b 278; (Peach), XVIII, b 453
——, biblical (Hazel), XI, b 490; bitter extract (Ratafia), XX, b 300; Oil, XVII, a 765, a b 766
—— river (Edinburgh), VII, b 569, a 570, b 571; (Linlithgow), XIV, b 675
ALMONDBURY, town, I, b 523
ALMONER, official, I, a 524
Almonry (Abbey), I, a 20, b 23; (Architecture), II, b 402; officers (Royal Household), XXI, b 42, notes
ALMORA, town, I, a 524
ALMORAVIDES or Al-Morabethun, dynasty, I, a 524; (Algeria), b 498; (Alphonso VI.), I, b 541, a 543; (Portugal), XIX, *a b* 555-6; (Spain), XXII, b 330-1
Almos, chief (Hungary), XII, a 382
Al-Mo'tamid of Seville, emir (Spain), XXII, *b* 330, a 331
Al-Motawakkil of Andalusia, emir (Spain), XXII, a 332
ALMQVIST, Karl, Jonas Ludwig, novelist, I, b 524; (Sweden), XXII, b 795-6
Alms-bowl (Buddhism), IV, b 389, b 390
Alms-gathering (Paul), XVIII, a 432
Almsgiving (Sacrifice), XXI, b 146; Buddhist (India), XII, a b 825
Alms-Giving no Charity (England), VIII, a 232
Almshouses (Architecture), II, a 403; (England), VIII, b 231-2
Almucantar, Chandler's (Telescopic Work), XXIII, b 935
Almuce or Aumuce, hood (Costume), VI, b 409
Almud, measure (Weights and Measures), XXIV, b 518
ALMUG or Algum, tree, I, a 525; (Incense), XII, b 756
ALMUNECAR, town, I, a 525
Al-Nahr, river. See OXUS
Al-Nasira, town. See NAZARETH
Alnus glutinosa, tree (Arboriculture), II, a 279
ALNWICK, town, I, a 525; (Northumberland), XVII, a b 580, *a* 582; abbey of Hulme, I, a 27
Alod or Alodium. See ALLODIUM
ALOE, plant, I, a 225; (Horticulture), XII, a 271; (Incense), b 756; (Italy), XIII, b 450, a 451; American (Mexico), XVI, b 221, b 910; fibre rope (Coal), VI, b 69-70; wood (Cambodia), IV, b 641
Aloein (Aloe), I, b 525
Alogi, sect (John, Epistle of), XIII, b 718, note; (Millennium), XVI, b 328; (Monarchianism), a 745
Al-'Olá inscription (Yemen), XXIV, b 775, a 778
ALOIDÆ or Aloiadæ, race, I, b 525
Alombrados, sect (Illuminati), XII, a 745
Alompra dynasty (India), XII, b 845
ALOMPRA, Aloung P'houra, king, I, b 525-6; (Burmah), IV, *b* 496-7
Alonzo, king. See ALPHONSO
Alopecia, disorder (Skin Diseases), XXII, b 129
Alopecias, fish (Shark), XXI, b 813-4
Alopecoids, group (Mammalia), XV, a 445
Alopecurus, genus (Grasses) (Ill.), XI, a 49, b 50, b 52
ALOST or Aalst, town, I, a 526
ALPACA, animal, I, a b 526; (Bolivia), IV, b 12; (Breeds), b 224; (Llama), XIV, b 745, b 746
Aloysia, plant (Verbena), XXIV, b 177
ALP ARSLAN or AXAN, Mohammed ben Daoud, sultan, I, b 526-7; (Greece), XI, b 105; (Merv), XVI, a 49; (Mohammedanism), b 610; (Seljuks), XXI, b 666; (Turks), XXIII, a 702
Alpe di Succisa, mt. (Italy), XIII, b 446
Alpen-horn (Trumpet), XXIII, b 630
ALPES, departments of France, Basses, Hautes and Maritimes, I, a b 527
ALPHA AND OMEGA, I, b 527
Alpha resin (Mastic), XV, a 628
ALPHABET (Ill.), I, b 527-40
    Chinese, a 530
    classification, a 534
    cuneiform, a 531
    Cyrillic, a 539-540
    Egyptian, a 532-3
    Greek, a 535-7
    hieroglyphic, a 529
    Phœnician, b 533
    Roman, b 537
    symbols, b 527-8
    Teutonic, a 538
—— (Mohammedanism), XVI, b 617, b 627; Armenian, II, a 482; (Battas), III, a 383; Burmese, IV, a 496; cuneiform (Inscriptions), XIII, a 122; Cyprian (Greece), XI, b 118; Cyprian (Hieroglyphics), XI, a b 722; Cyrillic (Greece), XI, a 103; Cyrillic (Slavs), XXII, a 157, a 159, note;

ALPHABET, *continued*
Egyptian (Egypt), VII, a 642; Etruscan, VIII, b 560; Glagolitic (Slavs), XXII, a 150, note; Gothic X, b 757; Greek (Homer), XII, b 115, note, b 117; Greek, origin of (Thera), XXIII, b 300; (Hebrew Language), XI, b 533–4; (Hieroglyphics), b 709–10, a 722; (Iberians), XII, a 640; Ionic (Homer), XII, *b* 115, note; Ionic (Greece), XI, b 120; Karthli (Georgia), X, a 390; Latin (Claudius, Emp.), V, a 714; Lycian, XV, b 95; Malayan, b 327; Maya (America), I, b 614; Maya (Indians), XII, a 868; Mongolian, XVI, b 776–7; Mongolian (Tibet), XXIII, b 367; Pahlavi, XVIII, a 139, a 140; Pali, XVIII, a 188, a 190; origin of (Philology), XVIII, b 780, a 784; Phœnician (Greece), XI, a b 82; (Phœnicia), XVIII, b 815, b 816, b 817, note, a 819; Sabæan (Yemen), XXIV, a 777; (Sanskrit), XXI, b 272–3, b 285; process (Shorthand), XXI, b 875–7; Siamese, XXI, b 895; Tamil, XXIII, a 47; Thamudæan (Yemen), XXIV, a 777; Tibetan, XXIII, a b 368, b 370; Uigurian (Turks), XXIII, a 704; Umbrian, XXIV, b 771
Alphabets of Asia, II, a 610
Alphabets (Cambodia), IV, a 642; (Maldive Islands), XV, a 334; (Scandinavian Languages), XXI, b 382, a 383; manual (Deaf and Dumb) (Ill.), VII, a b 9; Phonetic, XVIII, a b 825; universal (Speech-Sounds), XXII, b 404–5
Alphabetum Tibetanum (Lhasa), XIV, b 496, b 502, a 503
Alphæus, evangelist (James), XIII, b 562
Alpharabius. See AL FARABI
Al-phasi, Yishak Ya'akob Hakkohen, rabbenu (Riph), XX, b 581–2
Alphen, Hieronymus van, poet (Holland), XII, b 100
ALPHEUS, river, I, a 540; (Greece), XI, *a* 74; (Olympia), XVII, *a* 787
Alpho of Nericia, prince (Bridget, St.), IV, a 309
ALPHONSO I., Aragon, I, b 542; (Alphonso, VIII. of Leon), b 541; (Spain), XXII, b 330, *a* 331
—— II., I, a 543; (Spain), XXII, a 331
—— III., I, a 543; (Spain), XXII, a b 337
—— IV., I, a 543; (Spain), XXII, b 337
—— V., I, a b 543; (Italy), XIII, b 448–9; (Siena), XXII, *a* 47; (Spain), b 338, a 339; (Valla), XXIV, b 48
ALPHONSO I., Asturias, I, a 540
—— II., I, a b 540; (Oviedo), XVIII, a 88; (Spain), XXII, b 325–6
—— III., I, a 541; (Spain), XXII, b 326, b 327, a 328
ALPHONSO I. of Castile and VI. of Leon, I, a b 541; (Almoravides), a 524; (Portugal), XIX, a 555; (Cid), V, *a* 676; (Spain), XXII, *b* 330–1
—— II., I, b 541–2
—— III., I, b 542; (Minstrel), XVI, a 502
—— IV. to IX. See ALPHONSO of Leon, from VII. to IX., with the ninth of whom Leon ceased to be a separate kingdom
—— X., the Wise, I, a b 542; (Alchemy), b 411; (Cid), V, a 677; (Portugal), XIX, b 557, a 558; (Spain), XXII, a b 333, a 368
—— XI., the Avenger, I, b 542; (Algeciras), a 496; (Gibraltar), X, a 523; (Portugal), XIX, b 558; (Spain), XXII, a b 334
ALPHONSO I. to III. of Leon. See I. to III. of Asturias
—— IV., the Monk, I, a 541
—— V., I, a 541; (Fueros), IX, b 711; (Spain), XXII, b 326
—— VI., the Valiant, I, a b 541; (Almoravides), a 524; (Portugal), XIX, a 555; (Spain), XXII, *b* 330–1
—— VII., not counted in this succession. See I. of Aragon
—— VIII. or VII., Raimundez, I, b 541–2: (Portugal), XIX, *b* 555, a 556; (Spain), XXII, a *b* 331
—— IX. or VIII., I, a 542; (Spain), XXII, a 332
Alphonso I., Naples. See ALPHONSO V. of Aragon
—— II. (Ferdinand II.), IX, a 69; (Siena), XXII, a b 47
ALPHONSO I., Portugal, Enriquez, I, b 543; (Portugal), XIX, b 555–6
—— II., the Fat, I, b 543; (Portugal), XIX, a 557, a 571
—— III., I, b 543; (Portugal), XIX, b 557–8, b 570
—— IV., I, b 543–4; (Castro), V, *a* 176; (Portugal), XIX, a b 558
—— V., Affricano, I, a 544; (Heraldry), XI, a 611; (Portugal), XIX, a 560, b 571; (Spain), XXII, a 340
—— VI., I, a 544; (Portugal), XIX, b 563–4
Alphonso XII., king of Spain, XXII, b 360
Alphonso I., Ferrara, duke (Este), VIII, b 493
—— II. (Tournebout), XXIII, a 521
Alphonso de Cartagena. See ALPHONSUS
Alphonse of Toulouse. See Alfonso and Joan
—— Jourdain, count (Toulouse), XXIII, *a* 517
Alphonsine Tables (Albategni), I, a 398; (Alphonso X.), b 542
ALPHONSUS a Sancta Maria, historian, I, a 544
Alphonsus, Comical History of (Greene, R.), XI, a 147
Alpi Appuani, mountains (Apennines), II, b 149
Alpi della Luna, mountains (Italy), XIII, a 447
Alpine Dogs, VII, b 283; fauna (Ichthyology), XII, a 708, *b* 710, a 711, b 712, b 713, a 714; flora (Himalaya), XI, a 743; (New South Wales), XVII, *b* 420; (Norway), a 595; glaciers, ancient (Geology), X, a 326; Lakes, XIV, a b 218, a 219, a b 221–2; Marmot (Ill.), XV, a 567; Shrew, XXI, b 883
ALPINI, Prospero, botanist, I, a b 544; (Rhubarb), XX, a 545
Alpinia, genus (Galangal), X, *b* 17
Alpnachersee, bay (Lucerne), XV, b 43
ALPS, I, b 544–59
  ancient divisions, b 546
  Bibliography, a 559
  cartography, b 559
  chief peaks, a 548 *et seq.*
  climate, b 555
  fauna, a 557
  flora, a 558
  geology, a 559
  glacial region, b 556
  limits of, a 545
  main chains, a 545
  divisions, a b 547
  passes, a 546, a b 548, a b 549, a b 550, a b 551, a b 552, a 553, a b 554, a b 555
  population, a 557
  vegetation zones, b 555

—— (Apennines), II, b 149; (Austria), III, b 100, a 101, a 102; (Europe), VIII, a 600; (Forbes, J. D.), IX, a b 344; (France), a 446; (Glacier), X, b 559–62; (Himalaya), XI, a 738; (Hindu Kush), a 748; (Saussure), XXI, a 339; Styrian, XXII, a b 646; (Hungary), XII, *b* 375, a 376; (Switzerland), XXII, a b 814, *b* 815, a b 816, a 817, a 836; (Tunnels), XXIII, b 664; (Var), XXIV, b 75
—— crossing of (Hannibal), XI, a b 395; Dinaric (Herzegovina), XI, *a* 693; flora of (Distribution), VII, b 250; Julian (Hungary), XII, b 375, a 376; miocene period of (Geology), X, a b 322–3; mountain pastures (Switzerland), XXII, a 818; physiography of (Geology), X, a 330, a 332; southern (Italy), XIII, *a b* 444, a 445, a 446; triassic period of the (Geology), X, *b* 313; winds among (Meteorology), XVI, b 130
Alptigín, amír (Ghazni), X, *b* 501; (Sámánid Dynasty), XXI, b 253
ALPUJARRAS or Alpuxaras, district of Spain, I, b 559; river (Spain), XXII, b 308
Alred, bishop. See ALDRED
ALREDUS, historian, I, a 560
ALRESFORD, New, town, I, a 560
Alroy or Alrui, David, false Messiah, XVI, a 61 note
Al-Russ, town, ('Oneiza), XVII, b 795, note
ALSACE, province, I, a 560–1; (Charles of Burgundy), V, a b 368; (France), IX, b 503, b 509, b 552; (Switzerland), XXII, a *b* 825, b 830; (Wellington), XXIV, *a* b 525; history of (Germany), X, b 449, *b* 450, b 459, a 461; Upper (Colmar), VII, *b* 135
Alsace Lorraine (Algeria), I, a 502; statistics of (Germany), X, b 404, a *b* 405, a 406, *a* b 408, a b 409, b 410, a b 412, *b* 413, b 416, a *b* 417, a *b* 418, a 420, *b* 421, a 423
Alsadamus or Alsalamus, mountain (Bachan), III, a b 354
Alsager, village (Cheshire), V, b 512
ALSEN, island, I, a 561; (Denmark), VII, *b* 78; (Schleswig-Holstein), XXI, *a* 432
Alsh loch (Skye), XXII, b 134–5
Alsina, governor of Buenos Ayres (Argentine Rep.), II, *a* 433
Alsloot, Denis van, painter (Oboe), XVII, a 726, note
ALSOP, Vincent, theologian, I, a 561
Alsophila, genus (Ferns), IX, b 89; (Tree-Fern), XXIII, *a b* 568
ALSTED, Johann Heinrich, encyclopædist, I, a 561; (Encyclopædia), VIII, a 174. b 176–7
Alster river (Hamburg), XI, a b 361, b 364
ALSTON, Charles, physician, I, a 561; (Botany), IV, b 72
—— mountain (Vancouver's Island), XXIV, a 64
Alstonia plant (Gutta Percha), XI, b 303; (India-Rubber), XII, b 880
Alstonite (Mineralogy), XVI, a 415
Alston Moor, town (Aldstone), I, a 421; smelting works (Lead), XIV, a 376
ALSTROEMER, Jonas, industrial reformer, I, a 561
Alströmeria, plant (Botany) (Ill.), IV, b 97, b 112, a b 113; (Horticulture), XII, a 257
ALT or Aluta, river, I, b 561; (Transylvania), XXIII, a 555
ALTAI MOUNTAINS, I, b 561; (Asia), II, a 600; (Semipalatinsk), XXI, *a* 671; (Siberia), XXII, a 6, *b* 7, *b* 8, *a* 9, b 10 note, a 11, a *b* 14, *a* 15, note, *b* 17; (Tomsk), XXIII, b 465, a b 466, a 467; people of (Tartars), XXIII, b 76–7
Altaite (Mineralogy), XVI, b 407
Altamaha river (Georgia), X, a 391, b 392
ALTAMURA, town, I, b 561
Altan Khan, Tumed chief (Mongols), XVI, b 770; (Tibet), XXIII, a 368
ALTAR (Ill.), I, b 561–4; (Basilica), III, a 358, b 360
—— pieces, paintings (Bellini), III, b 472; (Canini), IV, a 712; (Ghirlandajo, D.), X, a b 508; (Giorgione), X, a *b* 542; *a* 543; (Gossart), X, *b* 749–50; (Gozzoli), XI, *a* 23; (Herlen), a 661; (Holbein), XII, a b 57; (Memling), XV, a b 854, a 855; (Orcagna), XVII, b 838

Altar of St. James, silver (Pistoia), XIX, a 141
—— of the Semnæ (Athens), III, a 4; worship (Temple), XXIII, b 181; of Zeus (Olympia), XVII, b 790; Zeus Soter (Pergamum), XVIII, b 538
Altare, Col d', mountain (Alps), I, a b 545, a 548
Altars (Crypt), VI, *a* 591; (Metal-work), XVI, a b 80, b 81; ancient (Chester), V, a 526; Jewish (Pentateuch), XVIII, a 520
Altasrif (Medicine), XV, a 815
Altazimuth theodolite (Geodesy) (Ill.), X, a 148
ALTDORF or Altorf, Swiss town, I, b 564
—— Bavarian town (University), XXIII, b 901, a 904
ALTDORFER, Albrecht, painter, I, b 564
Alte und der Neue Glaube, der (Strauss), XXII, a 621
Alten-Elv, river (Norway), XVII, b 589
ALTENBURG, town and district, I, b 564–5; (Saxony), XXI, a 373; (Saxe-Altenburg), *a b* 362
——, T. E., author (Trumpet), XXIII, a 631
Altenkirchen, battle of, 1799 (Soult), XXII, a 293
ALTEN OETTING or Altoetting, town, I, a 565
ALTENSTEIN, castle, I, a 565
Alternate current machines (Lighting), XIV, b 637–7
Alternations of generations (Annelida), II, a 60; (Biology), III, a 595; (Botany), IV, b 146; (Insects), XIII, a 153; (Muscineæ), XVII, b 72; (Reproduction), XX, b 442, a b 443–4; (Trematoda), XXIII, a 569, b 571–2, b 574
—— of strata (Geology), X, a b 261
Alterthumsweissenschaft (Germany), X, b 476
Al-Teysir (Medicine), XV, a b 815
Althæa, plant (Botany) (Ill.), IV, *a* 118, a 124, a 126; (Hollyhock), XII, a b 106; (Horticulture), a 264
Althæa from Prison, To (Lovelace), XV, b 30
Altham, Emanuel, traveller (Dodo), VII, a 279
Althann, Countess (Metastasio), XVI, b 109, *a* 110
Althaus, Clemente, poet (Peru), XVIII, a 689
Al-thing, assembly (Iceland), XII, b 653–4, b 655, a 656, a 657
Althorp, Lord. See SPENCER
Altieri, Emilio. See CLEMENT X.
——, Paluzzi, cardinal (Clement X.), V, a 719
ALTIN, Siberian lake, I, a 565
—— Tagh, mountains (Tibet), XXIII, a 363, b 365
ALTING, Heinrich, theologian, I, a 565
ALTING, Jacob, divine, I, a 565
Altinum, city (Italy), XIII, a 446; (Venice), XXIV, a 160, note
Altionos, town. See TOURS
Altis, the (Olympia), XVII, a b 788, a 790-2
Altitudes (Geodesy), X, b 153–4; barometrical measurements of (Atmosphere), III, b 27; (Barometer), a 332–4; determination of (Spain), XXII, b 743–4, b 749-50, b 755; double (Navigation), XVII, a 259, b 267, note; effect on life of (Distribution), VII, b 232-3; equal (Navigation), XVII, a b 281; observation of (Navigation), XVII, b 275–8
Altmark, district (Saxony), XXI, a b 375, a 376
Alto de el Trio, mountain (Colombia), VI, b 137
—— de el Viejo, mountain (Colombia), VI, b 137
—— Douro, district (Portugal), XIX, a 553; (Wine), XXIV, a 640, *a* 641
ALTON, Hampshire, town, I, b 565
ALTON, Illinois, town, I, b 565
Alton Locke, novel (Kingsley), XIV, a *b* 90, a 91
ALTONA, Prussian city, I, b 565; (Hamburg), XI, a b 361, *b* 364, *a* 365; (Observatory), XVII, b 732; (Schleswig-Holstein), XXI, *b* 432, a 433
ALTOONA, Pa., town, I, b 565
Altorf, town (Switzerland), XXII, b 816
Alto-Orinoco, territory (Venezuela), XXIV, a b 152
ALTO-RILIEVO, I, b 565–6
Altoviscar, mt. (Navarra), XVII, a 256
ALTRINGHAM or Altrincham, town, I, a 566
Altruism, conduct (Comte), VI, a 211, a 212; (Metaphysic), XVI, b 106
Alt-Ruppin, town (Neu-Ruppin), XVII, a 374
Alt-Sandec, town (Neu-Sandec), XVII, a 374
Alt-Strelitz, town (Neu-Strelitz), XVII, b 375
Altvater, mountain (Germany), X, b 403
Aluco, genus (Owl) (Ill), XVIII, b 92, note, a b 93, b 94
Aludels, apparatus (Mercury), XVI, a 37
ALUM, I, a 566-9
    clay processes, a 569
    constituents, a 566
    history, b 566–7
    manufacture, b 567–9
    minerals, a b 567
    slate, b 567, b 568
    roasting of, a 568
    Tolfa process, b 567–8
—— (Adulteration), I, *b* 155; (Holly), XII, a 105; (Leather), XIV, b 389; (Mineralogy), XVI, a 419; (Oland), XVII, a 774; in bread (Baking), III, a 220; mordant (Dyeing), VII, b 497–8
—— root, drug (Geranium), X, a 395
ALUMBAGH, park, I, a 569
Alumen, mineral (Alum), I, b 566
Alumina, mineral (Chemistry), V, b 461; (Fire-clay), IX, b 207, a b 208; (Furnace), b 741; (Iron), XIII, a 295; (Mineralogy), XVI, a 401, a–b 402, b 403; (Ruby), XXI, b 54; sulphate (Alum), I, b 567
Aluminite, mineral (Alum), I, b 567; (Mineralogy), XVI, a 418
ALUMINIUM, metal, I, a 569; (Chemistry), V, *b* 461, a 462; (Cryolite), VI, b 590; (Indium), XII, *b* 885, a 886; (Mineralogy), XVI, a 404; (Mining), b 489; (Sainte-Claire Deville), XXI, b 174; (Wöhler), XXIV, *b* 660, a 661
—— bronze, I, b 569; (Bronze), IV, b 330; (Metals), XVI, b 70, b 73; (Copper), VI, b 311
—— chloride, solubility of (Chemistry), V, a 420; fluxes (Iron), XIII, b 303; spectra, (Spectroscopy), XXII, a 391; sulphate (Sulphur), XXII, b 670-71
Alums (Chemistry), V, a 455; iron group (Chemistry), V, b 463
Alum-stone, I, a 567
Alunite (Mineralogy) (Ill.), XVI, a 419
Alunogene, mineral (Alum), I, b 567; (Mineralogy), XVI, a 418
Alupo, cape (Caria), V, b 90
Aluredus or Alredus. See Ailred
—— of Beverly (Alredus), I, a 560
Aluta river. See Alt
ALVA, village, Scotch, I, b 569; (Stirling), XXII, b 580
ALVA OR ALBA, Fernando Alvarez de Toledo, duke of, I, b 569–70; (Egmont), VII, *b* 606; (Holland), XII, *a b* 78; (Philip II.), XVIII, a b 758, a 759; (William the Silent), XXIV, b 614, a b 615
ALVARADO, Pedro de, explorer, I, b 570; (San Salvador), XXI, b 281
ALVAREZ, Francisco, traveller, I, b 570· (Abyssinia), I, b 64
ALVAREZ, Don José, sculptor, I, b 570
——, Juan, president (Mexico), XVI, b 897; (Santa Ana), XXI, b 905
ALVAREZ, Don Manuel, sculptor, I, b 570
——, Mariano, general (Gerona), X, b 490
Alvaro de Luna, politician (John II., Castile), XIII, a 727
Alveolar abscess (Dentistry), VII, a b 85; passage (Respiration), XX, *a* 489; sarcoma (Pathology) (Ill.), XVIII, b 375, a 376; thyroid formation (Pathology), XVIII, b 393
Alveoli (Respiration) (Ill.), XX, *a* b 489; of stomach (Digestive Organs), VII, b 195; of teeth (Digestive Organs) (Ill.), VII, a b 203, b 205
Alveolina, group (Foraminifera) (Ill.), IX, a 330, a 331, b 338
Alveolinina, genus (Protozoa), XIX, b 869
Alvinzi, Joseph, baron de, marshal (Austria), III, a 114
Alrismal, book (Eddo), VII, b 564
Al-Wákidí. See Wákidí, Al
ALWAR, state, I, b 570-1; town, I, *a* 571
Alwin, Henry Fitz, mayor (London), XIV, a 855
Alwung Bey. See Alamut
Alyattes, Lydian king (Crœsus), VI, b 525; (Persia), XVIII, b 575, note; (Smyrna), XXII, a b 196
—— tomb of (Archæology), II, b 303–4; (Lydia), XV, a 100, a 102
Alyn, river (Flint), IX, *a* 286
ALYPIUS, musician, I a 571
ALYPIUS of Antioch, geographer, I, b 571
—— of Tagaste (Augustine), III, *a* 67
Alyssum, plant (Botany) (Ill.), IV, a 80, b 108, a 123; (Horticulture), XII, a 257
ALYTH, town, I, b 571
Alzet river (Luxemburg), XV, b 88
Ama-baca tribe (Cape Colony), V, a 43
Ama-bomvane tribe (Cape Colony), V, a 43
Amadavat, bird (Weaver Bird), XXIV, b 489
Amade, Ladislaus, poet (Hungary), XII, b 391
Amadeus II., count (Savoy), XXI, b 354–5
—— III., count (Savoy), XXI, a 356
—— IV., count (Savoy), XXI, a 356
AMADEUS V., the Great, I, b 571; (Geneva), X, *b* 133; (Savoy), XXI, a 356
—— VI. (Geneva), X, b 133; (Savoy), XXI, a 356
—— VII., count (Savoy), XXI, a 356
AMADEUS VIII., Pope Felix V., I, b 571; (Geneva), X, a 134; (Italy), XIII, b 493; (Popedom), XIX, a b 517; (Savoy), XXI, a b 356
—— IX., duke (Savoy), XXI, b 356
—— of Aosta, king (Prim), XIX, a b 752; (Spain), XXII, a b 360
—— of Assisi, friar (Franciscans), IX, b 615
A-Madi, tribes (Niam-Niam), XVII, b 486, *b* 487
AMADIS of Gaul, Spanish Romance, I, b 571–2; (Cervantes), V, a 307; (France), IX, a 575; (Portugal), XIX, a 571; (Romance), XX, a 670-3; (Spain), XXII, a 369
Amador county (California), IV, *a* 622
Amador Bueno, king (Brazil), IV, a 207
AMADOU, fungus, I, a 572; (Matches), XV, b 631
Ama-Fengu Kaffres (Kaffraria), XIII, b 827, a 828, note
Amagat, E. H. M., physicist, (Manometer), XV, b 502; (Pneumatics), XIX, a b 254, a b 255
Amage, Sarmatian queen (Scythia), XXI, a 605
AMAGER or Amak, island, I, a 572; (Copenhagen), VI, b 304, a 307
Amalaberga, queen (Germany), X, a b 428

Amalaric, Ostrogothic king (Goths), X, b 755, a 756
AMALASONTHA or Amalasuentha, regent, I, b 572; (Theodoric), XXIII, b 276
AMALEKITES people, I, b 572–3; (David), VI, a b 738, note
AMALFI, town, I, b 573; (Pisa), XIX, b 128
AMALGAM, I, b 573; (Cadmium), IV, b 558; (Gilding), X, b 530; (Mercury), XVI, b 37–8; (Mineralogy), a 398; (Mirror), a b 523; (Niello), XVII, b 507; filling (Dentistry), VII, a b 86
Amalgam (Mercury), XVI, b 37–8; (Mineralogy), XVI, a 398; (Mirror), a b 523
Amalgamated Society of Engineers (Trade Unions), XXIII, b 532–3
Amalgamation (Metallurgy), XVI, a 63
Amalgamation process (Gold), X, a 665–6; (Metallurgy), XVI, a 63; (Silver), XXII, b 76–7; in mining (Born), IV, a b 49
Amalgams (Alchemy), I, a 412; in art (Japan), XIII, b 601
Amali, house of (Goths), X, a 754, a b 755
AMALIA, Anna of Saxe Weimar, duchess, I, b 573; (Goethe), X, b 648, a 654, b 655
AMALRIC or Amauri of Bena, pantheist, I, a 574; (Mysticism), XVII, b 139; (Scholasticism), XXI, a b 444
——, Almeric, or Amaury, king of Jerusalem (Crusades), VI, a b 554; (Egypt), VII, a 653; (Templars), XXIII, *b* 176, a 177; (William of Tyre), XXIV, *b* 615, *a* 616
Amals, dynasty (Jordanes), XIII a *b* 758
AMALTEO brothers, poets, I, a 574
AMALTEO, Pomponio, painter, I, a 574
Amambahy hills (Brazil), IV, a 199, b 200
Amana community, VI, a 193, a 194
—— river (Lebanon), XIV, b 394. See Abana
Amanat river (Lohárdagá), XIV, *b* 815
Amancaes, lily (Peru), XVIII, b 683
Amance river (Marne, Haute), XV, a 569
Amand, St., missionary (Ghent), X, b 504
Amanguchi, city (Xavier), XXIV, b 753
Amanian Pass (Alexander the Great), I, a 426
Amans, St., bishop (Rodez), XX, *a* 633
Amanus Mount (Asia Minor), II, *b* 616; (Cilicia), V, *b* 679; (Syria), XXII, a 860
Amaor, tribe (Amorites), I, a b 655
Amapala, port (Honduras), XII, b 133, a 134, b 135, a 136
Ama-pondo tribe (Cape Colony), V, a 43
Amara-kosha (Sanskrit), XXI, b 307
Amaral, Ferreira de, governor (Macao), XV, a 126
Amarantaceæ (Botany), IV, a 137
Amarante Islands (Africa), I, b 243
AMARANTH or Amarant, plant, I, a 574
Amar Dás, Sikh chief (Punjab), XX, *b* 116
AMARAPURA or Ummerapoora, town, I, a 574; (Ava), III, *a* 125; (Burmah), IV, a 497, note, a 495
AMARA SINHA, grammarian, I, b 574
Amargosa river (California), IV, b 618; (Nevada), XVII, b 376
'Amárineh, Tell-el, district (Egypt), VII, b 672
Amaro, mountain (Apennines), II, a 150
Amároté, town (Berar), III, *b* 503
Amaroucium, genus (Tunicata), XXIII, a 657
Amaryllis, plant (Botany), IV, b 75, a 125; (Horticulture), XII, a 257, b 274
Amarynthos, Amphictyony of, I, a 679
AMASIA or Amasiayah, town, I, b 574; (Pontus), XIX, a 474
Amasis or Amosis. See Aahmes
AMASIS I., king of Egypt, I, b 574; (Cambyses), IV, a b 648; (Egypt), VII, b 644; (Polycrates), XIX, b 430
—— II., Egypt (Persia), XVIII, b 583
Amassing, town (Bachian), III, b 170
Amastris, city (Numismatics), XVII, a 662; (Paphlagonia), XVIII, b 231
——, princess (Lysimachus), XV, *a* 121
AMAT, Felix, historian, I, a 574
Amateurs (Athletes), III, b 12, a 13; (Wrestling), XXIV, b 726
AMATI, family, I, a 575; (Violin), XXIV, a b 263
AMATITLAN, town and lake, I, a 575; (Guatemala), XI, b 212, a 213
Amativeness, organ of (Phrenology), XVIII, a 859
Amatola mountains (Käffraria), XIII, b 825
Amaurobius, spiders (Arachnida), II, a b 260
AMAUROSIS, disease, I, a 575; (Ophthalmology), XVII, b 806
Amaury. See AMALRIC
Ama-Xesibi, tribe (Cape Colony), VI, a 43
AMAXICHI or Amaxikhi, town, I, a 575; (Santa Maura), XXI, a 312
Ama-Xosa, tribes (Kaffraria), XIII, *b* 826, b 827, *a* 828
AMAZON, river, I, a b 575; (America), *b* 592, a 593, *a* 621; (Brazil), IV, b 199, a b 200, b 202, a 203; (Colombia), VI, a 138; (Forests), IX, b 357; (Geology), X, a 247; (Humboldt, A.), XII, b 357; (La Condamine), XIV, a 194; (Meteorology), XVI, b 150, b 158
—— ants, II, a b 86; discovery of the (Geography), X, a 162, b 165; exploration of the (Acuña), I, b 123; explorations of (Geography), X, a 174; Indians of the Upper (America), I, a 608; navigation of the (Brazil), IV, *b* 215; vegetation on (Brazil), IV, a *b* 203, a 204
—— stone (Granite), XI, b 43; (Jade), XIII, a 550; (Mineralogy), XVI, a b 437
Amazonas, territory (Venezuela), XXIV, a b 152
Amazonian group (Birds), III, b 645, a b 647, b 651
AMAZONS, warriors, I, b 575–6; (Antiope, 2), II, b 117; (Areopagus), a 424; (Dahomey), VI, a b 676; (Ephesus), VIII, a 414, a 416; (Phrygia), XVIII, b 864, note; (Theseus), XXIII, b 315; in sculpture (Archæology), II, a b 312
Ama-Zulus (Kaffraria), XIII, b 827, a b 828; (Natal), XVII, b 248. See Zulus
Ambagarh hills (Bhandárá), III, a 542
AMBÁLÁ, division, district and city, I, b 576–7; (Cis Sutlej States), V, b 692, a 693; (Punjab), XX, b 114, b 115
Ambarawa, town (Java), XIII, a 617
Ambaree (Fibres, textile), IX, a 116
Ambar See, river (Tigris), XXIII, a 413
AMBARVALIA, festival, I, b 577
Ambas, bay of (Cameroons), IV, a 656
AMBASSADOR, I, b 577–9; (International Law), XIII, b 196, a b 199; defined (Wotton), XXIV, a 721; liability of (Treason), XXIII, b 561–2; powers of (Diplomacy), VII, a 220
AMBATO, town and plain, I, b 579; (Ecuador), VII, b 558
AMBER, I, b 579–80; (Burmah), IV, a 493; (Dragon Fly), VII, b 336; (Electricity), VIII, *b* 4, *a* 5; (Ethnography), VIII, a 543; (Insects), XIII, a 148; (Libau), XIV, a 504; (Mineralogy), XVI, a 447; (Phæthon), XVIII, a 741; (Prussia), XX, a 19, b 24; (Pytheas), a 150
—— of Ezekiel (Enamel), VIII, a 167; malt (Brewing), IV, *a* 241; mountain (Madagascar), XV, b 169, a 170; trade in (Phœnicia), XVIII, b 819; (Varnish), XXIV, a 100
Amberbaki, tribe (New Guinea), XVII, b 397
AMBERG, walled town, I, b 580
AMBERGRIS, I, b 580; (Mammalia), XV, b 399; (Whale), XXIV, a 554
AMBERT, town and district, I, a 581; (Puy de Dôme), XX, *b* 126
Ambilustrium, ceremonial (Lustration), XV, b 71
AMBLESIDE, town, I, a 581
AMBLETEUSE, town, I, a 581
Amblycephalidæ, family (Snakes), XXII, b 203, b 205
Amblygonite (Mineralogy), XVI, a 425
Amblyopia, disease (Ophthalmology), XVII, b 806; (Tobacco), XXIII, b 455
Amblyopsis, fish (Ichthyology), XII, *b* 714, b 731
Amblypoda, fossils (Mammalia), XV, b 431–3
Amblyrhynchus, genus (Lizard), XV, b 738
Amblystegite (Mineralogy), XVI, b 433
Amblystoma, genus (Amphibia), I, b 666, a 667, a 675, b 676; (Siredon), XXII, *a b* 104, note
AMBO or Ambon, desk, I, a 581
Ambòhimànga, town (Madagascar), XV, a 176
Ambòhitra, mountain (Madagascar), XV, b 169, a 170
AMBOISE, town, I, a 581; (Condé I.), VI, *a* 218
—— bell, Rouen (Bell), III, a 463, b 464
——, F., de, dramatist (Drama), VII, b 366, note
——, George, of Rouen, cardinal (France), IX, a b 489; (Rouen), XXI, *b* 17
Amboyna (Dryden), VII, a 424
AMBOYNA, island and town, I, a 581; (Indian Archipelago), XII, a 855 note, a 857, a 858, *b* 859; (Phalanger), XVIII, a 741; (Moluccas), XVI, a 723
——, massacre of, I, b 581; (India), XII, a 838
Ambra, poem (Medici), XV, a 797
AMBRACIA or Ampracia, city, I, b 581
Ambrein, chemical product (Ambergris), I, a 581
Ambrette, drug (Gumbo), XI, a 245
Ambrizians, people (Congo), VI, *a* 237
Ambro, cape (Madagascar), XV, b 168
Ambrogini. See POLITIAN
Ambrogino di Milano, sculptor (Urbino), XXIV, a b 14
Ambros, August Wilhelm, composer (Palestrina), XVIII, b 183, b 184; (Pianoforte), XIX, b 73
Ambrogio Lorenzetti. See Lorenzetti
AMBROSE of Alexandria, I, a 582
AMBROSE, St., Milan, bishop, I, a 582–4; (Antiphony), II, b 118; (Apparitions), b 178; (Augustine), III, *a* b 66, *a* 67; (Ethics), VIII, b 521–2; (Fathers of the Church), IX, b 44, a 45; (Hymns), XII, b 615–16; (Milan), XVI, b 303, b 304; (Music), XVII, *a* 87; (Pelagius), XVIII, b 481; (Plain Song), XIX, b 179, *a b* 180; (Popedom), XIX, b 505; (Theodosius), XXIII, *b* 278; (Valentinian), XXIV, a 43

AMBROSE, Isaac, divine, I, a 584
AMBROSIA AND NECTAR, XVII, a b 322
Ambrosian Breviary, IV, b 235; chant (Plain Song), XIX, b 179; Hymns, XII, a b 616; Liturgy, XIV, a 714
Ambrosiana, Biblioteca, Milan (Libraries), XIV, a b 530, b 550
Ambrosio or the Monk, romance (Lewis), XIV, a b 493
AMBROSIUS, Aurelianus, general, I, a b 584; (Romance), XX, b 658 note, a 661 note
Ambrym, island (New Hebrides), XVII, a 405
Ambulacra of Blastoidea (Echinodermata), VII, b 553
Ambulacral plates (Echinodermata) (Ill), VII, b 544-5
—— system of asteridea (Echinodermata), VII, b 547, b 548; Echinidea (Echinodermata), a b 546; holothuridea (Echinodermata), b 554, a 555; of ophiuridea (Echinodermata), b 549–50; rise of (Animal Kingdom), II, b 47–8
AMBULANCE, I, b 584–7
  administration, b 584
  equipment, b 586
  staff, a 586
  stations, b 585

—— corps (Geneva Convention), X, b 136; service, British (Army), II, a 511
Ambulatory (Cloister), VI, b 35
Amburbium, festival (Lupercalia), XV, b 67, a 68; (Lustration), b 71
Amchensk, town. See Mtsensk, XVII, a 18
Amdo, district (Tibet), XXIII, b 363, a 365; city, *b* 367
Ameca-meca, town (Toluca), XXIII, a 465
Ameer, title. See Amir
Ameilhon, Hubert–Paschal, antiquary (Bibliography), III, b 572
Ameland, island (Holland), XII, b 62, b 63, a 65
Amelia, novel (Fielding, H.), IX, b 128
Amelia, Anna, princess of Prussia (Quedlinburg), XX, a 176; (Trenck), XXIII b 576
Amélie-les-Bains, spa (Pyrénées), XX, *a* b 134, (Mineral Waters), XVI, b 454
Amelius, philosopher (Neoplatonism), XVII, a 346
AMELOT DE LA HOUSSAYE, Abraham Nicholas, historian, I, a b 587
AMELOTTE, Denis, author, I, b 587
Amen, god. See AMMON
Amendments to the Constitution (United States), XXIII, *a b* 799, *b* 829, *a* b 830, *b* 832
Amenemhat I., king (Egypt), VII, b 636-7
—— III., VII, a 615, a 637
Ameno, Sinistrari de, jurist (Witchcraft), XXIV, a 656
Amenophis or Amenhotep I., king (Egypt), VII, a 639
—— II., VII, b 639-40
—— III., VII, a 640, a 674, a 676, b 678
—— IV., VII, b 621, a 640
Amenophium, temple, Thebes (Egypt), VII, b 673, a b 676
Amenti, genii (Egypt), VII, a 621, b 622
Amentia, disease (Insanity), XIII, b 103
AMENTIFERÆ or Amentaceæ, plants (Ill.), I, b 587
Amentum, genus (Botany) (Ill.), IV, b 107, b 110
Amer, Saracen chief. See AMRU-BEN-EL-ASS
Amerbach, Johann, printer (Erasmus), VIII, b 454, a 455; (Typography), XXIII, a 739
Ameretát, angel (Zoroaster), XXIV, b 861
AMERICA (Plates X, XI), I, b 587-630
  ABORIGINES, I, b 602-19; antiquities, a 603; Araucanians, b 615; Chili, a 615; civilization, b 609; divisions, b 602; Esquimaux, a 606; Guaranis, a 616; Indians, a 606-19; languages, a 604-6, b 614; Mexico, a 610; origin, b 607; outward aspects, a 603; Paraguay, b 616; Patagonians, a 616; Peru, a 611-14; Peruvians and Chinese, b 613; Toltecs, a 607; Whitney on Languages, a 605-6
  Botany, a 601–2
  Brazil, a 623, b 624
  Central American Antiquities, b 608-9; climate, b 597-8; traditional history, b 617-9
  climate, a 593-5
  colonies, Early, b 621–3
  contour and surface, a b 588
  discoveries, b 619–21
  forest, Map, a 594
  fossil fauna, b 599–600
  gold mines, a 623
  index, 628 * * *
  North American climate, b 597; geology, b 596; highlands, a 595–6; mammalia, b 600; minerals, a 597; mountains, b 591; political divisions, b 623-4, b 626
  political divisions, b 623–7
  prospects, b 628–30
  rivers, b 592
  South American Geology, b 589; mountains, a 589; political divisions, b 624-6
  Spanish American revolutions, b 622-3
  transits of continent, b 627
  United States, b 623
  West Indies, a 627
  zoology, a 598-601
——, Aborigines, I, b 602-19; (Religion), XX, b 376-7; (Barrows), III, a 344; (Burke), IV, a b 482, a b 486; (Forests), IX, b 349, b 356–8; (France), *a* 517, a 520; (Hume), XII, b 363 note; (Ichthyology), XII, a b 671, a b 712; (Magic), XV, *a* b 201, a 206; (Protestants), XIX, a b 848
——, Central, I, b 608–9; rainfall of (Meteorology), XVI, b 158; (Reptiles), XX, b 483, a b 484
——, discoverers, I, b 619–21; in North (Geography), X, b 161, a b 162–3, a 164–5, a 167, a 170, a b 172; in South (Geography), b 162-3, a 165, a b 166, b 171, *b* 174
——, discovery of (Antwerp), II, b 127; (Commerce), VI, a b 180; (Hakluyt), XI, a b 338; (Money), XVI, a 755; Scandinavian (Geography), X, b 159
——, emperor of (Charles IV.), V, b 363; faunal literature (Reptiles), XX, a 454; magnetic pole of (Meteorology) (Ill.), XVI, b 169, a 171, b 177, b 182
——, North, I, b 591–8, b 592–3, a 595–8, b 601–2, a 605–7, b 619-22, b 623–4; Archæan rocks (Geology), X, a 290–1; Cambrian system (Geology), a 293; Carboniferous system (Geology), a b 311; Cretaceous system (Geology), a b 319, b 330; Devonian system (Geology), a b 306; Jurassic system (Geology), b 316-7; (Meteorology), XVI, b 147, a 151, a 154, b 160, b 162; (Monachism), b 741; oldest European city in (Panama), XVIII, b 212; prehistoric trade (Greenland), XI, a 153; Quaternary system (Geology), X, a 328–9; rainfall of (Meteorology), XVI, b 157–8; Tertiary system (Geology), X, a b 324; Triassic system (Geology), a 314; (Reptiles), XX, b 484–5, b 486
—— origin of name (Vespucci), XXIV, a 209, note; Schöner's delineation of (Globe), X, a b 607, a 608; Silurian system (Geology), a b 301
—— South, I, a 589–91, a 598–600, a 602, a 611–7, a 623, b 624–6; (Meteorology), XVI, b 137, b 150; physical features of (Birds), III, a b 645; rainfall of (Meteorology), XVI, b 158; (Reptiles), XX, a 454, b 483–4, b 486
"America Prize Cup" (Yachting), XXIV, *b* 759, *a* 760
——, schooner (Yachting), XXIV, *b* 759
America, Men and Manners in (Hamilton), XI, b 371
American Academy of Arts and Sciences at Boston (Thompson), XXIII, a 331; (Societies), XXII, a 235
AMERICAN ANCIENT ARCHITECTURE (Ill.), II, a 394–6
—— Anti-Slavery Society (Garrison), X, a *b* 78; (Slavery), XXII, *a* 909
—— army balloons (Aeronautics), I, b 180; aspen (Poplar), XIX, a 526
—— Association for the Advancement of Science (Societies), XXII, a 233, a 235; Beaver, III, b 410; Bible Society, III, a 563; *Biography* (Sparks), XXII, a 918; bloomery processes (Iron), XIII, b 345; blowing engines (Bellows), III, b 476, a 477; bridges, wooden (Bridges), IV, a 290; cars (Railway), XX, b 257–8, b 259; cattle breeders (Agriculture), I, a 344; cavalry (War), XXIV, a 371, b 379 note; cheese, V, a *b* 395; clocks, VI, a b 25, a 32; coal-fields, b 56–7; coast (Pacific Ocean), XVIII, b 119; coins (Numismatics), XVII, a b 677
—— colonies, VI, a 143; (Chatham, Earl of), V, b 383, a b 384; (George III.), X, a 381–2; (Hamilton, A.), XI, b 368–9; (Methodism), XVI, b 195, a 196, b 199; (Patents), XVIII, a 873; (Thurlow), XXIII, a 354; (Tucker), b 946-7; annals of (Chalmers), V, a 324; manners of (Grant, Anne), XI, b 45; taxation of (Burke), IV, b 483–4, a 485, a 486; (Camden), b 650
American colony (Shanghai), XXI, *b* 808; combination printing (Telegraph), XXIII, b 130; Communists, VI, a 189, a 193, a 194-5; *Conflict* (Greeley), XI, b 144, a 145; Cosmogonies, VI, b 396; cotton, VI, a b 428, *a b* 429, *a b* 430, a b 431, a b 432, b 433, a 450-1; *Cyclopædia*, Appleton's, VIII, a 186; *Dictionaries*, VII, b 167–8; economists (Political Economy), XIX, b 397, a 413; (Protection), b 940-1; edentata (Mammalia), XV, a 387; *Entomology* (Say), XXI, a 907; Episcopal Methodism, XVI, b 199, b 200; exploration (Humboldt, A.), XII, b 357; fairs, VIII, a 743; *Farmer*, journal (Skinner), XXII, a 906; fauna, I, a 598–601; (Distribution), VII, a 234, a 237, a b 239, *a b* 240, *a* 242, a b 243; Federation of Labor (Workingmen), XXIV, *b* 919, a 921; flora, I, a 601–2; Gallery of Paintings, Philadelphia (Haydon), XI, *b* 483; hand tools, XI, b 390, *a* b 391; Hare, b 426-7; history, special libraries on (Massachusetts), XV, a b 621; Hymns, XII, b 630
American Independence (Cartwright), V, b 145; (Paine), XVIII, a 141; (Price), XIX, a 741
—— Indians, I, b 602-19; (Archæology), II, *a* 293, a b 297; industrial ascendency (Grindstones), XI, a 181; iron and steel industry (Iron), XIII, a b 368–9

American Iron and Steel Works (Iron), XIII, b 313 note
—— *Journal of Education*, VII, a 589
AMERICAN JOURNALISM, XVII, a 883-93
  Associated Press, a b 885
  cheap newspapers, b 883-4, a 890
  civil war, effects of, a b 886
  circulation, a b 890
  class journals, b 887
  co-operative lists, b 889-90
  correspondence, b 886-7
  financial view, b 890-1
  foreign languages, a 889
  illustrated and comic journals, a b 889
  magazines and reviews, a 892-3
  national capital, a 887
  news centres, a b 887
  organization of staff, a b 891
  political agitation, b 885-6
  presses and manufacture, a b 883
  statistics, b 887-9
  telegraphic news, b 884-5
  tendency of, b 891
—— or Know-Nothing party (Republican Party), XX, b 905 note; (United States), XXIII, a 819, a 820, a 821
—— lakes (Meteorology), XVI, b 187; languages (Philology), XVIII, b 794; (Grammar), XI, a 34, a b 35
American Law, Commentaries on (Kent, J.), XIV, a 43
—— legends (Deluge), VII, a b 50, a 51; Library Association, XIV, a 541
AMERICAN LITERATURE, I, 630-44
  conditions, a 630
  defined, a 630
  earlier, a 632
  19TH CENTURY, b 633-44
    history, b 634
    New England, a 639
    poetry, a 641-2
    polite, b 635
    prose, b 633
    summary, a b 644
    travels, a 638
—— locomotives (Railway), XX, a 255; (Steam-Engine), XXII, a 548
—— Methodism, XVI, b 199-200; Missionary Association (Tappan), XXIII, b 922; Missionary Societies, XVI, b 534
American Notes (Dickens), VII, b 152
—— oil (Petroleum), XVIII, a b 726; oil field (Natural Gas), b 894; (Petroleum), a 886-7
—— ores (Gold), X, a *b* 660, b 661, a b 662; Ornithology, XVIII, a 9, note, a b 12, a 13, b 15, note, b 20; paper manufacture, XVIII, b 223, b 224, a b 228, a b 229, a b 230
—— Philosophical Society (Franklin, B.), IX, a 627; (Philadelphia), XVIII, a b 754; (Societies), XXII, b 234
—— physique (Acclimatization), I, b 85; picture trade (Murillo), XVII, b 61; printers, excellence of (Typography), XXIII, a b 756; printers' journals (Typography), XXIII, b 757
American Pulpit, Annals of the (Sprague), XXII, b 918
—— race (America), I, a 603-6; *Review of History and Politics* (Walsh), XXIV, a 882
—— Revolutionary War (Boston, U. S.), IV, a 66; (England), VIII, b 319-21; (Ferguson, A.), IX, a 76; (Fersen), b 98; (Fox, C. J.), *a* 438; (France), b 523; (Franklin, B.), a 630-1; (Holland), XII, a b 85; (Jefferson), XIII, b 624, a b 625; (New Jersey), XVII, a 409; (New York), a b 467; (North, Lord), a b 567; (North Carolina), b 575-6; (Pitt), XIX, a b 145, a 146
—— river (California), IV, a 616, a 618, b 620, *b* 621
—— river-system of Pacific Ocean, XVIII, a b 120; rolling mills (Iron), XIII, b 339, a 340; springs (Mineral Waters), XVI, a 456
American Statesmen (Randolph, J.), XX, b 283
"American system," commercial (Whig Party), XXIV, a *b* 894; (United States), XXIII, a 810, b 812
—— tales in German (Gerstäcker), X, b 492
—— taxation, XXIII, b 91, b 923-7; (George III.), X, a b 381; (Townshend), XXIII, a 525
—— Tract Society, XXIII, b 525, a 526 note; tropical flora (Distribution), VII, a 252
—— Wesleyan Church (Methodism), XVI, b 200
—— whale fisheries (Whale), XXIV, a b 557; Whigs, party (United States), XXIII, a 787, a 788; (Whig), XXIV, a b 557
Amerigo Vespucci. See VESPUCCI
AMERSFOORT, town, I, b 644
AMERSHAM or Agmondesham, town, I, b 644-5; (Buckingham), IV, b 373, a 374
AMES, Fisher, statesman, I, a 645; (American Literature), I, *a* 633
AMES, Joseph, bibliographer, I, a 645
——, Oakes, contractor (Pacific Railroads), XIX, a b 918
——, Pedro, lord steward (Portugal), XIX, a b 557
AMES or Amesius, William, theologian, I, a 645-6; (Independents), XII, *b* 764; (Universities), XXIII, a 906
AMESBURY, town, I, a 646; (Wilts), XXIV, b 625, *b* 626
Ameshâ spentâ, immortals, (Zoroaster), XXIV, b 861
AMETHYST, gem, I, a 646; (Dietetics), VII, a 178; (Mineralogy), XVI, b 381, b 387, a 401, a 405
Amethystine, gem (Garnet), X, a 74
Ameto (Boccaccio), III, *a b* 733
Ametropia, disease (Ophthalmology), XVII, a 809
Amhara, province (Abyssinia), I, a *b* 63, a 64, b 65; (Africa), a 235
Amharic *Dictionaries*, VII, b 167
—— language (Semitic Languages), XXI, *a* 673, b 674, b 687-8
AMHERST, Burmese district and town, I, a b 646
AMHERST, Massachusetts, town, I, b 646
Amherst college (Gymnastics), XI, b 311-2; (Hitchcock), XII, *b* 27; (Libraries), XIV, a 538, b 552; (Observatory), XVII, b 735; (Shepard), XXII, a 903; (Universities), XXIII, a 914, a b 955, a 959, a 962
——, Gen. Jeffery, Baron, I, b 646
AMHERST, William Pitt, Earl, I, b 646; (China), V, b 565; (India), XII, a b 845
AMHURST, Nicholas, poet, I, a 647
Amia, fish (Ichthyology), XII, b 686, b 688, a 692, b 693, b 694, *b* 695, b 699, b 714, a b 726
AMIANTHUS, mineral, I, a 647; (Asbestos), II, b 590; (Mineralogy), XVI, a 387, a 434, b 435
Amiata, Monte (Italy), XIII, b 447
"Amicable Society" (Insurance), XIII, b 186
Amic Acids (Chemistry), V, b 501, a 502
Amice, vestment (Costume) (Ill.), VI, a 409
AMICI, Giovanni Battista, optician, I, a b 647; (Botany), IV, a 73; (Micrometer), XVI, a b 261, note; (Microscope), b 272, b 273, b 274
Amida, city (Persia), XVIII, b 620, b 622
Amides (Chemistry), V, b 442, a b 480, b 501-2; formation of (Physiology), XIX, a 58, b 61, a 62
Amido-acids (Nitrogen), XVII, b 532, a b 533
AMIENS, city, I, b 647; (Sculpture), XXI, a b 589, note; (Somme), XXII, *b* 274, a 275
——, peace of 1802 (Addington), I, b 133 (Cobbett), VI, a 78; (Napoleon I.), XVII, b 211, b 213
Amines (Chemistry), V, b 442, a 480, b 498-501
Amini, island (Laccadives), XIV, *b* 183, a 184
Aminoff, Baron, geographer (Yeneseisk), XXIV, b 779 note
Aminta, drama (Tasso), XXIII, b 82; (Drama), VII, a 362; (Pastoral), XVIII, b 350, a 351
Amioidei, fishes (Ichthyology), XII, b 686, a b 726
AMIOT, Père Joseph, missionary, I, b 647
Amír or Ameer, title (Admiral), I, b 141
—— al-Omará, title (Mohammedanism), XVI, b 609, a b 610
Amíra, grammarian (Maronites), XV, b 569
Amirante Island (Seychelles), XXI, a 762 note
Amirid dynasty (Spain), XXII, b 328-9
Amish sect. See Ammanites
Amisus, town (Paphlagonia), XVIII, b 231; (Pontus), XIX, a 474
Amitâbha, personification (Buddhism), IV, *a* 392; (Lâmâism), XIV, b 228
Amiternum, town (Aquila), II, b 200; (Sabines), XXI, a b 137
Amiurina, fishes (Ichthyology), XII, a 709, b 714, b 730
Amiurus, fish (Siluridæ), XXII, a 75
AMLWCH, town, I, b 647
Am-machu river (Sikkim), XXII, b 56
AMMAN, Johann Conrad, physician, I, a 648; (Deaf and Dumb), VII, b 7
AMMAN, Jost, engraver, I, a b 48; (Engraving), VIII, b 389, a 390
——, Lutf Mir, author (Hindustani Literature), XI, *a* 758
AMMAN, Paul, physican, I, a 648
—— ruins (Ammonites), I, b 651
AMMANATI, Bartolomeo, architect, I, b 648
Ammanites or Amish, sect (Mennonites), XVI, a 16
'Ammar, family (Tripoli), XXIII, a 613
Ammariuno. See Murano
Ammersee, lake (Germany), X, b 402, a 404
AMMIANUS MARCELLINUS, historian, I, b 648; (Alani), b 391; (China), V, a 545; (Druidism), VII, b 412-13; (Goths), X, *a* 753, *a* 754; (Huns), XII, a 398
AMMIRATO, Scipio, historian, I, b 648
Ammocœtes, fish (Lamprey), XIV, b 250
Ammodytina, fishes (Ichthyology), XII, b 730
AMMON, Amen or Amun, I, a b 649; (Egypt), VII, b 619, a b 620, a 622; oracle of (Alexander the Great), I, b 426, b 428; shrine of (Persia), XVIII, b 579
——, Zeus, god (Pindar), XIX, b 107. See Jupiter Ammon
AMMON, Christoph Freidrich von, theologian, I, b 649
—— of the Bible. See AMMONITES
AMMONIA, I, b 649; (Chemistry), V, b 441-2, a 440; (Horticulture), XII, b 238; (India-Rubber), b 875-6; (Manure), XV, a 514-9; (Nitrogen), XVII, a 529-31; (Paraffin), XVIII, a b 245-6
—— absorption (Insectivorous Plants), XIII, a 144; derivatives of (Mercury), XVI, b 38; dissociation in (Molecule), b 638; in gelatin process (Photography), XVIII, a b 842; machines (Ice), XII, b 648; mar-

AMMONIA, *continued*
garate of (Adipocere), I, b 140; natural formation of (Water), XXIV, a 421; powder (Blasting), III, *b* 702
—— salts (Guano), XI, b 207, *a b* 208; (Insectivorous Plants), XIII, b 141; (Liebig), XIV, b 569, *a* 570; (Phosphorus), XVIII, a 832
—— soda process (Sodium), XXII, a b 257; wheat and (Agriculture), I, b 318
AMMONIAC, Sal, I, a b 650
Ammoniacal Alum, I, a *b* 566; cochineal (Dyeing), VII, a 497; liquor (Coal Tar Colors), XVIII, a b 900; liquor, elimination of (Gas Lighting), X, b 83, a *b* 84, a 85; liquors (Gas Lighting), b 80, b 90, a 91; salts (Alchemy), I, b 410
AMMONIACUM or Ammoniac, gum, I, b 650
Ammonis, Iter ad Templum (Hellanicus), XI, b 566
Ammonite lias zones (Geology), X, *a* 314-5
AMMONITES or Children of Ammon I, a b 651; (David), VI, a b 739; (Israel), XIII, a 415, a 418; (Moab), XVI, a 557; (Palestine), XVIII, a 179
——, fossil (Hilda), XI, a 727; (Mollusca), XVI, b 699
—— Serpentinus (Jet), XIII, b 683
Ammonitidæ, family (Mollusca), XVI, a 694
Ammonium cyanide (Prussic Acid), XX, *a* 28, b 30
—— salts (Chemistry), V, *a* 442, b 445; (Cobalt), VI, a 76; (Oxalic Acid), XVIII, b 95
—— sulphocyanate (Prussic Acid), XX, b 29, a b 30
Ammonius of Alexandria, Christian harmonist (Ammonius Saccas), I, *a* 652
——, grammarian and priest (Gloss), X, a 612; (Dictionary), VII, b 158
—— Lithotomus (Surgery), XXII, b 708-9
AMMONIUS Hermiæ, commentator, I, b 651-2
AMMONIUS Saccas, Neoplatonist, I, a 652; (Bible), III, a 558; (Neoplatonism), XVII, b 344
Ammoperdix, bird (Partridge), XVIII, b 338
Ammothea, genus (Arachnida), II, a 243
AMMUNITION (Ill.), I, a 652-4; (Fortification), IX, a 400, a b 401; (Shooting), XXI, a b 874
—— column, British (Army), II, a 507; field supply of (War), XXIV, b 381; wagons (Artillery), II, b 575, b 576, a 578, a b 579
Amnesic Aphasia, II, b 150
AMNESTY, I, a 654; (United States), XXIII, b 829
Amœba, genus (Anatomy), I, b 742; (Biology), III, b 588; (Histology), XII, a 6, a 13; (Protoplasm), XIX, b 850, a 851; (Protozoa), b 857, a 860 note; (Skeleton), XXII, b 113; (Parasitism), XVIII, a 263; (Physiology), XIX, a b 16, a b 17, b 18, b 19, a 24
Amœbidium (Protozoa), XIX, a 879
Amœboid cells (Morphology), XVI, b 867; (Sponges), XXII, *a* 443
—— plant movements (Physiology), XIX, a b 69, a b 70; stage of ova (Reproduction), XX, b 426-7
Amok or Amuk, custom (Malay), XV, a 327
AMOL or Amul, town, I, a 654
Amomum, plants (Cardamon), V, b 80; (Grains of Paradise), XI, a b 33
Amontillado wine (Montilla), XVI, a 817; (Wine), XXIV, b 639
AMONTONS, Guillaume, physicist, I, a b 654; (Pyrometer), XX, a 135; thermometer of (Heat), XI, b 500
Amoor, Amour, or Amur district (Russia), XXI, a 74, *a* 75, a b 76, a 78; (Siberia), XXII, a 6, *a* 8, *a* 13, *b* 14, a b 15, a 16
AMOOR, river, I, b 654-5; (Maritime Province), XV, *a b* 555, *a* 556; (Pacific Ocean), XVIII, b 120; (Siberia), XXII, *a* 8, *a* b 9, a b 10, a 11, a 13, *b* 14, *a b* 15, b 16, *a b* 17; (Transbaikalia), XXIII, *b* 541, a 543; (Tunguses), b 646
Amoraim, commentaries (Israel), XIII, a 439; (Talmud), XXIII, a 41, notes, a 42
Amoretti (Spenser), XXII, b 407, b 410
AMORITES, people, I, a b 655; (Canaanites), IV, *a* 674, a 675; (Israel), XIII, a 407; (Joshua), a 763; (Moab), XVI, a b 557, a 559; (Palestine), XVIII, b 178
Amorosa Visione (Boccaccio), III, b 733
Amorous Man, The (Plutarch), XIX, b 246
Amorpha, plant (Botany), IV, a 120, b 121
AMORPHISM, I, b 655
Amorphous Carbon, V, a *b* 77-8; (Geology), X, a 273-5; (Mineralogy), XVI, b 385; silicon (Chemistry), V, a 452, a 453; Sugar, XXII, b 655
Amor's Strokes of Genius (Herz), XI, b 690
Amortization, gradual payment (National Debt), XVII, b 250
AMOS, prophet, I, b 655-6; (Hosea), XII, *b* 310; (Israel), XIII, b 418, a b 420-21; (Joel), b 715; (Prophet), XIX, b 838 note, a b 839, *a* 840, b 842
——, C. E. (Agriculture), I, a 290
Amosis or Aahmes, king. See AMASIS
Amou Darya, river. See Amu-Daria
Amour, L' (Michelet), XVI, b 244
Amoureuse des Gaules (Rabutin), XX, a b 209
AMOY, Chinese city, I, a b 656; (China), V, *a* 553, *b* 565
Ampanan, port (Lombok), XIV, a 826
Amparo, legal protection (Mexico), XVI, a 899
Ampechonion, garment (Costume), VI, b 401
Ampelakia, association (Greece), XI, b 110
Ampelidæ, family (Birds), III, b 648, *a* 649; (Botany), IV, b 114; (Ornithology), XVIII, a 32
Ampelis, genus (Waxwing), XXIV, *a* 487, note
Ampelopsis quinquefolia, species (Vine), XXIV, b 255 note
AMPÈRE, André-Marie, electrician, I, b 656-7; (Chemistry), V, a 403; (Electricity) (Ill.), VIII, b 10, a 11, a 63, b 65-7, b 68-9, a *b* 70, note; (Wave Theory), XXIV, a 474
AMPÈRE, Jean-Jacques-Antoine, historian, I, a 657; (Ballads), III, a 245; (Caste), V, *b* 167
Ampere's unit of measure (Telegraph), XXIII, a 124; hypothesis (Magnetism), XV, b 278-9; law (Electricity), VIII, b 10, b 65-6, a b 67-8
AMPHIARAUS, myth, I, a b 657; (Eriphyle), VIII, a 464; (Oracle), XVII, a 832
Amphiarthroses (Anatomy) (Ill.), I, b 730, a 731
Amphibalus, monk (Alban St.), I, a 395
AMPHIBIA (Ill.), I, b 657-77
  ætiology, b 675
  classification, a 657
  cranium, a 660-8
  development, b 674
  distribution, a 675
  index, 677-8
  limbs, a 669-74
  nervous system, a 673
  organs, a 668-74
    alimentary, b 668*
    circulatory, a 669-72
    integumentary, a 668*
    reproductive, a 674
    respiratory, b 672
  senses, higher, b 673
  skeleton (Ill.), b 658-68
  taxonomic synopsis, b 676-a 677
—— (Anatomy), I, b 741-2; (Distribution), VII, b 234, b 236, a 239, a 245, 246, b 247; (Embryology), VIII, a 155; (Hibernation), XI, a b 704; (Reproduction), XX, a b 422, a 432; (Reptiles), *a* 445, a 446; brain of (Physiology), XIX, b 37; classification of (Mammalia), XV, *a b* 373, a 374; (Zoology), XXIV, a 848, b 851
Amphibian appendicular Skeleton, XXII, a 121; axial (Skeleton), *a* b 119, a 120, a 121, *b* 122, b 123; olfactory organs (Smell), a 176
Amphiblastula stage (Sponges), XXII, *b* 441-2
Amphibole (Mineralogy) (Ill.), XVI, a 435
Amphibology, doctrine of (Liguori), XIV, b 644-5
Amphicarpum, genus (Grasses), XI, b 50
Amphicœlia, genus (Reptiles), XX, a 457
Amphicondyla (Zoology), XXIV, a 852
AMPHICTYONY, league, I, b 677-9; (Crissa), VI, b 522; (Greece), XI, a 84, a 85, b 93; (Græcia Magna), XI, b 28; (Macedonian Empire), XV, a b 140; (Numismatics), XVII, b 658; (Olympia), XVII, b 787, a 788; (Oracle), b 832; (Phocis), XVIII, *b* 814
Amphidozotherium, fossil (Mammalia), XV, b 409
Amphigastria, leaves (Muscineæ), XVII, b 74
Amphilinidæ, family (Tapeworms), XXIII, *b* 59
Amphilochia (Photius), XVIII, a 834
Amphilochius of Iconium (Canon), V, a 3, b 11
Amphimonadina, genus (Protozoa), XIX, b 881
Amphimorphæ, group (Birds), III, b 617
AMPHION, myth, I, a 679; (Thebes), XXIII, a 249
Amphion Anglicus (Blow), III, b 727
AMPHIOXUS, fish, I, a 679; (Anatomy), a 719; (Animal Kingdom), II, b 46, b 48-9; (Lancelet), XIV, b 259; (Nemertines), XVII, b 338, b 339; (Reproduction), XX, a 421, a 432; (Skeleton), XXII, *a* 118; (Tunicata), XXIII, b 647, a 653, a 658
—— lanceolatus (Gelatin), X, a 117; (Vertebrata) (Ill.), XXIV, *b* 193, a b 194, b 196, b 198, a b 199, *a* b 200, *a* b 201, *a* b 202, a 203
Amphiperatherium, fossil (Opossum), XVII, b 819
Amphipleura, organic forms (Morphology), XVI, a 871; pellucida (Microscope), a 281
Amphipoda, order (Crustacea), VI, *b* 559, b 566, b 567, b 568, b 572, a 573, a 579, b 580 note, *b* 584-5
AMPHIPOLIS, I, a 679; (Brasidas), IV, *a* b 195; (Greece), XI, a 91, a 92, b 93; (Numismatics), XVII, a 657; (Thucydides), XXIII, a 345
Amphiporus, worms (Nemertines), XVII, b 335, a 336, 339
Amphisauridæ (Reptiles), XX, b 456 note
AMPHISBÆNA, animal, I, a b 679; (Reptiles), XX, b 470, a b 471, b 472, b 474, a b 482
Amphiesa, town (Amphictyony), I, a 679
Amphistomina, genus (Protozoa) (Ill.), XIX, b 868
AMPHITHEATRE (Ill.), I, b 679-81; (Benevento), III, a 485; (Capua), V, a 71; (Dorchester), VII, a 317; (Dorset), b 322; (Nimes), XVII, b 523, a 524; (Périgueux), XVIII, a 545; (Pompeii), XIX, b 462; (Puzzuoli), XX, b 671;

AMPHITHEATRE, *continued* (Saintes), XXI, b 175; (Verona), XXIV, a 186
Amphitheatres (Architecture), II, a 367; Roman, XX, a 851; (Theatre), XXIII, b 242, note
Amphitheatrum Æternæ Providentiæ (Vanini), XXIV, b 74
Amphithect pyramids (Morphology), XVI, a 871
Amphitherium, fossil (Mammalia) (Ill.), XV, a 378, b 379
Amphitrema, genus (Protozoa) (Ill.), XIX, a b 868
AMPHITRITE, myth, I, b 681
—— islands (Tuamotu), XXIII, b 639 note
Amphitruo, play (Plautus), XIX, *a* b 228
Amphitryon, myth (Hercules), XI, *a* 649
Amphitryon, comedy (Molière), XVI, a 652
Amphiurna, genus (Amphibia), I, a 659, *a* 660, a *b* 665, a *b* 668, *a* 668*, *b* 672, b 673, b 676
Amphiuridæ, family (Echinodermata), VII, a 550
AMPHORA, vessel, I, b 681; (Glass), X, a 579; (Inscriptions), XIII, a 127, note; (Pottery and Porcelain) (Ill.), XIX, b 629-30, a 631, b 632-3, b 634, a 635, a 638; (Weights and Measures), XXIV, b 509, *b* 513
Amplexus, genus (Corals), VI, a *b* 339, b 340, a 341
AMPLITUDE, astronomical, I, b 681; in Harmonic Analysis, XI, a 431; of vibrations (Acoustics), I, b 94
Ampracia. See AMBRACIA
Ampsaga river (Mauretania), XV, *a* 643; (Numidia), XVII, *b* 642
Ampsancti Vallis. See AMSANCTI VALLIS
AMPTHILL, town, I, b 681
AMPULLA, vessel, I, b 681–2
—— of ear (Anatomy), I, *b* 784, a 786
Ampullaridæ, family (Snail), XXII, b 197, a 198
Amputation, ankle-joint, Lister's method (Surgery), XXII, a b 713; Hindu (Surgery), XXII, b 707; history of (Surgery), a b 709, *b* 710, a b 711; mortality of (Hospital), XII, a 316; repair of (Pathology), XVIII, b 368; rule of (Surgery), XXII, b 716, a b 718, b 720, a b 723
Amraalkais, poet. See AMRU EL-KAIS
Amram, ruin (Babylon), III, a b 158
AMRÁOTI, district and city, I, a 682
'Amr ben al-As, general. See AMRU-BEN EL-ASS
'Amr ben Sáid, rebel (Mohammedanism), XVI, b 593
—— ibn Kolthúm, poet (Mo'allakát), XVI, a b 560, a b 561, a 562
—— ibn Matta of Tīrhān, translator (Syriac Literature), XXII, b 865, b 896 note
Amrit, ruins at (Phœnicia), XVIII, a b 823
AMRITSAR, division, district and city, I, a *b* 622; (Punjab), XX, *b* 112, b 114, a 115, *a* *b* 116; (Shawl), XXI, *a* 818
Amroha, town (Murádábád), XVII, b 39
Amrou or Amru. See 'Amr
AMRU-BEN-EL-ASS, Amer, Amru or 'Amr ben al-As, conqueror, I, b 682–3; (Alexandria), b 436–7; (Cairo), IV, a 574; (Egypt), VII, a b 649; (Mohammedanism), XVI, b 585, b 588, a 589, a 590
AMRU-EL-KAIS, or Amraalkais, poet, I, a 683; (Mo'allakát), XVI, b 560-1, a 562; (Mohammedanism), a 570 note
AMSANCTI or AMPSANCTI VALLIS, I, a b 683
Amsanctus Lake (Ariano), II, b 441; (Italy), XIII, b 452
AMSDORF, Nicolaus, reformer, I, b 683
Amshapands (Zoroaster), XXIV, b 861
AMSLER, Samuel, engraver, I, b 683
AMSTERDAM (Ill.), city, I, a 684–5; (Academy), b 71; (Guiana), XI, b 224; (Holland), XII, a *b* 63, a 66, *a* 67, b 69, a 70, *a* 71, a 75, *b* 82, *a* 83, a *b* 84, a b 96; (Libraries), XIV, b 531, a 551; bank of, III, b 290-1; Canal (Plate XXXVI, Ill.), IV, a 696–7; (Dredging), VII, a 401; customs (Sea Laws), XXI, b 611, b 612; English Refugees in (Baptists), III, *b* 305; gallery (Helst), XI, *b* 572; zoological gardens (Ivy), XIII, b 537
AMSTERDAM, island, I, b 685; (Indian Ocean), XII, *b* 860
——, settlement, (New York), XVII, b 466
Amtsgerichte, court (Prussia), XX, a 23
Amu-daria, provincial statistics (Russia), XXI, b 76, note
——, river (Bokhara), IV, *a* 3; (Caspian Sea), V, b 157; (Oxus), XVIII, b 104, note a 108; (Transcaspian), XXIII, *b* 544, notes; (Turkestan), XXIII, b 674; (Whirlpool), XXIV, a 572. See OXUS river
Amuk. See Amok
Amul, town. See AMOL
AMULET (Ill.), I, b 685; (Pascal), XVIII, b 340; Jewish (Phylactery), XIX, a 5
Amur, province and river. See AMOOR
Amurang, department (Celebes), V, *b* 251
Amurath. See Murad
AMURATH or Murad I., Turkish sultan, I, b 685; (Greece), XI, b 107; (Turkey), XXIII, a b 682
AMURATH II., sultan, I, a 686; (Poland), XIX, a 301; (Turkey), XXIII, a 683
AMURATH III., sultan, I, a 686; (Turkey), XXIII, b 685
AMURATH IV., sultan, I, a 686; (Baghdad), III, a 202; (Turkey), XXIII, a 686, b 687
—— V. (Turkey), XXIII, a 693, a 694
Amursama Khan (Mongols), XVI, b 772
Amusements (Bornu), IV, b 54; (Egypt), VII, a 625, a b 630; (Polynesia), XIX, a 440; places of (Rome), XX, b 850–1
AMWELL, town, I, b 686
Amy, Pierre, monk (Rabelais), XX, *b* 200
Amygdala of cerebellum (Anatomy), I, b 765, a 771, a 772
Amygdaline (Chemistry), V, a 497; (Fermentation), IX, b 84; (Wöhler), XXIV, a 660
Amygdaloidal rock (Geology), X, b 204
Amygdalon, pool (Jerusalem), XIII, a 649
Amygdalus, tree (Almond), I, a 523; (Horticulture), XII, b 278, a 283
Amyl alcohol (Distillation), VII, a 228
Amylene, chlorhydrate of (Wurtz), XXIV, b 739
Amyloid degeneration of protoplasm (Pathology), XVIII, a 399
Amyloids (Nutrition), XVII, b 695
Amyloses (Chemistry), V, *a* 490
AMYMONE, myth, I, b 686
Amyntas, king (Galatia), X, *b* 18; (Isauria), XIII, *a* 395
AMYOT, Jacques, bishop, I, b 686; (Auxerre), III, b 124; (France), IX, a 577; (Libraries), XIV, b 523; (Longus), b 878; (Montaigne), XVI, a 796
——, Thomas, secretary (Windham), XXIV, b 630
Amyraldists, sect (Cameron, John), IV, a 656
AMYRAUT, Moses, theologian), I, b 686-7; (Penn), XVIII, a 503
Amyrtæus, king (Egypt), VII, *a* 645
Amys, Paladin (Romance), XX, *a* 667, a *b* 668
An, pass (Kyouk-hpyú), XIV, *b* 163
ANA, literary collection, I, b 687–9; (Bibliography), III, b 566; (France), IX, a 578
—— or Anah, town. See ANNA
—— goddess (Celtic Literature), V, *b* 260, *a* 279
ANABAPTIST, sect, I, a b 690; (Baptism), III, b 302; (Baptists), b 304, a 305; (Calvin), IV, b 633 a b 634; (Luther), XV, b 79–80; (Melanchthon), b 842; (Mennonites), XVI, b 15–16; (Millennium), a 330; (Zwickau), XXIV, b 871; (Zwingli), b 873
ANABARA, river, I, b 690
ANABASIS, narrative, I, b 690; (Pisidia), XIX, a 139; (Porson), XIX, a 538, a 540; (Xenophon), XXIV, a b 756, a 757
Anabolism (Sex), XXI, *a* b 760; animal (Physiology), XIX, a 17, b 22, b 24–5; plant (Physiology), b 56–7
ANABON, island, I, b 690
Anacanthini, order of fishes (Asia), II, a 608; (Ichthyology), XII, b 695, b 700, *a* 716, a 717, a b 730
Anacapri, town (Capri), V, b 69
ANACARDIACEÆ, plants, I, b 690-1
Anachæta, genus (Worm), XXIV, a 713, *a* 715
Anacharis, sea-weed (Biology), III, b 598
ANACHARSIS, philosopher, I, a 691; (Anchor), II, a 6; (Scythia), XXI, b 604, note
Anacharsis, book (Barthélemy), III, a 347
——, dialogue (Lucian), XV, b 47
Anacharsis Clootz. See CLOOTZ
ANACHRONISM, I, a 691
Anacletus II., pope (Bernard), III, a b 520; (Innocent II.), XIII, b 89; Antipope (Popedom), XIX, b 514
ANACOLUTHON, I, a b 691
ANACONDA, snake, I, b 691; (Boa), III, b 731
—— mine (United States), XXIII, b 869
ANACREON, poet, I, b 691–2; (Greece), XI, b 124; (Music) XVII, b 86; (Phœnicia), XVIII, b 821
——, *Odes of* (Moore, Thomas), XVI, b 831, b 832
ANADIPLOSIS, rhetorical figure, I, a 692
ANADYOMENE, I, a 692. See also APHRODITE and VENUS
ANADYR, gulf and river, I, a b 692; (Maritime Province), XV, b 554; (Siberia), XXII, a 10
Anæmia, disease (Dietetics), VII, a 179; (Insanity), XIII, b 106, a 108, a 115; (Iron, Therapeutics of), b 369-70; (Mineral Waters), XVI, a b 453, a 454; (Pathology) (Ill.), XVIII, a 384
Anaërobia, plants (Physiology), XIX, b 58
Anaërobiotic plants (Physiology), XIX, b 58, b 63, a 70
ANÆSTHESIA, I, b 692-3; (Leprosy), XIV, a 479; (Physiology), XIX, b 32; (Psychology), XX, b 56; (Touch), XXIII, a 513; (Wells), XXIV, a 890
Anæsthetics (Chloral Hydrate), V, a b 588-9; (Chloroform), a 591; (Narcotics), XVII, a 237; (Petroleum), XVIII, a 891; (Poisons), XIX, b 291; (Potassium), a 609
Anafesto, Paulucio, doge (Venice), XXIV, a 153
Anagallis, plant (Botany), IV, b 119, b 136, b 138
Anaghmore Lough (Queens County), XX, b 177
ANAGNI, town, I, b 693
Anagnostes, church officers (Lection), XIV, b 398
——, Joannes, historian (Byzantine Historians), IV, b 545
ANAGOGICAL, church term, I, b 693
ANAGRAM, I, b 693-4
Anah, town. See ANNA

- ANAHUAC plateau, I, a 694; (Mexico), XVI, a 214, b 216, b 223, note, a 229
- Anahuatlels, Indians (America), I, a 610
- Anaides, family (Amphibia), I, b 665, *a* 667, b 668*, a 675, b 676
- Anaka. See ANOUKIS
- Anaklia, town (Caucasus), V, b 220
- Anal fin (Ichthyology), XII, a b 674
- Analcime (Mineralogy) (Ill.), XVI, a 364, a 365, b 382, b 389, a 430, b 438, a 439
- *Analecta Sacra* (Hymns), XII, a b 615
- *Analectic Magazine*, Philadelphia (Periodicals), XVIII, a 555
- *Analecton Anglo-Britannicon* (Selden), XXI, a 662
- *Analects* (Confucius), VI, a 233, b 234
- *Analemma* (Ptolemy), XX, b 96
- Anallagmatic Surface, XXII, b 704
- Analogical change in language (Philology), XVIII, b 796-7
- Analogists, the (Grammar), XI, *a* 39
- Analogues (Skeleton), I, a 728
- ANALOGY, anatomical, I, b 695; (Zoology), XXIV, b 846
- ANALOGY, rhetorical, I, a 694-5
- *Analogy, Divine* (Peter Browne), IV, a b 350
- *Analogy of Religion* (Analogy), I, b 695; (Apologetics), II, b 168; (Butler), IV, a b 519-21, a 523; (Hume), XII, a 369
- ANALYSIS, I, b 695 9
  - chemical, a b 698
  - logical, b 698-9
  - induction and deduction, b 699
  - introduction, b 695-6
  - mathematical, a 696-8
  - psychological, b 698
  - reductio ad absurdum, b 697-8

- —— (Condillac), VI, b 222-3; (Dogmatic), VII, a 292; (Kant), XIII, a b 858, a 859; (Logic), XIV, b 799, b 801, a 802, b 808-9, b 810, a b 811; (Metaphysic), XVI, b 99, a 102; (Philosophy), XVIII, b 806
- *Analysis of Beauty* (Hogarth), XII, b 51-2
- Analysis, chemical, alkaline metals (Potassium), XIX, a b 610-11; (Blowpipe), III, b 728-9; (Gay Lussac), X, b 110-1; (Iron), XIII, b 294, a b 295-6; (Silver), XXII, a b 79; (Soap), XXII, a 216; (Strontium), XXII, a 640; organic (Chemistry), V, b 471 5; organic (Liebig), XIV, a 569; steel (Iron), XIII, b 295 6; (Sugar), XXII, b 655 6.
- ——, mathematical, XV, b 636, a b 637; (Electricity), VIII, a b 10; function (Variable), XXIV, a 79, b 80, *a b* 81, a 82; (Geometry), X, b 366-78; (Landen), XIV, a 272; (Logarithms), b 779; of strains (Mechanics), XV, a 702-4. See Harmonic Analysis.
- —— of Speech Sounds, XXII, a 399
- Analysts (Adulteration), I, b 152
- ANALYTIC JUDGMENTS, I, b 699-700
- *Analytic*, Kant's (Metaphysic), XVI, a 89, b 91; *Mechanics*, Peirce's (Mechanics), XV, b 757
- Analytical engine (Calculating Machines), IV, a b 581
- —— formations of Prākrits (Hindūstānī), XI, b 750, a 751; languages (Grammar), XI, b 35; method of prediction (Tides), XXIII, b 386-7; theory of congruence (Surface), XXII, a 705; thought (Psychology), XX, a 82-3; treatment of circular functions (Trigonometry,) XXIII, b 609-10; Trigonometry, a 596, a 604-10
- *Analytics* of Aristotle, II, a b 453
- *Analytische Geometrische Entwickelungen* (Plücker), XIX, a b 240
- Analyzer apparatus (Gas Lighting), X, a 84
- ANAM or Annam, kingdom, I, b 700; (Cochin China), VI, b 85-6, *a b* 87, *a b* 88, *a* b 89; Catholic Missions in (Propaganda), XIX, a b 833. See COCHIN CHINA
- Anamaboe, town (Gold Coast), X, b 672
- Anamalai hills (India), XII, a 816; (Coimbatore), VI, b 106; (Madras), XV, b 185
- Anamese, race (Cochin China), VI, b 87-9; (Dictionary), VII, a 166
- Anamesite rock (Geology), X, a 210
- Anan, Talmudist (Karaites), XIV, *a* 4
- Ananassa, plant (Pine-Apple), XIX, a 115
- Ananda, mendicant (Buddhism), IV, a *b* 386, *a* 387
- Anandagiri, sage (Vedanta), XXIV, b 128, a 130
- Anandpal or Anang-Pál of Lahore, rajá (India), XII, b 831; (Lahore), XIV, b 214; (Mahmúd), XV, a 289; (Peshwar), XVIII, a 698
- Ananes, tribes (Umbia), XXIII, a 771
- Ananga, deity (Brahmanism), IV, a 188
- Anānīshō of Hĕdhaiyabh, monk (Syriac Literature), XXII, a 886
- Anao islets (Tuamotu), XXIII, a 640
- Anantpur, town (Bállarí), III, a 248
- Ananus, high priest (Israel), XIII, *b* 437
- Anapa, town (Tchernomorsk), XXIII, b 103
- Anapæstic measure (Alliteration), I, a 516
- Anaphus, satrap (Cappadocia), V, a 68
- Anaplophrya, genus (Protozoa), XIX, a 889
- Anapophysis, process (Ape), II, a 141; (Skeleton), XXII, a 119, a 120
- Anaptomorphus homunculus, fossil (Lemur), XIV, b 445-6
- Anapus river (Syracuse), XXII, b 852
- Anarchism, theory of (Socialism), XXII, b 227-8
- Anarchy defined (Law), XIV, a b 357
- *Anargha-Rághava* (Drama), VII, a 344
- Anarhynchus, bird (Killdeer), XIV, b 78
- Anarians or Enarians, diviners (Scythia), XXI, *a* 603, note
- Anarien systems (Alphabet), I, a 531
- Anarrhichas lupus, fish (Seawolf), XXI, a b 645
- Anas, genus (Birds), III, *b* 633, a 638; (Duck), VII, a b 437; (Teal), XXIII, b 112-3
- Anasarca, disease (Dropsy), VII, b 407
- Anastasia, island (St. Augustine), XXI, *a* 167
- —— Romanova, czarina (Russia), XXI, b 100, a 104
- Anastasian Wall, I, b 700
- *Anastasius* (Hope), XII, a 162
- Anastasius, St., Pope (Popedom), XIX, b 505
- ——, antipope (Benedict), III, a 482
- ANASTASIUS I., emperor of the East, I, b 700; (Persia), XVIII, b 622
- ANASTASIUS II., emperor, I, b 700
- —— of Constantinople, Nestorian presbyter, XVII, b 364
- Anastates, nutrient of tissue (Physiology), XIX, b 22
- Anastatic printing, chart (Surveying), XXII, b 752
- Anastomosis (Anatomy), I, b 792, a b 793, a *b* 794
- Anastomus, birds (Stork), XXII, b 606
- Anat nág, reservoir (Islámábád), XIII, b 397
- Anatase (Mineralogy) (Ill.), XVI, b 394, b 402
- ANATHEMA, I, b 700; (Rome), XX, a 775, note
- Anatidæ, family (Birds), III, b 646, a b 647, *a* 651, b 655; (Duck), VII, a b 437; (Sheldrake), XXI, a 826
- Anatinæ, moult of (Birds), III, a 673
- ANATOLIA, country, I, b 700; (Asia Minor), II, b 614; (Turkey), XXIII, a b 695
- Anatolius, patriarch of Constantinople (Hymns), XII, b 614, b 615
- *Anatome Plantarum* (Malpighi), XV, b 340-1
- Anatomical aspects of Phrenology, XVIII, a 860-1; collection (Hunter), XII, b 405-6, a 408; drawing, VII, b 387, b 388, a 389; *Engravings* (Anatomy), I, b 713, a 714, b 715, *b* 716, a 717; of Eustachius (Anatomy), a b 709
- *Anatomical and Zoological Researches* (Mammalia), XV, b 402, note
- *Anatomie du Système nerveux* (Gall), X, a b 34
- Anatomists, I, a b 716, b 717-8; (Zoology), XXIV, a 843
- ANATOMY (Ill., Plates XII-XXI), I, b 700-98
  - arterial system (Ill.), a 792-5
  - blood-vascular glands, a 797
  - capillaries (Ill.), a 795
  - circulation of blood, b 789-90
  - definitions of position, b 718-9
  - development of vascular system, b 797-8
  - division of, b 700-1
  - heart (Ill.), b 790-2
  - HISTORY, a 701-18
    - Alexandrian school, a b 703
    - Arabian, a b 706
    - Aristotle, a 702-3
    - Bologna school, b 706-7
    - Celsus, 703-4
    - circulation of the blood, discovery of, b 710-11
    - comparative anatomists, b 717-8
    - eighteenth century, b 713-5
    - French school, b 707-8
    - Galen, a 704-5
    - Greek, a 701-3
    - Italian mediæval, b 706-7
    - Italy, 16th century, a 709-10
    - microscopic work, a b 717
    - Roman empire, time of, b 703-6
    - seventeenth century, a 711-3
    - special treatises, b 716-7
    - systematic anatomists, a b 716
    - Vesalius, b 708-9
  - INDEX, 799-800
  - JOINTS AND MUSCLES, a 730-9
    - axial system (Ill.), b 732-5
    - development and homologies, a 739
    - head, b 733-5
    - joints, general remarks (Ill.), a 730-1
    - limb, lower, b 737-9; upper (Ill.), b 735-7
    - muscles, general remarks (Ill.), b 731-2
    - pharynx (Ill.), a 735
    - swallowing, a b 735
  - lymph-vascular system, b 796-7
  - NERVOUS SYSTEM, b 753-76
    - brain (Ill.), b 763-73
    - cells (Ill.), a 755-6
    - cerebellum (Ill.), a 765-6
    - cerebro spinal development, b 757-8
    - cerebrum (Ill.), b 766-70; gray matter, b 770-1; white matter, b 771-2
    - development of tissue, b 757-8
    - encephalic nerves, a 773-5
    - fibres (Ill.), b 754-5

- ANATOMY, *continued*
  - NERVOUS SYSTEM
    - introductory, b 753-4
    - mass and weight of brain, b 772-3
    - medulla oblongata (Ill.), b 763-5
    - membranes of brain and spinal cord (Ill.), b 758-60
    - peripheral end organs (Ill.), a 756-7
    - plexuses (Ill.), a 762
    - Pons Varolii, a 765
    - spinal cord (Ill.), a 760-1
    - spinal nerves, b 761-3
    - sympathetic system, b 775
  - SENSE, ORGANS OF, b 776-89
    - accessory parts of eyeball (Ill.), a 782-3
    - coats of eyeball (Ill.), a 778-9
    - external ear, a 783
    - internal ear (Ill.), a 784
    - iris, a 779
    - middle ear, a 783-4
    - nails and hair, b 788-9
    - nerve and development of ear, a 786
    - optical properties of eye, b 781
    - refracting humors of eye, a b 781
    - retina (Ill.), a 780-1
    - skin (Ill.), b 787-9
    - smelling, a b 777
    - sweat glands, b 789
    - tongue (Ill.), b 786-7
  - SKELETON (Ill.), a 719-30
    - development and homologies, a 728-30
    - face bones, a 723
    - limb, lower (Ill.), a 726-8
    - limb, upper (Ill.), a 723-6
    - skull (Ill.), b 721-4
    - spine (Ill.), b 719-20
    - thorax or pectus, b 720-1
  - TEXTURES (Ill.), b 739-53
    - adipose tissue (Ill.), a b 747
    - blood (Ill.), b 741-3
    - cartilaginous tissue (Ill.), b 747-9
    - cells (Ill.), b 739-41
    - connective tissue (Ill.), a 745-7
    - development of bone (Ill.), b 750-2
    - development of muscle, b 753
    - endothelium (Ill.), b 744-5
    - epithelium (Ill.), a 740-1
    - genesis of cells (Ill.), b 740-1
    - introductory, a b 739
    - lymph and chyle, a 743
    - muscular tissue (Ill.), a 752-3
    - osseous tissue (Ill.), a 749-52
- ANATOMY, *continued*
  - TEXTURES
    - pigmentary tissue (Ill.), b 747
    - protoplasm (Ill.), b 739-40
  - Venous system, a 795-6

- —— (Amphibia), I, b 658-74; (Ape), II, a 137-45; (Birds), III, b 605-31; (Brachiopoda), IV, b 172-5; deep sea fishes (Ichthyology), XII, a b 722; Dentalium (Mollusca), XVI, b 688; (Digestive Organs), VII, a 192-207; (Dragon Fly), VII, b 333 5; (Horse) (Ill.), XII, a 180-4; (Hymenoptera), b 609-10; (Ichthyology), XII, b 671-3; Isopleura (Mollusca), XVI, b 665; (Kangaroo), XIII, a b 848-9, a 850-1; (Lion), XIV, a 687; (Mammalia), XV, b 350-73; (Medicine), XV, a 805, a *b* 811, b 815, a b 817; (Mole), XVI, a 631-2; (Mollusca) (Ill.), a b 657, b 671, a 672, a 682; (Monster), b 789; Pteropoda (Mollusca), XVI, a b 698; (Reptiles) (Ill.), XX, b 454, b 457-78; (Skeleton), XXII, a 113-27; (Tunicata), XXIII, a 648-52
- ——, Arabic (Clot), VI, a 37
- —— comparative, VI, b 200; (Cuvier), a 655; (Reproduction), XX, b 420-22; (Zoology), XXIV, a 839
- —— expression (Physiognomy), XIX, a b 9; morbid (Hydrophobia), XII, b 579; (Insanity), XIII, b 105-6; nerve centres (Physiology), XIX, a 35-50; physiology and (Zoology), XXIV, b 843; progress of (Zoology), b 843; vegetable (Zoology), a 839; Zodiacal, a 834
- ——, writers on (Bichat), III, b 574-5; (Blumenbach), III, a 731; (Camper), IV, a 672; (Goethe), X, a 650; (Goodsir), a b 690; (Hunter), XII, b 400-7; (Morgagni), XVI, a 848, b 849; microscopic (Leeuwenhoek), XIV, b 411; (Malpighi), XV, a b 340; (Rokitansky), XX, a b 640
- *Anatomy of Expression*, I, b 716; (Bell, Sir C.), III, a 466
- —— *of Melancholy* (Bibliography), III, b 566; (Burton), IV, a 509; (Newspapers), XVII, b 424, note
- —— *of Plants* (Grew), XI, b 169
- Ananxite (Mineralogy), XVI, a 443
- ANAXAGORAS, philosopher, II, a b, 3; (Alchemy), I, a 403; (Astronomy), II, b 652; (Atom), III, b 33, b 34; (Evolution), VIII, a b 662; (Pericles), XVIII, b 539, a 540, note, a 541, b 543; (Sophists), XXII, b 277
- ——, sculptor (Archæology), II, b 306
- ANAXARCHUS, philosopher, II, b 3-4; (Alexander the Great), I, a 423
- ANAXILAUS of Larrissa, philosopher, II, a 4
- —— of Rhegium, tyrant (Charondas), V, a 373; (Numismatics), XVII, b 653-4; (Sicily), XXII, b 21
- ANAXIMANDER of Miletus, philosopher, II, a 4; (Astronomy), b 653; (Evolution), VIII, *b* 661; (Map), XV, *a* 523; (Thales), XXIII, a b 237
- ANAXIMENES of Lampsacus, historian, II, b 4; (Rhetoric), XX, a b 528; *Rhetoric of* (Aristotle), II, b 454
- ANAXIMENES of Miletus, philosopher, II, a 4; (Astronomy), II, b 652; (Evolution), VIII, *b* 661
- Anaxonia, organic forms (Morphology), XVI, b 870
- Anazarbus or Aïn Zarba, town (Cilicia), V, b 679
- Anbury or club-root (Agriculture), I, a 327; (Botany), IV, b 84
- Ancaster, duke of (Precedence), XIX, b 682 note
- ANCELOT, Jacques Arsène François Polycarpe, dramatist, II, b 4
- Ancenis, town (Loire-Inférieure), XIV, *b* 817
- Ancestor-worship (Apparitions), II, a b 177, a 178; (Confucius), VI, a 235; (Corea), a b 349; (Festivals), IX, a b 100; (Madagascar), XV, *a* 174; (Mythology), XVII, b 148; (Religions), XX, a b 375-6, a 380; (Totemism), XXIII, a 506
- Ancestry (Knighthood), XIV, b 118, note
- Ancestry, animal (Family), IX, b 19, b 20, note; (Vertebrata), XXIV, b 193-5, a 198-200, a b 201, a b 202, a b 203
- Anchar or Antiaris tree (Upas), XXIII, a 916
- Anchinia, genus (Tunicata), XXIII, b 654-5
- ANCHISES, legendary hero, II, b 4
- Anchitherium, animal (Horse) (Ill.), XII, a *b* 177, a b 178
- Ancholme, river (Lincoln), XIV, b 660, a 661
- ANCHOR (Ill.), II, b 4-10
  - anchorage, a 10
  - construction of, a 6-7
  - mooring, b 9-10
  - navy tables, 6
  - stowing, b 8-9
  - tables of chains and anchors, Lloyd's, 5
  - tests of, a b 7
  - varieties, modern, b 7-8

- —— escapement (Clocks) (Ill.), VI, b 17-8; field (Agriculture), I, a 279, a b 281, b 283; ice (Geology), X, a 252; lying at single (Seamanship), XXI, a 626; stock strakes (Shipbuilding) (Ill.), XXI, b 857
- Anchoracephala, family (Crustacea), VI, b 576, a 588-9
- Anchorage, II, a 10
- Anchorites or Anchorets (Abbey), I, *a* 17; (Monachism), XVI, a 724, b 725
- Anchors (Iron-Wood), XIII, b 371, a 372; (Seamanship), XXI, a 627; recovery of lost (Seamanship) (Ill.), a 627
- Anchovies, fish (Ichthyology), XII, b 732
- ANCHOVY, fish, II, a 10; (Ichthyology), XII, b 732; (Italy), XIII, a 465
- Anchusa, plants. See ALKANET
- ANCHYLOSIS or ankylosis, II, a b 10; (Surgery), XXII, b 720, a 721; dental (Mammalia), XV, a 352, note
- Anchylostoma, genus (Parasitism), XVIII, b 275
- *Ancien Régime* (Tocqueville), XXIII, *a* 459
- *Anciens et des Modernes, Parallèle des* (Perrault), XVIII, b 568
- *Ancient Law*, Sir H. Maine's (Law), XIV, a 365
- —— *Mariner* (Coleridge, S. T.), VI, a 123, a 124; (Poetry), XIX, a 277
- —— *Monuments of the Magyar Language* (Döbrentei), VII, a 268
- —— *Practice of Painting* (Dyeing), VII, b 493
- —— *Scottish Poems* (Maitland), XV, a 311
- ANCILLON, Charles, jurist, II, b 10
- ANCILLON, David, divine, II, b 10
- ANCILLON, Johann Peter Friederich, historian, II, b 10
- Ancliff burning well (Pemberton), XVIII, a 492
- ANCONA, province, II, a 11; (States of the Church), XXII, b 477, a 478
- ——, city, II, a b 11; (Italy), XIII, b 448
- Ancona, Leoni, poet (Caro), V, b 110
- Ancre, Marquis d'. See CONCINI
- Ancre river (Somme), XXII, b 274
- Ancud, town (Chili), V, b 539, a 540; (Chiloé), a 544
- ANCUS, Marcius, king, II, b 11; (Rome), XX, *a* 750, b 752
- Ancylisteæ, order (Vegetable Kingdom), XXIV, *a b* 139
- Ancylotherium, fossils (Mammalia), XV, b 392
- Ancylus, genus (Mollusca) (Ill.), XVI, b 684, b 685
- Ancyra, city (Angora), II, b 41-2; battle of, 242 B.C. (Persia), XVIII, a 599
- Andacollo, village (Chili), V, b 539, b 540
- Anda el-Misk. See DIZFUL
- Andaliyeh or Adlia, town. See SATALI
- ANDALUSIA, provinces, II, b 11-2; (Spain), XXII, *a b* 310, b 311, a *b* 312, a b 313, *b* 314, *a* 315, b 320; (Wine), XXIV, b 639
- ——kingdom (Spain), XXII, b 327, b 330, a b 331, a 332
- Andalusian dialect (Spain), XXII, a b 365, b 366
- —— fowl (Poultry), XIX, b 665
- Andalusite (Mineralogy) (Ill.), XVI, b 389, b 394, b 425
- ANDAMAN ISLANDS, II, a 12-14; (Birds), III, b 660;

ANDAMAN ISLANDS, *continued* (Indian Archipelago), XII, *b* 854, a 855; (India), a 816, a 818; (Mythology), XVII, b 164
Andania, place (Mysteries), XVII, b 131, note, a 132, note, a 134
Andaràb river (Afghanistan), I, b 216, b 217; valley (Hindu Kush), XI, *b* 748, a 749
Andean subregion (Birds), III, b 647-8, b 651; flora (Distribution), VII, b 251
Andecks, counts of (Tyrol), XXIII, a 759
Andeiro, João Fernandes, ambassador (Portugal), XIX, *a* 559
ANDELYS, Les, town, II, b 14
Andema or Ant island (Caroline Islands), V, b 111
ANDENNE, town, II, b 14
Anderida, storming of, 491; (England), VIII, a b 244
ANDERNACH, town, II, b 14
Andersen, Hans Christian, fabulist (Denmark), VII, b 81
ANDERSON, Adam, economist, II, b 14
ANDERSON, Alexander, mathematician, II, b 14
——, Andrew (Draughts), VII, a 385
ANDERSON, SIR EDMUND, jurist, II, b 14
ANDERSON, JAMES, antiquary, II, a 15; (Freemasonry), IX, b 658
ANDERSON, JAMES, agriculturist, II, b 14-5; (Outram), XVIII, b 79; (Political Economy), XIX, b 387
ANDERSON, JOHN, college founder, II, a b 15
——, John, founder of Penikese school (Agassiz), I, b 247
——, John, naturalist and traveller (Burmah), IV, *a* b 499; (Ornithology), XVIII, b 20
——, John, wizard (Magic), XV, a 209
ANDERSON, ROBERT, critic, II, b 15; (Campbell), IV, b 667; (Leyden, J.), XIV, b 495
——, William, major (Hwen T'sang), XII, a 435
——, W., engineer (Hydromechanics), XII, *b* 550, note, b 564
Anderson's College, Glasgow, II, a 15; (Libraries), XIV, a 544; (Glasgow), X, b 574, a 575
—— laws (Draughts), VII, a 385
Andersonville, town (Georgia), X, a 292
Anderssen, Adolph (Chess), V, b 517, *b* 522, a b 523
Andersson, Charles John, traveller (Lion), XIV, b 687, a 688
——, Nils Johan, botanist (Willow), XXIV, *b* 620
ANDES Mountains, II, b 15-8; (America), I, a 589, b 590, a b 591, a 595, a 626; (Argentine Rep.), II, b 429; (Birds), III, b 647-8, b 651; (Bolivia), IV, b 11; (Chili), V, a b 535; (Colombia), VI, a b 137; (Ecuador), VII, b 558-60; (Mining), XVI, b 493; (Patagonia), XVIII, a 358; (Peru), a 683, a b 685; (Tierra del Fuego), XXIII, a 410; (Venezuela), XXIV, b 150, a 151
—— East, subregion (Distribution), VII, a 238, b 251; influence on climate (America), I, a 593; people of (Acclimatization), a 85; rainless region of (Bolivia), IV, b 12
Andesine (Mineralogy), XVI, b 436, b 438
Andèvo, slaves (Madagascar), XV, b 172
Andi Mountains (Caucasus), V, b 221
Andians, tribes (Lesghians), XIV, a 475
Andigena, genus (Toucan), XXIII, b 507
Andine or Andean flora (Distribution), VII, b 251
Andkhui, province (Afghanistan), I, b 216, a 217, a b 218
Andö, island (Lofoten and Vesteraalen), XIV, b 775, *a* 776
ANDOCIDES, orator, II, a 18
ANDORRE or Andorra, state, II, a b 18
Andouins, Diane d', mistress (Gramont), XI, b 39
ANDOVER, Hampshire (Ill.), II, b 18; (Hampshire), XI, *b* 385
ANDOVER, Mass., town, II, b 18; seminary (Woods), XXIV, a 914
Andrada, Antonio d', Jesuit missionary (Lhasa), XIV, a 502; (Tibet), XXIII, b 359
ANDRADA, Diego Payva d', theologian, II, a 19
ANDRADA E SYLVA, Bonifacio Jozé d', statesman, II, a 19
Andradas, the brothers, patriots (Brazil), IV, *a* 209
Andrade, Fernao Perez de, navigator (Geography), X, a 162
——, Francisco de, poet (Portugal), XIX, a 572
——, Gomes Freire de, patriot (Portugal), XIX, a 567
——, Jacinto Freire de, poet (Portugal), XIX, b 571, b 572
Andræcium, genus (Grasses), XI, b 50
Andral, Gabriel, physician (Pathology), XVIII, b 407
Andrássy, Julius, count, statesman (Hungary), XII, b 388, a 389
ANDRÉ, John, spy, II, a b 19
André le Savoyard (Kock), XIV, a 136
ANDREA, Giovanni, canonist, II, b 19; (Canon Law), V, b 19
——, Novella, beauty, II, b 19
—— della Robbia. See ROBBIA
—— de Sarto. See SARTO
Andreæ, Gudmund, lexicographer (Scandinavian Languages), XXI, b 384
——, Jacob, theologian (Lutherans), XV, a 87
——, Johann Valentin, theologian (Rosicrucians), XX, b 875
——, Laurentius, polemic (Sweden), XXII, a 792
Andreæa, mosses (Muscineæ), XVII, b 76, a 77, b 78, a 79, a 81
Andreæaceæ, mosses (Muscineæ), XVII, a 80
ANDREANI, Andrea, engraver, II, b 19
——, Chevalier Paul (Aëronautics), I, b 171
Andreanov or Andrenov Islands (Aleutian Islands), I, a 424
Andreas, poem (English Literature), VIII, *a* 361
ANDRESBERG, town, II, b 19
ANDREEVA, town, II, b 19
Andrena, genus (Hymenoptera), XII, a b 611
Andreoli, Giorgio, potter (Pottery and Porcelain), XIX, b 645-6
ANDREOSSI, Antoine François, Comte d', II, b 19-20; (Aqueduct), *b* 193, b 200
ANDRES, Juan, literary historian, II, a 20
ANDREW, ST., apostle, II, a 20; (English Literature), VIII, a 361; (Gospels), X, a 729, a *b* 747; (Patras), XVIII, b 420; (Russia), XXI, b 96
—— I., king (Hungary), XII, a b 382
—— II. (Hungary), XII, b 382
—— III. (Hungary), XII, a 383
—— of Samosata, bishop (Syriac Literature), XXII, *b* 869, b 893
—— of Suzdal, prince (Russia), XXI, *a* 99
—— of Zayton, bishop (China), V, a b 546
——, James, mathematician (Tables), XXIII, b 13
——, James Osgood, bishop (United States), XXIII, b 818 note
ANDREW, John Albion, governor, XXIII, a b 836; (United States), *a* 822
ANDREWES, Lancelot, bishop, II, a 20-1; (Casaubon), V, *a* 152; (English Bible), VIII, b 347, a 348
ANDREWS, James Pettit, historian, II, a 21
——, Thomas, chemist (Chemistry), V, a 406, b 449; (Evaporation), VIII, a 640, *b* 641, *a b* 642; (Ozone), XVIII, b 116, a b 117; (Pneumatics), XIX, b 256, a 257
ANDRIA, town, II, a 21
Andria, play (Terence), XXIII, a 204
Andriæ, Gudmund. See Andreæ
Andriamanitra, deity (Madagascar), XV, a 174
Andriacus, river (Lycia), XV, b 94, a 95
Andriana, nobles (Madagascar), XV, a b 172
ANDRIEU, Bertrand, engraver, II, b 21
ANDRISCUS, usurper, II, b 21; (Rome), XX, b 772
Andro, island. See ANDROS
ANDROCLUS, lion tamer, II, b 21
Androclus, prince (Ephesus), VIII, a b 414
Andrœcium (Botany) (Ill.), IV, *b* 113, a 114, a 122
Androlepsia, custom (Admiralty), I, b 146
ANDROMACHE, heroine, II, b 21
Andromache, play (Euripides), VIII, a 593
Andromaque, play (Racine), XX, a 213, a 215, a 216
ANDROMEDA, heroine, II, b 21-2; (Babylonia), III, b 167; (Joppa), XIII, b 756; (Perseus), XVIII, b 572
——, dwarf, VII, b 490
Andromeda, nebula in (Astronomy), II, b 718
Andromeda (Kingsley), XIV, *a* 91
Andromeds (Meteor), XVI, a 116
ANDRONICUS I., Comnenus, emperor, II, a 22-3; (Trebizond), XXIII, a 567
ANDRONICUS II., Palæologus, emperor, II, b 22
ANDRONICUS III., Palæologus, emperor, II, b 22; (Cautacuzenus), V, b 25
ANDRONICUS of Cyrrhus, astronomer, II, b 22
ANDRONICUS of Rhodes, philosopher, II, b 22; (Aristotle), b 450, *a* b 451, note, b 452 note, a 453; (Peripatetics), XVIII, b 557
Androphagi, people (Scythia), XXI, b 602
Androphore of flowers (Botany), IV, b 114
Andropogon, genus (Grasses) (Ill.), XI, *a* 50, *a* 52, b 53
Andropogoneæ, family (Grasses), XI, b 49, a 52
ANDROS or Andro, island and town, II, b 22-3; (Greece), XI, a b 75; (Lemon), XIV, b 438
—— islands (Bahamas), III, *b* 203, a 204
——, Sir Edmund, governor (Connecticut), VI, a 258; (Massachusetts), XV, a 622; (New York), XVII, *a* 467; (Wise), XXIV, b 906
Androsace, plants (Horticulture), XII, a 257
Androscoggin, river (Maine), XV, a b 300
Androt, island (Laccadives), XIV, *b* 183, a 184
Androtion, archæologist (Isocrates), XIII, b 399, a 402
Androtion, Against (Demosthenes), VII, a 61
ANDUJAR, town, II, a 23
ANDUZE, town, II, a 23
Andwari, dwarf (Nibelungenlied), XVII, b 487
Âne Mort et la Femme Guillotinée (Janin), XIII, *b* 574-5
Anecdota, Muratori's, II, a 23; (Muratori), XVII, a b 56
——, Procopius's II, a 23; (Procopius), XIX, a 811, a b 812; (Theodora), XXIII, a b 273, a 274; (Theophilus), a 296
ANECDOTE, II, a 23
Anecdotes (Nichols), XVII, a 500
—— *of Painting in England* (Walpole), XXIV, a 355
Aneiteum or Aneïtyum, island (New Hebrides), XVII, a *b* 405; island (Polynesia), XIX, a 441
ANEL, Dominique, surgeon, II, a 23

Anelier, Guillaume, poet (Provençal Literature), XIX, a 901
Anello, Tomasso. See MASANIELLO
ANEMOMETER (Ill.), II, a 23-5; (Robinson), XX, b 623-4
Anemone, flower (Adonis), I, b 143; (Botany), IV, b 83, a 87, b 111, b 121; (Horticulture), XII, b 244, b 260
——, sea (Actinozoa), I, a 120-1; (Aquarium), II, b 189; (Cœlentera), VI, a 99; (Crustacea), VI, a 581; (Parasitism) (Ill.), XVIII, a 265
Anemurium, town and promontory (Cilicia), V, b 678
Anencephalous Monster, XVI, a 790
Aneroid barometer (Ill.), III, b 330-1, a b 334
ANET, town, II, a 25
——, chateau of (Goujon), XI, a 5
Anethan, Jules Joseph, baron de (Belgium), III, b 458
Anethum, plants (Dill), VII, b 209
Aneura, mosses (Muscineæ), XVII, a 73, b 74
Aneurin, Book of (Celtic Literature), V, a 273, *b* 274, a *b* 275
ANEURISM, II, a 25; equine (Veterinary Science), XXIV, a b 222; history of (Surgery), XXII, a b 709, a *b* 711; popliteal (Hunter, J.), XII, *a* 404, notes; treatment of (Surgery), XXII, b 718-9
Aneysa, town. See 'ONEIZA
Anezah or Aneze, tribes (Arabia), II, b 215; (Mesopotamia), XVI, *a* 54; (Syria), XXII, b 862
Anfa, town. See CASA BLANCA
Anfänge de Romänen (Vlachs), XXIV, b 238
Anga-Anga, mountains (Borneo), IV, a 50
Angad, Sikh gurú (Punjab), XX, b 116
Angamos Guano, XI, b 208
ANGARA rivers, II, a 25; (Baikal), III, a 208; (Irkutsk), XIII, b 282, a b 283; (Siberia), XXII, a *b* 9, a 13, b 15; (Transbaikalia), XXIII, a 542; (Yeniseisk), XXIV, a b 779, note, b 780
ANGARIA, postal service, II, a 25
Angeberg, count, jurist (Treaties), XXIII, b 566
Angekok or angakok, priests (Demonology), VII, b 56; (Eskimo), VIII, b 482
Angeln peninsula (Schleswig-Holstein), XXI, a 433
Angeioma, tumor (Pathology), XVIII, a 376
ANGEL, II, a 25-7
  apocryphal, b 26
  New Testament, b 26
  Old Testament, b 25
  theological, a 27
—— *of the Annunciation* (Wood-Carving) (Ill.), XXIV, a 682
—— of Jehovah (Logos), XIV, b 813, a 814
—— *Kneeling,* Bologna (Michel Angelo), XVI, a 239
ANGEL, coin, II, a 27
—— Island (San Francisco), XXI, b 274-5
Angela della Pace, nun (Stigmatization), XXII, b 577
Angel-Fish (Ichthyology), XII, a 724; (Shark), XXI, b 812
ANGELICA, plant, II, a 27; (Horticulture), XII, a 302
Angelic Brethren (Gichtel), X, a b 525; (Mysticism), XVII, a 142
Angelico, Fra. See FIESOLE
Angelion, sculptor (Archæology), II b 305
Angélique de Sainte Magdelaine. See ARNAULD
Angelo da Siena. See AGOSTINO and AGNOLO DA SIENA
Angelo, Michel. See MICHELANGELO
Angelology (Apocrypha), II, b 160-1; (Daniel), VI, a 710
Angels (Kabbalah), XIII, a b 821; personality of (Scholasticism), XXI, b 446, b 447; of the seven churches (Episcopacy), VIII, a 431
Angelus, emperor. See ISAAC
Angelus a Sancto, missionary (Mandæans), XV, a 475
ANGELUS SILESIUS, poet, II, a b 27; (Boehme), III, a 741; (Hymns), XII, b 621
Anger, suburb. See PASSAU
ANGERMANN, river, II, b 27; (Sweden), XXII, b 774
ANGERMÜNDE, town, II, b 25
ANGERS, town, II, b 27; destruction of bridge at (Bridges), IV, b 272. See UNIVERSITIES
ANGERSTEIN, John Julius, merchant, II, b 27
Angevin house (Naples), XVII, b 198; (Normandy), b 558-9
ANGHIARI, town, II, b 27
——, Baldaccio d', captain (Medici), XV, a 795
ANGILBERT, ST., poet, II, b 27
ANGINA PECTORIS, II, a 28
Angiolello, Giovan Maria, traveller (Geography), X, b 160
Angiolieri, Cecco, humorist (Italy), XIII, b 511
Angiology of Galen (Anatomy), I, b 704-5
Angiopteris, genus (Ferns), IX, b 92, a 93
Angiospermæ, class (Biology), III, *b* 601-2; (Botany), IV, b 131, *b* 132-4, *b* 139, b 140, a *b* 141, b 146; (Reproduction), XX, a 441; (Vegetable Kingdom), XXIV, a b 143
Angiostomata, snakes (Reptiles), XX, a 465
Angirtakshia range (Tibet), XXIII, a 363
Angkola, district (Sumatra), XXII, *b* 672
Angkor, town (Cambodia), IV, a 641, a 642
ANGLE, II, a 28; of Aperture (Microscope), XVI, a 270, b 273-4, a b 278; of incidence, wave (Harbors and Docks), XI, a 409, b 410; magnitude of (Measurement), XV, b 673; of reflection (Light), XIV, b 590; of repose (Mechanics), XV, a 711; unit (Trigonometry), XXIII, a b 598
Angles (Geometry), X, a 336-7, a 339, a b 344; of any magnitude (Trigonometry), XXIII, a 598
——, expansion of (Trigonometry), XXIII, b 607
——, measuring (Geodesy), X, b 150-2; (Mensuration), XVI, b 21; horizontal (Geodesy), X, b 147-8; (Surveying), XXII, b 734-5; instruments (Surveying), b 754
——, multiple (Trigonometry), XXIII, a 600; numerical measurement of (Trigonometry), XXIII, a 598; position (Micrometer), XVI, a 252; sine and cosine of half (Trigonometry), XXIII, b 601-2; solid (Geometry), X, b 344; (Mensuration), XVI, a 30; theodolite measurement (Surveying), XXII, a b 756
—— theoretical errors of (Surveying), XXII, b 735; of functions of (Surveying), a b 740
—— of trigonometrical figures, harmonizing (Surveying), XXII, a 736; trihedral (Geometry), X, b 344-5
—— crystals (Mineralogy), XVI, a 359, a b 360, a 363-4, b 366, b 375, a 377; reëntering (Mineralogy), (Ill.), a 377
ANGLES, tribes, II, a b 28; (England), VIII, a 238, b 241-3; (Scotland), XXI, *a* 498
ANGLESEA or Anglesey, island, II, b 28; cattle (Agriculture), I, b 345; Coal-field, VI, a 50
ANGLESEA, Arthur Annesley, Earl of, II, b 28-9
ANGLESEY, H. W. Paget, Marquis of, II, a 29-30
Anglesite, mineral (Lead), XIV, a 375; (Mineralogy) (Ill.), XVI, b 385, a-b 417
Angliæ De legibus et consuetudinibus regni (Glanvil), X, a 566
Anglian settlements (England), VIII, b 244-5; supremacy (Scotland), XXI, *a* 498
Anglican communities (Monachism), XVI, b 741
Anglicanism (Church), V, *b* 663, a b 664
Anglicisms of speech (Hindūstānī), XI, b 750
Anglicus, cardinal, 14th cent. (Universities), XXIII, b 889
ANGLING (Ill.), II, a 30-41
  bottom fishing, a 30-1
  flies, artificial, a 34-6
  salmon, a b 37
  lake fishing, a 36
  live baiting, b 32-3
  mid-water fishing, a 31-3
  salmon fishing, a 36-7
  surface fishing, a 33-6
  tackle and fly making, b 40-1
  trout fishing, b 37-8
  varieties of fish (Ill.), a 38-40
—— (Walton), XXIV, a 363
——, treatise on knowledge of (Shakespeare), XXI, a 806
Angliorum et Werinorum, Lex (Salic Law), XXI, b 225
Anglo-Danish fiction (Romance), XX, a b 674-5, a 678
—— -French perfecting machine (Typography), XXIII, b 753
—— -Gallic coins (Numismatics), XVII, b 674
—— -Jewish Association (Jews), XIII, a 695
—— -Norman dialect (France), IX, b 554; (Ireland), XIII, a b 225, b 238, b 264 *sq*
—— -Russian boundary commission (Persia), XVIII, a b 627
Anglo-Saxon Alphabet, I, a 538; (T.), XXIII, a 5; Arms and Armor, II, *a* 487; Army, a 497, a b 498; Architecture, b 372; Brooch, IV, b 332; character (Scotland), XXI, b 502-3; *Chronicle* (Northumberland), XVII, b 582, a 583, *b* 584, b 585; Church (Liturgy), XIV, a b 715; costume, VI, b 411-2; dialect (Barbour), III, a 315; *Dictionaries*, VII, a 162; Ear-rings, VII, b 515; Helmet, XI, a 569; influence (Colony), VI, a 143; Ivory (Carving), V, a 147; Jewellery (Plate XII), XIII, *b* 687, a 688; Knighthood, XIV, a 112-3 a 115; kingdoms (Northumberland), XVII, b 582-5; (Warwickshire), XXIV, b 775-6; (York), XXIV, b 786; language (English Language), VIII, a b 349, a b 350, a 359, a 360; (Europe), a 615; (Germany), X, a b 462; (Junius F., 2d), XIII, *a* 788; *Leechdoms* (Medicine), XV, a 816; literature (Ælfric), I, b 164; (English Literature), VIII, a 360-3; poetry (Alliteration), I, a b 516; polity (Parliament), XVIII, a 308; printing (Typography), XXIII, a 741; *Psalter* (English Bible), VIII, a 342; serfs (Slavery), XXII, b 145; study of (Foxe), IX, b 443
Anglo-Saxonum, Leges (Salic Law), XXI, b 225-6
Angoche, district and island (Mozambique), XVII, *b* 13, a 14
ANGOLA, territory, II, a 41; (Africa), I, a b 225, a 228, b 241; *Dictionary*, VII, b 167
Angolares, race (St. Thomas), XXI, *a* 211
Angon of the Franks (Arms) (Ill.), II, *b* 486
ANGORA, city, II, b 41; battle of, 1402 (Turkey), XXIII, b 682; province, XXIII, a 695
—— goat (Ill.), X, a 632; (Mohair), XVI, a 568; (Opium), XVII, b 811; Rabbit, XX, a 200
ANGORNO, town, II, a 42
Angosciola. See ANGUSSOLA
ANGOSTURA, town, II, a 42. See also Ciudad Bolivar

ANGOULÊME, city, II, a 42
ANGOULÊME, Charles de Valois, Duke of, II, a b 42
ANGOUMOIS, province, II, b 42
—— Angoy, district (Loango), XIV, b 748
ANGRA, city, II, b 42; (Azores), III, b 147, a 149
—— Pequeña bay (Cape Colony), V, a 39
Angren river (Syr-Daria), XXII, b 857, a 858
ANGRI, town, II, b 42–3
Angria or Engern, district (Saxony), XXI, a 367
——, pirate (Viziadrug), XXIV, b 287
Angrô-Mainyush, deity (Zoroaster), XXIV, b 861
Angström, Anders Jonas, physicist (Aurora), III, b 81–3; (Comet), VI, b 173; (Heat), XI, a b 516, note, a b 517, note, b 518; (Zodiacal Light), XXIV, b 836, a 837
ANGUIER, François sculptor, II, a 43
——, MICHAEL sculptor, II, a 43
ANGUILLA, Island, II, a 43; (Cotton), VI, a 430
——, genus (Eel), VII, b 600–2
Anguillula, worms (Nematoidea), XVII, a 334; (Wheat), XXIV, b 566
Anguineum or snake's egg (Druidism), VII, b 412
Angular acceleration about a moving axis (Mechanics), XV, b 699; advance of eccentric (Steam-Engine), XXII, a 524; sections (Algebra), I, b 453; velocities (Mechanics), XV, b 689, b 690, a b 699, a b 700, b 744–745, a b 746
Angulo-splenial bone (Amphibia), I, a 662, b 664, b 666
Angus, county. See FORFAR
Angus, Archibald Douglas, earl of, Bell the Cat (Douglas), VII, a b 326
——, Archibald Douglas, 6th earl of (Scotland), XXI, b 517, a 518
—— Archibald Douglas, 7th earl of, regent (Glasgow), X, b 569–70; (James V.), XIII, a 567; (Scotland), XXI, b 519, a b 520, a b 521
——, George, earl of (Scotland), XXI, a b 516
—— cattle (Agriculture), I, b 344
ANGUSSOLA, Anguisciola or Angosciola, Sophonisba, painter, II, a 43; (Van Dyck), XXIV, a 68
ANHALT, duchy, II, a b 43; (Saxony), XXI, a 368
Anhalt-Köthen, Louis of, duke (Germany), X, b 474
Anharmonic ratio (Geometry), X, a 349; (Measurement), XV, a b 672, a b 673, a 674
Anhinga, bird (Snake-bird), XXII, a b 198, notes
Anhydride of Chronium, V, b 612; of Sulphur, XXII, b 669
Anhydrides (Chemistry), V, b 479, a 496; (Lactic Acid), XIV, a b 197; (Tartaric Acid), XXIII, b 75; monobasic (Sainte-Claire Deville), XXI, a 174
Anhydrite (Mineralogy), XVI, a 417
Anhydrosulphuric acid (Chemistry), V, a b 439
Ani, bird (Cuckoo), VI, b 608
——, city (Transcaucasia), XXIII, a b 547
Aniane, monastery of (Monachism), XVI, a 734
Anianus, jurist (Breviarium Alaricanum), IV, a 235
Anicetus, St., pope (Easter), VII, b 531; (Good Friday), X, a 689; (Polycarp), XIX, a 430; (Popedom), a 503, b 523
——, prefect (Nero), XVII, b 358
ANICHINI, Luigi, engraver, II, b 43
Anicium, town. See LE PUY
Anie, mountain (Pyrénées), XX, b 132; (France), IX, b 445
Aniello, Puccio d', actor (Punchinello), XX, a 111
Anien river. See ANIO
Anier, Mac Conglinne, poet (Celtic Literature), V, b 270–1
ANILINE, II, b 43–4; (Chemistry), V, a 500; (Coal Tar Colors), XVIII, a b 900, a b 901; (Indigo), XII, b 884; black (Calico Printing), IV, a 611, a 612; (Vanadium), XXIV, a 61; conversion of (Coal Tar Colors), XVIII, a b 902
—— dyes (Calico Printing), IV, a b 612, b 613, a b 614; (Chemistry), V, a 501; (Dyeing), VII, a b 494, a b 497, b 499, a b 500, a 501; (Fibres, Textile), IX, b 117
—— ink, XIII, a b 87; oil, commercial (Coal Tar Colors), XVIII, a 902
Anilocra (Crustacea), VI, a 565
Animadversiones (Petau), XVIII, b 706
Animal alkaloids (Chemistry), V, b 500; Charcoal, b 346–7; cries (Dictionary), VII, b 158; (Electricity), VIII, b 4, a b 9; heat (Liebig), XIV, b 571; Histology, XII, a 6–12
ANIMAL KINGDOM, II, b 44–9
  classification, b 44–9
  metazoa, b 46–9
  agastræ, b 49
  mollusca, a 48
  monostromata, a 47
    polistomata, b 46
    tunicata, a b 48
    vertebrata, b 48–9
  protozoa, b 45–6

—— Kingdom (Zoology), XXIV, a 837–59; (Variation and Selection), XXIV, a b 92
—— life, dynamic action of (Geology), X, a b 256–7; oils (Lubricants), XV, b 36; (Oils), XVII, b 765, b 768–9; painting (Landseer), XIV, b 280–2; (Potter, P.), XIX, b 617; (Parasitism), XVIII, a 262–8; (Phosphorescence), b 826–7; remains, formed of rocks (Geology), X, a b 213; spirits (Phrenology), XVIII, a b 857; spirits defined (Physiology), XIX, b 13; taints (Smell), XXII, a 178; types (Morphology), XVI, a b 865, a b 866; types (Ornithology), XVIII, a 19; worship (Egypt), VII, b 619, a b 621, a 622
Animalcules, wheel (Rotifera), XXI, a 8
Animalculists, school of (Zoology), XXIV, b 854
Animalium Historia (Gesner, K.), X, a 496; Zoology, XXIV, a 843
Animals (Acclimatization), I, b 80, a b 81, a b 82; (Arabia), II, b 209–12; (Egypt), VII, b 616–8; (Heraldry), XI, b 622–4; (Hybridism), XII, b 437 *sq.*, a b 441, b 442; (Reproduction), XX, a 419–35
—— automatic nature of (Cartesianism), V, a b 129; Biblical (Ornithology), XVIII, b 8 note; cave or deep sea (Zoology), XXIV, a 858; classification (Zoology), XXIV, 844–53; color of (Mimicry), XVI, a 354–7; cyclical (Zodiac), XXIV, b 831; distribution of (Ornithology), XVIII, a 10; land (Distribution), VII, b 232–4; marine (Distribution), VII, b 240–4; mimetic forms of (Mimicry), XVI, a 353–6; physiology of (Protozoa), XIX, b 852, a b 853; protection of (Government), XI, b 18; vegetating (Insectivorous Plants), XIII, b 146; (Parasitism), XVIII, b 273–4
Animated Nature (Goldsmith), X, a 679
ANIMÉ, gum, II, a 49
ANIMISM, II, a 49–52
  decay of, a 51–2
  definition, a 49–50
  development under culture, b 50–1
  origin of, a 50
  soul theory, b 50

—— (Alchemy), I, a 413; (Apparitions), II, b 177 *sq.*; (Demonology), VII, a 54, a b 55; (Dervish), b 99; (Ethnography), VIII, b 547; (Java), XIII, a 618; (Lycanthropy), XV, b 92–3; (Medicine), a 822; (Mythology), XVII, a 144, b 147; (New Caledonia), a 386; (New Guinea), a b 398; (Oracle), a 832; (Penates), XVIII, a 500; (Polynesia), XIX, a 440; (Religions), XX, b 379, a 380, a 382; (Siam), XXI, a b 893
ANIMUCCIA, Giovanni, composer, II, a 52; (Music), XVII, b 91, a 92; (Palestrina), XVIII, a 183, a b 185
——, Paolo, composer, II, a 52
Animus furandi, impulse (Theft), XXIII, b 251, a 252
ANIO or Anien, river, II, a 52; (Latium), XIV, b 345; (Tivoli), XXIII, b 448
—— Novus (Aqueduct), II, b 191–2; Vetus (Aqueduct), II, a 192
Anion (Electrolysis), VIII, b 100
ANISE, plant (Ill.), II, a 52; (Horticulture), XII, a 302
Aniseia, plant (Peru), XVIII, b 683
Anisols (Chemistry), V, a 491
Anisometropia, disease (Spectacles), XXII, a 387
Anisopleura, gastropoda (Mollusca), XVI, a 667, a 688
Anisoplia, beetle (Wheat), XXIV, b 566
Aniva, gulf of (Saghalin), XXI, b 155, a 156
ANJÁR, Hindu town, II, a 52
ANJENGO, town, II, b 52
ANJER, Javanese town, II, b 52
ANJOU, province, II, b 52–3
——, counts of (Capet), V, a 50; house of, II, b 52–3; (France), IX, b 488
——, François, duc d' (France), IX, a 494
——, Geoffrey of (Plantagenet), XIX, a 186
——, Henry of. See HENRY III. France
——, Lieutenant, explorer (Polar Regions), XIX, b 332
——, Louis, duke of (Alphonso V.), I, a 543
——, Margaret of, queen. See MARGARET
ANJOU, René, duke of, II, a 53
'Anka, bird, myth (Phœnix), XVIII, b 824
Ankàratra, mountains (Madagascar), XV, a 169, a 170
ANKARSTRÖM, Johan Jacob, assassin, II, a b 53; (Gustavus III.), XI, b 299
Ankerite, mineral (Iron), XIII, a 303; (Mineralogy), XVI, a 414
Ankerwyke Yew, XXIV, a 782
ANKLAM or Anclam, town, II, b 53
Ankle-joint (Anatomy), I, a 738; (Dislocation), VII, a 225; (Megatherium), XV, a 839; amputation at (Surgery), XXII, a b 713
ANKOBAR or Ankober, town, II, b 53; (Abyssinia), I, a 64, b 65
Ankogel, mountain (Gastein), X, a 97
Ankylosis. See ANCHYLOSIS
Anlace, weapon (Sword), XXII, a b 841
Anlaf Sitricson, king of Dublin (Edmund I.), VII, b 580; (Romance), XX, a 674
Ann, cape (Massachusetts), XV, a 618
ANNA, Ana or Anah, town, II, b 53
Anna Aldona of Lithuania (Poland), XIX, a b 300
—— Amelia of Prussia. See Amelia, Anna
ANNA, Baldasarre d', painter, II, a b 54
ANNA CARLOVNA, Russian regent, II, b 53
ANNA COMNENA, historian, II, b 53–4; (Byzantine Historians), IV, a 545

ANNA IVANOVNA, czarina, II, a 54; (Elizabeth Petrovna), VIII, b 135; (Russia), XXI, a b 106-7; (Saxe), b 361
—— Maria of Austria, queen of Spain (Charles II.), V, *a* 363
—— of Mecklenburg, grand duchess (Russia), XXI, *a* 107
—— Petrovna, princess (Russia), XXI, *b* 106, a 107
Annaba, town. See BONE
ANNABERG, town, II, b 54
Annabergite (Mineralogy), XVI, b 421
Annabona, town. See ANNA BOM
Annalen der Physik und Chemie (Poggendorff), XIX, a b 285
Annales Cambriæ (Celtic Literature), V, a 274; *de Chimie et de Physique* (Arago), II, a 264; *de Dunstaplia* (Dunstable), VII, b 471; *Ecclesiastici* (Baronius), III, a 336; *Ecclesiastici* (Popedom), XIX, b 519, a 525; *of England* (Godwin, F.), X, a 638; (Stow), XXII, b 608; of Ennius (Roman Literature), XX, a 737; *Maximi* (Roman Literature), b 735; *du Musée* (Landon, C. P.), XIV, b 278; *Ordines Minorum* (Wadding), XXIV, b 325; *Politiques* (Newspapers), XVII, a b 441; of Tacitus, XXIII, a 25; *Veteris et Novi Testamenti* (Usher), XXIV, a 22
Annalists, early Roman (Livy), XIV, a 733, b 734-735
ANNALS, II, b 54
Annals (Iceland), XII, a 662; Arabian (Tabarí), XXIII, b 7, a b 8; *of Agriculture* (Young), XXIV, a b 793; *of Cloonmac-noise* (Aurora), III, a 79; of Dionysius Tell-Mahrē (Syriac Literature), XXII, a b 889; of Elias bar Shīnāyā (Syriac Literature), a 894; *of the Empire* (Voltaire), XXIV, a 310, a 313
—— *of the Four Masters* (Celtic Literature), V, a 267, b 283; (Crannogs), VI, b 489; (Donegal), VII, b 314; (Ireland), XIII, b 251, a 261, b 267, a 269, a 271
——, Irish (Celtic Literature), V, a 267-8, b 282; *of the Kings of Israel* and *Judah* (Chronicles), b 614-5; *of Lu* (Confucius), VI, a b 230, a 234; *of the Parish* (Galt), X, *b* 43, *a* 44; *of Rajasthan* (Hindustani Literature), XI, a 753; *of Scotland* (Hailes), XI, b 334; *Spring and Autumn* (China), V, b 573, a b 574; Welsh (Celtic Literature), b 284
Annâly, county (Longford), XIV, b 874
Annam, kingdom. See ANAM
ANNAMABOE or Anamaboe, town, II, b 54
ANNAN, borough, II, a 55; river, a 55; (Dumfries), VII, a b 454; (Scotland), XXI, a 546
Annandale, district (Dumfries), VII, a b 454, a 455; (Scotland), XXI, b 543
——, Bruce, lords of (Robert), XX, *a b* 608, note, b 609
ANNAPOLIS, Maryland, town, II, a 55; (Baltimore), III, b 257; (Navy), XVII, b 310
—— Convention, 1786 (United States), XXIII, a 796; (Washington), XXIV, b 410
ANNAPOLIS, Nova Scotia, II, a 55; river (Nova Scotia), XVII, a b 616
ANN ARBOR, Mich., town, II, a 55; (Libraries), XIV, b 552; (Observatory), XVII, b 735
Annas, high priest (Jesus Christ), XIII, b 678
Annat, barley (Agriculture), I, a 319
ANNATES, tax, II, b 55; (Queen Anne's Bounty), XX, a 176
Annatto. See ARNOTTO
Anne of Austria, queen and regent of France (Condé the Great), VI, b 218, a *b* 219, *a* 220; (France), IX, a 500, *a* 503, b 504; (La Rochefoucauld), XIV, b 317; (Motteville), XVII, a b 10; (Paris), XVIII, b 297
—— of Beaujeu or Madame la Grande, regent of France (Charles VIII.), V, a 357; (France), IX, b 488
—— Boleyn, queen, IV, b 5-6; (Elizabeth), VIII, b 132; (England), a b 300, a 302; (Henry VIII.), XI, a b 592, a 593. See BOLEYN
—— of Brittany, queen (France), IX, a b 489; (Nantes), XVII, *b* 179; (Scotland), XXI, *a* 519
—— of Cleves, queen (England), VIII, a 302; (Henry VIII.), XI, a 593
—— of Denmark, queen of England (Scotland), XXI, b 530
ANNE of England, queen, II, b 55-7; (Bolingbroke), IV, *a* b 7; Bounty of, XX, a 176; (Camisards), IV, a 658 note; (Convocation), VI, b 291; (England), VIII, b 316-7; (English Literature), a 379-81; (Godolphin), X, b 637; (Horse), XII, b 186-7, b 204; (Johnson, S.), XIII, a 730; (London), XIV, a b 860; (Marlborough), XV, b 560, *a* b 561, b 562; (Navy), XVII, a 291; (Newton), b 458-9; (Oxford, Earl of), XVIII, b 103, a 104; (Pamphlets), a 209; (Pope), XIX, *a* 497; (Post-Offices), XIX, a 581; (Slavery), XXII, *b* 906; (Swift), a b 802; (Walpole), XXIV, *a* 356; Act of (Copyright), VI, *b* 316, *a* 317, a 321; reign of (Costume), VI, b 421
—— Marie or Mary of Orleans, queen (Savoy), XXI, a 357
ANNEALING, II, a 57-8; Glass, X, b 584, a 588, b 589, b 590, b 591; for Telescope, XXIII, b 158; (Iron), XIII, b 285, b 362-3, b 364; metals, XVI, a 70; (Strength of Materials), XXII, a 631; (Mint), XVI, b 510, a b 512, a 513; process of (Thermometer), XXIII, b 309
Annectent gyri, tissues (Anatomy), I, a b 767
ANNECY, town, II, a 58; (Savoie), XXI, *a b* 348; lake, II, a 58; (Lake), XIV, a 219, a b 221; (Savoie), XXI, a 348
ANNELIDA (Ill.), II, a 58-64
borers, a 64
Discophora, b 62
economical value, b 63
Gephyrea, a 63
Oligochæta, b 61
Onychophora, a 62
phosphorescence, a 64
Polychæta, b 58-61
—— (Animal Kingdom), II, b 46, a 47; (Arachnida), II, a *b* 237; (Brachiopoda), IV, a b 170; (Vertebrata), XXIV, *a* b 198, a 199; nerves of (Physiology), XIX, b 35; parasites of (Protozoa), b 877
Annerödite (Mineralogy), XVI, a 445
Annesley, Earls. See ANGLESEA
—— Bay (Red Sea), XX, *a* 329
Annet, Peter, philosopher (Deism), VII, a 31, b 32
ANNI or Ani, city, II, b 64
Annihilation (Buddhism), IV, b 388-9; (Eschatology), VIII, b 475-6
Anniveiler, town. See Aniveiler
Annivite (Mineralogy), XVI, b 411
Anno, archbishop, Cologne (Henry IV., emp.), XI, a 595
ANNO BOM or Annabona, island, II, b 64; (Africa), I, a 230
ANNONAY, town, II, b 64
Annotations of Tirechan (Ireland), XIII, a 253
Annual Register (Burke), IV, b 482-3, a 484; (Persia), XVIII, a 660 note
Annuario Statistico Italiano, 1881 (Italy), XIII, b 457, a 461 note
ANNUITIES, II, b 64-80
annual payment, a 66-7
approximation formulæ, a 74
bibliography of, b 73, b 75
commutation table, a 72
compound interest, a 66, *sq*
continuous, a 77
deferred, b 71
Dutch, b 69-70
explanation of terms, b 64-5
Gompertz's law, b 76-7
joint lives, a 75
life, a 68
life insurance, b 77
probabilities, law of, a 69
reversionary, a 76
Roman, b 70
semi-annual payments, a 67
stocks, perpetual, b 65
tables, 78-80
temporary, b 71
—— (Consols), VI, b 261; (Copyright), b 318; (Finance), IX, b 158, a 160; (Friendly Societies), a 688; (National Debt), XVII, b 249, b 250, a 252; (Post-Office), XIX, a b 590, b 593, note; life (England), VIII, b 217; values of (Insurance), XIII, b 178
Annular lenses (Lighthouse), XIV, b 624, a 634; sail (Windmill), XXIV, b 631
Annulet, the (Heraldry), XI, a 628, a 629
Annulosa, fossil (Distribution), VII, a b 247
Annulus albidus (Anatomy), I, a 779
——, area of (Mensuration), XVI, a 23
ANNUNCIATION, festival, II, a 80; (Chronology), V, *a* 619; (May), XV, b 598
——, order of the (Knighthood), XIV, a 123
Annunciation, painting (Ostade), XVIII, b 62; by Lippo Lippi (Schools of Painting) (Ill.), XXI, b 452
Annunciator (Telephone), (Ill.), XXIII, b 145
Annus Mirabilis (Dryden), VII, a 423
Anobium, beetle (Coleoptera), VI, a 120
Anochanus sinensis, genus (Echinodermata), VII, b 546
Anode defined (Electrolysis), VIII, b 100
Anodon, genus (Mollusca) (Ill.), XVI, a b 711, a b 713, a 717, a 719, a 720; (Mussel), XVII, a *b* 117; (Oyster), XVIII, a 110; (Pearl), a 457 note, a 459
ANODYNE, II, a 80; (Narcotics), XVII, a 237
Anoi heights (Ithaca), XIII, a 527
ANOINTING, II, a 80; (Ampulla), I, b 681; (Coronation), VI, a *b* 380; (Extreme Unction), VIII, a 712; royal (Scotland), XXI, a 511
Anolis, genus (Lizard), XIV, a 739, b 741, a 742
Anomalies (Mechanics), XV, b 716
Anomalists, the (Grammar), XI, a 39
Anomalogonatæ, class of bird (Ornithology), XVIII, b 43, a 44
Anomalous magnetization (Magnetism), XV, a 262
Anomalurus, rodent (Mammalia) (Ill.), XV, a 351, b 422; (Skeleton), XXII, b 114, a 116
Anomaly, true (Comet), VI, b 164, a 167, a 169, a 170
Anomia. See Brachiopoda
Anomite (Mineralogy), XVI, b 430
Anomochloa (Grasses), XI, *a* 49, a *b* 50, a b 52, b 53
Anomocladina (Sponges) (Ill.), XXII, a 432, b 433, b 438, b 440, a 445
Anomodontia, order (Reptiles), XX, a 455, b 478-9
Anomœans, heretics (Aëtius, Bishop), I, a 202; (Eunomius), VIII, b 585
Anomoura, sub-order (Crustacea), VI, a b 566, note, a 567, a 568, a 570, b 573 note, b 579, a 580-2

Anona, genus (Custard Apple), VI, b 643
Anonymus Nilantianus (Phædrus), XVIII, b 740
Anopla, worms (Nemertines), XVII, a 336
Anopleura lentisci, aphis (Galls), X, a 42
Anoplophrya, genus (Protozoa) (Ill.), XIX, a 886, a 888
Anoplotherium, fossil (Mammalia) (Ill.), XV, b 355, a 436
Anoplura, order (Insects), XIII, a 160; (Louse), XV, *a* 26
Anorthic crystals (Mineralogy), XVI, a b 375; twins (Mineralogy), b 830
Anorthite (Mineralogy)(Ill.), XVI, b 436, b 437, a 438
Anorthura, bird (Wren), XXIV, b 723
ANOUKIS, goddess, II, b 80
Anouk-phet Toung-myeng mountains (Bassein), III, a 367
Anourosorex, genus (Mammalia), XV, *a* 407
Anous, genus (Noddy), XVII, a b 544
ANQUETIL, Louis Pierre, historian, II, a 81
ANQUETIL DU PERRON, Abraham Hyacinthe, Orientalist, II, a b 81; (Zend Avesta), XXIV, *b* 816
An Riabhachan, mountain (Ross Co.), XX, a 877
Ansa river (Bilbao), III, *a* 581
Ansairi Hills (Syria), XXII, b 860
Ansan, province (Ispahán), XIII, *b* 405-6
Ansár, family (Medina), XV, a 827, note; (Mohammedanism), XVI, b 577, b 602
Ansárí, ‘Abdalláh, Sheik, author (Persia), XVIII, a 671
Ansarii or Nosarii, sect (Assassin), II, a 633
ANSBACH or Anspach, town, II, b 81
Ansegisus, of Fontanella, St., abbot (Canon Law), V, b 17; (Capitularies), a b 66
ANSELM of Canterbury, archbishop, II, b 81-3; (Eadmer), VII, a b 509; (England), VIII, b 273; (England, Church of), a 334; (Ethics), a b 522; (Henry I. England), XI, a b 585, *a* 586; (Immaculate Conception), XII, a 754 note; (Mary), XV, b 597; (Metaphysic), XVI, b 96; (Roscellinus), XX, a b 871; (Scholasticism), XXI, b 435, a b 436, *b* 439, a 440, a 443; (Theism), XXIII, a b 260, a 261 note; (William II.), XXIV, b 609-10
ANSELM of Laon, commentator, II, a 83; (Gloss), X, b 612; (Hermeneutics), XI, b 667
Anser, bird (Goose), X, a 691-2; (Ornithology), XVIII, b 50
Ansgarius or Anskar, bishop (Bremen), IV, a 229; (Denmark), VII, a 74; (Hamburgh), XI, a 365; (Missions), XVI, b 535; (Monachism), a 734; (Schleswig), XXI, a 432
Anshan, city (Persia), XVIII, a 577
Ansicarus, Joannes, inventor (Typography), XXIII, b 731
Anskar. See Ansgarius
Anslo, Reyer, poet (Holland), XII, a 99
ANSON, George, Lord, admiral, II, a b 83; (Geography), X, a 169; (Payta), XVIII, a 452
—— island (Micronesia), XVI, a 267
Anspach, town. See ANSBACH
Anster Fair, poem (Tennant), XXIII, a 192
ANSTEY, Christopher, poet, II, b 83
——, John, II, b 83
ANSTRUTHER-EASTER, borough, II, b 83
ANSTRUTHER-WESTER, II, a 84
Ansuino of Forlè, painter, (Mantegna), XV, b 508 note
ANT, insect (Ill.), II, a 84-9
  bibliography, a b 84
  communities, b 84
  eciton or foraging, b 86-7
  enemies, a 88
  food, b 85-6
  groups of, a 84
  nests, a 86, b 87
  reproduction, b 87
  senses and faculties, b 85, a 87
  slave-makers, a b 86
  stings, b 87
  structure of, a b 85
  white or termites, a 88-9
—— (Arabia), II, *b* 212; (Hymenoptera), XII, *b* 606, b 608, *a b* 609, a *b* 611, a 612; (Insects), XIII, a 148, a 150, b 152, a 153, a b 154, a 159, a 160; (Loango), XIV, a 749; (Leeuwenhoek), XIV, a 412; pouched (Honey), XII, b 139
—— II, a 88-9; termite or white (St. Helena), XXI, a 180; (Egg), VII, a 604; (Nile), XVII, b 519, note; (Siam), XXI, a 891
Ant-bear (Mammalia), XV, b 388-9
Antæ, pier ends (Architecture), II, a 403; Greek (Architecture), II, b 356, b 358; Roman (Architecture), b 365, b 366
Antæopolis, city (Egypt), VII, b 672
ANTÆUS, giant, II, a 89; (Hercules), XI, b 649
Antakie, town. See ANTIOCH
ANTALCIDAS, statesman, II, a 89
—— peace of, 387 (Greece), XI, b 92; (Ionia), XIII, b 211; (Persia), XVIII, b 589; (Sparta), XXII, b 384
ANTALO, town, II, a 89; (Abyssinia), I, a 64
Antananarivo, town (Africa), I, b 243; (Madagascar), XV, a 176
ANTARA or Antar, poet, II, a b 89; (Hamasah), XI, b 359, b 360; (Mo‘allakát), XVI, a b 560, a 561
ANTARCTIC OCEAN, II, b 89; currents, influence on Patagonia, II, a 430
—— explorations (Dumont D'Urville), VII, a 458; (Geography), X, b 172, a b 174; (Polar Regions), XIX, b 341-3
—— flora (Distribution), VII, b 251; fauna (Ichthyology), XII, a b 720; snows (Meteorology), XVI, b 159; winds (Meteorology), b 151
Ant-eater or echidna (Australia), III, a 97; anatomy of (Mammalia), XV, a 357; axial skeleton of (Skeleton), XXII, b 119, a 120, a 121; classification (Mammalia), XV, b 374, *a* b 387, *a* b 388, a 389, b 291-2; digestive system of (Mammalia), a 365; respiration of Great (Mammalia), XV, a 369; porcupine (Echidna), VII, b 543-4; reproductive organs of (Mammalia), XV, b 370; scaly (Pangolin), XVIII, b 214
Ante-chapels (Architecture), II, a 403
Antechinomys, genus (Mammalia), XV, b 383
Antedon, genus (Echinodermata), VII, b 550, *a b* 551, *a* b 552, b 555
Antefixæ, ornament (Architecture), II, b 354, a 356, a 360, b 365, a 403
Antelami, Benedetto, sculptor (Sculpture) (Ill.), XXI, a 594
ANTELOPE (Plates I, II), II, b 89-91; (Chamois), V, b 333-4; (Eland), VII, a 690; (Gemsbok), X, b 126; (Gnu), a 629; (Hartebeest), XI, b 443-4; (India), XII, b 780; (Nylghau), XVII, a b 707; (Mammalia) (Ill.), XV, b 437; Prong-horn (Horn), XII, a 171
ANTEMNÆ, town, II, a 91
Antennæ (Ant), II., a *b* 85, a 86; (Bee), III, a 420, a 430; (Butterflies and Moths), IV, a 527; (Coleoptera), VI, b 114-5; (Crustacea), *b* 560, b 562, a 569, a b 570, *b* 571, a 573; (Hymenoptera), XII, b 606-7, *b* 610, *a* 611; (Insects), XIII, a 150; of Mysis (Ear), VII, a 513; olfactory (Smell), XXII, b 175
Antennaria, plants (Horticulture), XII, a 257
Antennarius, fish (Ichthyology), XII, b 698, a 699, b 702, *b* 720, a 721, b 728
Antennularia, group (Hydrozoa), XII, b 580, a 582
ANTENOR of Troy, hero, II, a 91; (Padua), XVIII, a 136
ANTENOR of Athens, sculptor, II, a 91; (Archæology), a 307
Antephora, genus (Grasses), XI, a b 50, a 52
ANTEQUERA, town, II, a 91
Antequeruela, town (Granada), XI, *a* 41
Antes, race (Slavs), XXII, a 155
Anthastra, genus (Sponges) (Ill.), XXII, a 435
Anthelmintics, medicine (Tapeworms), XXIII, b 58 note
ANTHEM, II, a b 91; (Purcell), XX, *a* 119. See also ANTIPHONY and Church Music.
Anthemius, emperor of the West (Leo I., Emperor), XIV, a 453; (Ricimer), XX, b 562
ANTHEMIUS of Tralles, architect, II, b 91; (Constantinople), VI, b 271
Anther (Botany) (Ill.), IV, b 76, a b 114, a 123-5; dehiscence (Botany) (Ill.), b 124-5, a 126
Antherea, genus (Butterflies), IV, *b* 530; (Silk) (Ill.), XXII, a b 66, b 70-1; paphia (India), XII, a 790
Anthericum, plants (Horticulture), XII, a 257
Antheridia, organs of reproduction (Algæ), I, b 448; (Botany) (Ill.), IV, b 126, a 127, a 128; (Ferns), IX, a 92; (Muscineæ) (Ill.), XVII, a b 72, *a* 75, b 76, *b* 78, a 80; (Reproduction), XX, b 437
Antherozoids, group (Botany), IV, a 143, a b 144; (Ferns), IX, a 89
Anthès, George Heckeren d', Baron (Poushkin), XIX, b 669
Anthesis, floral (Botany), IV, a 118
ANTHESTERIA, festival, II, b 91; (Dionysia), VII, b 215
Anthia and Abrocomas, Loves of (Romance), XX, a 651
Anthinæ (Birds), III, a b 673
Anthoceros, mosses (Liverworts), XIV, b 724, a *b* 725; (Vegetable Kingdom), XXIV, a b 140, b 141
Anthoceroteæ, family (Muscineæ) (Ill.), XVII, a 75, a b 76; (Vegetable Kingdom), XXIV, *b* 140
Anthocyan, coloring matter (Histology), XII, a 15, a 19
Anthodium, head (Botany), IV, a 111
Anthologia Græca (Brunck), IV, b 356; *Sanscritica* (Lassen), XIV, a 323
ANTHOLOGY, II, b 91-4
  Greek, b 91-3
    arrangement, b 92
    five collections, a 92
    history, b 91
    style and value, b 93
    translations and imitations, b 93
  Latin, b 93-4
——, Arabian (Hamasah), XI, b 359-60; Greek, XI, a 129, a 130, b 136; (Mohammedanism), XVI, b 617
Anthology, The Monthly (Tudor), XXIII, a 948
Anthomedusæ, order (Hydrozoa) (Ill.), XII, b 580, b 586, b 593, b 594-5, b 597, b 599
ANTHON, Charles, philologist, II, a 94
ANTHONY, Saint, II, a 94; (Abbey), I, a 17; (Monachism), XVI, b 725-6, a 728
—— of Castle St. Jean, monk (Franciscans), IX, b 615

- ANTHONY of Lisbon, St. (Portugal), XIX, a 571
- —— of Padua, XVIII, a 136
- Anthophila, insects (Hymenoptera) (Ill.), XII, a 606, *b* 611
- Anthophora, insect (Hymenoptera), XII, a 609
- Anthophyllite (Mineralogy), XVI, a 435
- Anthotaxis (Botany), IV, b 108
- Anthoxanthin, color (Physiology), XIX, b 59
- Anthoxanthum, genus (Grasses) (Ill.), XI, a 49, b 50, *b* 52
- Anthozoa, group (Hydrozoa), XII, *b* 581, b 585, b 588 note, a 598, b 599; (Reproduction), XX, b 420
- Anthracæmia. See WOOL SORTER'S DISEASE
- Anthracene (Alizarin), I a 509; (Chemistry), V, *b* 487, a 497; (Coal Tar Colors), XVIII, a 900, a b 905; (Paraffin), a 242; (Tar), XXIII, *b* 63, b 64; oil (Tar), b 64
- ANTHRACITE, fuel, II, a b 94; (China), V, *b* 551; (Coal), VI, *b* 43, *a b* 44, *b* 45, a 48, b 72; (Coke), VI, a 109; (Gas and Gas-lighting), X, a 80; (Ireland), XIII, *a* 223; (Iron), b 298–9; (Mexico), XVI, a 909; (Mineralogy), b 387, a 448; (Mining), a 492; (Pembroke), XVIII, b 492; (Pennsylvania), XVIII, a 511–12; (Smoke Abatement), XXII, b 191–2; (Tipperary), XXIII, b 432
- —— Alpine (Coal), VI, b 53, b 54; furnaces (Iron), XIII, b 325; heat, development of (Iron), b 320, b 321, a 322; mines, gas in (Coal), VI, b 67; production (United States), XXIII, *a b* 864, a 865; waste in mining (Pennsylvania), XVIII, a 512
- Anthracite diamond (Mineralogy), XVI, a 397
- Anthracnose, disease (Vine), XXIV, a b 658
- Anthraconite (Mineralogy), XVI, b 413
- Anthraquinone (Coal Tar Colors), XVIII, a b 905; (Tar), XXIII, b 64
- Anthrax, disease (Murrain), XVII, a 64–5; (Natal), b 247; (Pathology), XVIII, b 417; (Schizomycetes), XXI, a 417, *a* 421, a b 424; (Wool Sorter's Disease), XXIV, a b 698
- Anthrenus museorum, beetle (Coleoptera), VI, b 118
- Anthriscus, plant (Hemlock), XI, b 577
- Anthrophysa, genus (Protozoa) (Ill.), XIX, a 881, a 882
- Anthropological Mythology, XVII, *b* 144; researches (Quetelet), XX, b 184; societies, XXII, b 237–8; (Ethnography), VIII, b 550
- ANTHROPOLOGY, II, b 94–109
  - antiquity, historical, b 103–4; prehistorical, a 102–3
- ANTHROPOLOGY, *continued*
  - definitions, b 94–5
  - DEVELOPMENT OF CIVILIZATION, b 106–9
    - general lines of, b 108
    - historical, b 107–8
    - prehistoric, a 108
    - stages of, b 106–7
    - theory of, a b 107
  - LANGUAGE, a 104–6
    - culture, b 106
    - faculty and variety of, a b 104
    - families, a b 105
    - race, relations of, b 105
    - structural differences, b 104–5
  - MAN'S PLACE in nature, a 95–7
    - lower animals, a 95–6
    - psychological place, b 96–7
    - theories, a b 97
    - zoological place, a 96
  - origin of man, b 97–8
  - RACES OF MANKIND, b 98–101
    - classifications, b 99–100
    - Huxley's classification, a b 100
    - hybrids, b 100
    - origin of types, a b 101
    - permanent distinctions, b 98–9
- —— (Evolution), VIII, b 670–3; (Hegel), XI, b 553; (Herder), a 652; (Heresy), a 656, a 659; (Iamblichus), XII, a 638; (Madagascar), XV, b 171–2, b 176; (Pelagius), XVIII, b 483; (Philo), b 775–6; (Philology), b 779; (Prichard), XIX, b 742
- —— Christian (Augustine), III, a 68; defined (Ethnography), VIII, *b* 539
- Anthropomorphic polytheism (Religions), XX, *b* 379, a b 380, a 382
- ANTHROPOMORPHISM, II, a b 109; (Apologetics), II, b 166; (Mechanics), XV, b 683
- Anthropopathy (Anthropomorphism), II, a 109
- Anthropotomy (Anatomy), I, a 701
- Anthus, bird (Pipit), XIX, a b 121
- Anthusa, mother of Chrysostom, V, b 660
- —— of Seleucia, St. (Pelagia), XVIII, b 481
- Antiaris or anchor tree (Upas), XXIII, a 916
- ANTIBES, town, II, b 109
- Anti-brachium, forearm (Mammalia), XV, b 361
- Antiburgers, sect (M'Crie), XV, b 133; (United Presbyterian Church), XXIII, a b 776; Synod (Gib), X, a 512
- Antichinomys, marsupial (South Australia), XXII, a 299
- ANTICHRIST, II, b 109–12; (Huss), XII, a 420, a 422; (Milicz), XVI, *b* 307; (Revelation), XX, b 513–4; (Thessalonians), XXIII, *a* 319; legend of (Jew, Wandering), XIII, a 685
- *Antichrist* or *Enndchrist*, block-book (Typography), XXIII, b 726, b 729
- Antichthones, people (Mela), XV, b 841
- Anticlides, lexicographer (Dictionary), VII, a 158
- ANTICLIMAX, II, a 112
- Anticlinal folds (Geology), (Ill.), X, a b 266, b 269–70, b 280
- Anti-Corn-Law League (Bastiat), III, *b* 370; (Cobden), VI, a b 79
- ANTICOSTI, island, II, a 112; (Quebec), XX, a 172
- Anticyclones (Climate), VI, *a* 8; (Meteorology), XVI, b 136, a 142, b 159–60; area of (Atmosphere) (Ill.), III, a b 31
- ANTICYRA, II, a 112
  - in Locris, a 112
  - in Thessaly, a 112
  - in Phocis, a 112
- Antidicomarianitæ, sect (Mary), XV, a 597
- *Antidosis* (Isocrates), XIII, b 400, b 401–2, a 403
- *Antidotarium Florentinum* (Pharmacopœia), XVIII, a 744
- Antidotes (Poisons), XIX, a b 288, *a b* 289, *a b* 290, *a b* 291; (Snakes), XXII, a b 202
- ANTIETAM, Maryland, II, a b 112
- —— battle, 1862 (Hooker), XII, b 153; (Jackson, T. J.), XIII, a 545; (Sanitary Commission), XXI, b 901; (United States), XXIII, *a* 826, a 837
- Antifer, cape (Seine Inférieure), XXI, a 657
- Antigone, island (Princes Islands), XIX, a b 761
- ANTIGONE of Phthia, heroine, II, b 112
- ANTIGONE of Thebes, heroine, II, b 112; (Creon), VI, b 502
- *Antigone*, play (Sophocles) XXII, *b* 284, a 285, a *b* 286, *a* b 287
- Antigonia, city (Antioch), II, b 115
- ANTIGONUS I., Cyclops, king, II, b 112–3; (Lysimachus), XV, a 121; (Macedonian Empire), a 143; (Persia), XVIII, b 596, a b 597
- ANTIGONUS II., Gonatas, king, II, a 113; (Lysimachus), XV, a 121; (Macedonian Empire), a 143; (Numismatics), XVII, b 657
- —— III. Doson, king (Cleanthes), V, b 715; (Cleomenes), a 721; (Greece), XI, b 96
- —— of Judea, king (Israel), XII, I, *a* 435
- Antigorite (Mineralogy), XVI, b 432
- ANTIGUA, island, II, a b 113; (Slavery), XXII, a 150; city (Guatemala), XI, b 214
- *Anti-Jacobin*, journal (Canning), IV, b 714
- ANTILEGOMENA, books, II, b 713; (Bible), III, b 557
- Antilia (Brazil Island), IV, a 216
- Antilibanus, mountain chain (Lebanon), XIV, b 392, a b 394
- ANTILLES, islands, II, b 113; (America), I, a 627; (Atlantic Ocean), III, b 17; (West Indies), XXIV, b 537, *b* 538; (Yaws), b 769; birds of the (Birds), III, a 649–50, a 651; (Tody), XXIII, a b 460; extinct forms in the (Birds), III, b 635–6; fauna (Distribution), VII, a 234, a 237, a b 238
- Antilogarithmic tables, XIV, b 783, a 784, b 786; (Tables), XXIII, a 17
- Antilogarithms, hyperbolic (Tables), XXIII, b 18
- ANTIMACHUS of Colophon, poet, II, b 113; (Homer), XII, *a* 118
- Antimilo, island (Melos), XV, b 850
- Antimonic acid (Mineralogy), XVI, a 421
- Antimonite (Mineralogy), XVI, a 385
- ANTIMONY, metal, II, b 113–4; (Borneo), IV, a 51; (Chemistry), V, a 467–9; (France), IX, b 461; (India), XII, b 804; (Iron), XIII, b 290; (Medicine), XV, b 818; (Metallurgy), XVI, b 66; (Mineralogy), a 395, a 396, b 404, a 407, b 408, a 409, b 410, a b 411, a–b 412; (Mining), b 491, a 494; (Sarawak), XXI, b 321
- —— alloys (Lead), XIV, a b 378; tersulphide of (Kerns), XIV, a 52; vermilion (Pigments), XIX, b 96
- ANTINOMIANS and Antinomianism, heresy, II, b 114; (Agricola), I, a 259; (Carpocrates), V, a 117; (Christianity), b 609; (Davidists), VI, b 742; (Heresy), XI, b 656, a 659; (Lutherans), XV, a 86; (Mysticism), XVII, b 139; answer to (Paul), XVIII, b 436–437
- *Antinomies* (Kant), XIII, b 863; (Metaphysic), XVI, b 92
- ANTINOMY, contradiction, II, b 114–5
- Antinoöpolis, Roman town (Egypt), VII, a 672
- ANTINOUS, page, II, a 115
- ANTIOCH, city, plan, II, a 115–7; (Aqueduct) (Plate III), a 193; (Nestorius), XVII, b 364, a 365; (Numismatics), b 666–7; (Paul), XVIII, b 426, b 427, a 428, a 429; (Persia), a 598, b 623; (Peter), b 708; (Syria), XXII, b 860, b 861, *a* 862
- ——, Era of, Actian (Chronology), V, b 621; Cæsarian, (Chronology), a b 621; Mundane (Chronology), b 620
- ——, patriarchate of (Greek Church), XI, a b 138, a 139
- —— school of Hermeneutics, b 667, b 669; (Lucian), XV, b 47; (Theodore), XXIII, a b 274; (Theodoret), a b 275

ANTIOCH, siege of, 1098 (Crusade), VI, *b* 552-3; synods of (Paul of Samosata), XVIII, a 440
ANTIOCH in Pisidia, II, a 117; (Pisidia), XIX, a b 139
Antioch, Chansons of (Provençal Literature), XIX, a 901
Antiocha Margiana, town (Merv), XVI, b 47, b 48
ANTIOCHUS I. Soter, King of Syria, II, a 117; (Persia), XVIII, a 598
ANTIOCHUS II. Theos, II, a 117; (Persia), XVIII, b 598
ANTIOCHUS III., the Great, II, a 117; (Egypt), VII, *b* 646; (Hannibal), XI, b 397; (Israel), XIII, b 430; (Numismatics), XVII, a 666; (Persia), XVIII, b 599 600; (Philopœmen), b 804; (Rome), XX, *b* 770, a b 771
ANTIOCHUS IV. Epiphanes, II, a b 117; (Antichrist), a 110; (Daniel), VI, *b* 709, a b 710; (Egypt), VII, b 646, a 647; (Israel), XIII, b 430-31; (Persia), XVIII, b 600-1; (Numismatics), XVII, b 666
—— V., Eupator (Persia), XVIII, a 601; (Rome), XX, a 773
—— VI. (Numismatics), XVII, b 666
—— VII., Sidetes (Hyrcanus), XII, *a* 634; (Israel), XIII, a 433; (Persia), XVIII, a b 605
ANTIOCHUS VIII., II, b 117
ANTIOCHUS of Ascalon, philosopher, II, b 117; (Peripatetic), XVIII, b 557; (Stoics), XXII, b 600; (Varro), XXIV, a 100
ANTIOPE, Amazon, II, b 117
ANTIOPE, daughter of Asopus, II, b 117; (Dirce), VII, a 224
Antioquia, state (Colombia), VI, b 138, *a* b 140, a 141
ANTIPAROS, island, II, a 118
Antipater, Herod's son, XI, a 675; (Israel), XIII, *a* 436
——, Idumæan king (Herod), XI, a 674; (Israel), XIII, a b 434-5
ANTIPATER, regent of Macedonia, II, a 118; (Demosthenes), VII, *a* b 63; (Persia), XVIII, a b 596; (Phocion), a b 813
—— of Tarsus, philosopher (Stoics), XXII, b 598, *a* 599
Antipathidæ, genus (Actinozoa), I, *a* 121; (Corals), VI, a 327, a *b* 329
Antipaxo, island (Paxo), XVIII, b 450
Antiphiates, fabulous king (Læstrygones), XIV, b 201
ANTIPHILUS, painter, II, a 118; (Archæology), b 318
ANTIPHON, orator, II, a b 118; (Greece), XI, b 126, a 127; (Isæus), XIII, b 386, b 387; (Isocrates), *a* 402; (Rhetoric), XX, b 523, b 526; (Thucydides), XXIII, b 344
——, philosopher, II, b 118
——, tragic poet, II, b 118
Antiphonary (Liturgy), XIV, b 715; Gregorian (Missal), XVI, a 532, a 533
ANTIPHONY, church singing II, b 118; (Hymns), XII, b 613; (Missal), XVI, a 533, a 534 note; (Music), XVII, b 86-7
ANTIPODES, position, II, b 118
Antipolis. See ANTIBES
Antipositi, officials (Rome), XX, *b* 819, a 820
Anti-priming pipe, Lancashire (Steam-Engine) (Ill.), XXII, b 518, a 519
Antiquarian explorations (Russia), XXI, a 118; relics (Treasure Trove), XXIII, b 563; Societies, II, a b 119; (Copenhagen), VI, a 306; (Libraries), XIV, a 517, a 545; (Societies), XXII, b 239-40; Worcester, Mass. (Thomas), XXIII, b 939
Antiquaries, Society of, London (Agarde), I, b 245; (Libraries), XIV, a 517, a 545
ANTIQUE, in art, II, b 118; (Cameo), IV, b 653-4; (Mantegna), XV, a *b* 503
ANTIQUITIES, II, b 118-9; (Aberdeenshire), I, a 47; (Ægina), b 163; (Afghânistân), a 216, a 218, a 219; (Amasia), b 574; (Antioch), II, a 117; (Antrim), a 126; (Arabia), b 229; (Aran Islands), b 270; (Argyllshire), b 440; (Armagh), b 473; (Autun), III, a 124; (Avila), b 136; (Ayrshire), b 142
—— (Banffshire), III, a 270; (Berwickshire), b 529; (Bashan), b 354; (Berkshire), III, a 512; (Brecon), IV, b 218; (Brescia), a 231; (Bushire), b 512; (Bute), a 517
—— (Caerleon), IV, b 561; (Cahors), a 570; (Caithness), a 575; (Cajazzo), b 575; (Cambay), b 639; (Cambodia), a 642; (Cambridge), a 643, a 644; (Canterbury), V, a 28; (Cardegan), b 84; (Carnac), a b 104; (Casas Grandes), a 150; (Cashel), a b 153; (Cephalonia), a b 299; (Chieti), b 534; (Cividale), a 696; (Civita Castellana), b 696; (Civita di Penne), b 696; (Clackmannan), a b 697; (Clare), b 702; (Colchester), VI, a 113; (Constantinople), b 274; (Coorg), a 303; (Copan), b 304; (Cora), b 326; (Cornwall), b 378; (Cortona), a 392; (Cumberland), a 618; (Cyrene), b 662-3; (Coire), a 107; (Cnidus), a 43
—— (Delos), VII, b 46; (Denbigh), a b 68; (Derby), b 94; (Devonshire), b 122; (Donegal), b 314; (Dorset), a b 322; (Dover), a b 329; (Down), a 332; (Dublin), a b 428; (Dumbarton, county), a 453; (Dumfries, county), a 455; (Dundee), a b 462; (Durham, county), a b 484
—— (Ecuador), VII, b 562; (Edinburgh, county), b 571; (Egypt), b 666-80; (Elgin), VIII, b 122; (Erbach), b 459
—— (Fellows), IX, a 60; (Fermanagh), a 80; (Filigree), a 143, b 144; (Fillan, St.), b 144; (Flint), a 287; (Flour), b 300-1; (Forfar), a 363; (Formia), a 366; (Fosbroke), a b 415; (Friendly Islands), a 685
—— (Galilee), X, b 26-7; (Galway), a 52; (Glamorgan), a 565; (Gloucester), b 615; (Guatemala), XI, a 214; (Guernsey), a 220
—— (Hainburg), XI, a b 336; (Hamilton, Scotland), a 367; (Hampshire), b 385-6; (Herat), a b 638; (Herculaneum), 647-9; (Hereford), b 653; (Hertford), b 689, a 690 (Hexham), a 700; (Hildersheim), b 729; (Holyhead), XII, a b 108; (Homer), b 125; (Honduras), a 135, note; (Honduras, British), b 136; (Huaraz), b 341; (Huntingdon), a 414; (Hythe), a b 636
—— (Iconium), XII, a 735; (Indians), a 874; (Inverness), XIII, b 206; (Iona), b 209; (Ireland), b 223, a 248
—— (Java) (Ill.), XIII, b 619-20; (Jersey) a 646; (Jerusalem), a 647-9
—— (Kashmír), XIV, a b 13; (Káthiáwár), a 17; (Kells), b 31; (Kenilworth), b 36; (Kent), a b 41, a 42; (Kerry), a b 54; (Kertch), a 55; (Kildare), a 75; (Kilkenny), a 77; (Kincardine), a b 81; (Kings County), b 89; (Kinross), a b 94; (Kirkcudbright), a 100-1; (Kúrdistán), b 159-60
—— (Lahore), XIV, a 214-6; (Lake Dwellings), b 224-5; (Lanark), b 252; (Lancashire), b 254-5; (Laon), a 294; (Leicester), a 425; (Limerick), a 656; (Lincoln), b 662, a b 664; (Linlithgow), a 677; (London), b 850, *a b* 851, note, a *b* 852, a *b* 862; (Loudun), XV, a 17; (Louth), b 27; (Lucerne), b 42; (Lugo), b 62; (Lycia), b 95; (Lydia), b 101, a 102; (Lyons), a b 113
—— (Mainz), XV, b 308, a 309; (Maldon), b 334; (Malta), a b 344, a 346; (Man, Isle of), b 460, a 461, a 462; (Manchester), a 471; (Manduria), a 485; (Mariette), b 549-50; (Marseilles), b 579; (Mayo), b 657; (Meath), b 675-6; (Melos), b 850; (Monaghan), XVI, a 745; (Monmouth), a 781; (Mont-Dore-Les-Bains), b 804; (Monte San Giuliano), a 808; (Montgomery), b 815; (Morbehan), b 839; (Morocco), b 860, a 861
—— (Narbonne), XVII, a 236; (Nicaragua), a b 492; (Northumberland), b 581-2
—— (Olympia), XVII, b 788-92; (Orkney and Shetland), b 872, b 873; (Oxford), XVIII, b 97-8
—— (Pæstum), XVIII, b 137; (Palazzolo), b 171; (Palermo), b 173; (Parenzo), b 277; (Paros), a 325; (Peebles), a 463; (Perth), a 680, a b 681; (Peru), a b 690, a 693; (Peruzzi), b 696-7; (Petra), a b 719; (Phigalia), b 748-50; (Philippine Islands), b 765 note; (Pipe) (Ill.), XIX, b 119-20; (Polynesia), a b 442; (Pompeii), a 460-4, a b 465; (Pontefract), b 469; (Porto Rico), b 547
—— (Radnor), XX, b 224; (Reval), a 510; (Rome) (Plates VI, VII) (Ill.), a 824-59; (Roscommon, county), a 873; (Ross), b 877-8; (Roxburgh), XXI, a 40; (Rude Stone Monuments), b 56-9
—— (Sardinia), XXI, b 324; (Scotland), a b 493, b 494, a 495; (Selkirk), b 670; (Shropshire), XXI, b 887; (Siam), a 893; (Sligo), XXII, *b* 169; (Somerset), a b 272-3; (Stafford), a b 460; (Suffolk), a 655; (Surrey), b 730
—— (Verona), XXIV, a 186, a 187; (Vienne), b 240
—— (Westmoreland), XXIV, b 544; (Wight), b 593; (Wigtown), *a* b 595; (Wilts), a b 626; (Warminster), b 391; (Warwick), b 400; (York), a b 786
——, British (Gough, R.), XI, b 4; (Grose), a 186, *a* 187; British architectural, treatise on (Britton), IV, b 321; Celtic (Merioneth), XVI, a 44; Central American, I, b 608, a 618; (Mexico), XVI, a 222; classical, treatises on (Gall), X, b 120; collections of (Paris), XVIII, a b 287, a 293; English (Howitt), XII, *a* 339; Etruscan (Cortona), VI, a 392
——, Greek (Metapontum), XVI, b 108; treatises on (Chandler), V, b 339
——, Hindū (Brambánan), IV, a b 193; (Gaur), X, b 102-4; (Gwalior), XI, a 309
—— Indian (Casas Grandes), V, a b 150; (Chincha Islands), a b 584; (America), I, b 607, a 608; *of Ionia* (Laodicea), XIV, a 294; Irish (Round Towers), XXI, b 27-8
——, Italian (Eugubine Tables), VIII, b 582-3; Lago d'Averno, III, b 129
Antiquities of Mexico, Kingsborough's (Mexico), XVI, b 214, a 216, a 221, a b 222
Antiquities, National Museum of (Edinburgh), VII, b 575-6; Oriental (Euyuk), VIII, b 635
——, Roman (Ardoch), II, b 423; (Arles), II, b 476; (Autun), III, a 124; (Capri), V, b 69-70; (Chester), a 526; (Cirencester), b 692; (Essex), VIII, a b 489; (Fabretti, R.), b 735-6; (Fabricius), b 736; (Gabii), X, a 4; (Gerasa), a 397; (Grævius), XI, a 29; (Holland), XII, b 62; (Horncastle), a b 174; (Isernia), XIII, a *b* 396; (Lillebonne), XIV,

Antiquities, *continued* a 649; (Mérida), XVI, a 41; (Newcastle), XVII, b 388; (Nîmes), b 523; (Noirmoutier), b 545; (Nola), b 545; (Northampton), a 570; (Northumberland), b 581; (Nottingham), b 613-14; (Orange), a 836; (Palestine), XVIII, b 177, a 178, b 182; (Pozzuoli), XIX, b 671; (Præneste), a 675; (Rome), XX, a 824-60; (Saintes), XXI, b 175; treatises on (Varro), XXIV, b 101
—— Polish, treatises on (Poland), XIX, b 317; Saracenic (Carmona), V, a 104; *Saxon* (Warwick), XXIV, b 400; Zealand (Middleburg), XVI, a-b 290
Antiquity of Man (Anthropology), II, *b* 101-4; treatise on (Lyell), XV, b 102, b 103-4
Anti-rent agitations in New York (Van Rensselaer), XXIV, a 876; Wright, b 727
Antirobido, island (Princes Islands), XIX, a *b* 761
Antirrhinum, plant (Botany), IV, a 118, a 120, b 138; (Horticulture), XII, b 255, b 260-1
Antis or Campas, tribe (Peru), XVIII, a 690
Artisana, mountain (Ecuador), VII, *a* 559
ANTISEPTICS, II, b 119-20; (Alcohol), I, b 415; (Carbolic Acid), V, b 76; (Chemistry), b 435; (Chloral), V, a 588; (Creasote), VI, *a* 493; (Disinfectants), VII, b 224; (Fermentation), IX, b 82, b 83; (Gelatin), X, b 117; (Glycerin), X, b 622, b 623; (Preserved Food), XIX, a b 727; (Salicylic Acid), XXI, b 227, *a* 228; (Surgery), XXII, a *b* 713, *a* b 714, a 718, b 723, b 725; in ovariotomy (Surgery), b 726
Anti-slavery agitation (Macauley), XV, a 128; (Parker), XVIII, a 307; (Slavery), XXII, b 149-51, b 908, a b 909; (Women in the U. S.), XXIV, b 911, a 913. See Abolition of Slavery
—— Societies (Garrison), X, *a b* 78; (Tappan), XXIII, b 922; first American (Rush), XXI, b 68
Antisozzo (Alsop), I, a 561
Antissa, city (Lesbos), XIV, b 474
ANTISTHENES, Cynic philosopher, II, b 120-1; (Cynics), VI, b 657; (Ethics), VIII, a 510; (Logic), XIV, *b* 791, a 792, a 799, a 802, b 804 note, *a* 809, b 810; (Socrates), XXII, a 245, *a* b 250
Antisuyo, races (Indians), XII, a 869
Anti-Taurus, mountains (Asia-Minor), II, b 616
Antitheism (Theism), XXIII, b 253
Antitheric substance (Surgery), XXII, b 714
ANTITHESIS, rhetorical term, II, b 121; (Hegel), XI, a b 552; (Isæus), XIII, a 387
Antitheta, Bacon's (Rhetoric), XX, a 530
ANTITYPE, II, b 121
ANTIUM, city, II, b 121; (Latium), XIV, *b* 344; (Rome), XX, a 756, a 759, a b 760; promontory (Latium), XIV, a 344
ANTIVARI, town, II, a 122
Antlers (Deer), VII, a *b* 22; (Mammalia), XV, a 351, a b 437; (Skeleton), XXII, a 117
Ant-lion, insect (Ill.), II, a 88; (Ceylon), V, a 316; (Insects), XIII, b 158; (Physiologus), XIX, a b 10
Antoine de Bourbon of Navarre. See Antony
Antologia (Periodicals), XVIII, a 553
Antonelli, Alessandro, architect (Turin), XXIII, a 671
——, Giacomo, cardinal (Pius IX.), XIX, a b 167, b 168
ANTONELLO da Messina, painter, II, a 122; (Messina), XVI, b 62; (Schools of Painting), XXI, b 454, note, b 462
Antongil Bay (Madagascar), XV, a b 169
Antonia, citadel (Israel), XIII, b 436, a b 437; (Jerusalem), a 649, b 651, a b 652; (Temple), XXIII, a b 184
ANTONIDES, Hans or Jan Van der Goes, painter, II, a 122
Antonina, wife of Belisarius, III, *b* 462
Antonine Itinerary (Caledonia), IV, a 588
ANTONINI ITINERARIUM, II, a 122; (Caledonia), IV, a 588; XIII, b 527
Antoninopolis, town (Mesopotamia), XVI, a 53
ANTONINUS LIBERALIS, grammarian, II, a 122
——, Marcus Aurelius. See AURELIUS
——, Musa, physician (Hydropathy), XII, b 575
ANTONINUS PIUS, Titus Aurelius, emperor (Ill.), II, a b 122; (Aurelius Antoninus), III, *b* 75, a 76; (Hadrian), XI, b 325; (Pausanias), XVIII, a 448, note; (Slavery), XXII, *b* 142
—— of Florence, Saint, bishop (Church History), V, *b* 668
ANTONINUS, WALL OF, II, b 122-3; (Britannia), IV, a 319; (Caledonia), b 588, a 589; (Linlithgow), XIV, a 677; (Scotland), XXI, b 493, b 494
Antonio, Dom, prior of Crato, pretender (Alva), I, a b 570; (Cervantes), V, a 305; (Portugal), XIX, a b 562
ANTONIO, Nicolao, bibliographer, II, b 123
——, slave (Camoens), IV, a 661, *a* 662
Antonio, Pico de, mountain (Cape Verd Islands), IV, b 47
ANTONIUS, the Rhetorician (Syriac Literature), XXII, b 889
——, Caius, consul (Catalina), V, b 207, *a* 208; (Rome), XX, a 783
——, Iulus (Ovid), XVIII, a 83
ANTONIUS, Marcus, orator, II, b 123
ANTONIUS, Marcus, or Mark Antony, triumvir, II, b 123-4; (Augustus), III, b 69-70; (Cicero), V, a b 674; (Cleopatra), b 721-2; (Dollabella), VII, b 297-8; (Egypt), b 647-8; (Herod), XI, *b* 674; (Israel), XIII, a b 435; (Palmyra), XVIII, a 203; (Persia), a 609; (Rome), XX, b 785 note, b 786, *a* 787, b 792; (Varro), XXIV, *b* 100
Antony and Cleopatra, play (Dryden), VII, a b 424; (Shakespeare), XXI, b 800, a 805
ANTONOMASIA, rhetorical term, II, b 124
Antonstadt, town (Dresden), VII, a 404, b 405
Antony (Dumas), VII, b 450
Antony of Bourbon, king of Navarre (France), IX, b 493, *a* b 494
——, Clement, king of Saxony, XXI, a b 371
——, Saint. See ANTHONY.
——, Ulrich, duke (Saxe-Meiningen), XXI, *a* 364
Antoricà, castle (Temple), XXIII, *a* b 184, a 186
Antozone (Ozone), XVIII, b 117
ANTRIM, county, II, b 124-6; city, II, a *b* 126
Antrostmus, bird (Goatsucker), X, a b 634
Antsihànaka, valley (Madagascar), XV, b 169
Ant-spider (Arachnida), II, b 262
Ant-thrush, formicariidæ (Birds), III, a 645, b 646, a 647, b 648, a 649
Antuco, mountain (Chili), V, b 535; (Geology), X, a 219
ANTWERP, province, II, b 126
—— city, (Plan), II, a 127-8; (Bell), III, *a* 464; (Farnese, A.), IX, b 34; (Fortifications) (Plates V, VI, XI), b 389, b 396-7, a 404-6; (Havre), XI, a 471; (Holland), XII, b 79, b 82, *b* 85, b 94, *a* 95; (Libraries), XIV, a 551; (London), *a* 839; (Massys), XV, b 626; (Newspapers), XVII, a 441; *Nieuwe Tijdinghen* (Newspapers), a 422, a 423
Antwerp Polyglott, XIX, a 431
——, siege of, 1832 (Belgium), III, a 457; siege of, 1584 (Giambelli), X, a 510
Antyllus, physician (Surgery), XXII, a *b* 709
ANUBIS or Anup, god, II, b 128-9; (Dog), VII, a 282; (Egypt), b 622
Anund, II., king (Sweden), XXII, b 783
Anupada (Sanskrit), XXI, a 291
Anúpshahr, town (Bulandshahr), IV, b 461
Anúr Khán, soldier (India), XII, *b* 844
Anura, order (Amphibia), I, a b 658, *a* b 659, *a* b 660, b 668, a b 668*, *a* 669, *a b* 672, *a b* 673, *a b* 674, a *b* 675, a b 676; (Toad), XXIII, a 450
Anuradhapura, city (Ceylon), V, a 312, b 313, a 314, b 318
Anus (Anatomy), I, b 763; (Digestive Organs), VII, b 198; (Nutrition), XVII, b 687, a 690; (Polyzoa), XIX, a 446, b 448, a 451
Anvers, town. See ANTWERP
Anúsh, æon (Mandæan), XV, *a* 477
ANVIL, II, a 129; (Hammer), XI, b 380
Anville, Jean Baptiste Bourguinon d', geographer (Geography), X, a 168, b 170
ANWARI, Auhad-uddín, poet, II, a 129; (Persia), XVIII, b 670
ANWEILER or Annweiler, town, II, a 129
Anwlah, town (Barelí), III, b 321
ANXENOR, sculptor, II, a 129; (Archæology), a 308
Anxia. See LANCIANO
Anxietas tibiarum, unrest (Touch), XXIII, b 513
Anxiety (Insanity), XIII, a b 106, a 109
Anxur, town. See TERRACINA
Anyer, town (Java), XIII, b 616
Anytus of Athens, tanner (Socrates), XXII, b 244, a 248
Anzan, tribe (Elam), VII, a 689
ANZIN, town, II, a 129; (Nord), XVII, *b* 548; basin (Coal), VI, a 53
Aoidoi, singers (Orpheus), XVIII, b 54
—— Aonyx, genus (Mammalia), XV, a 446
Aorist tense (Grammar), XI, b 37-8; (Hindūstānī), b 752; (Homer), XII, a 117; (Sanskrit), XXI, b 284
Aorses, Aorsi, Aorzes or Erzya, tribes (Mordvinians), XVI, b 839; (Persia), XVIII, a 610 note; (Russia), XXI, a 86
Aorta, artery (Anatomy) (Plate XX), I, *b* 702, *b* 791, a b 792, a 793; (Crustacea), VI, b 562; (Mammalia), XV, a 367; development of (Anatomy), I, *b* 797-8
AOSTA, town, II, b 129; dialect (Italy), XIII, a 502; valley (Italy), a 445
Aoudad, aberrant sheep, XXI, b 821
Aoulias, people (Nepal), XVII, *a* 350
Aoza, colony (Phœnicia), XVIII, b 819, a b 820
Apa, river (Brazil), IV, a 200
Apabhransa dialect (Hindūstānī), XI, b 750
Apache Indians, XII, *a* b 865, b 867, note, a 873; (Mexico), XVI, a 898
APAMEA, five Asiatic cities, II, b 129
—— of Mesopotamia, XVI, b 52, b 53
——, city of Syria, II, b 129; (Syria), XXII, b 861, a 862; (Numismatics), XVII, a 667
APANAGE, II, b 129

Apanages, period of (Russia), XXI, a b 97–8, a 100
Apance, river (Marne Haute), XV, a 569
Apanomeria, town (Thera), XXIII, a 300
Apanteles, insects (Ichneumon-fly), XII, b 666
Apap, the Great Serpent (Egypt), VII, b 620
Apar, armadillo(Mammalia), XV, b 390
Apastamba, scholar (Sanskrit), XXI, b 292
Apatelite(Mineralogy),XVI, b 418
APATIN, town, II, b 129
Apatite, mineral (Geology), X, a 204; (Mineralogy) (Ill.), XVI, b 358, a 367, b 371, a 372, a 379, b 384, b 387, a 390, a 393, b 420, b 424; (Mining), a b 451; (Phosphorus), XVIII, a 831; (Polarity) (Ill.), XIX, a 325
Apatornis, fossil (Ornithology), XVIII, b 40
Apatura iris, species (Butterflies), IV, a 529, a 530
APATURIA, festival, II, b 129–30
APE (Ill.), II, a 130–48

- arm, anatomy of, a 141–2
- bibliography, b 147–8
- brain, a b 144
- cebidæ or American, a 134–6
- classification, b 130
- cynopithecinæ, a b 133
- digestive organs, a b 145
- distribution, geographical, a b 146; temporal, a 145–6
- external form and clothing, a 137–8
- foot, a b 143
- generative organs, b 145
- hand, b 141–2
- hylobates, a b 132
- leg, anatomy of, a 142–3
- muscles, b 143
- semnopithecinæ, b 132–3
- simia or orang, b 130–1
- skull (Ill.), a 138–9
- synopsis of characteristics, b 136–7
- teeth, b 144–5
- troglodytes, a 131–2
- vertebral column (Ill.), b 139–41
- zoological position of, a 130, a b 147

—— (Anthropology), II, b 95–6; (Mammalia), XV, b 368–9, a b 451, note; (Java), XIII, b 613; (Sumatra), XXII, b 673; (Spain), XXII, b 311; ancestral (Tibet), XXIII, a 365; Barbary (Gibraltar), X, b 501; legend of a paladin (Romance), XX, b 668. See Monkey
Apelava, district (Palwál), XVIII, b 297
APELDOORN, town, II, b 148
APELLAS, sculptor, II, b 148
APELLES, painter, II, a 149; (Anadyomene), I, a 692; (Antiphilus), II, a 118; (Archæology), a b 319; (Mural Decoration), XVII, a b 47; (Phryne), XVIII, a 868; (Protogenes), XIX, b 849, *a* 850
Apellon. See APOLLO
APENNINES, mountains, II, a 149–50; (Europe), VIII, b 600; (Italy), XIII, a *b* 444, a b 446–7, a b 448–9, b 450, a 452; (Latium), XIV, a b 344, b 346; (Lucania), XV, *a* b 39
APENRADE, town, II, a 150
Apepee, king (Egypt), VII, a 637 note, a 638
Ape's hill (Morocco), XVI, a 857
Apet or besha (Weights and Measures), XXIV, a *b* 512
Apetalous, flower (Botany) (Ill), IV, a 114
Apeum, temple (Apis), II, b 152
Apex of Solar Way (Astronomy) (Ill), II, b 717
Aphanapteryx (Birds) (Ill.), III, *b* 635, 636; (Mauritius), XV, b 647
Aphaniptera, insects (Diptera), VII, b 222, a 223; (Insects), XIII, a 157
Aphareus, poet (Isocrates), XIII, a 399, b 400
APHASIA, disease, II, a 150–1; (Anthropology), b 96
Aphek, town (Pilgrimage), XIX, a 100; battle of (Israel), XIII, b 412
Aphides, insects (Ant), II, a b 86; (Biology), III, *a* 595; (Coleoptera), VI, b 121; (Galls), X, b 41–2; (Hibernation), XI, a 705; (Insects), XIII, b 152, *a* 153, a 160; (Leeuwenhoek), XIV, a 412; (Wheat) (Ill.), XXIV, a 565
Aphididæ, insects (Hemiptera), XI, b 576, a 577
Aphidiphaga, group (Insects), XIII, b 156
Aphilothrix, insect (Galls), X, *a* 40
Aphodal rhagon, type (Sponges), XXII, a 430, b 442
Aphodus or abitus, canal (Sponges), XXII, b 429
Aphonia, disease (Throat Disease), XXIII, b 341
APHORISM, II, a 151; (Chamfort), V, b 332; (Helps), XI, b 570
Aphraates, bishop (Persia), XVIII, a 620; (Syriac Literature), XXII, b 863, *b* 864, b 867
Aphract trireme (Ship), XXI, a 843
Aphrite (Mineralogy), XVI, b 413
Aphrodisium, town (Bone), IV, a 29
Aphrodita, genus (Annelida), II, *a* b 59, a 61
APHRODITE, goddess (Ill.), II, a 151–2; (Ares), b 427; (Graces), XI, a b 24; (Hebe), *a* 530; (Helena), *a* 562; (Homer), XII, b 112, b 113, a 123; (Mineralogy), XVI, a 432; (Mythology), XVII, a 161; (Paphos), XVIII, a 232; (Paris), a 301; (Pelagia), b 481; (Philistines), a b 770 note
Aphrodite of Alcamenes (Archæology), II, b 311; *Anadyomene* (Archæology), a 318; *and Eros* (Archæology), II, b 315; (Terracotta) (Ill.), XXIII, b 208–9; *and Goat* (Archæology), II, a 315; of Praxiteles (Archæology), II, b 315; (Phryne), XVIII, a 868, note
—— Urania, goddess (Phœnicia), XVIII, b 818
Aphrosiab, ruins (Samarkand), XXI, b 259
Aphrothoraca, order (Protozoa), XIX, b 867
Aphtha, epizootic (Murrain), XVII, b 66, a b 67
Aphthartodocetism, heresy (Justinian I.), XIII, b 805
Aphthongia, disease (Stammering), XXII, a 465
Aphthonius of Antioch, rhetorician (Fable), VIII, a 734; (Rhetoric), XX, a 529
Api, mountain (Himalaya), XI, a 737
Apia, town (Navigators' Islands), XVII, b 287
Apian, Peter, astronomer (Tables), XXIII, a 13
Apiaries (Bee), III, b 431–3; in U. S. (Honey), XII, a b 142
Apical cell (Botany), IV, a 82, a 94
APICIUS, epicures, II, a 152
Apicras, plants (Horticulture), XII, a 271
Apiculture (Bee), III, a 433–4; (Honey), XII, a b 142
Apiocrinus, genus (Echinodermata) (Ill.), VII, a 551, *b* 552
APION, grammarian, II, a 152; (Gloss), X, a 612
Apion, against (Josephus), XIII, b 762
Apiornis, fossil bird (Egg), VII, b 604
APIS, Egyptian god, II, a 152–3; (Cambyses), IV, b 648–9; (Egypt), VII, a b 621, b 670; (Persia), XVIII, b 579–80
——, insect (Honey), XII, *b* 140; (Hymenoptera), b 611; mellifica (Bee), III, a 418, a 434
Apithus, insect (Humble-Bee), XII, b 356
Apium, plants (Horticulture), XII, b 292, a 293
Apjohn, James, chemist (Diffusion), VII, *b* 189, note; (Hygrometry), XII, b 605
Aplanatic doublet (Microscope), XVI, b 270, a b 272, a b 273; eye-piece (Telescope), XXIII, a b 157
Aplidium, genus (Tunicata), XXIII, a 657
Aplome (Mineralogy), XVI, a 382, a 383
Aplōris or Aplōlāris of Edessa, monk (Syriac Literature), XXII, a 876
Aplysia, sea-hare (Mollusca) (Ill.), XVI, b 667, b 679, a 680–4
Aplysiidæ, family (Mollusca), XVI, b 679
Aplysilla, genus (Sponges), XXII, b 435, a 437, b 438, b 441, a 443
Aplysina, genus (Sponges), XXII, b 436, a 440
Aplysinidæ, family (Sponges), XXII, a 440, b 444
Apneumona, genus (Echinodermata), VII, a 555
Apnœa, insensibility (Drowning), VII, a 409
Apo, mountain (Philippine Islands), XVIII, a 762, note, a 763
APOCALYPSE, predictions, II, b 153; (Angel), b 26; (Antichrist), II, b 110, b 111; (Cerinthus), V, a b 301; (Daniel), VI, b 709; (Gnosticism), X, a 626; (Gospels), a b 728, note; (Irving, E.), XIII, b 382; (Joachim), b 705; (John), a 718; (Lücke), XV, b 50; (Millennium), XVI, b 327, a 328–9; (Patmos), XVIII, b 418; (Revelation), XX, b 510–5
——, *Illustrations* (Dürer), VII, a 480, b 481; *of Peter*, XVIII, a 710; title of (Theology), XXIII, a 280
Apocalypsis (Typography), XXIII, b 725, b 726
APOCALYPTIC LITERATURE, II, b 153–8

- Christian, a 157–8
- JEWISH, b 153–7
  - Apocalypse of Moses, b 155–6
  - *Assumption of Moses*, b 155
  - *Baruch*, a 157
  - *Enoch*, b 153–4
  - *Esdras or Ezra*, b 154–5
  - *Jubilees or Little Genesis*, a b 155
  - *Sibyllines*, a 156–7

—— (Bible), III, b 554, a 555; (Messiah), XVI, b 59, a 61; (Revelation), XX, b 510–1
Apocrisiarius or deputy (Popedom), XIX, b 507, a b 508
APOCRYPHA, II, b 158–62

- New Testament, b 161–2
- OLD TESTAMENT, a 159–61
  - Canon, relation of the, a 159
  - doctrinal position, b 160
  - estimation of, a b 161
  - general characteristics, b 159–60
  - scope of the term, b 158

—— (Acts of the Apostles), I, a 119; (Bible Societies), III, b 561; (Devil), VII, b 118; (Greece), XI, a 132; (Hebrew Lang. and Lit.), b 535; (Inspiration), XIII, b 161; (Jerome, St.), a 642; (Judith), b 775; (Messiah), XVI, *b* 59
—— citations in the N. Test. (Canon), V, a 7; New Testament, II, b 161–2; (Mohammedanism), XVI, a 622; use of term (English Bible), VIII, b 345; versions of (Syriac Literature), XXII, a 864, b 866
Apocryphal Acts of the Apostles (Manichæism), XV, a 494
—— books (Adam), I, b 127; (Andrew, St.), II, a 20; (Pilate), XIX, b 98; *Gospels* (Jesus Christ), XIII, a 670, note; writings (Paul), XVIII, b 433–44; (Peter), a b 710
Apocynaceæ, plant (India-Rubber), XII, *b* 875, b 880

Apoda, division (Crustacea), VI, b 588, b 589
Apodaca, Mexican viceroy (Iturbide), XIII, a b 528
Apodema, partitions (Crustacea), VI, b 559, b 561, a 566
Apodictic reasoning (Logic), XIV, b 792, b 793, a b 794, a b 797, a 799 note
Apogamy (Reproduction), XX, b 436, b 444
Apogee, position (Meteorology), XVI, a 186; (Moon), b 825; retarding force in moon's (Tides), XXIII, b 403–4
APOLDA, town, II, a 162; (Saxe-Weimar), XXI, b 364, a 365
Apollinarianism (Heresy), XI, b 658; (Jesus Christ), XIII, *a* 682
Apollinaris of Laodicea, theologian (Millennium), XVI, a 329; (Jesus Christ), XIII, *a* 682; (Theodore), XXIII, b 274
—— mineral water, XXIV, b 420
APOLLINARIS SIDONIUS, bishop, II, a 162; (Juvenal), XIII, a b 814; (Latin), XIV, a 339
APOLLINARIS, Sulpicius, grammarian, II, a 162
Apolline myths (Latona), XIV, a 346
Apollinopolis Magna or Edfu, city, VII, b 567; (Crocodile), VI, a 525; (Egypt), VII, b 678–9
—— Parva, town (Egypt), VII, b 673
APOLLO, god (Ill.), II, a 162–3; (Daphnephoria), VI, a 723; (Delos), VII, a 46; (Delphi), a b 47; (Drama), a 349; (Greece), XI, a 84, b 86; (Homer), XII, a b 112, b 113, a b 115; (Laurel), XIV, b 349; (Mysteries), XVII, b 135 note; (Mythology), a 146, *b* 160, note; (Orestes), a b 851
——, cult of (Sacrifice), XXI, b 143–4; *at Daphne* (Bryaxis), IV, *a* 366; Epicurius (Phigalia), XVIII, b 748, a 749; festival of (Delia), VII, b 44; (Delphinia), b 47; Ismenius, Temple of (Thebes), XXIII, a b 249; Leucatas, festival of (Santa Maura), XXI, a 312; sculptures of (Archæology), II, b 303, *a b* 305, a b 306, a 310, a b 315; Spodius, altar of (Thebes), XXIII, *b* 249
—— *of Amyclæ* (Archæology), II, a 305
APOLLO BELVIDERE, statue, II, b 163
Apollo and Marsyas (Raphael), XX, b 288, note
APOLLODORUS of Athens, grammarian, II, b 163; (Aristotle), b 449, note; (Chronology), V, b 616; (Deluge), VII, a 50
APOLLODORUS of Damascus, architect, II, b 163; (Bridges), IV, a b 296; (Rome), XX, a 847, b 848, note; (Trajan), XXIII, b 536
APOLLODORUS, painter, II, b 163; (Archæology), II, b 317
——, sculptor (Archæology), II, a 316
APOLLONIA, ancient cities, II, b 163
—— of Cyrene, II, b 163; (Tripoli), XXIII, a 612. Modern Mersá Suza or Sozusa
—— Illyrian city, II, b 163
—— or Mordiæum, Phrygian town, II, b 163; (Pisidia), XIX, b 139
——, town (Siphanto), XXII, b 102
——, cape and town (Gold Coast), X, a b 672, a 673
—— Lake (Asia Minor), II, b 619; (Mysia), XVII, a 130
APOLLONIUS of Alexandria, sophist, II, a 164; (Dictionary), VII, a b 158; (Gloss), X, a 612
Apollonius, Consolation addressed to (Plutarch), XIX, a b 245
APOLLONIUS Dyscolus, grammarian, II, a 164
Apollonius Gallus (Vieta), XXIV, a 242
——, the effeminate, rhetorician, II, a 164
APOLLONIUS Molo, rhetorician, II, b 163–4; (Cæsar), IV, *b* 563
—— the Montanist, XVI, b 802
APOLLONIUS of Perga, geometrician, II, a 164–5; (Arithmetic), a 462; (Astronomy), b 654, b 655; (Conic Sections), VI, a b 242; (Copernicus), b 307; (Euclid), VIII, b 577; (Halley), XI, b 355; (Maxima and Minima), XV, a 650; (Pappus) XVIII, a b 234, a 235; (Ptolemy), XX, a 93, b 94, a 96
APOLLONIUS Rhodius, poet, II, a 164; (Phrenology), XVIII, a 859 note
—— Tauriscus, sculptor, II, a 164
APOLLONIUS of Tralles, sculptor, II, a 164
APOLLONIUS Tyanæus, philosopher, II, a b 165; (Geography), X, a 158; (Pythagoras) XX, b 145; (Titus), XXIII, b 447; *Life of* (Philostratus), XVIII, a b 810, a 811
—— *of Tyre*, love tale (Romance), XX, b 650–1
APOLLOS, evangelist, II, b 165–6; (Corinthians), VI, *a* 355, a 356; (Hebrews), XI, b 541; (Paul), XVIII, b 431
Apologetical Narrative (Presbyterianism), XIX, b 707
APOLOGETICS, II, a 166–9
  Christology in, b 167
  function of, a 166
  history of, 168
  revelation, a 167
  scepticism, b 168
  theology, natural, b 166
—— (Bampton), III, b 265; (Greenleaf), XI, b 153; (Grotius), b 195; (Lully), XV, b 65; (Justin Martyr), XIII, b 799; (Origen), XVII, b 865; (Theology), XXIII, b 293–4, b 294–5, note; period of (Dogmatic), VII, a 294
Apologeticus (Tertullian), XXIII, *b* 214, *a* 215
Apologia (Medici), XV, b 799; (Melito), *a* 849; (Pico), XIX, b 89; *Ecclesiæ Anglicanæ* (Jewel), XIII, a 686
Apologie des Socrates, Neue (Eberhard, J. A.), VII, a b 534
Apologies (Justin), XIII, b 799, *a b* 800
Apologists, modern (Scepticism), XXI, b 398–9; primitive, sect (Inspiration), XIII, a 162
APOLOGUE, II, a 169
Apology of Plato, XIX, b 206, b 209-10, a b 212, b 214; (Socrates), XXII, a 245, b 246, b 248; (Xenophon), XXIV, b 757
—— (Justin Martyr), XIII, b 799
—— (Athenagoras), II, b 728
—— *for the Bible* (Watson), XXIV, b 433
—— *for his Life* (Cibber), V, *b* 673
—— *for the True Christian Divinity* (Barclay), III, a 319
Apomorphia, alkaloid (Opium), XVII, b 815
Aponensis or Apono, Pietro d'. See ABANO
APONEUROSIS (Anatomy), I, a 732, a 746
Aponi Fons (Abano), I, b 12
APOPHTHEGM, II, a 169; (Bacon); III, a b 181; (Bias), b 547
Apophis, king (Egypt), VII, b 637 note, a 638
Apophoreta, prizes (Lotteries), XV, b 12
Apophoreta (Martial), XV, a 586
Apophyllite (Ill.) (Mineralogy), XVI, a 387, a *b* 389, a b 390, a 439
Apophysis, part of stalk (Muscineæ), XVII, b 80
APOPLEXY, disease, II, a b 169; (Murrain), XVII, b 64, a 65; heat (Sunstroke), XXII, a b 701
Apopyle, passage (Sponges), XXII, b 429
Aporosa, group (Actinozoa), I, *a* 121; (Corals), VI, a 333, *b* 336, a b 337
Apospory in plants (Reproduction), XX, b 436, b 444
APOSTACY, II, b 169; (Heine), XI, b 558; (Heresy), a b 660
A POSTERIORI (A priori), II, a b 187; knowledge (Metaphysic), XVI, b 87 *sq.*, b 95, a 96, a 97, b 103
Apostis, out-rigger (Ship), XXI, b 845
APOSTLE, II, a b 170; (Acts of the Apostles), I, *a b* 116; (Catholic Apostolic Church), V, a b 207; (Christianity), a b 608; (Episcopacy), VIII, b 430–1; (James), XIII, b 561–3; (Jesus Christ), a 674, a 675; (Mormons), XVI, b 852, a 853; (Prophet), XIX, a b 844, a 845; (Paul), XVIII, a 433, note; teaching of the (Christianity), V, b 601–2
APOSTLES' CREED, II, b 170; (Creed), VI, b 495, b 496–7; (Dogmatic), VII, a 294
APOSTOLIC or Apostolical, epithet, II, b 170
—— Baptism, III, b 302
APOSTOLIC CANONS, II, b 170–1; (Canon), V, b 13; (Canon Law), V, *a* 16; (Sunday), XXII, b 688
APOSTOLIC CONSTITUTIONS, II, a 171; (Apostolic Fathers), II, a 172; (Canon), V, a 11; (Canon Law), V, b 15–6; (Doxology), VII, b 332; (Epiphany), VIII, a 429; (Holy Water), XII, a 109; (Holy Week), b 109; (Sabbath), XXI, b 133–4; (Sunday), XXII, *b* 688; (Whiston), XXIV, *a* 579
APOSTOLIC FATHERS, II, a 171–3
—— relics, theft of (Syriac Literature), XXII, b 885; succession (Fénelon), IX, b 64; triumvirate (Peter), XVIII, b 707, a 708; visit, congregation (Roman Catholic Church), XX, *a* 645; writings (Dogmatic), VII, a 294
APOSTOLICI or Apostolic Brethren, sect, II, a b 173; (Reformation), XX, a b 335
—— monks (Monachism), XVI, a 737
APOSTOLIUS, Michael, theologian, II, b 173–4; (Greece), XI, b 133
Apotactici, sect (Apostolici), II, a 173
Apothecaries' island (St. Petersburg), XXI, a 200, *a* 202
—— Society, London, II, a b 174
APOTHECARY, II, a b 174; trade (Harvey), XI, a 452; (Pharmacopœia), XVIII, a b 744
Apothecia, organs (Lichens) (Ill.), XIV, a 557–8, a b 562
APOTHEOSIS, ceremony, II, b 174–5; (Alexander the Great), I, b 426; (Consecration), VI, a 260
—— Roman imperial (Christianity), V, b 602; (Macedonian Empire), XV, b 142
Apoxyomenus (Archæology), II, a 316
Appa Sáhib of Nágpur, rájá (Gondwána), X, *a* 686
Appalachee bay (Florida), IX, b 296
Appalachian Coal-field (Anthracite), II, b 94; VI, b 56–7; (Kentucky), XIV, a b 43, b 44; (United States), XXIII, *b* 864
—— forests (United States), XXIII, *a* 859–60
APPALACHIAN MOUNTAINS, II, a 175–6; (America), I, a 592, b 595–6; (Mississippi), XVI, b 545; (New Brunswick), XVII, a 382, a 383; (Petroleum), XVIII, *a* 729; (United States), XXIII, b 841–6; (Virginia), XXIV, b 275, a b 276, a 277, *a* 278
—— races (America), I, a 603; (Indians), XII, a 868
Appalachicola, river (Florida), IX, b 296; and town (Georgia), X, *a* 391
"Apparatus major" (Surgery), XXII, b 710

Apparent light (Lighthouse), XIV, b 632
—— time (Dialling), VII, a 133
APPARITIONS II, a 176–82
  brownies, a 178
  fairies, a 178
  ghosts, b 179
  primitive beliefs, a 177
  second sight, b 178
  spiritualism, a 181
  witchcraft, b 178
——, savage theory of (Animism), II, a 50
APPEAL, legal process, II, a 182–4; (Criminal Law), VI, b 521; (Inquisition), XIII, b 100
—— citizens' (Rome), XX, b 755, *b* 756; courts of (Courts), VI, b 458–9; (Judicature), XIII, b 774, *a* 775
—— ecclesiastical (Archbishop), II, a *b* 323; (Arches Court), II, b 331; (Henry VIII.), XI, b 592
Appeal of Injured Innocence (Fuller, T.), IX, a 716
Appeal, Lords of (Peerage), XVIII, b 477
Appeals (Admiralty), I, b 145, a b 146; (Bankruptcy), III, a 295; (Consul), VI, a b 280; (Privy Councils), XIX, *b* 785, a 786; (Prize), a 787; (Quarter Sessions), XX, a 166; (Summary Jurisdiction), XXII, a 676
—— Constitution on (United States), XXIII, *a* 799; in United States (Bankruptcy), III, b 297
Appeasing totem (Totemism), XXIII, a b 498
Appellants, church party (Jansenism), XIII, *a* 577
Appendages (Heraldry), XI, a 633–5
Appendant rights (Commons), VI, a 187
Appendicular defined (Anatomy), I, b 718; skeleton, XXII, b 124–7; unpaired elements in fish (Skeleton), XXII, a b 127
Appendicularia, order (Animal Kingdom), II, a b 48; (Vertebrata) (Ill.), XXIV, *b* 201, a 202, a 203
Appendiculariidæ, family (Tunicata) (Ill.), XXIII, a 653–4
Appendiculata, classification of (Zoology), XXIV, b 852–3
APPENDINI, Francesco Maria, historian, II, a 184
Appendix vermiformis (Digestive Organs), VII, b 198, a 199
APPENZELL, canton, II, a 184; (Switzerland), XXII, b 815, a 816, a 817, *a* b 818, *b* 823, note, a 824, a 825, a 828, a 830, b 833
—— town, II, *a* b 184; (Switzerland), XXII, b 816, *a* 829
Appenzeller, J. C., novelist (Switzerland), XXII, a 838
Apperception in psychology (Cousin), VI, b 466, a b 468; (Kant), XIII, b 862
APPERLEY, Charles James, sportsman, II, b 184
Appert, François, tradesman (Fermentation), IX, a 86
Appetite (Psychology), XX, b 77; Spinoza on (Cartesianism), V, b 138
APPIA VIA or Appian Way, II, b 184; (Pius VI.), XIX, b 165; (Rome), XX, b 829
APPIAN, historian, II, b 184
APPIANI, Andrea, painter, II, b 184
Appiano family (Pisa), XIX, a 130
Appius Claudius Cæcus, censor (Roman Law), XX, a 698; (Roman Literature), b 735
Appius and Virginia, play (Webster), XXIV, b 500
APPLE, tree, II, b 184–5; (Botany) (Ill.), IV, b 86, a 106, a 119, b 130, b 134, a 135, a 148; (Horticulture), XII, a b 279
—— brandy (Cider), V, b 677; grafting (Horticulture), XII, b 217, b 241–2; region (France), IX, a 447
APPLEBY, town (Ill.), II, a b, 185
Apples, fruit (Celtic Literature), V, b 282; (Hereford), XI, b 652; (Kansas), XIII, b 852; (Michigan), XVI, a 247; (Nova Scotia), XVII, a 617; (Somerset), XXII, a 272
—— Iduna (Mythology), XVII, b 162; of Sodom (Galls), X, a 41
Applied Mechanics, XV, a 758–84
Appliqué (Embroidery), VIII, *b* 149
Appold's Module (Hydromechanics) (Ill.), XII, b 503, a 504; pump (Hydromechanics), b 565; water main scraper (Hydromechanics), XII, b 510
Appolts' oven (Coke), VI, b 108–9
Appomattox river (Petersburg), XVIII, a 716
—— surrender, 1865 (United States), XXIII, b 828
Apporaza, general (Burmah), IV, b 496
Apportionment (Rent), XX, b 415
APPRAISER, II, b 185
APPRENTICE, APPRENTICESHIP, II, b 185–6; (Free Trade), IX, b 667–8; (Poor Laws), XIX, a 492; (Seamen), XXI, a 636, a 638; (Technical Education), XXIII, *b* 113, *b* 114–5; (Workingmen, American), XXIV, b 918
Approbation, love of (Phrenology), XVIII, b 859
Appropriation Act (Finance), IX, b 158; of payments, XVIII, b 451
Approximate metric conversions (Weights and Measures), XXIV, b 517; values (Annuities), II, a 74–5
Approximation (Algebra), I, b 453, a 487; fractional (Algebra), b 492–3
Appuleius, satirist. See APULEIUS
Appun, C. F., traveller (Venezuela), XXIV, a 151, b 153
Appurtenant rights (Commons), VI, a 187
Apraksin, Steven-Feodorovich, marshal (Russia), XXI, a 107
Aprasiidæ, genus (Lizard), XV, b 739
Aprica pass (Valtellina), XXIV, b 51
APRICOT, tree, II, b 186; (Horticulture), XII, b 279; (Turkestan), XXIII, b 676, a 677
APRIES or Pharaoh Hophra, king, II, b 186; (Amasis), I, b 574; (Egypt), VII, a b 644; (Phœnicia), XVIII, b 821
APRIL, month, II, a 187; (Calendar), IV, b 590, b 597, b 598, a 601
—— calendar British (Horticulture), XII, b 303–4; United States (Horticulture), a 307
—— wheat (Agriculture), I, b 315
A PRIORI, logical term, II, a b 187; knowledge (Metaphysic), XVI, b 87 *sq*, a 93, b 95, a 97, b 103–4; notions (Kant), XIII, a b 860, b 861; theory of (Axioms), III, a 140
Aprons (Costume), VI, a 420, b 421
Aprutium, town (Teramo), XXIII, b 200
Apsaras, deities (Brahmanism), IV, a 188
APSE, II, b 187; (Architecture), b 376, b 377, *b* 378, a 380; (Basilica), III, a b 356, b 357, a 358, (Mechanics), XV, a 715
Apselaphesia, disease (Touch), XXIII, a 513
APSHERON, cape, II, a 188; (Caspian Sea), V, b 154, b 155, b 156; (Europe), VIII, b 597; (Transcaucasia), XXIII, a 546
—— gulf (Seal), XXI, a 610
Apsides, line of (Moon), XVI, b 825
Apsilus, animalcule (Rotifera) (Ill.), XXI, a *b* 12
Apsley, baron. See BATHURST, Earl of
Apsyrtus of Bithynia, physician (Veterinary Science), XXIV, b 213
APT, town, II, a 188; (Vaucluse), XXIV, *a* 125
Apta Julia, town (Apt), II, a 188
Aptenodytes, genus (Penguin) (Ill.), XVIII, b 502
Aptera, order (Hymenoptera), XII, b 606; (Insects), XIII, *a* 160
——, town (Numismatics), XVII, *b* 660
Apteryges, order (Ornithology), XVIII, a 48
Apterygida, family (Birds), III, a 644
Apteryx, genus (Birds), III, b 622, b 623, a b 625, a 626, b 627, a 628, b 668; (Kiwi), XIV, b 106–8; (New Zealand), XVII, a 482; (Smell), XXII, *a* 176
Aptornis, genus (Birds), III, b 634; (Moor-hen), XVI, a 835
Apu Ollantay (Drama), VII, b 348
Apuani, tribe (Italy), XIII, a 456; (Liguria), XIV, b 646
Apulariæ Scalæ, road (Rome) (Plate VII) (Ill.), XX, a 831
APULEIUS, Lucius, satirist, II, a 188–9; (Apparitions), a 177, a 179; (Latin), XIV, b 338–9; (Romance), XX, *b* 652; (Satire), XXI, a 334
APULIA, district, II, a 189; (Italy), XIII, b 448, a b 449, b 456; conquest of (Robert Guiscard), XX, b 612; volcanic formation (Italy), XIII, b 452
Apulian Art (Pisano), XIX, *b* 132; hills (Horace), XII, b 163
Apulians, tribes (Italy), XIII, a 455; (Rome), XX, a b 761, a 762, a b 763, a 770
APURE, river, II, a 189; (Orinoco), XVII, a 868
APURIMAC, river, II, a 189
Apus, genus (Crustacea), VI, a 563, b 566, a 570 note, *b* 574, *a* 575, *b* 586
Aqua Alexandrina, aqueduct, II, b 192; Algentina, b 192; Alsietina or Augusta, b 192; Appia, a 192; Claudia, b 191, a b 192; Crabra or Damnata, b 192; Julia, a b 192; Martia, a 192; Paole, b 192; Septimiana, b 192; Tepula, a 192; Trajana, *b* 192; Virgo, *b* 192
—— amygdalarum amararum, drug (Prussic Acid), XX, b 27, note
—— ardens (Distillation), VII, b 229
Aquæ Patavinæ, aqueducts (Abano), I, b 12; Sextiæ (Aix), b 382; Statiellæ (Acqui), a 111
—— Solis. See BATH, town
Aquafortis, acid (Explosives), VIII, b 705; (Nitrogen), XVII, a 532. See Nitric Acid
Aqua laurocerasi, drug (Prussic Acid), XX, b 27, note
Aquamarine, gem (Beryl), III, *a* 530; (Mineralogy), XVI, b 436; (Topaz), XXIII, a 475
AQUAMBO or AKUAMU, country, II, b 189
AQUAPIM, country, II, b 189; (Gold Coast), X, *a* 673
Aqua regia, acid (Metals), XVI, a 76; (Platinum), XIX, a 203, a 204
AQUARIANS, sects, II, b 189
AQUARIUM (Ill.), II, b 189–91; (Naples), XVII, b 196
Aquarius, sign of Zodiac, XXIV, b 829, *b* 830, *b* 831
Aquatic Hares, XI, a 427
Aquatint, engraving (Daniell), VI, a 712; (Engraving), VIII, a 396; (Sandby), XXI, b 269
Aqua vitæ (Distillation), VII, b 229
AQUEDUCT (Plate III, IV) (Ill.), II, a 191-200
  canals, a b 200
  Constantinople, a b 193
  Croton, N. Y. (Ill.), b 194–5
  France, b 193–4
  Ganges canal, a 194
  Glasgow (Ill.), a 196–8
  Greek, a 191
  Manchester, a 195–6
  Mediæval (Plate III), a 193
  Paris, b 199
  Roman, b 191–2

- AQUEDUCT, *continued*
  - Roman provinces, b 192–3
  - subterranean, a 194
  - Vienna (Ill.), a 199

- —— Barton (Brindley), IV, a 313; (Beyrout), III, a 538; (Blois), a 726; (Cahors), IV, b 570
- —— Croton (Ill.), II, b 194–5; (New York), XVII, a 478, a 896
- —— Glasgow, II, a 196–8; X, a b 572; (Georgetown, D. C.), X, a 387; Guetin (Bridges) (Ill.), IV, b 294, a 295; (Isernia), XIII, a b 396; (Jerusalem), b 648, *a* 649; (Lisbon), XIV, b 698; (Lyons), XV, b 113; (Maddaloni), a 177; (Marly-le-Roi), b 565; (Mecca), a 678; (Merida), XVI, a 41; (Mexico), a 230; (Montpellier), b 818; Nero's (Rome) (Ill.), XX, a 844; (Olympia), XVII, b 791; (Rio Janeiro), XX, b 577; (Seville), XXI, b 741; (Spoleto), XXII, b 427; (Teruel), XXIII, a 216; (Tunis), a 662; Pont-y-Cyssylte (Canal), IV, a 692; Puente del Diabolo (Segovia), XXI, b 654
- —— anatomical, of Fallopius, I, a 774; of Sylvius, I, a 758, a 766, a 769, a 770, a 771
- Aqueducts (Fountain), IX, b 428; (Palestine), XVIII, b 177; Paris, II, b 199–200; (Paris), XVIII, a b 285; (Water Supply), XXIV, a 430
- —— Roman, II, b 191–2; (Architecture), b 367; (Hydromechanics), XII, b 451, note; (Inscriptions), XIII, b 135; (Rome), XX, b 851. See IRRIGATION, Reservoirs, WATER-SUPPLY, or Works
- Aqueous energy (Luray Cavern), XV, b 68
- —— humor (Anatomy), I, a 778, a 781. See EYE
- —— reagents (Lead), XIV, a 378
- —— vapor, atmospheric (Geology), X, b 195, a 196, a 235, a b 237; (Meteorology), XVI, a 124–5, b 126–7, a 134, a 143, b 152
- —— metal forming (Geology), X, b 281; in rocks (Geology), b 231
- Aquiculture. See PISCICULTURE
- Aquidah, town. See AKODAH
- AQUILA, town, II, b 200; (Abruzzo), I, *a* 57
- AQUILA, Caspar, theologian, II, a 201
- AQUILA, of Pontus, translator, II, b 200; (Targum), XXIII, a 69; version of Bible, III, a 554; (Septuagint), XXI, *a* 701
- —— of Salzburg. See ARNO
- AQUILA, Serafino dell', poet, II, a 201; dialect of (Italy), XIII, a b 506, note, a 507
- Aquilegia, plant (Botany) (Ill.), IV, b 135, b 137, a 138; (Horticulture), XII, a 257
- AQUILEIA, town, II, a b 201; (Mark), XV, a 559; (Rome), XX, a 770; (Venice), XXIV, b 161
- —— church of (Creeds), VI, a 497; synod of, 1381 (Ambrose, St.), I, b 582
- Aquilian law (Roman Law), XX, b 698, a 713
- Aquilinæ, family (Eagle), VII, b 509, a 510–1
- AQUILLIUS, Manius, consul, II, b 201
- Aquilonia, town (Samnites), XXI, b 261
- AQUINAS, Aquin or Aquino, Thomas, schoolman, II, b 201–3; (Alchemy), I, a b 411; (Arabian Philosophy), II, b 236; (Bacon), III, a b 189, note; (Duns Scotus), VII, *a* 471; (Ethics), VIII, a 522, a 523–4; (Evolution), a 664; (Hermeneutics), XI, *b* 667; (Hymns), XII, b 618; (Inspiration), XIII, b 162, b 163; (Monachism), XVI, b 736, a 738; (Phrenology), XVIII, b 857, note; (Political Economy), XIX, b 365; (Predestination), a 690; (Scholasticism), XXI, *b* 435, a b 436, b 444, *a* b 445–7, *a* b 448, note; (Theism), XXIII, *a b* 260, a 261, note
- Aquisgranum, town. See AIX-LA-CHAPELLE
- Aquitaine, duchy of (Edward Black Prince), VII, b 595; (France), IX, a 470, a 471; united with France (England), VIII, b 288. See AQUITANIA
- Aquitani, tribes (Gaul), X, *b* 100
- AQUITANIA, country, II, a b 203; (Severus), XXI, a 735
- Ara, genus (Macaw), XV, *a b* 131
- —— of Edessa, satirist (Syriac Literature), XXII, a 871, note
- Arabah, valley of (Hor), XII, a 163
- *Arabes, Essai sur l' Histoire des* (Perceval), XVIII, a 532
- ARABESQUE, decoration, II, b 203; (Ispahán), XIII, a b 404
- ARABGIR or Arabkir, town, II, b 204
- ARABIA (Plate V), II, b 204–32
  - agriculture, b 212–3
  - animals, domestic, b 209–11; wild, b 211–2
  - antiquities, b 229–30
  - arts, b 231–2
  - BEDOUINS, b 214–7
    - clans, b 215
    - mode of life, a 215
    - personal characteristics, a 216–7
    - religious features, a 216
  - boundaries, b 204–5
  - camel, a 211
  - deserts, a 208, a b 209
  - divisions, territorial, a 221-2
  - HISTORY, b 222–9
    - Caliphates, b 225–7
    - Egyptian occupation, b 228–9
    - Fatimites, b 227
    - Karmathian revolt, a b 227
    - Koreysh, rise of, b 223–4
- ARABIA, *continued*
  - HISTORY
    - Mahometan conquests, b 224–5
    - Mustareb, rise of, b 223–4
    - present condition, a b 229
    - Roman and Abyssinian invasions, a b 224
    - traditional period, b 222–3
    - Turkish occupation, b 227
    - Wahhabees, era of, b 227–8
  - horse, b 209–10
  - industries, b 212–4
  - literature, a 230-1
  - NATURAL FEATURES, a 206–9
    - central districts, a 208–9
    - coast region, a 206–8
    - Sinaitic district, b 205–6
  - origin of races, a b 214
  - population statistics, b 222
  - SETTLED ARABS, a 217–21
    - clans and titles of rank, a b 217
    - domestic life, a 219–20
    - education and speech, b 220-1
    - military character, a b 220
    - religion, b 217–8
    - revenues, a 220
    - social customs, a b 218
    - towns and dwellings, b 218–9
  - vegetation, a b 206–7

- —— (Asia), II, b 599; (Coffee), VI, b 100–1, a b 103; (Frankincense), IX, *b* 624, *a b* 625; (Mesopotamia), XVI, a 52, a 53, a 54; (Mohammedanism), a 569, a 576, a 577, b 583, a 585, a b 589, a 606, b 610; (Niebuhr, K.), XVII, a 507; (Palestine), XVIII, a 181; (Plague), XIX, b 177; (Semitic Languages), XXI, a b 675; (Syria), XXII, a 862; (Trajan), XXIII, a 537; (Turkey), XXIII, a b 695
- ——, coast of (Red Sea) XX, a 329; conquests in (Abyssinia), I, b 64; explorers of (Geography), X, a b 168; organic forms of, II, b 209-12; (Asia), II, b 604, *b* 606, b 607
- ——, Felix, II, b 205–9, a 221–3; (Yemen), XXIV, a 775
- ——, Petræa, II, b 205; (Idumea), XII, a 738; (Petra), XVIII, a 719 note
- ——, South (Yemen), XXIV, *b* 776, b 778
- Arabian Alchemy, I, a 410–1; (Geber), X, a b 113; anatomy, I, a 706; (Clot), VI, a 37; Architecture (Ill.), II, b 389-92; art (Egypt), VII, a b 668; (Illumination), XII, a 747; Astronomy, II, a 656; (Moon), XVI, a 826; (Time), XXIII, b 419; avifauna, (Birds), III, b 657–8; Bible, III, b 559–60; (Camel), II, a 211; IV, a 651, a 652; cartography (Map), XV, a b 525; character (Egypt), VII, b 615 note, b 616; coinage (Numismatics), XVII, a 678–9; commerce (Bussorah), IV, b 514; Commerce, VI, b 176; Gunpowder, XI, b 282, a b 283; historians, II, a b 231; (Tabarí), XXIII, b 5-9; horses, II, b 209-10; (Horse), XII, a 184 note, *a b* 186; influence on Europe (Scholasticism), XXI, a b 444, a 446; interpretation of dreams, VII, a 392; Libraries, XIV, b 513; mansions of the moon (Zodiac), XXIV, b 833–4; mathematicians, II, b 231; (Algebra), I, b 451-2; Medicine, XV, a b 814–5, b 816–7; migrations (Moab), XVI, a 559; (Somali), XX, b 269
- *Arabian Nights* (Arabia), II, a 231; (Galland), X, *b* 34; (Lane), XIV, b 282; (Magic), XV, a b 204; (Thousand and One Nights), XXIII, a 337
- —— notation (Numerals), XVII, b 640 note, b 641–2; introduced into Europe (Arithmetic), II, b 461
- ARABIAN PHILOSOPHY, II, b 232–7
  - bibliography, b 236–7
  - Christian sects, early relations of, b 233–4
  - Persian school, a 234–5
  - schoolmen of Europe, a b 236
  - sources of, b 232
  - Spanish school, a 235–6
  - theology of Islam, b 232–3

- Arabian Poetry, II, b 230–1; (Abu-Teman), I, a 61; (Hamasah), XI, b 359-60; (Mo'allakát), XVI, b 559–63; (Mohammedanism), b 617–8; (Poetry), XIX, a 282
- —— power, growth of (Persia), XVIII, a 621, b 622, b 625–6
- —— Religion, XX, b 373, a 374; heathen (Mohammedanism), XVI, b 569; rites (Passover), XVIII, b 348, a 349 note; (Sacrifice), XXI, a *b* 143
- ARABIAN SEA, II, a 237; (Indian Ocean), XII, a 860, *a b* 861
- —— sun-dials (Dialling), VII, a b 132; surgery, XXII, b 709; tents, XXIII, b 199-200; tinnín legend (Sea-Serpent), XXI, a b 640; traditions (Amalekites), I, a 573; tribes (Africa), I, b 234; II, a 214–7; (Palestine), XVIII, a b 182; vows (Nazarite), XVII, b 312; voyages (Geography), X, a 159
- Arabic dialect (Mesopotamia), XVI, b 54, a 57; *Dictionaries*, VII, b 164–5; gram. XI, *b* 243–4; history (Ibn Khaldoun), XII, *b* 641; influence (Syria), XXII, b 862, b 863
- —— language (Africa), I, a b 234; (Freytag), IX, b 682; (Hebrew Lang. and Lit.), XI, *a* b 532, a 533;

Arabic, *continued*
(Malays), XV, *b* 327; (Malta), a 343; (Mohammedanism), XVI, b 612, b 617, b 623; (Philology), XVIII, a 792; (Persia), b 667, a b 668; (Semitic Languages), XXI, a b 673–4, *a b* 675, *a b* 676, note, b 678, a 679, *a* 680, b 681, b 682–5
—— learning, revival of (Sacy), XXI, b 149; legends (Abraham), I, b 56; letters (Malays), XV, b 327; *Lexicon* (Lane), XIV, b 282–3; Library, Calcutta (Libraries), a 533
—— literature, I, a 230–2; (Egypt), VII, a b 629; (Germany), X, a b 468; (Hajji Khalfa), XI, b 337; (Hariri), a b 429; (Lane), XIV, b 282–3; (Logic), a 799; (Maimonides), XV, b 298–9; (Maccabees), b 132; (Makkarí), a 314; (Makrízí), b 314; (Nadim), XVII, b 167; (Pocock), XIX, b 265; (Reiske), XX, a b 367, a 368; rise of (Syriac Literature), XXII, a 891, note; (Tabarí), XXIII, a 7
—— manuscripts (Paper), XVIII, a 221, note; philological works (Golius), X, b 683; printing (Typography), XXIII, a 740
—— *Psalters* (Psalms), XX, a 39; translations (Syriac Literature), XXII, b 894–5, a 899; from Greek (Tabarí), XXIII, a 7; writing (Inscriptions), XIII, b 123
ARABICI, sect, II, a 237
Arabingum (Botany), IV, a 78
Arabis, plants (Horticulture), XII, a 257
Arabistan, plain (Khúzistán), XIV, *a* 70
Arabs, race, II, a 214–20; (Abraham), I, b 55; (Africa), a 219, a 220, *b* 234, a 235, a 240; (Algeria), a 497, a 502; (Bokhara), IV, a b 3; (Circumcision), V, a b 690, a 691; (Commerce), VI, b 176; (Compass), b 201–2; (Constantinople), b 273, *b* 274; (Cyprus), a 661; (Darfur), a b 725; (Funeral Rites), IX, a 725; (Hoopoe), XII, a 159 note; (Ishmael), XIII, b 396; (Justinian II.), b 807; (Kabyles), *b* 823; (Khorásán), XIV, *a* 69, note; (Madagascar), XV, b 174; (Merv), XVI, b 47, b 48; (Mesopotamia), *a b* 53, *a* 54, *a* 56; (Mohammedanism), a 570, a 576, b 580, b 583, b 584; (Mythology), XVII, a 149; (Nabatæans), b 166–7; (Nubia), a 627; (Palmyra), XVIII, a 203; (Priest), XIX, a b 746; (Soudan), XXII, b 291, a 292; (Tajak), XXIII, a 30
——, African, race (Negro), XVII, a 326 note; Banu Habíb (Nisibis), a 528; conquest by (Spain), XXII, a 324–5; rule of the (Palmyra), XVIII, a b 206
Araca, distilled spirit (Milk), XVI, b 318
Aracan, district. See ARÁKÁN
Aracaris, bird (Toucan), XXIII, b 506 note, a b 507
ARACATI, town, II, a 237
Aracaty, town (Ceará), V, a 245
Araceæ (Botany), IV, b 75, a 77
Arachis Hypogæa (Ground-nut), XI, b 196
ARACHNIDA (Ill.), II, a 237–63
  ACARIDEA (Ill.), a 240–2
    families, b 241–2
    structure, external, b 240; internal, b 240–1
  anatomy and physiology of, a 238–9
  ARANEIDEA or spiders (Ill.), a 255–63
    cabinet specimens, b 262–3
    enemies, a b 262
    families, a 261
    general view of habits, a 261–2
    reproduction, b 258–9
    spinning snares, a 259–61
    strings, a 259
    structure, external, a 255–7; internal, a 257–9
  ARTICULATA, a 237–40
    classification, a 239–40
    groupings of, a 237–8
  PHALANGIDEA (Ill.), a 243–5
    families, b 244–5
    structure, external, b 243; internal, b 243–4
  PYCNOGONIDEA (Ill.), b 242–3
  SCORPIONIDEA (Ill.), a 247–51
    pseudo-scorpions or chelifers (Ill.), b 247–8
    scorpions (Ill.), b 248–51; families, a 251; habits and stings, a 251; structure, external, b 248; structure, internal, b 249
  SOLPUGIDEA (Ill.), b 245–7
    structure, external, b 245–6; internal, b 246–7
  THELYPHONIDEA, a 251–5
    phrynides (Ill.), b 253–5
    tartarides, a b 253
    thelyphonides (Ill.), a 252–3
—— (Arthropoda), II, b 567; (Crustacea), VI, b 558, b 579; (Insects), XIII, a 147, b 153; (Mite), XVI, a 552; (Sex), XXI, a 757
—— classification (Zoology), XXIII, b 852–3; nerves of (Physiology), XIX, b 35; parasitic (Parasitism), XVIII, b 263–4
Arachnoid membrane (Anatomy), I, b 744, b 759
Arachnotherinæ, genus (Sun-bird), XXII, b 686
Arachosia, district and city (Afghânistân), I, a 206, b 214, a 216; (Persia), XVIII, a 603, b 610–11
Arachotus, river and lake (Afghânistân), I, a 206
Aracinus, lacus (Latium), XIV, a 344
Araçoiva, hill (Brazil), IV, a 202
ARAD, city, II, b 263; (Hungary), XII, b 387
Aradus, Phœnician city (Numismatics), XVII, a b 667; (Phœnicia), XVIII, a 817, a 821, note, a b 822
Aræostyle (Architecture) II, a 385
'Arafa, holy place (Mecca), XV, b 676, note, *b* 681, *a b* 682
ARAFAT, mountain of Arabia, II, b 263
Arafura sea (Timor), XXIII, b 424
ARAGO, François Jean Dominique, physicist, II, b 263–7
  contributions to science, b 265–7
  education, b 263
  light, experiments in, a 266–7
  magnetism, a 266
  meridian arc, measuring, b 263–4
  political relations, a b 265
  Royal Observatory career, a 264–5
—— (Artesian Wells), II, a b 564; (Electricity), VIII, a b 11, b 77; (Gay Lussac), X, a 109, a b 111, a 112; (Micrometer), XVI, a 262
ARAGON, kingdom, II, a b 267; (Pedro), XVIII, b 460–1; (Spain), XXII, b 326, *a* 327, a b 330, a b 331, a 332, b 336–40; (Wines), XXIV, a 640
—— kings of (Consulate of the Sea), VI, b 282; mediæval constitution (Spain), XXII, b 336–7; war with Pedro I. of Castile (Spain), XXII, a b 335
—— province (Spain), XXII, b 312, *a* 313, b 320, *a b* 340, a 341, *a b* 342, a b 343, *a b* 350, b 360, a 361
ARAGONA, town, II, b 267
Aragonese dialect (Spain), XXII, a 365; dynasty (Naples), XVII, *b* 198; (Pontanus), XIX, b 468, a 469
Aragonite (Mineralogy) (Ill.), XVI, a 366, b 379, b 384, a 386, b 390, a 391, b 394, a 395, b 414
ARAGUAYA or Araguia, river, II, b 267–8; (Brazil), IV, b 199
Aragwa, river (Caucasus), V, a 221, *a* 222, a 224
ARAHAL, town, II, a 268
Arahatship, doctrine (Lamaism), XI, a b 227, a 228
Arãish-i Mahfil (Hindustani Literature), XI, a 758
Arakadj oasis (Transcaspian), XXIII, a 545
ARÁKÁN, district, II, a b 268; (Burmah), IV, a 492, b 496, a b 497, *a* 498; (Burmah, British), *b* 499
—— mountains (Malay Peninsula), XV, b 323; (Sandoway), XXI, a 272
—— river (Burmah British), IV, b 499; town, II, *b* 268
Arakan Yoma range (Henzada), XI, b 604; (India), XII, b 769; (Kyouk-Hpyú), XIV, b 163; (Prome), XIX, a 829
Arakcheef, Alexis Andrevitch, general (Russia), XXI, b 109
ARAL, sea of, II, b 268–9; (Caspian Sea), V, a 155, *a b* 157, *a* 158; (Lake), XIV, *a* 223; (Mammalia), XV, a 377; (Oxus), XVIII, b 104, b 105, a b 108; (Transcaspian), XXIII, *b* 543, *b* 545; (Turkestan), b 674–5; basin of (Syr-Daria), XXII, *a b* 859; desiccation of (Syr-Daria), b 858
Aralia, plant (Botany) (Ill.), IV, *b* 77, b 122; (Rice Paper), XX, a 554
ARAM, Eugene, murderer, II, a b 269
Aramæan alphabet (Inscriptions), XII, b 121, b 122–3
Aramæans, people (Israel), XIII, b 411; (Mesopotamia), XVI, a 52, a b 54; (Moab), a 557, a b 558; (Nabatæans), XVII, a 167; (Syria), XXII, a 860, b 861, b 862
ARAMAIC LANGUAGES, II, b 269–70; (Daniel), VI, *b* 708; (Hebrew Lang. and Lit.), XI, b 531–2, *a b* 533; in Koran (Mohammedanism), XVI, b 623; (Palmyra), XVIII, a 203; (Semitic Languages), XXI, a b 673, *a* 674, a *b* 675, *a b* 676, notes, b 677, a 679–82, *a* 683
—— poetry (Ramban), XX, b 276; *Psalters* (Psalms), a 39; tradition (Gospels), X, b 713 note, a 716 note, b 717, *a* 718, a 721–2, b 747; version of the Bible (Targum), XXIII, b 67–71
Arameans, academicians (Grazzini), XI, b 71
Aramidæ, family (Birds), III, b 652
Aram Naharaim, country (Babylonia), III, a 159; (Mesopotamia), XVI, b 51, a 52; (Semitic Languages), XXI, a 679
Aramus, bird (Rail), XX, b 230
Aran, valley (Pyrenees), XX, *a* 131
ARANDA, Pedro Pablo Abarca Bolea d', Count of, statesman, II, b 270; (Spain), XXII, b 355, *b* 356
Araneidea, order (Arachnida) (Ill.), II, *a* 238, note, a b 239, a 240, b 247, a 250, *b* 252, a 255–63
Aran Fawddwy, mountain (Merioneth), XVI, *b* 43
ARAN ISLANDS, II, b 270; (Galway), X, a b 51, b 52; (Ireland), XIII, a 222
ARANJUEZ, town, II, b 270; (Spain), XXII, a 313
Aranmore, island (Aran Islands), II, b 270
Aran's law of radiation (Surgery), XXII, a 724, a 725
Aranthon, Bishop d,' (Guyon), XI, *a* 306
Arany, John, poet (Hungary), XII, b 393

Arany, Ladislaus, romancist (Hungary), XII, b 394
Araṇyakas (Brahmanism), IV, b 182; (Sanskrit), XXI, a 284, b 289, b 290, b 291
Aranzi or Arantius, Julius Cæsar (Anatomy), I, b 709, b 710; (Vascular System), XXIV, a b 104
Arapa, lake (Peru), XVIII, a 686
Arapahoes, tribes (Indians), XII, b 865, b 867, *a* 872
Arár tree (Cedar), V, b 248; (Morocco), XVI, b 859
ARARAT, mountain, II, a b 271; (Kúrdistán), XIV, a 157, note; (Noah), XVII, b 536; (Persia), XVIII, a 633; (Turkey), XXIII, b 695; (Transcaucasia), *b* 546
Ararats, orographic term (Syr-Daria), XXII, a 859
Ararge, town. See HARAR
Araric, king (Goths), X, a 754
Araroba tree (Goa-powder), X, b 630
Arárôs, comedian (Aristophanes), II, b 446
ARAS, river, b 271. See ARAXES
Arash, measure (Weights and Measures), XXIV, b 518
Arason, John, poet (Iceland), XII, b 658
ARATUS of Cilicia, poet, II, b 271–2; (Alexandrian School), I, b 440
ARATUS of Sicyon, general, II, b 271; (Greece), XI, *b* 96
ARAUCANIA, territory, II, a 272; (America), I, b 625
Araucanians (America), I, b 615–6; (Chili), V, *a* 537, a 538; (Indians), XII, b 869
ARAUCARIA, trees, II, a 272
Arauco, province (Chili), V, a b 535, *b* 536, b 539, a 540, b 541
Arausio, town. See ORANGE
ARAVALLI HILLS, II, b 272; (Ajmír), I, *a* 384; (Alwar), *a* 571; (India), XII, *b* 776; (Rájputána), XX, b 271–2; (Sirohi), XXII, *a* 106; (Udaipur), XXIII, *a* 763
Araviá, songs (Portugal), XIX, a 570, a 571
'Arawán, oasis (Oases), XVII, a 715
Arawhimi, river (Zaire), XXIV, a b 802
Arax, river (Russia), XXI, a 81
Araxes or Aras, river (Aras), II, b 271; (Babylonia), III, b 159; (Transcaucasia), XXIII, b 545, a *b* 546, *a* b 547
Aray, river (Inveraray), XIII, b 204
ARBACES, king, II, b 272
——, satrap, II, b 272
Arbat, town. See RABAT
Arbela or Arbîl, town, II, b 272
—— battle of, 331 B.C. (Alexander the Great), I, b 426–7; (Greece), XI, a 94
Arber, Edward, editor (Smith), XXII, b 186
Arbiter, Satirist. See PETRONIUS
Arbitrage, commercial-term, II, a b 273
ARBITRATION, law-term, II, b 273–5; (Labor), XIV, a b 174; (Paris), XVIII, a 292; (New York), XVII, b 476; (Penn), XVIII, a 506, b 507; (Trial), XXIII, a 590; (Workingmen in U. S.), XXIV, a 920
—— fire (Insurance), XIII, b 171; international II, b 274–5; XIII, a 200, a 202; (Republican Party), XX a 908; jus civile (Roman Law), b 700, a 701, a 702, a 710
Arblast, the (Heraldry), XI, b 627
Arblastier. See ALABASTER, William
ARBOGA, town, II, a 275
Arbogast, prefect (Rome), XX, a 797, a 799; (Theodosius I.), XXIII, *a* 278; (Valentinian II.), XXIV, a 43
Arbogast's theorem (Infinitesimal Calculus), XIII, b 22, a 23
ARBOIS, town, II, a 275
Arbol, plant (Guaco), XI, b 202
ARBORICULTURE, II, b 275–84
  acreage table, a 284
  British culture of trees, a b 276
  conifers, b 276–7
  coppice, a 280
  hard-wood trees, b 277–9
  history of forestry, b 275
  nursery propagation, a 281–2
  ornamental, deciduous, b 280–1; evergreen, a b 280
  plantations, management of, b 282–3
  roadside and hedge trees, b 279–80
  soft-wood trees, a b, 279
—— (Holly), XII, a b 105; (Teak), XXIII, b 111, b 112
ARBOR VITÆ, tree, II, a 275; in anatomy, I, b 765
ABROATH or Aberbrothock, town, II, a b 284; flags (Geology), X, b 304, a 305
Arbuthnot, Alexander, printer (English Bible), VIII, a 347
——, Alexander, poet (Scotland), XXI, b 567
ARBUTHNOT, John, physician, II, b 284–5; (Gay), X, *b* 107
Arbutus, plant (Botany), IV, b 128, b 131
Arc of circle (Mensuration), XVI, a b 22
—— lights (Lighting), XIV, a 639–70
——, meridian, measurement of (Arago), II, b 263–4; (Boscovich), IV, b 59; (Bouguer), a b 155; (France), IX, b 464; American (Surveys), XXII, a 940
—— of parabola (Mensuration), XVI, b 23–4; of plane curve (Mensuration), b 23. See Arcs
Arc, Joan of. See JOAN OF ARC
——, river (Savoie), XXI, b 347
Arca, genus (Ill.) (Mollusca), XVI, a 711, b 714, b 716, b 717
Arcacea, family (Mollusca), XVI, a 711
Arcachon, bay of (Gironde), X, b 556; town (Oyster), XVIII, a b 112, b 113
ARCADE, covered way (Ill.), II, a b 285; Italian (Architecture), II, *a* 385
ARCADIA, country, II, b 285–6; (Doris), VII, a 319; (Numismatics), XVII, a b 660
—— gulf (Greece), XI, b 74
Arcadia, poems (Lyly), XV, a 106
—— Sannazaro's (Pastoral), XVIII, a 350, a b 351, a 352; (Romance), XX, a 677; (Sannazaro), XXI, b 280
—— Sidney's (Pastoral), XVIII, b 351, a 352; (Sidney), XXII, a 41; (Vega Carpio), XXIV, a 134
Arcadian dialect (Greece), XI, b 118; painting (Heusch), a 700
Arcadians, Academy of, I, a 72; (Crescimbeni), VI, b 502; (Italy), XIII, b 521, b 522, b 523
"Arcadias," clubs (Portugal), XIX, b 572–3
Arcadius, emperor of the East (Alaric), I, a 392; (Roman Law), XX, *b* 729; (Rome), b 797, a 798; (Theodosius I.), XXIII, a *b* 278
Arcagnuola. See ORCAGNA
Arcana, remedies (Medicine), XV, b 818
Arcana Cœlestia (Swedenborg), XXII, a 797
Arcangeli, assassin (Winckelmann), XXIV, b 629
Arcanite (Mineralogy), XVI, b 416
Arcas, legend of (Calisto), IV, a 628
Arcases, dynasty (Georgia, kingdom), X, a 388
Arcella, genus (Protozoa), XIX, a 860, b 865, b 866
Arcesilaus I. to IV., Cyrene, king (Battus), III, b 385–6
ARCESILAUS, philosopher, II, a 286; (Academy), I, b 67; (Carneades), V, *b* 106; (Scepticism), XXI, b 396, a 397; (Stoics), XXII, a 591
——, sculptor (Archæology), II, *a* 320; cylix of (Pottery), XIX, a 630
ARCH (Ill.), II, b 286–91
  elements of calculation, b 286
  horizontal and vertical thrust, b 287–8
  prescribed intrados and extrados, a b 289
  skewed (Ill.), b 289–91
    circular longitudinal section, b 290–1
    elliptic, b 291
  vertical thrust, a b 287
—— (Bridges) (Ill.), IV, a 254, a 273–82; ancient Greek (Architecture), II, a 353; of Augustus (Susa), XXII, a 760; brickwork (Bridges), IV, b 278; (Building), b 400–1; of Claudius (Rome), XX, b 851, note; of Constantine (Rome), b 851; of Fabius Maximus (Rome), a 839; first use of (Architecture), II, b 363; framed or wooden (Bridges), IV, a 282, b 286–8; of Gallienus (Rome), XX, b 851, note; of Hadrian (Athens), III, b 9; hinged (Bridges) (Ill.), IV, b 290–1; invention of (Etruria), VIII, a 560; masonry and metal compared (Bridges), IV, a b 279–82; origin of pointed (Architecture), II, a 370, a 381; pointed (Building), IV, b 401; of Severus (Rome), XX, a 840; of Tiberius (Rome), b 836; of Titus, Rome (Titus), XXIII, b 447; (Rome), XX, a b 851, note
—— of Triumph (Basilica), III, a 358; (Caguola), IV, b 569; (Orange), XVII, a 836; (Rimini), XX, b 570. See Arches
Archæan rocks (Norway), XVII, b 591; (Geology), X, *b* 289–91; (Scotland), XXI, *a b* 543
Archæoceti, fossils (Mammalia), XV, b 398–9
Archæocytes cells (Sponges), XXII, b 435
Archæologia (Dionysius Halicarnassus), VII, a 216
—— *Biblica* (Jahn), XIII, b 552
Archæological Academies, I, b 73; Institute of America (Troad), XXIII, a 617; museum (Edinburgh), VII, a 576; treatises (Gerhard), X, a 398
Archæologists (Antiquities), II, a b 119
ARCHÆOLOGY, (Plate VI), (Ill.), II, a 291–322
  artists and their works, list of, a 321–2
  bronze age, a b 297
  chronological difficulties in primitive, b 292–3
  CLASSICAL, Plate VI (Ill.), b 300–22
    Acropolis of Athens, a b 311, a 312
    Ægina, school of, b 306, b 307
    Apelles, a 318
    architecture, a 304, b 309, a b 314, b 318, a b 321
    Argive - Sicyonian school, a b 316
    Argos, school of, b 306
    Athens, school of, a 307, a 319
    Attic school, new, b 319–20
    bas-reliefs, a 308
    bibliography, a 301–2
    Calamis, a 310
    Chios, school of, a 305
    Cyclopean or Pelasgic remains, b 302
    die-sinking, a 317
    gem-engraving, b 308, a 313, a 317, b 320
    Greek art, rise of an independent, a b 304
    Magna Græcia, school of, b 307

ARCHÆOLOGY, *continued*
  CLASSICAL
    materials for, recovery of, b 300-2
    mosaics, a 321
    Myron, a b 310
    oriental sources of, b 302-4
    painting, b 308-9, a 313, b 317, *b* 320
    Pergamos, school of, b 319
    Phidias and his school, b 310-2
    Polycletus and his school, a 312-3
    Polygnotus, b 313-4
    Praxiteles, b 315
    province of, b 300
    Rhodes, school of, b 319
    Samothrace, reliefs from, a 306
    Scopas, a 315
    Selinus, metopes from, b 305
    Sicyon, school of, a 305, b 306, b 317, a 319
    silversmiths, b 316, a 320
    vases, a 305, a 309, a, 314, b 318
  civilization, stages of, a 299-300
  geological changes and remains, b 293-4
  iron age, b 297-8
  megalithic age, a b 296
  neolithic age, b 295-6
  palæolithic age, b 294-5
  Schliemann's researches, reflections on, b 298
  sources of data for, b 291-2, a b 300
  summary, b 321

—— (Cyprus), VI, b 661, note; (Fife), IX, b 133-4; (Greece), XI, b 136; (Hamilton, Sir W.), XI, a 376; (Horsley, J.), XII, b 212-3; (Kertch), XIV, a 55; (Lysippus), XV, b 121-2; (Raoul Rochette), XX, a 285; (Raphael), a b 294; (Rome) (Plates VI, VII) (Ill.), a 824-59; (Selinus), XXI, a 665-6
—— Celtic (Mirror), XVI, a 525; classical (Böttiger), IV, a b 152; Etruscan (Corssen), VI, a 390; (Mirror), XVI, a 525; Greek (Mirror), XVI, a 525; History, Literature and (Societies), XXII, b 239-40
Archæopteryx, fossil (Birds), III, b 623, b 626; (Birds) (Ill.), b 631-2; (Ornithology), XVIII, b 37, a b 38, a b 40, a 41, b 46, note; (Sauropsida), XXI, b 338
Archagathus of Rome, physician (Medicine), XV, a 812; (Surgery), XXII, a 709
ARCHANGEL, government and town, II, a 322-3; (Russia), XXI, a 76, b 82-3, a *b* 84, *a* 87, a 88, b 93; (Vologda), XXIV, b 303, *a* 304
Archangels, celestial beings (Druses), VII, a 418; (Gabriel), X, b 5
ARCHBISHOP, dignitary, II, a 323-4; (Bishop), III, a b 684, a 685; (Canterbury), V, b 26, a b 28; (Convocation), VI, b 288-93; (Episcopacy), VIII, a 433; (Germany), X, a 422; (Hamburg), XI, b 364-5; (Kalocsa), XIII, a 839; (Peerage), XVIII, b 469
Archdale, John, governor (Quakers in U. S.), XX, b 892
ARCHDEACON, church officer, II, a b 324; (Convocation), VI, b 292, a 293; (Deacon), VII, a 3; (England), VIII, b 198
ARCHDUKE, title, II, b 324; (Prince), XIX, b 757
Archedemus or Archidemus of Tarsus, philosopher (Stoics), XXII, a 599
Archegonia, organs (Algæ), I, b 448; (Botany) (Ill.), IV, a b 143, a 144, a b 146; (Ferns) (Ill.), IX, a 89, a b 92; (Muscineæ) (Ill.), XVII, *a b* 72, *a b* 75, a *b* 76, *b* 78, *a* 79, a 80; (Mosses) (Ill.), XVI, b 78, a 79, a 80
Archegoniata, plants (Reproduction), XX, a b 439, a 440
Archegosaurus, fossil (Amphibia), I, *b* 658, a 660, b 667, a b 668, b 668*, a 676, b 677
Archelaïs, city (Cappadocia), V, *b* 67
Archelaus of Cappadocia, king, V, a 69
ARCHELAUS of Judea, king, II, a 325; (Israel), XIII, a b 436; (Jesus Christ), a 672, notes
ARCHELAUS of Macedon, king, II, b 324
ARCHELAUS, philosopher, II, b 324
ARCHELAUS of Pontus, general, II, b 324
ARCHELAUS of Priene, sculptor, II, a 325
ARCHENA, town, II, a 325
Archencephala, sub-class (Mammalia), XV, a 451
Archenholtz, Johann, historian (Christina), V, a 611
Archenteron, cavity (Evolution), VIII, a 654; (Hydrozoa) (Ill.), XII, *a b* 581, b 592; (Mollusca), XVI, b 655, b 658, b 660; (Tunicata), XXIII, b 652
Archer, F., naturalist (Protozoa), XIX, *b* 866, b 867, *a* b 891
Archer, F. Scott, inventor (Photography), XVIII, b 837, b 938; (Talbot, W. H. F.), XXIII, a 32
——, Henry, inventor (Stationery), XXII, a 478
——, Thomas, journalist (Newspapers), XVII, b 424
Archerina, genus (Protozoa) (Ill.), XIX, a 860, a b 862
ARCHERY (Ill.), II, a 325-31
    associations for, a 327-8
    glossary, b 330-1
    history, mediæval, a 325-6; revival, a 326-7
    practical, b 328-30
    rules for, b 329-30

—— (Agincourt), I, a b 252; (Crete), VI, a 505 note, a 506; (Cricket), a 514; protection of (Gaming), X, a b 60; Scotch (Golf), a 681
Arches in brick walls (Building) (Plate XX) (Ill.), IV, b 415-6; centres for (Building), a 431; discharging (Building) (Ill.), a *b* 416, a 422; oldest known (Architecture), II, a 340, b 343; stone (Building) (Ill.), IV, a b 424; triumphal (Ancona), II, a 11; (Rome), XX, a b 851, note
Arches of Corti (Ear), VII, a 513
ARCHES, Court of the, II, b 331
Archesporium, cells (Muscineæ) (Ill.), XVII, a 79, a b 80
Archetypal man (Kabbalah) (Ill.), XIII, a b 820
Archetypes, eternal (Scholasticism), XXI, b 441, b 445
Archiannelida, sub-class (Worm), XXIV, a b 713, *a* 719
Archias of Thurii, actor (Demosthenes), VII, b 63
Archibuteo lagopus, bird (Buzzard), IV, a 537
Archicembalo, musical instrument (Pianoforte), XIX, b 77
Arci-confraternità, societies (Naples), XVII, a 197
Archidamus (Isocrates), XIII, a b 403
Archidemus of Tarsus, philosopher (Stoics), XXII, a 599
Archidium, mosses (Muscineæ), XVII, a 77, b 78, a 79, b 80, a 81
ARCHIDONA, town, II, b 331
Archigetes, genus (Tapeworms) (Ill.), XXIII, b 54, a b 59, a 60
ARCHIL, purple dye, II, b 331; (Dyeing), VII, b 500; (Lichens), XIV, b 562-3
ARCHILOCHUS of Paros, poet, II, a 332; (Brewing), IV, a 236; (Drama), VII, b 349; (Greece), XI, a 120, *a* b 124; (Satire), XXI, a 333; (Thasos), XXIII, a b 240
ARCHIMANDRITE, dignitary, II, b 332; (Abbey), I, b 17; (Abbot), b 27; (Monachism), XVI, a 726
ARCHIMEDES, inventor and mathematician, II, b 332-3; (Algebra), I, b 493; (Apollonius of Perga), II, b 164; (Aristarchus), a 444; (Astronomy), a 653, b 654; (Conic Sections), VI, a 242; (Euclid), VIII, b 576; (Geometry), X, a 346; (Gunpowder), XI, a 283; (Hydromechanics), XII, a 451; (Infinitesimal Calculus), XIII, a 7; (Micrometer), XVI, a 251; (Numerals), XVII, a 641; (Squaring Circle), XXII, b 450-51; (Syracuse), a b 856
—— equation of (Mechanics), XV, b 707; notation of (Arithmetic), II, a 462; principle of (Hydromechanics), XII, b 457
ARCHIMEDES, SCREW OF (Ill.), II, b 333; spiral of (Infinitesimal Calculus), XIII, a 56, a 57; (Pappus), XVIII, b 234
ARCHIPELAGO, Grecian, II, a 334
——, Indian, XII, b 854-60. See specific names
Archipresbyter, official (Dean), VII, a b 14
Architect, profession (Fine Arts), IX, b 172
ARCHITECTURE (Plates VII-XXIV) (Ill.), II, a 334-419
  American, ancient (Ill.), a 394-6
  Asia Minor, b 351-2
  Assyrian (Ill.), b 348-50
  bibliography, b 400
  color, application of, a 398-400
  Chinese (Ill.), a 392-4
  EGYPTIAN (Ill.), b 336-43
    columns and pilasters, b 342-3
    dwellings, b 343
    entablatures, a 343
    fortifications, a 343
    labyrinth, b 339
    pyramids, a 337-9
    Serapeum, a 339
    sphinxes, a 339
    temples (Plate VII), a 340-2
    tombs, a 339-40
  elements of the art, b 324
  English, modern, a 387-9
  Etruscan, a 362-3
  glossary of terms, a 402-19
  GRECIAN (Plates VIII-XIII), a 352-62
    Cyclopean or Pelasgic (Ill.), a 352-3
    Caryatic order, (Plate XII), b 357, a 361
    choragic monuments, b 360-2
    columnar arrangement of temples, b 359
    Corinthian, (Plate XII), b 356-7
    Doric (Plates VIII-X), b 353-5
    Ionic (Plate XI), a 355
    miscellaneous structures, a 362
    mouldings and ornaments, (Plate XIII), b 357-8
    Propylæa, b 360
    regularity of Doric style, b 358-9
    table of temples, b 353
    tombs (Ill.), a 361-2
  Hindu (Ill.), a 345-8
  INDEX, 401-2
  ITALIAN, modern (Plates XXI-XXIV), a 382-7
    cinque-cento style, b 383
    influence of abroad, a 386-7
    Palladian school, a 385
    Vitruvian five orders (Plate XXIV), b 382
  Jewish, b 343-5
  Persian (Ill.), a 350-1
  POINTED (Plates XVIII-XX), b 369-82

ARCHITECTURE, *continued*
  POINTED
    English (Plates XVIII–XX), a 372-5
    European, b 371
    French, a 376-7
    German, b 377-8
    historical development, b 369-71
    Irish, b 375-6
    Italian, b 380-2
    Lancet or first style, a 374
    Norman or Romanesque, a b 373
    Scotch, a b 375
    Spanish, b 378-80
    transition to geometric, b 374-5
    transition to Lancet, b 373
  prehistoric structures (Ill.), b 335-6
  present position of, a 396-8
  rise of the art, a b 335
  ROMAN (Plates XIII–XVIII), b 363 9
    characteristics, special, b 363-4
    composite (Plate XV), b 365-6
    Corinthian (Plates XIV, XV), b 364-5
    dwellings (Plate XVII), b 367-9
    Ionic and Doric (Plates XV, XVI), a b 366
    miscellaneous structures, b 366-9
    mouldings (Plate XIII), b 366
  Saracenic (Ill.), a 389-92

—— (Æsthetics), I, b 196; (Aberti), a 401; (Archæology), II, a 301, a 304, b 309, a b 314, b 318, a b 321; (Babylonia), III, b 163; (Burmah), IV, a 495; (Cambodia), IV, a 640, a 641, a b 642; (Cambridge), a 644, b 645, a 646-7; (Canina), a 712; (Egypt), VII, a 626, b 629, a 636, a b 668, a 673; (Fathipur Sikri), IX, a 46; (Fellows, Sir C.), a 60; (Fine Arts), b 169, b 171, *b* 175, a b 176, b 177-8; (Fire), a 200; (Fontaine, P. F. L.), b 317; (Fontana, D.), a 318; (Fountain), a 429; (Fresco), b 676, b 680; (Frontinus), a 705; (Gwilt), XI, a b 309; (Lombards), XIV, b 825; (Malta), XV, a b 343; (Mexico), XVI, b 218; (Nikko), XVII, b 516; (Normans), b 564-5; (Numismatics), b 644, a 645 note; (Oak), b 709-10; (Orcagna), b 838-9; (Persia), XVIII, b 642; (Phœnicia), a 823; (Pompeii), XIX, a b 463, a b 464; (Pullman), XX, b 890; (Raphael), a b 293; (Ravenna), b 308-9; (Semper), XXI, a 689; (Verona), XXIV, a 187
——, Assyrian, II, b 348-80; Byzantine II, a 394-5; (Greece), XI, b 100; Central American, II, a 394-6; (Mexico), XVI, b 222; Chinese (Ill.), II, a 392-5
—— Christian (England), VIII, b 253; (Rickman), XX, b 563
—— classical, II, a 352-69; (Palladio), XVIII, b 191-2
—— decadence in mediæval (Rome), XX, a 858; domestic mediæval (Rome), XX, a 857
—— Doric, II, b 353-5; (Pæstum) (Ill.), XVIII, b 137-138; (Selinus), XXI, b 665-6
—— Egyptian, II, b 336-43; (Pyramid), XX, b 128-30
—— Elizabethan (England), VIII, b 307-8; Engineering and (Societies), XXII, b 238 9
—— English, II, a 372-6, a 387-9; (Adam), I, b 128; (Scott, G. G.), XXI, b 569-70
—— Ethnology in, VIII, b 542
—— Etruscan, II, a 362-3; (Etruria), VIII, a b 560, a 562; (Rome), XX, b 826
—— French, II, a 376-7, a b 399; (Hittorff), XII, a 30; (Paris), XVIII, b 296, b 299; (Renaissance), XX, b 402
—— Gothic, II, b 369-82; (Rome), XX, a b 857, note
—— Greek, II, a 352-62; (Hittorff), XII, a 30; (Rome), XX, a b 826-7, note; (Terra-cotta) (Ill.), XXIII, a b 210
—— Hindū (Agra), I, b 255-6; II, a 345-8; (Bramánan), IV, a b 193; (Gaur), X, b 103-4
—— Italian, II, b 380-7; (Pistoia), XIX, a 141; (Venice), XXIV, a 160-9
—— Jain, II, b 346-7; (Abu), I, b 59
—— Mediæval (Hope), XII, a 162; (Wilts), XXIV, b 626
—— modern (Rome), XX, b 858
—— (Mohammedan), II, b 389-92; (Kashi), XIV, a 11; (Samarkand), XXI, a 259
—— Norman, II, a b 373; (England), VIII, b 270-1
—— Peruvian, II, a 395-6; (America), I, a 612
—— Pointed, II, b 369-82; (England), VIII, a 279, b 285; revival of (Pugin), XX, a b 108; rise of (Paris), XVIII, b 293, a 294; practical (Building), IV, a 400; prehistoric, II, b 335-6
—— Renaissance (Paris), XVIII, b 296; Restoration (Paris), b 299
—— Roman, II, b 363-9, b 371-2; (Rome) (Ill.), XX, b 826-7, a b 837; (Terra-cotta), XXIII, a 211
—— Scotch style, II, a b 375; (Glasgow), X, a b 574; Sicilian (Palermo), XVIII, b 173, a 174
—— stone age (Archæology), II, a 296; stone used (Mineralogy), XVI, a 414
—— Tudor, II, a 387; (England), VIII, a 297; works on (Palladio), XVIII, b 191-2; (Parker, J. H.), a 304
Architectural Crosses, VI, b 540-1
—— decoration (Griffin), XI, b 174; English (Terra-cotta), XXIII, a 212; Mediæval (Terra-cotta), a 211-2; sculpture, XXI, a b 585, note, a 586, b 588, a 589. See MOSAICS, MURAL DECORATIONS
Architrave (Architecture), II, a 403; Corinthian (Architecture), a 357, a 365; Egyptian (Architecture), b 341, a 343; Greek Doric (Architecture), (Plates VIII, IX), a 354; Ionic (Architecture), a 356
ARCHITRAVES, joiner's (Building) (Ill.), IV, *b* 440
Architroch, larva (Polyzoa), XIX, b 454
ARCHIVES, II, b 419; (Belgium), III, b 450; (Libraries), XIV, a 509; (Public Records), XX, b 323; French National (Libraries), XIV, a 525; Spanish (Simancas), XXII, b 83
Archives de l' Orient Latin (Provençal Literature), XIX, a 901
Archlute or theorbo (Lute), XV, b 72-3
ARCHON, magistrate, II, b 419-20; (Areopagus), a b 425; (Greece), XI, a *b* 87; (Magistrate), XV, b 217
ARCHYTAS of Tarentum, mathematician, II, a b 420; (Aeronautics), I, b 167; (Automaton), III, a 124
Arciform fibres (Anatomy), I, a *b* 764
ARCIS-SUR-AUBE, town, II, b 420
Arco della Pace, Milan (Cagnola), IV, b 569
——, Filippo, count, general (Marsigli), XV, a 582
Arcola, battle of, 1796 (Napoleon I.), XVII, a 204
Arcometer (Hydrometer), XII, b 570
Arcon, John Claude Eleonor le Michaud d', engineer (Gibraltar), X, *b* 523
ARCOS DE LA FRONTERA, town, II, b 420
——, Don Rodrigo Ponz de Leon, duke of, viceroy (Masaniello), XV, a b 613-4
Arcosolium, tomb (Catacombs) (Ill.), V, b 182
ARCOT, North and South, districts, II, b 420-1; city, II, b 421; (India), XII, *b* 839, a 840; siege of, 1751, II, b 421-2; (Clive), VI, b 9-10
——, Nawáb of (India), XII, *b* 839, b 843
Arcs, graduation of, XI, a 25-8; meridian (Earth), VII, a 516-18, a 523-6
Arctic current (Atlantic), III, a 19, a 20; (Norwegian Sea), XVII, b 607
—— expeditions (Bellot), III, a 474; (Corte-Real), VI, b 390; (Davis), b 743; (Franklin, Sir J.), IX, a b 633, a 634-5; (Geography), X, a 164-5, a b 170, b 171-2, b 174-5; (Greenland), XI, b 148, b 149, b 153; (Hall, C. F.), XI, a 347; (Insects), XIII, a 148; (Kane), a b 847; (Osborn), XVIII, a 58; (Parry), a 330; (Philadelphia), XVIII, b 754; (Scoresby), XXI, a 490
—— fauna (Ichthyology), XII, b 671, a 708, a b 713, b 716, a 721; (Ichthyosaurus), a 734; (Skua), XXII, b 133; (Tern), XXIII, *a* 206
—— flora (Distribution), VII, a b 250; (Grasses), XI, a b 53; (Russia), XXI, a 84
—— Highlanders, tribe (Polar Regions), XIX, b 341
ARCTIC OCEAN, II, a 422; (Siberia), XXII, a 10, a 13, *b* 17; river basin (Russia), XXI, b 80, a 85
—— regions (Meteorology), XVI, b 123; *Account of the,* Scoresby's (Polar Regions), XIX, b 330
—— weather forecasts (Aurora), III, *a* 80; whale, XXIV, a b 552
Arctictis, genus (Mammalia), XV, b 442
Arctinus of Miletus, poet (Greece), XI, a 123; (Homer), XII, a 113, a 116, a 118
Arctium lappa, plant (Thistle), XXIII, b 327
Arctocebus, animal (Lemur), XIV, a 444
Arctoidea, section (Mammalia), XV, b 445-9
Arctomyinæ, family (Marmot) (Ill.), XV, b 566-8
Arctomys, rodent (Mammalia), XV, a b 422
Arctonyx, genus (Assam), II, a 630; (Mammalia), XV, b 446
Arctopithecus, genus (Sloth), XXII, b 171
Arcuate fibres (Anatomy), I, a 772
Arcueil, village (Aqueduct), II, a 194
Arculph or Arculfe, bishop (Sepulchre, Holy), XXI, b 704-5
Arcus senilis, disease (Ophthalmology), XVII, b 803
Arcyriaceæ, family (Protozoa), XIX, a 863
Ardabil, town. See ARDEBIL
Ardaburius, general (Marcian), XV, b 540-1
"Ardagh cup" (Filigree), IX, a 144
Ardahan, town (Transcaucasia), XXIII, b 547
Ardaric, king of Gepidæ (Huns), XII, b 397
Ardashir I. or Ardeshir, king (Artaxerxes), II, a 561 2; (Persia), XVIII, b 573, a 617, a 618-9
—— II., king (Persia), XVIII, b 620-1
—— III., king (Persia), XVIII, a 626
Ardavan. See ARTABANUS
Ardbear harbor (Galway), X, a 51
ARDEA, city, II, a 422; (Latium), XIV, *b* 344
—— megacephala, bird (Mauritius), XV, b 647
ARDEBIL or Ardabil, town, II, a b 422; (Persia), XVIII, a b 645, a 646
ARDÈCHE, department, II, b 422; river (Rhone), XX, a 543
Ardeidæ, family (Birds), III, *b* 617, a 629, b 631, b 648; (Herons), XI, b 679-81

ARDELAN, province, II, b 422
Ard el Bathanyeh, district (Bashan), III, b 354
Arden district (Shakespeare), XXI, a 774-5, *b* 789
——, family, history of (Shakespeare), XXI, b 783
——, Edward, conspirator (Shakespeare), XXI, a b 790
——, Mary, ancestress (Shakespeare), XXI, b 781, *b* 782, a 783-4, a b 785, a 790, b 801, b 802
ARDENNES, department of, II, b 422-3; Forests, IX, a 352; (Meuse), XVI, a b 213; mountains (Belgium), III, a 444
Ardennite (Mineralogy), XVI, b 444
Arderidd, battle of (Arthur), II, a b 568, b 569
Ardeshír. See ARTAXERXES and Ardashír
Ardern, hill (Queens County), XX, a 177
ARDFERT, village, II, a 423
ARDGLASS, town, II, a b 423
Ardjari, town (Transcaucasia), XXIII, b 547
Ardmore, town (Waterford), XXIV, *a* 423
ARDOCH, parish, II, b 423
Ardoin or Arduinus, king (Italy), XIII, b 480; (Ivrea), XIII, b 535
Ardon river (Caucasus), V, b 220, a b 221, a 223
Ardrah kingdom (Dahomey), VI, b 675
ARDRES, town, II, b 423
ARDROSSAN, town, II, b 423; harbor of (Ayr), III, a 142
Ardsullas river (Clare), V, b 701
Ardutius, bishop (Geneva), X, b 133
Are, historian (Japan), XIII, b 596-7
—— land measure (Weights and Measures), XXIV, b 517
Area of annulus (Mensuration), XVI, a 23; of circle (Mensuration), b 22, b 23; of circular zone (Mensuration), a 23; of ellipse (Mensuration), a b 24; of irregular curvilineal figures (Mensuration), b 25-6; of irregular rectilineal figures (Mensuration), b 25-6; of lune (Mensuration), a 23; mensuration problem of (Geometry), X, a 343; of parallelogram (Mensuration), XVI, a 19; of polygon (Mensuration), b 20, b 25; of quadrilateral (Mensuration), b 19-20; of rectangle (Mensuration), a b 18; of sector of circle (Mensuration), XVI, b 22, b 23; of sector of circular ring (Mensuration), a 23; of segment of circle (Mensuration), a 23; of trapezium (Mensuration), b 19; of triangle (Mensuration), b 18-9; (Trigonometry), XXIII, a 601
——, standards of (Weights and Measures), XXIV, a 512
Areas described by radius vector (Mechanics), XV, a 691; parabolic and elliptic (Projection), XIX, b 819
Areca palm (Betel Nut), III, b 532; (Catechu), V, a 192
Ared, district (Arabia), II, a b 209, b 221
Arekha, scholar. See RAB
Arelate, town. See ARLES
Arem, flood of (Arabia), II, a 223
AREMBERG, town, II, b 423-4
——, House of, II, a 424
—— Meppen, Dukedom of, II, *a* 424
Arena (Amphitheatre), I, a b 680
—— chapel, Padua (Architecture), II, b 398
Arenacea, group (Foraminifera), IX, a 328-9
Arenaria, plants (Horticulture), XII, b 257
——, sand-pits (Catacombs) (Ill.), V, a b 185
Arenarius (Archimedes), II, *b* 333
Arenas Gordas, tract (Spain), XXII, a 307, b 363
Arenation (Baths), III, b 379
ARENDAL, town, II, a 424
Arendalite, mineral, II, a 424
Arenicola, worm (Annelida), II, a 59, a 60, a 61, b 63
Arenig-fawr, mountain (Merioneth), XVI, *b* 43; rocks (Geology), X, a 292, b 293, b 294
Arensburg, town (Oesel), XVII, b 752
Arenskrone, town (Deutschkrone), VII, b 116
Areoi, sect (Polynesia), XIX, b 439
Areola, margin (Vaccination), XXIV, *a* 31
Areometrical beads (Hydrometer), XII, a 568
Areopagitica, writings (Dionysius, the Areopagite), VII, a 216; (Hincmar), XI, b 746; (Milton, John), XVI, a b 342, a 351; (Press Laws), XIX, a b 729, b 732
Areopagiticus (Isocrates), XIII, a b 401
AREOPAGUS, II, a 424-6
    Council of, a 426
    historical organization, b 424
    jurisdiction of court, a 424
    legendary history, a b 425
    prosecution, mode of, b 425

—— (Archon), II, a 420; (Athens), III, a b 3, b 8; (Greece), XI, b 87, a 91; (Pericles), XVIII, b 541, note; (Solon), XXII, a 268; modern (Greece), XI, b 77
Arepas, food (Venezuela), XXIV, b 151
AREQUIPA, department, II, b 426; (Peru), XVIII, a 684
—— town, II, b 426; (Peru), XVIII, *a* 685, b 687; mountain (Andes), II, a 17, b 426
ARES, god (Ill.), II, b 426-7; (Aphrodite), b 151; (Areopagus), a *b* 424; (Mars), XV, b 576; (Mythology), XVII, *a* 161; (Scythians), XXI, *a* 603
—— festival of (Pilgrimage), XIX, b 99; fountain of (Thebes), XXIII, a b 249
Areschoug, Frederick Wilhelm Christian, botanist (Distribution), VII, a 251
Areskutan, mountain (Sweden), XXII, b 774
ARESON, Jon, poet, II, b 427-8
Aretas, king (Nabatæans), XVII, a 167
ARETÆUS of Cappadocia, physician, II, a 428; (Anatomy), I, b 703; (Diphtheria), VII, b 217; (Medicine), XV, a 814
Arete, female philosopher (Aristippus), II, b 445
ARETHUSA, cities, II, a 428; fountain, a 428; (Syracuse), XXII, b 852, b 856; lake, II, a 428
——, frigate (Bristol), IV, b 316
Aretino, Guido. See GUIDO of Arezzo
——, Leonardo. See BRUNI
ARETINO, Pietro, satirist, II, a 428; (Drama), VII, b 360, a 362; (Robusti), XX, a 625; (Titian), XXIII, a b 442, a 444
Arevaci, tribe (Spain), XXII, a 321
Arevareva, skin disease (Kava), XIV, a 20
AREZZO or Aretium, city, II, b 428; (Dante), VI, b 713, b 714, a 715; (Etruria), VIII, b 558; (Schools of Painting), XXI, b 454, b 462; (Siena), XXII, b 46. See also UNIVERSITY
Arfak, mountains (New Guinea), XVII, b 397
Arfvedson, Johan A., chemist (Lithium), XIV, a 703
Arfvedsonite (Mineralogy), XVI, b 425
Argæus, mountain (Asia Minor), II, b 616; (Cappadocia), V, *b* 67; (Turkey), XXIII, a 695
Argall, Samuel, captain (Smith), XXII, b 185 note
Argalus and Parthenia (Quarles), XX, b 165
ARGAM or Argaum, village, II, b 428
Argan, tree (Morocco), XVI, b 859
Argand, Aimé, mathematician (Algebra), I, a 455; (Quaternions), XX, *b* 167-8
—— burner (Gas and Gaslighting) (Ill.), X, a b 89, *a* b 90; (Lamp) (Ill.), XIV, a b 246-7; (Magic Lantern), XV, b 212
Argandab, river (Kandahar), XIII, a 845, a 846
Arganeh M'adan, river (Tigris), XXIII, a 413
Argaum, town of Armenia (Paulicians), XVIII, b 444
Arge galathea, species (Butterflies), IV, a 530
ARGELANDER, Frederick Wilhelm August, astronomer, II, b 428; (Micrometer), XVI, a 258 note, a 266; (Photometry), XVIII, a 855
Argelès, town (Pyrénées), XX, b 133
Argenis (Barclay), III, *a* 318
Argens, river (Var), XXIV, *b* 75
ARGENSOLA, Bartolomeo Leonardo, poet, II, a 429; (Moluccas), XVI, a 723
—— Lupercio Leonardo y, poet, II, b 428-9
Argenson, Marc Pierre, count de, politician (Law, J.), XIV, b 367, a b 368
ARGENTAN, town, II, a 429
Argentaro, mountain (Italy), XIII, a 448, a 450
Argentella lace (Ill.), XIV, a b 187
ARGENTEUIL, town, II, a 429; (Bridges) (Ill.), IV, a b 294; (Seine-et-Oise), XXI, *b* 656
Argenteus, coin (Numismatics), XVII, *a* 671; (Weights and Measures), XXIV, a 515
Argentiera, island. See Cirnolos
Argentiére, Col del' (Alps), I, *a* 548
Argentille or Argantel, mythical queen (Romance), XX, b 674
Argentina, fish (Salmonidæ), XXI, a 232, b 234
ARGENTINE REPUBLIC (Plate XXV), II, a 429-36
    boundaries, a 429
    Buenos Ayres, wars of, a-b 432
    climate, a 430
    history of discoveries, b 430
    government of, a 435
    Indians of, a 434-5
    industries of, b 435
    Paraguay, war with, a b 433
    physical features of, b 429
    population, a 435
    political divisions, a 434
    Spanish colonies, history of, a 431-2
    struggle for independence, a 432

—— (America), I, a 590, b 625; (Buenos Ayres), IV, b 393, a 394, b 395; (Cattle), V, a 214; (Library), XIV, b 535-6, a 554; (Mining), XVI, b 493; (National Debt), XVII, a b 254; (Patagonia), XVIII, b 356, b 357-8; (Press Laws), XIX, a 732; (Rosario), XX, b 870-1
—— fossils (America), I, b 599; law of (Patents), XVIII, b 362
Argentite (Mineralogy), XVI, a 395, a 408
Argentoratum, town. See STRASBURG
Argha Honey. XII, a 141
Arghand-âb, river (Afghânistân), I, b 205, a 206
Arghoul, musical instrument (Oboe), XVII, a 727
Arghun Khan of Persia (Polo), XIX, b 419
Arginusæ, battle of, 406 B.C. (Hellanicus), XI, a 566; (Theramenes), XXIII, a 301
Argippæi, people (Scythia), XXI, b 602
Argive alliance (Numismatics), XVII, b 659; chiefs against Thebes, VIII, b 423-4; Sicyonian school (Archæology), II, a 316-7
Argob, district (Bashan), III, a 354

ARGOL, crude tartar, II, b 436; (Cream of Tartar), VI, a b 492; (Tartaric Acid), XXIII, a 75; (Wine), XXIV, a b 634
Argolic dialect (Greece), XI, a 119
Argolica (Hellanicus), XI, a 566
Argonauta, genus (Cuttle-Fish) (Ill.), VI, a 651, *a* b 652, a 653; (Mollusca), XVI, a 696, b 709, a 710
Argonautica, books (Apollonius Rhodius), II, a 164; (Flaccus), IX, *a* b 240; (Glaucus), X, a 603; (Map), XV, a 523
ARGONAUTS, legend, II, b 436–7; (Homer), XII, b 122; (Lemnos), XIV, a 437; (Medea), XV, a b 787; (Thera), XXIII, b 300; (Thessaly), a 320; (Volo), XXIV, a 303
ARGONNE, plateau, II, b 437; (Marne), XV, a 568
ARGOS, city, II, b 437–8; (Cleomenes), V, b 720, a 721; (Greece), XI, a 77, b 84, a 85; a b 90; (Hera), a b 606; (Numismatics), XVII, a 660; school of (Archæology), II, b 306
—— Amphilochium, city (Ambracia), I, b 581
ARGOSTOLI, city, II, a 438; (Cephalonia), V, b 298, *a* 299
Argosy, vessel (Illyria), XII, b 748; etymology of (Ragusa), XX, b 228; magazine (Wood), XXIV, *b* 678
ARGOVIE. See AARGAU
ARGUIN island, II, a 438
Argulidæ, family (Crustacea), VI, a 588
Argumentum ad bacillum (Diogenes, Cynic), VII, b 214
Arguñ river (Amoor), I, b 654; (Siberia), XXII, *a* 9, a 10; (Transbaikalia), XXIII, a 542, *a* 543
—— river (Caucasus), V, a 222
ARGUS, legend of, II, a 438; Panoptes (Io), XIII, a 208
Argusa, city. See RAGUSA
Argus-pheasants (Peacock), XVIII, b 454
ARGYLL or Argyle, Earls and Dukes of, II, a 438–9; (Argyllshire), b 440
——, Archibald Campbell, first duke, II, b 438
——, Archibald Campbell, third duke, II, a 439
——, Archibald Campbell, fourth earl of (Scotland), XXI, a b 520, b 522, a 523, a 524, b 525, a 526, b 528
——, Archibald Campbell, eighth earl and first marquis, II, a 438; (Montrose), XVI, a b 822; (Scotland), XXI, a *b* 535, b 536, b 537
——, Archibald Campbell, ninth earl, II, b 438; (Monmouth), XVI, a b 783; (Scotland), XXI, b 537, *a* 539
——, John Campbell, second duke, II, 1703–43, II, b 438; (Marshal), XV, a b 581; (Rob Roy), XX, *a* 624
——, see of (Lismore, island), XIV, b 700
ARGYLLSHIRE, II, a 439–41; (Scotland), XXI, a 544, *b* 545, b 546, a *b* 551, b 557
—— settlement of (Ireland), XIII, b 252–3; (Scotland), XXI, a 506, a 507
Argynnis, genus (Butterflies (Plate XXVIII), IV, a 530
Argyrite (Mineralogy), XVI, a 361
ARGYRO-CASTRO, town, II, a 441
Argyroneda, spider (Arachnida), II, a 258, b 261, a 262
ARGYROPULUS, Joannes, translator, II, a 441; (Greece), XI, *a* 133
Ari, historian (Iceland), XII, a 659, a b 660
ARIADNE, myth, II, a 441
Ariadne (Dannecker), VI, b 712
—— *Florentina* (Engraving), VIII, b 396
Arialdus, deacon (Patarenes), XVIII, a 359
Ariál Khán, river (Bákarganj), III, b 213
Arian races. See Aryan
Ariana, country (Afghânistân), I, *a* b 214; (Aryan), II, b 589
—— city (Herat), XI, a 637, b 638
Arianism, doctrinal system (Constantine I.), VI, a b 268; (Doxology), VII, b 332; (England, Church of), VIII, a 339; (Eunomius), b 585; (Eusebius), a 633–4; (Flavian I.), IX, b 255; (George of Cappadocia), X, b 385; (Goths), a b 754, a b 755, a 756, a 757; (Heresy), XI, b 656, b 658; (Hosius), XII, a 314; (Hymns), a b 614; (Jesus Christ), XIII, b 681, *a* 682; (Mary), XV, b 597, note, a 598; (Popedom), XIX, a b 505, b 506. See ARIUS and ATHANASIUS
ARIANO, town, II, a 441
—— -Páli (Inscriptions), XIII, b 124
Arians, sectaries (Aëtius, bishop) I, a 202; (Ambrose, St.), I, b 582, a b 583; (Gregory of Nyssa), XI, b 161; (Hilarius, Poitiers), a b 726; (Nestorius), XVII, b 364; (Theodoric), XXIII, b 276; (Ulfilas), *a* b 767; (Unitarianism), *a* 773; conversion of (Spain), XXII, b 323
Ariantas, king (Scythia), XXI, a 605 note
Ariarathes I. to IX., kings (Cappadocia), V, b 67, a 68–9
ARIAS MONTANUS, Benedictus, Orientalist, II, b 441
'Aríb of Cordova, historian (Tabarí), XXIII, a 8
Aribau, Buenaventura Carlos, poet (Spain), XXII, b 378
Aribo, musician (Pianoforte), XIX, *a* 73
ARICA, town, II, b 441; (Peru), XVIII, b 687, a 688, b 692
Arichandra (Drama), VII, a 344
Aricia, city (Latium), XIV, *b* 344
Aridæ (Birds), III, a 651, b 652
Aridosio (Medici), XV, a 799
ARIEGE, department, II, b 441; river (Pamiers), XVIII, b 207
Aries, first point of (Astronomy), II, b 668–9; sign of Zodiac, XXIV, a 829, *a* 830, note, a 831, *a* 834
Ariina, fishes (Ichthyology), XII, b 711, a 731
Arikarees, tribes (Indians), XII, b 866, a b 872
Arikha or Arikho. See RAB
Arilla, Martina de, nun (Stigmatization), XXII, b 577
Arillus of seed (Botany), IV, a 140
Arimanes. See AHRIMAN
Arimaspea (Aristeas), II, a 444
Arimaspians, people (Scythia), XXI, a 604
Ariminum, city (Rome), XX, a 767; province (Rimini), b 570
Ariobarzanes, I. and II. kings (Cappadocia), V, b 68–9; II., king, Atropatene (Persia), XVIII, a 611
—— of Cappadocia, prince (Sulla), XXII, b 665
——, general (Persepolis), XVIII, b 570
——, Hellespontine satrap (Persia), XVIII, b 590, note
——, satrap of Pontus, XIX, b 473
Arion, genus of slug (Mollusca) (Ill.), XVI, b 684, a 685, b 686; (Snail), XXII, a 198
——, horse (Ceres), V, b 300
ARION, poet, II, a 442; (Drama), VIII, b 349; (Greece), XI, b 124
Ariosto, Gabrielle, poet, II, a 443
ARIOSTO, Lodovico, II, a 442–3; (Drama), VII, b 361–2; (Italy), XIII, a 516, b 519, a 520; (Titian), XXIII, b 444
Ariovistus, German chief (Cæsar), IV, a 565; (Germany), X, b 426
Arippu, town (Ceylon), V, *a* 316
Arisba, town (Lesbos), XIV, b 474
Arisbava or Arosbava, town (Madura), XV, b 194
Aristolochia, plant (Guaco), XI, *b* 202
Arista, Mariana, Mexican general (Taylor, Z.), XXIII, a 928
Aristænetus, letter-writer (Romance), XX, a 652; (Sheridan), XXI, a 834
ARISTÆUS, god, II, b 443; pseudo (Temple), XXIII, b 183–4
Aristagoras of Miletus, tyrant (Cleomenes), V, b 720; (Geography), X, b 158; (Greece), XI, *a* 89; (Persia), XVIII, a b 582
ARISTANDER, soothsayer, II, b 443
Aristarchus of Athens, lawgiver (Ephesus), VIII, b 414
ARISTARCHUS of Samos, astronomer, II, a 444; (Astronomy), a b 654
ARISTARCHUS of Samothrace, grammarian, II, b 443; (Gloss), X, a 612; (Grammar), XI, a 39; (Greece), b 122, *a* 123, a 128; (Homer), XII, *a b* 118
ARISTEAS of Proconnesus, II, a 444; (Scythia), XXI, a 602, *a* 604
Aristeas, Letters of (Septuagint), XXI, b 699–700
Aristeia of Diomede (Homer), XII, a 114, note, b 121
ARISTIDES the Just, II, a 444–5; (Archon), b 419; (Greece), XI, *b* 89, b 90. a 91; (Themistocles), XXIII, b 269
—— of Miletus, tale-writer (Romance), XX, *a* 650
ARISTIDES, Ælius, rhetorician, II, a 445
ARISTIDES, Quintilianus, musician, II, a 445
ARISTIDES of Thebes, painter, II, a 445; (Archæology), a 318
Aristillus of Alexandria (Astronomy), II, a 654
Aristion, conspirator (Athens), III, a 6, a 9
——, mentioned by Papias (Gospels), X, b 725, note, a 726 note, *b* 747
——, stele of (Archæology), II, a 308
ARISTIPPUS of Cyrene, philosopher, II, a 445; (Cyrenaics), VI, a 662; (Ethics), VIII, a 510, a 516; (Horace), XII, b 166; (Socrates), XXII, *a* 250
Aristippus the Younger, II, b 445
ARISTO or Ariston of Chios, philosopher, II, a 446; (Stoics), XXII, *a* 591, b 596, *a b* 597, b 599
ARISTOBULUS of Alexandria, philosopher, II, b 446; (Alexandrian School), I, b 441; (Logos), XIV, b 813; (Philo), XVIII, a b 774; (Septuagint), XXI, a 700
ARISTOBULUS of Cassandria, general, II, a b 446
—— I., Jannæus, high priest (Israel), XIII, a *b* 434
Aristocles, philosopher (Messina), XVI, b 62, note; (Peripatetics), XVIII, a 558
——, sculptor (Archæology), II, b 306, a 308
Aristocracy (Brazil), IV, b 211; (Geneva), X, a 135; (Government), XI, a b 11; (Greece), a 90, a 97; (Nobility), XVII, a 538, b 541, a 542
—— Arab merchant (Palmyra), XVIII, a 203, b 204; Austrasian (Germany), X, *b* 428–9; Byzantine (Andronicus I.), II, b 22; (Greece), XI, a b 104, a 105; decadence of the (Italy), XIII, b 486; encroachments of (Venice), XXIV, b 154, *b* 155; English, and the crown (Government), XI, b 15–16; feudal (Genealogy), X, a 129; French (Presbyterianism), XIX, *a* b 714; growth of (Switzerland), XXII, a b 831; mediæval

Aristocracy, *continued*
Rome, XX, a 800, b 807; Sawaiori (Polynesia), XIX, b 438-9; Saxon (Parliament), XVII, a 308; Southern (United States), XXIII, a 806, b 817
Aristocrates, Speech Against (Demosthenes), VII, a 61
Aristocratic incompetency, British (United States), XXIII, b 783; party (Geneva), X, *a* 135
Aristodemus, tyrant (Cumæ), VI, a 615
Aristogiton, hero (Harmodius), XI, *a* 420
Aristolochia, plant (Botany), IV, *b* 91, a b 122, a 123; (Guaco), XI, b 202; (Snake-root), XXII, a 199
Aristomenes, hero (Messene), XVI, a 57, b 58
Ariston of Julis, philosopher (Aristo), II, a 446
ARISTOPHANES, poet, II, b 446-8
  comedy, schools of, b 446-7
  early years, b 446
  first period, or political satire, a b 447
  second period, restrained satire, b 447-8
  third period, transition to middle comedy, a 448
  lost plays of, a b 448

—— (Æschylus), I, *b* 188; (Cleon), V, b 721; (Coleoptera), VI, b 119; (Cratinus), a 491; (Drama), VII, b 350, b 351, *a b* 352, a 354; (Eupolis), VIII, a 590; (Euripides), b 590-1; (Frere, J. H.), IX, a 675; (Gassendi), X, b 95; (Greece), XI, a b 118, a b 119, b 125-6; (Phrynichus), XVIII, b 868; (Satire), XXI, b 333; (Slavery), XXII, *a* 139; (Sophocles), *b* 284; (Women), XXIV, a 908; (Wycherley), a 743
ARISTOPHANES of Byzantium, critic, II, b 448; (Dictionary), VII, a 158; (Gloss), X, a 612
Aristophon, painter (Archæology), II, a 314
Aristotelianism (Averroes), III, a b 130, a 132; (Epicurus), VIII, b 420; (Eschatology), a 473; (Gassendi), X, b 95; (Gennadius), X, a 138; (George of Trebizond), b 386; (Galileo), a b 29, a 30, b 33; (Logic), XIV, *a b* 790-8; (Peripatetics), XVIII, a 556-8
—— Eastern (Arabian Philosophy), II, b 232, *b* 233, *a* b 234; (Syriac Literature), XXII, b 871, note, a 875, b 878, a 881, b 883, b 887, b 898
ARISTOTLE, philosopher, II, a 448-60
  biography of, b 449
  Catalogue of Diogenes Laertius, a b 451
  Ethics, Nicomachean, b 451, a 455
  history of Aristotelianism, b 459, a 453
ARISTOTLE, *continued*
  history of philosophy, a 458
  idealism of, a 458, a 459
  library of, its fortunes, a 450
  Metaphysics of, b 457
  Organon, the, b 453
  physical philosophy of, a 457
  Plato's influence on, a 449
  Poetry, b 456
  Politics, b 455
  Rhetoric, b 454
  scientific position of, b 456
  works of, doubtful, b 452; genuine, a 453; spurious, a 452, a 453

—— (Abelard), I, a 38, b 39; (Acciajuoli), b 79; (Acosta), a 93; (Æsthetics), a 192, a 193-5; (Agrarian Laws), b 256; (Albertus Magnus), *a* 402; (Alchemy), a 408, a 411, a 413; (Alexander of Aphrodisias), b 429; (Alexander the Great), a 425, a 428, a 429; (Al-Farabi), a 443; (Ammonius), b 651-2; (Analogy), a b 694; (Analysis), b 695, a b 696, b 697, *b* 699; (Anatomy), a 702-3; (Aquinas), II, b 202; (Archytas), b 420; (Arthropoda), a 566; (Astronomy), b 653; (Atom), III, b 33; (Avicenna), b 134; (Axiom), *b* 137, a 138, a b 140
—— (Britannia), IV, a 318; (Butler, Bishop), b 521-2
—— (Category), V, b 193, *a* b 194-5; (Chemistry), b 397
—— (Drama), VII, *b* 340, a *b* 341, a 342, a 349, b 351, a 352, b 353; (Dream), b 392, a 393
—— (Ethics), VIII, a 512-4; (Eubulides), b 570; (Evolution), *a* 652, a b 653, b 662-3
—— (Federal Government), IX, a 55; (Fine Arts), b 176, a b 177
—— (Gemistus), X, a 122; (Government), XI, a b 11, a 15; (Grammar), a 39; (Greece), b 122, a 123, b 127, b 133; (Grote), a b 192
—— (Hamilton, Sir W.), XI, b 375; (Harvey), b 449, *b* 451, a 452; (Homer), XII, *a* 118, a 121
—— (Ichthyology), XII, b 666-7; (Isocrates), XIII, b 400, a 401, b 403; (John of Salisbury), b 729
—— (Libraries), XIV, b 509-10; (Light), b 581
—— (Metaphysic), XVI, a 85-6, a 87, a 90, b 95-6, b 97, a 98, b 99, a 100-1, a 103, b 104, b 107; (Metempsychosis), b 112; (Money), b 750, a 753, b 764; (Morphology), b 863, a 868; (Mysteries), XVII, a 133; (Mythology), a 144
—— (Ornithology) XVIII, b 6, a 7; (Parrot), a b 327; (Periander), b 539; (Philosophy), b 805; (Physiognomy), XIX, b 7, a 8, a b 9; (Poetry), b 270; (Political Economy), b 362-3
—— (Ramus), XX, a b 280; (Reptiles), a b 445; (Rhetoric), a b 523, a 524-8
—— (Salamandra), XXI, a 215 note; (Scythia), a 605; (Slavery), XXII, a b 139; (Speusippus), b 411, a 412; (Stoics), b 591, *a* 596
—— (Tape-worms), XXIII, b 54; (Thales), a 237; (Theophrastus), *a* 297; (Tithes), b 438; (Torture), a 491; (Trendelenburg), a b 577; (Troad), a 617; (Tunicata), a 647
—— (Wycherley), XXIV, a 743; (Xenophanes), a *b* 755, a 756; (Zinc), a 823; (Zoology), b 858
—— acquisition of works of (Scholasticism), XXI, b 443-4; on the brain (Phrenology), XVIII, b 856; Church and (Arabian Philosophy), II, a *b* 236; classification of animals (Zoology), XXIV, b 842-3; Commentaries on (Aspasius), II, b 624; *Ethics* of, VIII, a 506, b 512-4; ideal city of (Finance), IX, a b 150; lantern of (Echinodermata), VII, a 546; mediæval influence of (Scholasticism), XXI, b 435, a 436, *a b* 437, a b 441, b 445, *a* 446; on painting (Archæology), II, a 314
—— reaction against (Ethics), VIII, b 524; (Scholasticism), XXI, b 444
—— on reminiscence (Association of Ideas), II, *b* 638, a 639; theology of (Theism), XXIII, b 257-8
ARISTOXENUS of Tarentum, philosopher, II, a 460; (Peripatetics), XVIII, a 557; (Socrates), XXII, a 246; (Music), XVII, a 86
Arisu, chief (Egypt), VII, b 641
ARITHMETIC, II, a 460-71
  notation, b 461, b 462-3
  primitive conceptions of numbers, b 460
  addition, a 463
  compound computation, b 468-9
  compound proportion, a 470
  decimals, a 466-7
  division, b 463
  fractions, b 464-7
  measures, a 464
  multiples, a 464
  multiplication, b 463
  numeration, a 463
  roots and powers, b 467
  subtraction, a 463
  percentage, b 470
  practice, b 469
  proportion, b 469-70
  reduction, compound, b 468-9
  standard units of measures, a 468, note

—— (Algebra), I, a b 51; (Cocker), VI, a 91; (Mathematics), XV, a b 636; *Elements of* (De Morgan), VII, a 58
Arithmetica Infinitorum (Squaring the Circle), XXII, b 452; (Wallis), XXIV, b 352; *Logarithmica* (Napier), XVII, *b* 187, a 188; *Universalis* (Newton), a 458
Arithmetical means (Statistics), XXII, b 482-3; proportion, II, b 469-70; (Algebra), I, a 473
Arithmometer (Annuities), II, a 67
ARIUS, theologian, II, a 471-2; (Athanasius), b 725; (Creeds), VI, b 495-6; (Egypt), VII, b 648-9; (Eusebius), VIII, a b 633, *a b* 634; (Jesus Christ), XIII, b 681; burning books of (Bibliography), III, b 569
——, fish (Ichthyology) (Ill.), XII, b 698, a 699, a 707, b 712, a 713, b 715; (Siluridæ), XXII, a 75
Ariusia, district (Scio), XXI, a b 487
ARIZONA, territory (Plate), II, b 472-3; (Mining), XVI, a 492; (Turquoise), XXIII, b 712; statistics (United States), b 853, a b 855, a 856, *a* 857, *a b* 861, *a b* 862, *b* 868, b 869, a b 870, *a* 873
Arjar mountains (Transcaucasia), XXIII, a 547
Arjun Mal, Sikh chief (Punjab), XX, *b* 116-7
ARK OF THE COVENANT, II, a b 473; (David), VI, b 738-9; (Israel), XIII, b 408, b 410, b 412, a 414, a 415; (Tabernacle), XXIII, b 9, a 10
—— OF NOAH, II, a 473; (Astrology), II, a 649; (Deluge), VII, *a b* 49; (Kúrdistán), XIV, a 157, note
Arkam ben Abí Arkam, Prophet's friend (Mohammedanism), XVI, a 572, note
ARKANSAS, State (Plate), II, b 473-4; (Universities), XXIII, a 913, a b 953
—— history (United States), XXIII, b 811, b 813, b 821, a 823, note, b 826, b 829; statistics (United States), b 853, a *b* 857, *a b* 860, a 863, b 864, b 876, a 878
——, river (Colorado), VI, b 145; (Indian Territory), XII, b 874; (Kansas), XIII, a 852; (Mississippi), XVI, a b 542
Arkansite (Mineralogy), XVI, b 402
Arkel, countship (Gorcum), X, a 695
Arkhangelsk cathedral (Moscow), XVI, a 884, a 887
ARKLOW, town, II, b 474; (Wicklow), XXIV, a b 588, *a* 589
Arksutite (Mineralogy), XVI, b 399
ARKWRIGHT, Sir Richard, inventor, II, b 474-6; (Cotton), VI, a b 435, b 443; (Patents), XVIII, a 360; (Yarn), XXIV, a 767
Arlberg, mountain (Vorarlberg), XXIV, a 318; Tunnel, XXIII, *b* 664
Arlecchino. See Harlequin
ARLES, city, II, a 476; (Cloister), VI, a 36
—— kingdom of (Burgundy), IV, a 479
Arlington, town (Cambridge, U. S.), IV, b 647
——, Henry Bennet, Earl of (Bennet), III, b 495; (Post-Office), XIX, a 580

ARLON, city, II, b 476
Arlotti, Jacopo, Captain (Rome), XX, a b 816
Arly, river (Savoie, H.), XXI, a 348
Arm (Anatomy), I, b 724-5, b 729, a 730; (Ape), II, a b 141; (Cuttle-Fish), VI, b 619; Dibranchiata (Mollusca), XVI, a b 694, a b 695, a b 700
—— bloodvessels of (Anatomy), I, b 793, a 794, b 795; bones of (Skeleton), XXII, b 124, a b 125-6; joints and muscles of (Anatomy), I, b 735-6
ARMADA, Spanish, II, b 476-7; (Drake), VII, a 338; (Orkney), XVII, a 872; (Philip II.), XVIII, b 759; (Scotland), XXI, b 527
ARMADILLO (Ill.), II, b 477-8; (Mammalia), XV, b 374, a b 387, *b* 389, a *b* 390, a b 391; Skeleton), XXII, a b 116, *a* b 120, b 121, *a* 126; (Smell), b 176; (Uruguay), XXIV, b 19
—— anatomy of (Mammalia) (Ill.), XV, a 351, a 355, a 358, a 359, a 360, a 361, b 363; digestive system of (Mammalia), a 365; fossil (Zoology), XXIV, b 926
—— wood louse (Crustacea) (Ill.), VI, *b* 582
Armagáon, factory (India), XII, a b 838
Armagh, Book of, MS. (Ireland), XIII, a 253; (Palæography), XVIII, b 162; (Patrick, St.), b 422
ARMAGH, county, II, a 478-9; city, *a* 479; (Libraries), XIV, a 523, b 542; (Malachy, St.), XV, *a* 318; (Observatory), XVII, b 730-1; see of (Archbishop), II, a 324; (Ireland), XIII, b 256-7
ARMAGNAC, district, II, a 479
——, Bernard, count d' (John I., Aragon), XIII, b 726
——, house of (Paris), XVIII, a 296
—— liquor (Brandy), IV, b 194
Armagnacs, party (Charles VI. and VII. of France), V, *a* 356; (France), IX, b 483, *a b* 484, a 485
Armaiti, angel (Zoroaster), XXIV, b 861, a 862
Armament, mediæval (Navy), XVII, b 290; of Europe (Balance of Power), III, b 234
Armannu or Susinak, god (Elam), VII, a 690
Armatoli, warriors (Greece), XI, a 111
Armature, multiple-coil (Siemens), XXII, a 43; ring (Lighting, Electric), XIV, a 638
"Armed Neutrality" (Adams, J.), I, b 130; (Holland), XII, a 85; (International Law), XIII, b 201; (Nelson), XVII, a 332
Arme Kourad revolt (Würtemberg), XXIV, a 738
ARMENIA, country, II, b 479; (Aryan), b 589; (Greece), XI, b 103, b 105; (Gregory Illuminator), a b 160; (Inscriptions), XIII, b 121-2; (Khazars), XIV, b 61, *a* 62; (Mesopotamia), XVI, a 52; (Persia), XVIII, a b 606, b 611, a 612, a b 613, a b 620, a b 621, a 622, a b 624; (Semitic Languages), XXI, a 675; (Transcaucasia), XXIII, b 545, b 546-7; (Turkey), XXIII, a b 695
—— Lesser, II, b 479, b 480
ARMENIAN CHURCH, II, a 481-2; (Canon), V, b 13; (Etchmiadzin), VIII, a b 500; Fasting, IX, a 43
—— monks (Mechitharists), XV, a 784; (Nakhichevan-on-the-Don), XVII, b 174; (Penance), XVIII, b 497; Romanists (Roman Catholic Church), XX, a 647
—— LANGUAGE, II, a 482; (Persia), XVIII, a 668; (Philology), a 798, b 799; *Dictionaries*, VII, a 165; *Epistles* (Corinthians), VI, b 365
—— LITERATURE, II, a 482-3; (Moses of Chorene), XVI, a-b 889. See SYRIAC LITERATURE
—— printing (Typography), XXIII, a 740
—— VERSION OF THE BIBLE, a 483
—— Wine, XXIV, b 644
Armenians, Era of the (Chronology), V, a b 622
Arment, village (Egypt), VII, b 678
ARMENTIERES, town, II, a 483
Armeria, plant (Botany), IV, a 131, b 133; (Horticulture), XII, b 257
ARMFELT, Gustav Mauritz, Baron, II, a 483
Armida (Jommelli), XIII, a 747
Armies, European, statistical table of (Europe), VIII, *b* 619-20; standing, II, b 494, a b 499; (Military Law), XVI, b 308, a 309; (Militia), b 313; (Political Economy), XIX, a 367. See Army
Armijo, Manuel, governor (New Mexico), XVII, a 412
Armillary spheres, apparatus (Astronomy), II, a 654; (Time), XXIII, b 419
Armillus, impostor (Antichrist), II, a 111
Arming the lead, defined (Seamanship), XXI, b 632
Armington governor (Steam-Engine) (Ill.), XXII, a 531
—— and Sims engine (Steam-Engine), XXII, b 538-9
Arminianism (England Church of), VIII. a b 338; (Episcopius, Simon), b 437; (Gomarus), X, b 684; (Predestination), XIX, b 688, b 690
—— controversy on (Lutherans), XV, a b 86; (Owen), XVIII, a 89; theology (Arminius), II, a b 484
Arminians, sect (Dort, Synod of) VII, a 324; (Grotius), XI, b 194; in Holland, XII, b 81; (Barneveldt), III, b 327
Arminius or Hermann, chief (Germanicus), X, b 400; (Germany), b 426, *a* 427, a 467
ARMINIUS, James, theologian, II, b 483-4; (Presbyterianism), XIX, a 716
——, river (Italy), XIII, b 456
ARMISTICE, truce, II, b 484
Armisticio, territory (Venezuela), XXIV, a 152
Armlet or Bracelet (Ill.), IV, b 169-70
Ar-Moab, city (Moab), XVI, b 557
Armor, personal (Costume), VI, a 411, a 418; Bedouin (Arabia), II, b 216; Greek, II, b 485; (Iphicrates), XIII, b 217
—— plate (Fortification), IX, b 397-401; (Hampshire), XI, a 386; (Iron), XIII, b 336, a 337, b 338; (Navy), XVII, a 292-4, b 298; (Shipbuilding), XXI, a b 860-1; penetration of (Ammunition), I, a 653; (Gunmaking), XI, b 260, b 263; (Gunnery), b 271, a 274-6
Armoraciæ radix, drug (Horseradish), XII, b 211
Armorí, town (Chándá), V, a 339
Armorial bearings (Heraldry) (Ill.), XI, b 608-37; records of (Heraldry), b 609-10
ARMORICA, II, b 484
Armoric dialect (Celtic Literature), V, b 258, a *b* 259; literature (Celtic Literature), V, a 281-2, a 285
"Armory of Germany" (Suhl), XXII, a 662
Armour, Jean, peasant (Burns), IV, b 505
ARMS AND ARMOR (Ill.), II, a 485-9
  Artillery, a 488-9
  Greek, ancient, b 485
  Hand fire-arms, a b 489
  Mediæval, b 486-8
  Oriental, b 486
  Prehistoric, a b 485
  Roman, a b 486

—— (Police), XIX, b 350; Assize of, 1181, ordinance (England), VIII, a b 276; breech-loading (Battle), III, a 385; coats of (Heraldry) (Ill.), XI, b 608-37; marshalling (Heraldry), XI, a 630-3; right to bear (Heraldry), b 613, b 614, a 615; small, Werndl factory (Steyer), XXII, b 575. See ARTILLERY, GUNMAKING, Ordnance, etc.
Armstrong, Archie (Fool), IX, b 320
ARMSTRONG, John, physician, II, b 489
——, Sir William George, engineer (Gunmaking), XI, a 256; (Gunnery), a 272, *a* b 273, a b 274, b 279; (Hydromechanics), XII, b 552
—— accumulator, machine (Crane), VI, a b 485
—— gun, II, b 576; (Gunmaking) (Ill.), XI, a 258
—— segment shell (Ammunition), I, a 653
ARMY, II, b 489-541
  American, a b 541
  Asiatic, early, a 490
  Austrian, a 528-31
  Bavarian, b 524
  Belgian, b 537
ARMY, *continued*
  BRITISH, a 497-516
    administration, a b 501
    army service Corps, a 510
    artillery and engineers, b 504, b 506, a 507-8
    barracks, a 514-5
    cavalry, a 506
    departments, chaplain, b 511; control, a 502, b 509; education, a 512, a 513; justice, b 513; medical, b 510; veterinary, b 511
    distribution of, a 505
    equipment, a 515
    history of, a 497-501; mediæval, b 497-8; recent changes, b 500-1; Stuarts and Commonwealth, b 498 9; William III. and Anne, a b 500
    infantry, a b 508
    military districts, a b 509
    militia, a 509
    morale, a 515
    officers, b 503-6
    recruits, b 502-3
    reserves, b 508-9
    staff, b 505
    standing, a b 499
  Canadian militia, a 519
  Danish, a 538
  Dutch, a 537
  Feudal, b 493-4
  French, a 525-8
  French Revolution, b 495
  German, b 519-25
  Greek, ancient, a 491-2
  Indian, East, b 505, a 516-9
  Italian, a 535-6
  Macedonian, a 492
  organization of, a 497, a b 501
  Portuguese, b 536
  Prussian, *b* 495, a 521-4
  recruiting, mode of, a 496-7
  Roman, b 492-3
  Russian, b 531-5
  Saxony, b 524
  Spanish, a 536
  standing, rise of, b 494
  Swedish, b 538
  Swiss, b 538-9
  tactics, a 495
  Turkish, b 539-41
  Wurtemberg, a 525

—— (Afghânistân), I, b 213
——, Arabian, II, a b 220; (Mohammedanism), XVI, a 612
——, Austrian, II, a 528-31; III, b 107-8, a 116
—— (Baluchistan), III, a 262; Bavarian, II; b 524; V, a 391; (Bengal), III, a 488; (Brazil), IV, b 213
——, British, II, a 497-516; (Archery), b 325, a 326; (England), VIII, b 221-2; (Finance), IX, a 154; (Flags), a 244; (Prerogative), XIX, b 693; (Veterinary Science), XXIV, b 215

ARMY (Chili), V, b 540; (Cochin China), VI, b 88
——, Danish, II, a 538; (Denmark), VII, b 72
—— (Egypt), VII, a b 624, a 636, a 664, b 680
——, French, II, a 525-8; (France), IX, b 455-6, b 485, *a* 486, b 529; (Louvois), XV, b 28; (Paris), XVIII, 283, b 299, a b 300
——, German, II, b 519-25; (Germany), X, b 419-20
——, Greece, II, a 491-2; XI, b 77; (Lycurgus), XV, a 98
——, Dutch, II, a 537; (Holland), XII, b 68
——, Indian, II, b 505, a 516-9; (Clive), VI, b 12; (India), XII, 813; (Madras), XV, a 188, a 190; (Nepal), XVII, b 351
—— (Madagascar), XV, b 175-6; (Militia), XVI, a 312, a 314; (Monaco), XVI, b 743
—— (Persia), XVIII, b 639-40; (Police), XIX, a 346; Portuguese, II, b 536; (Portugal), XIX, a b 554
——, Roman, II, b 492-3; (Finance), IX, b 152; (Probus), XIX, a 810; (Severus), XXI, *b* 733-4; (Tribune), XXIII, a b 591; (Trajan), b 534
—— (Roumania), XXI, b 20; Russian, II, b 531-5; (Russia), XXI, a 79; Saxony, II, b 524; XXI, a 375; (Servia), a 720; Spain, II, a 536; XXII, a 318
——, Swedish, II, b 538; (Norway), XVII, b 596-7; (Sweden), XXII, a b 781
——, Swiss, II, b 538-9; (Switzerland), XXII, a b 819; Turkish, II, b 539-40; (Turkey), XXIII, a 697; Würtemburg, II, a 525; XXIV, b 737
——, United States, II, a b 541; XXIII, b 827, b 883; Continental, rise of (United States), b 789, b 793; of the Cumberland (Thomas), XXIII, b 938, a 939; dispersion of (United States), a b 822; of the Potomac (Hooker), XII, b 153; (McClellan), XXIII, b 838; (Meade), XXIII, *a* 839; (Sumner), XXII, a 935; (United States), XXIII, b 823-4, b 825-6, a b 827-8; sanitation of (Sanitary Commission), XXI, b 900, a 901, a b 902; second Cavalry (Thomas), XXIII, *a* b 938; Southern Confederate (United States), a 829; volunteer (United States), b 828, a 829, a 836
—— act, British (Military Law), XVI, b 308, a 309, b 311; (Statute), XXII, b 486
——, ants, II, b 86, b 87
—— banks (Savings Banks), XXI, a 345; clans in Irish (Ireland), XIII, a 257; consular (Camp), IV, a 663; Dietetics, VII, b 175, a 176, a b 184; Examinations, VIII, b 683; first modern (France), IX, b 488; Frederick William I.'s (Prussia), XX, a b 13; of Henry the Fowler (Germany), X, a 433; mortality (Suicide), XXII, b 662, b 664
—— and navy (Indian Archipelago), XII, b 858; nobles in (France), IX, b 529; an organism, not mechanism (War), XXIV, a 364-5, a 371; organization, mediæval (Knighthood), XIV, b 118; Prize Act (Prize), XIX, a b 787; Service Corps, British, II, a 510; tribal (Germany), X, a 426; vaccination in, XXIV, b 35. See Armies, Military, Militia, VOLUNTEERS, WAR.
Army, Treatise on diseases of (Baldinger), III, b 237
Armyanskii Bazar, village (Perekop), XVIII, a 535
Ar, fruit (Nut), XVII, a 683
Arna, animal (Buffalo), IV, a 396
Arnaouts, people (Albania), I, b 396; (Egypt), VII, a 660-2; (Greece), XI, b 75
Arnason, Jon, author (Hamlet), XI, a 379; (Iceland), XII, a b 663
Arnaud, minstrel. See Arnaut
ARNAUD or Arnoldus de Villa Nova, alchemist, II, a 542
——, explorer (Yemen), XXIV, *a* 777
——, Baculard d', poet (Voltaire), XXIV, a b 309
ARNAUD, Henri, historian, II, b 541-2; (Waldenses), XXIV, a b 346
ARNAULD, Angelique, abbess, II, a 542
ARNAULD, Antoine, theologian, a 542-3; (Descartes), VII, a 104; (France), IX, a 582; (Jansenism), XIII, a b 576, a 577; (Pascal), XVIII, b 340; (Port Royal), XIX, b 548; (Tavernier), XXIII, b 90
——, Antoine, advocate, II, a 542, a 543
ARNAULD, Jacqueline Marie, abbess, II, a b 543; (Francis of Sales), IX, a 613; (Monachism), XVI, a 739; (Port Royal), XIX, a b 548
Arnaut, Daniel, poet (Minstrel), XVI, b 502; (Provençal), XIX, b 899; (Romance), XX, a 665, b 667-8
——, de Maroill, poet (Provençal), XIX, b 899
——, Mami, pirate (Cervantes), V, b 303
Arnauts. See Arnaouts
ARNDT, Ernst Moritz, poet, II, b 543-4; (Germany), X, *b* 485
ARNDT, Johann, theologian, II, a b 544; (Germany), X, b 473
Arne, novel of Björnson (Norway), XVII, a 606
ARNE, Thomas Augustine, composer, II, b 544
Arneth, Alfred von, historian (Marie Antoinette), XV, a 547, a 548
ARNHEM or Arnheim, town, II, b 544; (Guelderland), XI, a b 216, a 217
ARNICA, plant, II, a 545
ARMIN, Bettina von, II, a 545; (Goethe), X, a 656
ARNIM or ARNHEIM, JOHAN GEORG von, general, II, a b 545
ARNIM, KARL OTTO LUDWIG von, traveller, II, b 545
ARNIM, LUDWIG ACHIM von, poet, II, b 545; (Brentano), IV, b 230; (Germany), X, a 485
Arni, Magnusson, bishop (Iceland), XII, a 663; XV, a b 286; *Life of* (Iceland), XII, a 662. See MAGNUSSON
Arnis, festival (Linus), XII, b 684
ARNISÆUS, Henningus, physician, II, b 545
Arno or Arnus, river, II, a 546; (Italy), XIII, a b 447, a 448; (Pisa), XIX, *b* 127
ARNO or Aquila of Salzburg, bishop, II, a 546
ARNOBIUS Afer, apologist, II, b 546; (Minucius Felix), XVI, b 515
ARNOBIUS the Younger, commentator, II, b 546
Arnold, bishop (St. Andrews), XXI, a 166
——, Benedict, traitor and British general (Andre), II, a b 19; (Jefferson), XIII, a 626; (New London), XVII, *b* 409; (Robinson), XX, a 910; (United States), XXIII, a 790, a b 792, b 836
ARNOLD of Brescia, II, b 546-7; (Italy), XIII, b 482, b 483; (Rome), XX, a 810-1
——, Gottfried, historian (Church History), V, a 669; (Hymns), XII, b 622
——, John, inventor (Watch), XXIV, b 418
——, Matthew (Academy), I, a 73; (Chaucer), V, a 392; (Clough), VI, b 37; (Homer), XII, b 123, *a* 124; (Schools), XXI, a 910; (Shakespeare), b 776; (Wordsworth), XXIV, a 710 note, a 711
ARNOLD, SAMUEL, composer, II, a 547; (Transverse Flute), XXIII, a 554
ARNOLD, THOMAS, clergyman, II, a 547-8; (Bunsen), IV, a 469; (Cotton, G. E. L.), VI, b 451; (Episcopacy), VIII, a 432; (Government), XI, b 16; (Stanley), XXII, *a* 468; (War), XXIV, a 384; (Whately), a 559
—— de Torroge, grand master (Templars), XXIII, a 177
Arnoldi, Wilhelm, bishop (German Catholics), X, b 399
ARNOLDUS, DE VILLA NOVA. See ARNAUD
Arnolfo di Cambio, architect (Glass), X, b 597; (Mural Decoration), XVII, b 43 note; (Rome), XX, b 856
ARNOTT, Archibald, physician, II, a 548
ARNOTT, NEIL, physician and inventor, II, a b 548; valve of (Ventilation), XXIV, b 172
ARNOTTO or Annatto, dye, II, b 548; (Dyeing), VII, b 500
ARNSBERG, city, II, b 548; (Westphalia), XXIV, a b 545
ARNSTADT, town, II, b 548; (Schwarzburg-Sondershausen), XXI, a 483
Arnulf, emperor (Formosus), IX, a 368; (Germany), X, *a* 432
——, archbishop of Rheims (Silvester), XXII, *a b* 82
—— I., count of (Flanders), IX, b 253
Arnulph the Norman, lord keeper (Ireland), XIII, b 260-1
Aroa, town (Venezuela), XXIV, a 152
AROK-SZALLAS, town, II, b 548
Arolsen, town (Waldeck-Pyrmont), XXIV, b 342
AROMATARI, Giuseppe, physician, II, b 548-9
Aromatic aldehydes (Chemistry), V, b 492; compounds (Chemistry), a 479, b 485-7; substances in plants (Physiology), XIX, a b 59
Aron, river (Nièvre), XVII, a 509
ARONA, town, II, a 549
Arouari, river (Guiana), XI, a 225
Arouet, François, father of Voltaire, XXIV, a 305, a b 306
ARPÁD, chief, II, a 549; dynasty (Hungary), XII, a 382-3
——, city (Syria), XXII, b 861
Arpád (Hungary), XII, a 393
Arpaja, Val d' (Caudine Forks), V, b 225
Arphachsad, eponym (Semitic Languages), XXI, *a* 675
Arpi, R., philologist (Scandinavian Languages), XXI, a 385 notes
ARPINO or Arpinum, town, II, a 549; (Rome), XX, a 761
Arpa Doppia, instrument (Harp), XI, b 437
ARQUA, town, II, a 549
Arquebuse, weapon (Gunmaking), XI, b 246
Arquerite (Mineralogy), XVI, a 398
ARQUES, village, II, a 549; or Dieppe, stream (Seine Inférieure), XXI, b 656; forest (Seine Inférieure), a 657
Arrabbiati, faction (Savonarola), XXI, *a b* 352, *a* 353
Arrabida mountains (Setubal), XXI, *a* 730
Arrachel, mathematician (Trigonometry), XXIII, a 597
ARRACK, liquor, II, a 549; (Distillation), VII, a 230; (Rum), XXI, b 64; monopoly (Ceylon), V, b 321
Arrah, town (Sháhábád), XXI, *a* 771
ARRAIGNMENT, law term, II, b 549
ARRAN, island, b 549-50; (Bute), IV, *a b* 516
Arran, James Hamilton, Earl of, regent (Beaton), III, a *b* 402; (Bothwell, Earl), IV, a 150; (Scotland), XXI, *a* 520

Arran, James Hamilton, Earl of, duke of Chastelkerault (Scotland), XXI, b 521, a *b* 522, *a b* 524, a 526, a 527, b 528

Arran, Stuart, Earl of, regent (Scotland), XXI, *a b* 529, a 530

——, Thomas Boyd, Earl of (James III., Scotland), XIII, b 566; (Scotland), XXI, *a* 517

Arrangement (Rhetoric), XX, a 528

ARRAS, town, II, a 550; (Pas de Calais), XVIII, b 344, a 345; (Textiles), XXIII, a 230, a 231

Arrastra, mill (Gold), X, b 664; (Mining), XVI, a 485

Arrebo, Anders, poet (Denmark), VII, a b 79

Arrecife, town (Canary Islands), IV, a 706

Arrectores pili (Anatomy), I, a 789

ARREST, II, a 550
  - civil cases, a 550
  - criminal cases, b 550
  - in Scotland, a 551
  - of judgment, a 551

—— (Consul), VI, a 281; (Police), XIX, b 346; a b 347; law of (Warrant), XXIV, b 392, *a* 393, freedom from (Parliament), XVIII, a 317

ARRESTMENT, Scottish law, II, a 551; (Balance), III, a 228

Arretium. See AREZZO

Arretophoria, ceremony (Thesmophoria), XXIII, a 317

Arrez, mountains (Finistere), IX, a 188

Arrha, earnest money (Sale), XXI, b 215, b 217, b 218; (Women), XXIV, a 677

ARRHABONARII, sect, II, a 551

Arrhenatherum (Grasses) (Ill.), XI, b 48, *b* 50, b 52

ARRIA, heroines, II, a 551

ARRIAN, historian, II, a b 551; (Baluchistan), III, a 259; (Epictetus), VIII, a 419; (Hunting), XII, a 409; (Persia), XVIII, a 594 notes, b 596

Arrigal, mountain (Donegal), VII, a 313

Arrindy silkworm (Butterflies), IV, b 530

Arrius Diomedes. See Diomedes

Ar-Riyashi, historian (Tabarí), XXIII, a 7

Arroe, island. See AEROE

Arrondissement, political division (France), IX, *b* 450; (Paris), XVIII, a b 282; table of (France), IX, a 449-50

Arros river (Pyrénées), XX, a 133

Arrow, lough and river (Ireland), XIII, b 249; (Sligo), XXII, *a* 169

—— river (Hereford), XI, b 652

—— -grass (Botany) (Ill.), IV, a 143

—— - headed inscriptions. See Cuneiform

—— outrage (Canton), V, b 35; (China), a 566; (Cobden), VI, a 81

—— weapon (Heraldry), XI, a 628; manufacture (Archery), II, a 329; poisoned (Bushmen), IV, a 513; (Strophanthus), XXII, a b 640

——, yacht (Yachting), XXIV, a b 759, b 760

——, sign of Zodiac, XXIV, a 831, a 833

ARROWROOT (Ill.), II, b 551-2; (Botany), IV, *b* 77; (Cassava), V, b 159

ARROWSMITH, geographers, II, b 552

Arroyo, Pueblo del (Pueblo Indians), XX, *a* 888

Arroyos, streams (Uruguay), XXIV, a 19

Arru, tribes (Tibet), XXIII, a 365

Arsa, stream (Istria), XIII, a 443; (Italy), a 444

Arsaces I., Tiridates, of Parthia, king, II, b 553; (Macedonian Empire), XV, b 143; (Persia), XVIII, b 598-9, a 603

—— II. (Persia), XVIII, a 600, a 601

—— III., Philadelphus (Persia), XVIII, a 601

—— IV., Theopator (Persia), XVIII, a 601

ARSACIDÆ, kings of Parthia, II, a 552; (Armenia), II, a b 480; (Persia), XVIII, b 598-603

ARSAMASS, town, II, b 552

Ars Amatoria (Ovid), XVIII, a b 83, b 86

Arsamosata, city (Persia), XVIII, a 600, b 614

ARSENAL, II, b 552-3
  - general features, b 552-3
  - foreign, b 554-5
  - India, a 554
  - small arms and powder, English, a 554
  - Woolwich, a 553-4

—— (Cherbourg), V, a 508; (Harper's Ferry), XI, b 438; (Nanking), XVII, a 179; Rock Island, XX, b 631; (Illinois), XII, b 743; (Springfield, Mass.), XXII, a 450; (Toulon), XXIII, *b* 514; (Venice), XXIV, b 155, b 168; Woolwich, II, a 553-4; XXIV, b 699, a 700

Arseniate of nickel (Mineralogy), XVI, a 421

Arseniates (Mineralogy), XVI, a 421

ARSENIC and compounds, II, a 555; (Chemistry), V, a 467-9; (Cobalt), VI, b 75, *a* 76, *a* 77; (Lead), XIV, a 378; (Malaria), XV, b 321; (Metals), XVI, a 75; (Mineralogy) (Ill.), b 387, b 394, a 395, a 396, a b 404, b 406, b 407, a 408-9; (Mining), a 489; (Orpiment), XVIII, a 55; (Poisons), XIX, a b 289; (Zinc), XXIV, *a* 825

—— in anæmia (Pathology), XVIII, a 384; antidote for (Iron, Therapeutics of), XIII, b 370; manufacture (Devonshire), VII, b 121

Arsenical ores (Mexico), XVI, b 909; (Mineralogy), a b 421, a 423, b 425; (Iron), XIII, a 314; soap, XXII, b 215; (Taxidermy), XXIII, a 96; springs (Mineral Waters), XVI, b 455

Arsenides (Metallurgy), XVI, b 66; (Methyl), b 205

Arseniosiderite (Mineralogy), XVI, b 423

Arsenite (Arsenic), II, b 555; of alumina process (Calico-printing), IV, b 614; of Copper, VI, a 312

Arsenius, archbishop (Ipek), XIII, a 217

Arsenolite (Mineralogy), XVI, a-b 404

Ars Grammatica (Donatus, Ælius), VII, *a b* 312

Arsheya-bráhmana (Sanskrit), XXI, *a* 291

—— *-kalpa* (Sanskrit), XXI, a 291

Arsia river (Italy), XIII, a 444

Arsian mountains (Transcaucasia), XXIII, a 547

Arsicas, king. See ARTAXERXES II.

Arsines (Chemistry), V, a 501

Arsinoë I. (Egypt), VII, b 645

ARSINOË II., daughter of Ptolemy Soter, II, b 555-6; (Egypt), VII, a 646

—— III., queen of Ptolemy IV. (Egypt), VII, b 646

——, spring (Messene), XVI, a b 57

—— town (Egypt), VII, b 671; (Labyrinth), XIV, b 180-1

Arsissa Palus. See Van Lake

Arslan. See ALI PASHA

—— Kilidj I., sultan (Crusades), VI, b 551, a 552, a 553; (Seljuks), XXI, a *b* 668

—— II. (Seljuks), XXI, b 668

Ars Moriendi (Typography), XXIII, b 725, b 726, a 727

ARSON, crime, II, a 556; (Insurance), XIII, a 174

Ars Poetica (Horace), XII, b 165; (Hurd), b 415

ART, II, a 556-9
  - distinguished from nature, a 556-7
  - distinguished from science, b 557-8
  - etymology of, b 557
  - fine, a 559
  - industrial, b 558. See Arts

—— (Æsthetics), I, *a b* 196, a b 197, b 198; Antinous in, II, a 115; Apollo in, b 163; (Apotheosis), a 175; Bellerophon in, III, b 471; (Copyright), VI, a b 319, a b 322, a b 323, *b* 324, a b 325; (Goethe), X, b 649; (Hegel), XI, b 548, b 550, a 554; (Herder), XI, b 651, *a* 652; Homeric (Archæology), II, a 303; (Homer), XII, b 115; (Image Worship), XII, b 749-50; (Persia), XVIII, b 636; (Phœnicia), a b 823; (Phrygia), b 864-5; (Renaissance), XX, b 397-8, a 400, a b 401, b 402-3, a 404, a 405

——, Arabic, II, b 231; (Mohammedanism), XVI, b 619; Aztec (Mexico), b 221

——, Christian (Diptych), VII, a 224; (Font), IX, *b* 316-7; (Glass), X, a 596; (Jameson), XIII, a b 572; (Sculpture), XXI, a 582-3, b 599; (Scheffer), XXI, b 405-6; (Schongaur), a 450

——, Constantinopolitan (Bellini), III, a 472

—— criticism (Gautier), X, a 106; (Herder), XI, b 651, a 652; (Hogarth), XII, b 52; (Hotho), a b 322; (Psychology), XX, b 74-5; (Winckelmann), XXIV, b 629; Roman (Philostratus), XVIII, b 810

—— education (Drawing), VII, b 387-8, *a* 389-90; Etruscan (Ill.), VIII, b 561-7

—— collections (Amsterdam), I, b 684; (Antwerp), II, a 128; (Berlin), III, b 515; Brussels (Belgium), a 450; (Cassel), V, a 160; (Copenhagen), VI, a b 305; (Darmstadt), a 729; (Dresden), VII, b 404, a 405; (Durer), b 482; (Farnese), IX, b 33, b 35; (Florence), a 291; (Haarlem), XI, a 318; (Hague), a 333; (Hals), a b 357; (Hampton), XI, a 387; (Holbein), XII, b 56-7; (Liverpool), XIV, a b 720; (London), b 846; (Lyons), XV, a 113; (Munich), XVII, a b 31, a 32; (Naples), b 196; (Nuremburg), a 682; (Paris), XVIII, a 287; (Poitiers), XIX, a 294; (Rome), XX, b 858, a b 859; (Rubens), XXI, b 47, a b 48, a b 51; (St. Petersburg), XXI, a b 203; (Seville), a 713; (Stockholm), XXII, b 588; (Stuttgart), b 645-6; Thorwaldsen (Denmark), VII, b 82; (Toulouse), XXIII, a 516

—— See ACADEMY, British Museum, Gallery, Glyptothek, Louvre, Museum, South Kensington, and titles of special arts

—— German (Cornelius), VI, a b 374; (Germany), X, b 424

—— Greek (Archæology), II, b 302-21; (Euphranor), VIII, b 586; (Macedonian Empire), XV, a 144; (Pindar), XIX, b 109-10; (Plate), a 189, a 191; (Sicyon), XXII, b 37; early (Phrygia), XVIII, a 865; spoliation of (Pausanias), XVIII, a b 448

——, growth of Italian (Giotto), X, b 543, b 544, a 545

—— Hindu (Agra), I, a 256; (Ajmír), b 384-5; (India), XII, b 827, a 829

—— history (Baldinucci), III, b 237; Japanese, XIII, a 598-602

—— literature (Harding), XI, b 423; (Japan), XIII, b 597-8, a 599; (Rome), XX, a b 854

—— megalithic (Archæology), II, a 296; models (Gladiators), X, a 564; Moorish (Algeria), I, a 503;

—— philosophy of (Hegel), XI, b 548; Phrygian, XVIII, b 864-5; poetic (Poetry), XIX, a 269

ART, prehistoric (Archæology), II, a b 295, *a b* 296
——, Roman (Archæology), II, a b 321; school (Paris), XVIII, b 286; (Italy), XIII, b 471; (Rome), XX, b 833-59; works destroyed (Catacombs), V, a 183; of War, XXIV, b 365-6
Art, son of Conn (Celtic Literature), V, a b 280, *a* 282
Art Poetique L' (Boileau-Despreaux), III, b 750
—— *of poetry* (Vida), XXIV, b 236
—— *de Raisonner* (Condillac), VI, b 221, b 222, a b 224
—— *de Vérefier les dates* (Chronology), V, a 625; (Clement, F.), b 719; (Genealogy), XI, a 130
Art and will (Pessimism), XVIII, b 701
ARTA, Gulf of, II, b 559
——, river, II, b 559
——, town, II, b 559; (Albania), I, b 396, *a* 397; (Ambracia), b 582
Artaba (Weights and Measures), XXIV, a b 512
Artabanus I., Parthia (Artaxerxes), II, a 562; (Persia), XVIII, b 605-6
—— II. (Persia), XVIII, a b 606, note
—— III. (Persia), XVIII, b 611-2
—— IV. (Persia), XVIII, a b 616, a 617, a 618, a 619
——, assassin of Xerxes (Persia), XVIII, a 585
Artabazus I., Phrygian satrap (Persia), XVIII, b 584-5
—— II., Phrygian satrap (Persia), XVIII, a b 591, a 592
Artacia, fountain of (Homer), XII, b 122
Artali, volcano (Africa), I, b 225
Artamus, bird (Swallow), XXII, b 768
ART AND PART, law-term, II, b 559; (Accessory), I, b 79
Artaphernes, satrap (Persia), XVIII, a b 582, a 583
Artaserse, opera (Gluck), X, b 618
ARTAXERXES, kings, II, b 559-62
    Achæmenian dynasty, a 560
    Biblical use of name, b 560-1
    derivation of name, a 560
    —— Sassanian dynasty, b 561
—— I., Longimanus, Achæmenian king, II, a 560; (Egypt), VII, b 644-5; (Persia), XVIII, a b 585, b 586-7
—— II., Memnon, II, a b 560; (Pelopidas), XVIII, a 490; (Persia), XVIII, a 588-91
—— III., Ochus, II, b 560; (Egypt), VII, a b 645; (Persia), XVIII, a 591-2
—— IV., Bessus, II, b 560; (Persia), XVIII, b 593
—— or Ardashir I., Sásánian king, II, b 561-2; (Numismatics), XVII, a 678; (Persia), XVIII, b 573, a 617, a 618-9
—— II., II, a 562; (Persia), XVIII, b 620-1
—— III. (Persia), XVIII, a 626
Artaxerxes, opera (Arne), II, b 544
Artaxias, king (Armenia), II, a 480
Artcha, tree (Turkestan), XXIII, b 676
Art de Penser (Arnauld), II, a 548; (Condillac), VI, b 221, a 224
ARTEDI, Peter, naturalist, II, a 562; (Ichthyology), XII, a b 668; (Linnæus), XIV, a b 679
Artels, trade unions (Russia), XXI, b 92; (Vladimir), XXIV, a 291; (Vologda), a 304; (Votkinsk), a 321
Artemia, genus (Crustacea) (Ill.), VI, *a* 575, b 586, *a* 587
ARTEMIDORUS, Daldianus, diviner, II, a 562; (Dream), VII, b 392; (Yemen), XXIV, a 776
ARTEMIS, goddess, II, a 562-3; (Amazons), I, *a* 576; (Callisto), IV, a 628; (Diana), VII, b 144-5; (Ephesus), VIII, a b 414; (Hecate), XI, *b* 543; (Hera), b 606; (Iphigenia), XIII, b 217; (Latona), XIV, *a* 346; (Mythology), XVII, *a* 143, *a b* 160; (Orestes), *b* 851; cult of (Sacrifice), XXI, a 144
—— Munychia, goddess (Athens), III, b 5; temple of (Magnesia), XV, a 218
ARTEMISIA, queen of Halicarnassus, II, b 563; (Halicarnassus), XI, *b* 342; (Herodotus), a 676
ARTEMISIA, wife of Mausolus, II, b 563
——, plants (Idaho), XII, a b 736
Artemision, mountain (Mantineia), XV, b 510
Artemisium, temple at Ephesus (Inscriptions), XIII, *b* 127
——, promontory (Eubœa), VIII, a 569
ARTEMONITES, sect, II, b 563
Artephius, cabalist (Alchemy), I, b 410-1
Arteria innominata (Anatomy), I, b 793
Arterial circulation (Vascular System), XXIV, a 113-4, *b* 117; degeneration (Pathology), XVIII, b 398, a 399
—— system (Amphibia), I, b 671-2; (Anatomy), b 702, a b 703, b 704, b 707; (Crustacea), VI, b 565-6
Arteries (Anatomy), I, b 789, a 692-5; (Ape), II, b 145; (Harvey), XI, b 449; (Hunter), XII, a 404, note; (Ichthyology), b 696, a b 697; (Mammalia), XV, a 367; (Reptiles), XX, a b 472
——, carotid (Anatomy), I, a 794; coronary, disease of (Angina Pectoris), II, a 28; development of (Anatomy), I, b 797-8; diseases of (Surgery), XXII, b 718-9; fibre of (Anatomy), I, a 746; iliac (Anatomy), b 792, b 794; nervous control of (Pathology), XVIII, a 409; physiology of (Vascular System), XXIV, a b 106, a 111, b 112; pressure in (Vascular System), XXIV, b 116; structure (Anatomy), I, b 795; subclavian (Anatomy), b 793
Arterioles (Vascular System), XXIV, a 113, a 115
ARTESIAN WELLS, II, b 563-5; (Geology), X, b 239; (Georgetown), b 387; (Louisville), XV, b 25; (Nebraska), XVII, b 316, note; (Paris), XVIII, a 285; (Rochefort), XX, a 628; (Sahara), XXI, b 158; (Venice), XXIV, a 161; (Water-Supply), b 426
ARTEVELDE, Jacob van, statesman, II, b 565
ARTEVELDE, Philip van, statesman, II, b 565-6; (Charles VI.), V, a 356; drama on (Taylor), XXIII, a b 99
Arth, town (Schwyz), XXI, *a* 486
Arthenice. See RAMBOUILLET
Arthonia, genus (Lichens), XIV, a b 557, *b* 559, a 565
Arthritis, disease (Gout), XI, b 6; (Rheumatism), XX, b 532-3
Arthrobacteriaceæ, family (Schizomycetes), XXI, a 423
Arthronomatus, insect (Myriapoda), XVII, b 126
ARTHROPODA, group, II, a 566-8; (Animal Kingdom), b 46, a 47; (Arachnida), b 237, a 238; (Crustacea), VI, b 558, a 560 note, b 562; (Histology), XII, b 9, b 10; (Insects), XIII, a 147, a 150, a 154; (Myriopoda), XVII, b 122-3; (Reproduction), XX, a 421, b 431-2; (Skeleton), XXII, a 114; (Touch), XXIII, b 508; (Zoology), XXIV, b 852
—— nerves of (Physiology), XIX, b 35; parasites of (Protozoa), b 878
Arthropomata, division (Brachiopoda), IV, a 171
Arthrosporeæ, group (Schizomycetes), XXI, a 423
Arthrosterigmata, organ (Lichens), XIV, *b* 558
ARTHUR or Artus, legend, II, a 568-71
    Cymric origin of, b 569-70
    foundation of the legend, b 569
    French development of, a 569, b 570-1
    mythical elements of, b 570
    origin of, b 568-9
—— (Britannia), IV, b 319; (Caerleon), a 562; (Celtic Literature), V, b 272, *a* 274, *b* 279-80, *b* 281, b 282, a 285; (Chrestien de Troyes), a 507; (England), VIII, b 245, a b 264, b 278; (France), IX, b 562-3; (Geoffrey of Monmouth), X, a 155; (Glastonbury), a 602; (Grail, Holy), XI, a b 32, a 33; (Hartmann von Aue), b 446; (Holland), XII, a 93; (Milton), XVI, a 340; (Monmouth), XVI, a 781; (Pear), XVIII, a 457; (Portugal), XIX, *a* 571; (Scotland), XXI, a 566; (Windsor), XXIV, b 632
—— cycle of (Romance), XX, b 657-65, b 677; etymology of name (Romance), b 658, note
ARTHUR, Chester Alan, president (United States), XXIII, *b* 833, b 836
Arthur of Brittany, duke (France), IX, b 477; (John, Eng.), XIII, *b* 724
—— Plantagenet of Anjou, prince (England), VIII, b 275
—— Tudor, prince of Wales (Bewdley), III, b 536; (Catherine), V, a 206; (Henry VII.), XI, b 590
Arthur's chair, Mt. (Brecon), IV, a 218
—— Oven or Oon (Carron), V, a 123; (Scotland), XXI, a 495
—— seat, Edinburgh, VII, b 569, *a* 570, a 573, a 575
Arthus de Bretaigne (Romance), XX, b 664-5, b 665
Artibeus, bat (Mammalia), XV, a 412; (Vampire), XXIV, a 59
ARTICHOKE, plant, II, b 571; (Botany), IV, a *b* 108; (Horticulture), XII, b 289
——, Jerusalem- (Agriculture), I, b 328; (Horticulture), XII, a 219, a 295
Article, part of speech (Homer), XII, a 117; (Grammar), XI, b 38
Articles of Association, colonial (United States), XXIII, b 787
——, Church of England, II, b 571-2; (Creeds), VI, a 500; (England), VIII, a 302, b 303-4, b 336, a 337, a 338, a 340; (Henry VIII.), XI, b 592, a 593
—— of Confederation, United States (Madison), XV, a b 183; (Slavery), XXII, b 908; (United States), XXIII, b 793-4, b 795-6
—— of Issy (Guyon), XI, b 306
——, the Lambeth, II, a 572; of Prague, (Hussites), XII, a 423
Articles of Religion (Knox), XIV, a 132
—— of Smalkald (Luther), XV, a 85
ARTICLES, Thirty-nine, II, b 571, a 572; (England), VIII, b 303-4, a 306, a 338, a 340
—— of War (Court-martial), VI, b 459, a 460, *a* 461; (Duel), VII, a b 444; (Military Law), XVI, a b 308; (Militia), b 313; United States (Army), II, b 541
Articular sympathetic nerves (Anatomy), I, b 775
ARTICULATA, division, II, b 572; (Alps), I, a 558; (Arachnida), II, a b 237; (Crustacea), VI, b 558; (Insects), XIII, a 147
Articulation, speech (Deaf and Dumb), VII, b 9-10; (Hieroglyphics), XI, a 710-15; (Philology), XVIII, a 784; loss of (Aphasia), II, a 150

Articulatory system (Anatomy), I, a 730; amphiarthroses (Ill.), b 730; diarthroses (Ill.), b 730; sutures (Ill.), a 730; synchondroses, a 732
Artificers (Fine Arts), IX, b 184
Artificial production of pearls, XVIII, a b 459; teeth (Dentistry), VII, b 86-7
Artigas, Fernando José, patriot (Brazil), IV, *b* 208
ARTILLERY, II, b 572-85
  Austrian, b 575, a b 577, b 582-3
  British, b 578-81
  field, b 577-8, b 579-80, b 581, a 584
  France, b 581
  Germany, b 581-3
  gunpowder, b 572-3
  HISTORY, b 572-7
    eighteenth century, b 574-6
    France, a 573, b 575-6
    French Revolution, a 576
    Gustavus Adolphus, a b 574
    mechanical era, b 572-3
    nineteenth century, b 576-7
    Prussia, a 575, a 577
    to seventeenth century, b 272-3
  positions, a 584-5
  Russia, b 575, b 577, a 583
  tactics, a 583-5
—— (Fortification), IX, a 377, a 381, a 389, a b 396, 397; (Napier, John), XVII, a b 185; (Navy), b 293-4, b 297; (War), XXIV, a b 367, a 380-1
——, American (Rodman), XX, a 911; Austrian (Army), II, a 530; (Artillery), b 575, a b 577, b 582-3
——, British (Army), II, b 506; (Artillery), b 578-81; organization of (Army), b 504, b 506-7; (Artillery), b 577-81
—— Company, Ancient and Honorable, Mass. (Volunteers), XXIV, a 314; Honorable Company, London (Volunteers), a 314
——, French (Army), II, b 527; (Artillery), a 573, b 575-6, b 581
——, history of (Arms and Armor), II, a 488-9; Museum (Paris), XVIII, b 287; origin of (Gunpowder), XI, b 283-4; Prussian (Army), II, b 522; (Artillery), a 575, a 577, b 581-2; Russian (Army), a 533; (Artillery), b 575, b 577, a 583; Turkish (Army), a b 540
Arti Minori, constitution (Italy), XIII, a 511, a 512
Artiodactyla, sub-order (Mammalia), XV, a b 427, *b* 433, a 435-8; anatomy of (Mammalia), a 360; respiration of (Mammalia), a 368
Artisans. See LABOR, WORKINGMEN
Artisans, Dwellings Act (Glasgow), X, b 571-2; Guilds, XI, a b 231; mediæval (Hanseatic League), a 403
Artistic History, XII, *a* 22-4; printing (Typography), XXIII, a b 756
Artists (Deaf and Dumb), VII, a 11; (Fine Arts), IX, a 171, b 172; Royal Academy of (Reynolds), XX, a b 517
Artists' colorman (Pigments), XIX, b 94; colors (Pigments), b 94
Artocarpus (Bread Fruit), IV, b 216-7
ARTOIS, province, II, b 585
——, count of. See CHARLES X.
—— House of (Capet), V, a 50
ARTOTYRITES, sect, II, b 585
Arts (Arabia), II, b 231-2; (Babylonia), III, b 163-5; (Egypt), VII, a b 626, b 636, a 639, a 644; (Ethnography), VIII, a 547
—— Academies of fine, I, a 75-6; (Æsthetics), a b 191, a 192, a 193, a b 194, a b 196; (Germany), X, b 424
—— definition of (Music), XVII, a 84; mechanical (Fine Arts), IX, a b 172, a 173; Mexican (America), I, a b 610; Peruvian (America), b 611-2; prehistoric (Archæology), II, a b 295, *a b* 296; relation to Archæology, II, a b 300; relation to poetry, XIX, a 272-5; renaissance (Venice), XXIV, b 157-8; theory of (Schopenhauer), XXI, b 472; useful, mythical origin of (Mythology), XVII, a 164
Arts, scholastic. See Degrees, Faculties and UNIVERSITIES
Artusi, Giovanni Battista, composer (Music), XVII, a 94
Artvin, district and town (Transcaucasia), XXIII, b 546, a b 547
Aruba, island (West Indies), XXIV, b 538
ARU ISLANDS, II, b 585; (Indian Archipelago), XII, b 854, a 855, note, a 856
'*Arukh*, lexicon (Talmud), XXIII, b 42, note; Targum), b 69 note
Arum, plants (Horticulture), XII, b 257; (Botany) (Plate XVI) (Ill.), IV, b 77, a 94, b 108, *b* 109, b 110
Arun, river (Sussex), XXII, *a* 761
—— -Barun basin (Tibet), XXIII, a 362
Arunda, town (Ronda), XX, b 862
ARUNDEL, town, II, a 586; (Sussex), XXII, a 761, *a* 762
ARUNDEL, Thomas, bishop, II, a 586; (Lollards), XIV, b 820-21
——, Sir Thomas, soldier (Heraldry), XI, b 625
——, Thomas Howard, earl of (Arundel Marbles), II, *b* 586; (Hollar), XII, *a* 104
——, earldom of (Earl), VII, a 515; (Peerage), XVIII, b 474; manuscripts (Royal Society), XXI, b 44
ARUNDELIAN Marbles, II, b 586; (Chandler, Richard), V, b 339; (Prideaux), XIX, a 743
Arundo, plants (Agriculture), I, a 361; (Pen), XVIII, a 494; (Reed), XX, *a* 332
Arusha, deity (Eros), VIII, a 467
Aruwhimi river. See Arawhimi
Arusio, town (Orange, France), XVII, a 836
ARVAL Brothers, priests, II, a 587
ARVE, river, II, b 587; (Rhone), XX, b 542; (Savoie, Haute), XXI, a 348
Arverni, tribes (Cæsar), IV, b 565
Arvicola (Mammalia), XV, b 421, a 424; (Vole), XXIV, b 297, a b 298
Arx Capitolinus, hill (Rome), XX, a 825, note, b 831, b 839, b 844-5
Arya-Bhatta, astronomer (Algebra), I, *b* 456; (Trigonometry), XXIII, b 596
Aryamo, god (Ireland), XIII, a 250, note
ARYAN, name, II, b 587-9
Aryan Cosmogony, VI, a 396
Aryan Cults (Priest), XIX, a b 745; primitive (Hera), XI, b 605-6; (Zoroaster), XXIV, b 861-3
—— inscriptions, XIII, a 122
—— languages (Alphabet), I, b 534; (Europe), VIII, a 614-5; (Grammar), XI, b 35-8; (Greece), a b 113, 116, note; (Hindustani), b 749-53; (Italy), XIII, a 508, note; (Mythology), XVII, a 145-6, a b 147; (Philology), XVIII, b 783, a 785, b 791, a b 794, b 797-803; (Ural-Altaic), XXIV, b 5, a *b* 6; (Zululand), *a* 867
—— migrations (India), XII, b 815, b 818-21, b 829; mythology (Lycanthropy), XV, a b 92; (Medea), a b 787; (Mythology), XVII, b 158-60, b 163; religion (Brahmanism), IV, b 183-4; (Buddhism), b 381; (Religions), XX, 372, a b 373; (Sanskrit), XXI, a b 289; (Theism), XXIII, a 256; terms for God (Theism), b 254
Aryandes, governor of Egypt (Persia), XVIII, a 581, note
Aryans, race (Asia), II, b 609, a 610; (Caste), V, a 165; (Europe), VIII, *b* 612, a b 613; (Folk Lore), IX, a 313; (Horse), XII, a 184; (India), a 773, a 784; (Mythology), XVII, b 158-60, b 163; (Oxus), XVIII, a 106; (Persia), b 573, a 665; of ancient India (Buddhism), IV, b 381; cradle of the (Turkestan), XXIII, a 680 note; Hindu influence on (Vedanta), XXIV, b 128; investigated by philology (Ethnography), VIII, b 546; land customs, XIV, b 262-3; origin of (Slavs), XXII, b 155; primitive (Anthropology), II, a 104, a b 105; (Archæology), a b 299; (Taboo), XXIII, a 23
Arycandus, river (Lycia), XV, b 94, a 95
Arymbas I., king (Epirus), VIII, b 429
—— II. (Epirus), VIII, *b* 429
Aryks, canal (Zerafshan), XXIV, a 820
Arys, river (Syr-Daria), XXII, a 858
Arzamas, town. See ARSAMASS
Arzanene, district (Kurdistán), XIV, b 159
Arzen-Redhwan, river (Tigris), XXIII, a 413
Arzeroum. See ERZEROUM
Arzū, khan, poet (Hindustani Lit.), XI, a 757
As, coin, II, b 589; (Numismatics), XVII, b 652-3, a 657, b 669, *a* b 670, a 671; (Prætorians), XIX, b 676 note
Asaad Pasha, Khan of (Caravanserai), V, a 76
Asadi, Ali ben Ahmad al, poet (Persia), XVIII, a 669, a 673
Asaf Jah, Nizam (Hyderabad), XII, a 444, *b* 445
ASAFŒTIDA, II, a 590; (Afghânistân), I, b 208; (Ammoniacum), a 651
Asahâya, jurist (Sanskrit), XXI, b 302
Asaheim, country (Asgard), II, a 594
'Asal el-Ward valley (Lebanon), XIV, a 394
Asali, country. See ADAL
Asama, island (Zaire), XXIV, a 802
Asama-yama, volcano (Japan), XIII, a 581
Asamonæus. See ASMONEUS
Asan river (Dehra), VII, b 30
Asanga, monk (Lāmāism), XIV, a 229
Asanides, dynasty (Bulgaria), IV, b 462
Asaphic Psalter (Psalms), XX, *a* b 35-6
Åsar, glacial formations (Livonia) XIV, a 730
——. hills (Sweden), XXII, b 778
——, ridges. See Osar
Asarum canadense, drug (Snakeroot), XXII, a 199
Asben, oasis (Air), I, a 381; (Africa), b 230, a 234; (Oases), XVII, a 715; mountain (Sahara), XXI, b 157, *a* 158, *b* 159
ASBESTOS, mineral, II, a 590; (Filter), IX, b 149; (Mineralogy), XVI, b 435; (Salamandra), XXI, a 215 note
Asbjörnsen, Peder Christen, author (Norway), XVIII, b 605, a b 606; (Scandinavian Languages), XXI, a 390
Ásbóth, John, novelist (Hungary), XII, a 395
Asbury, Francis, bishop (Methodism), XVI, b 195, b 199
Asbuzi, town (Malatia), XV, a 323

Ascali, Gilbert d', grandmaster (Saint John of Jerusalem), XXI, a 183
ASCALON or Askulan, II, b 590; (Numismatics), XVII, b 667; (Philistines), XVIII, a b 769; battle of, 1188 (Egypt), VII, b 653, a 654
Ascanian princes (Prussia), XX, b 6-7; dukes (Saxony), XXI, *a* 368
Ascanio in Alba (Mozart), XVII, b 15
Ascanius, son of Æneas, I, a 165
Ascarides, worms (Nematoidea), XVII, b 333
Ascaris, genus (Nematoidea), XVII, a b 334, note; (Veterinary Science), XXIV, a 222, a 223; ova of (Reproduction) (Ill.), XX, a b 429, a 430
Ascension of Christ (Gospels), X, b 716; (Olives, Mt. of), XVII, b 785; paintings of (Correggio), VI, a b 387; (Mengs), XVI, b 14; (Perugino), XVIII, a 696
ASCENSION DAY, II, a 591; (Festivals), IX, a 102
ASCENSION island, II, a 591; (Africa), I, a 237, b 243; (Atlantic Ocean), III, b 17; (Tern), XXIII, b 206
——, island (Caroline Islands), V, b 111
——, right (Astronomy), II, b 668; (Comet), VI, a b 163, a 165, b 170
Ascension of Isaiah (Antichrist), II, a 111; (Apocalyptic Literature), II, a 158; *of Moses* (Apocalyptic Literature), II, b 155
Ascensius, printer. See BADIUS
ASCETICISM, II, a b 591; (Autisthenes), b 120-1; (Brahmanism), IV, a 185, a 186, b 189; (Buddhism), a 383, a 389-91; (Catherine), V, b 200; (Essenes), VIII, a 486-7; (Jovinianus), XIII, a 766: (Manichæism), XV, *b* 491-2; (Mohammedanism), XVI, b 570, a 571; (Monachism), b 724, b 725, a b 727; (Priest), XIX, b 749; (Pythagoras), XX, b 144, b 145
——, Brahman (Pessimism), XVIII, a 699; of Malebranche (Cartesianism), V, a 133; mediæval (Italy), XIII, b 515; oriental (Penance), XVIII, a 495; pagan (Orpheus), b 54; rules of (Carthusians), V, a *b* 143; Spinoza's relation to (Cartesianism), a 139; theory of (Schopenhauer), XXI, a 473, b 476, b 478, a 479
Ascetta, genus (Sponges) (Ill.), XXII, *a b* 428, b 438
ASCH, town, II, a 592
ASCHAFFENBURG, principality, a 592; (Forests), IX, a b 352, a 353; town, II, a 592
ASCHAM, Roger, scholar, II, a 592-3; (Education), VII, a 584; (Elizabeth), VIII, b 132, a 133; (English Literature), b 370, a 372; (Grey, Lady Jane), XI, a b 172
ASCHE, Ashe or Asshi, Rabbi, II, a 593; (Rab), XX, a 197: (Talmud), XXIII, b 41
ASCHERSLEBEN, city, II, a 593
Aschmedai, demon (Asmodeus), II, a 624
Ascidia, leaves (Botany), IV, a 103
—— mamillata, mollusc (Vertebrata) (Ill), XXIV, b 193, a 194, *a* b 195, a 202, a 203
Ascidiacea, order of (Tunicata), XXIII, a 656-8
Ascidian mollusc (Morphology), XVI, b 869; (Skeleton), XXII, b 117-8, b 121; (Smell), b 175
Ascites, disease (Dropsy), VII, b 407, a 408
Asclepia, schools (Hippocrates), XI, b 761
Asclepiadaceæ (Botany), IV, a 77, a 115, a 123, b 124, b 128, b 131, b 137
Asclepiadean metre (Horace), XII, a 169
ASCLEPIADES of Prusa, physician, II, b 593; (Hydropathy), XII, b 575; (Medicine), XV, a 812; (Surgery), XXII, a 709
Asclepias, plant (Botany) (Ill.), IV, b 121, a 125, b 139, a 140; (Horticulture), XII, b 257
Asclepius, god (Gythium), XI, a b 317; (Medicine), XV, a b 809-10; (Pergamum), XVIII, b 538. See ÆSCULAPIUS
Ascobolus, plant (Biology), III, b 600; (Reproduction), XX, *b* 438; furfuraceus (Fungus) (Ill.), IX, b 731, a 732
Ascococcus, form (Schizomycetes) (Ill.), XXI, a 420, a 423
Ascog house (Bute), IV, a b 517
Ascogonium or carpogonium, organ (Botany), IV, b 144; (Reproduction), XX, b 438
Ascolan dialect (Italy), XIII, b 506
ASCOLI, town, II, b 593. See also Asculum
——, state (States of the Church), XXII, b 477
——, Girolamo de. See NICHOLAS IV., pope
——, Graziado Isaia, philologist (Gypsies), X, b 547, *b* 551
Ascomycetes, order (Fungus), IX, b 731-4; (Lichens), XIV, a 555, a b 560; (Reproduction), XX, b 438-9, b 440, b 441, a 442, a b 443, *a* 444; (Vegetable Kingdom), XXIV, a b 139; free-cells of (Histology), XII, b 15
Ascon, type (Sponges), XXII, b 428-9, b 430, *b* 435, b 442, a 443
Asconematidæ, family (Sponges), XXII, a 439
Asconidæ, family (Sponges), XXII, b 438, b 444
ASCONIUS Pedianus, author, II, b 593
Ascospores, organs (Fungus), IX, a 728; (Histology), XII, b 15
Ascot races (Horse), XII, b 205, a b 206, a 207
Ascue, Anne. See ASKEW
Asculum, city (Ascoli), II, b 593; battle of, 278 B.C. (Rome), XXI, a 763
Ascutney mountain (United States), XXIII, b 842
ASELLI or Asellius, Gasparo, physician, II, b 593; (Anatomy), I, a 711, a 715
Asellus, genus (Crustacea), VI, b 571-2, b 573, b 574, b 580 note
Asexual generation (Muscineæ), XVII, b 75-6; (Planarians), XIX, b 184; (Reproduction), XX, a 419, a b 436-7, b 439, a b 440; (Sponges), XXII, b 440; (Trematoda), XXIII, b 572, b 574
ASGARD, mythical city, II, b 593-4
ASGILL, John, author, II, a b 594
Asgrimsson, Eystein, poet (Iceland), XII, b 658
ASH, tree, II, b 594
    bitter, b 594
    manna, b 594
    mountain, b 594
    poison, b 594
    prickly, b 594
    weeping, b 594

—— (Arboriculture), II, b 276, a 278, a 281; (Botany), IV, a 86, a 87, b 89, b 90, b 134, a 137, b 142; forests (United States), XXIII, b 859, b 860
A'shá, poet (Mo'allakát), XVI, b 560, a 561
Ashangi Lake (Abyssinia), I, a 62
ASHANTEE or Sianti, country, II, 594-6; (Africa), I, b 235, a 241; (Forests), IX, b 359; *Dictionary*, VII, b 167; Pepper, XVIII, b 527-8; war, 1873, II, a 596; (Elmina), VIII, b 141
Ashantees, tribes (Mythology), XVII, b 151; race (Gold Coast), X, b 672-3
Ash'arism, theological system (Mohammedanism), XVI, b 615
Ashburner, Chas. A., geologist (Petroleum), XVIII, a b 887; (United States), XXIII, a b 865, note, a 866
ASHBURTON, borough, II, a 596
——, John Dunning, baron, VII, a 470
—— collection (Hooch), XII, a 148; treaty, 1842 (Palmerston), XVIII, b 199
Ashby, town (Coal), VI, b 48
ASHBY-DE-LA-ZOUCH, town, II, a 596
Ashdod, city (Azotus), III, b 149; (Isaiah), XIII, a 388; (Philistines), XVIII, a b 769, note, a 770; (Semitic Languages), XXI, *b* 677, note
Ashdown, battle of, 871 (Alfred the Great), I, a 447
Ashe or Asshi, Rabbi. See Ascho
A-she-hoh (Ajoho), I, a 384; (Manchuria), XV, a 474
Ashem Vahishtem, angel (Zoroaster), XXIV, b 861
Asher, Harab Rabbenu (Rosh), XX, b 874-5
Ashera, goddess (Baal), III, a b 152; (Canaanites), IV, b 674; (Philistines), XVIII, b 770
Ashes (Coal), VI, a 44, a b 45, b 74; (Physiology), XIX, a 55, a 56, a 63; (Potassium), b 605; volcanic (Geology), X, b 216
ASHFORD, town, II, a b 596
'Ashik pasha, poet (Turkey), XXIII, a 698
Ashkenaz, legendary hero (Gomer), X, a 685
Ashkenazic ritual (Maḥzor), XV, b 295
Ashkenazim, oriental Jews (Israel), XIII, a 440; (Jews), a 694, b 695, a b 697
Ashlar work (Building), IV, b 416, a b 421
Ashley, lords. See SHAFTESBURY
Ashley, Mrs. (Elizabeth), VIII, b 132, a 133
Ashmole, Elias, antiquary (Freemasonry), IX, a 658; (Knighthood), XIV, b 118 note, b. 120 note, b 123, note, *a* 124; (Oxford), XVIII, b 98
Ashmolean Museum (Oxford), XVIII, b 98
Ashmooneyn, El, village (Egypt), VII, a 672
Ashpitel, architect (Building), IV, b 444, a 447
Ashraf, Afghan chief (Persia), XVIII, b 651-2
——, el-Melik el, sultan (Egypt), VII, a 657
—— Khaleel, El, sultan (Egypt), VII, a 656
Ashref or Eshref, town, VIII, b 480
Ashtádhyáyí (Sanskrit), XXI, a 306
Ashtar, general (Mohammedanism), XVI, a 589
Ashtarkhanides, rulers (Bokhara), IV, b 4
Ashteroth, city (Bashan), III, b 353, a 354
ASHTON-UNDER-LYNE, II, b 596
Ashtoreth or ASTARTE, II, a 643; (Ahab), I, *b* 373; (Aphrodite), II, a 151; (Baal), IV, a 152; (Philistines), XVIII, b 770; (Phœnicia), a 816; (Pilgrimage), XIX, *a* 100; (Semiramis), XXI, a 672
Ashuráda, island (Persia), XVIII, b 628
Ashwanipi or Hamilton river (Labrador), XIV, a 176
ASH WEDNESDAY, II, b 594; (Penance), XVIII, a 498
ASIA (Plate XXVI), II, a 596-614
    ancient notions of, b 596-7
    biology, a 604
    botany, a 605-7
    ethnology, b 608-10
    geology, a b 601
    history, a 610-3
    index, a 613-4
    meteorology, b 601-4
    physical features, a 597-601
    zoology, a 607-8

—— (Forests), IX, a 355-6; (Meteorology), XVI, a b

ASIA, *continued*
150-1; (Mining), XVI, b 491; (Poetry), XIX, a 276; (Protestants), a b 848; (Railway), XX, b 263-4
——, Catholic missions in (Propaganda), XIX, b 832, a b 833; Central (Meteorology), XVI, a 147, a 150, a 151, a 153; (Turkestan), XXIII, a 671-3; diocese of (Greek Church), XI, a 138; fauna, II, a 607-8; (Distribution), VII, b 234-5, b 240; flora, II, a 605-7; (Distribution), VII, *b* 249, a *b* 250, *b* 251; Greek influence in (Greece), XI, a 96, a 97; Greek invasion of (Isocrates), XIII, b 399-400, a 401, a b 403; magnetic pole of (Ill.), XVI, b 169, b 177; modern explorers in (Geography), X, a 173
Asia Polyglotta (Klaproth), XIV, a 109
ASIA MINOR, II, a 614-23
  boundaries defined, a 614-5
  climate, a 620-1
  descriptive geography, a 615-8
  divisions, b 621-2
  ethnography, b 621-2
  geology, a b 621
  history, b 622-3
  index, a b 623
  lakes, b 619-20
  mountains, b 615-8
  natural productions, a 620-1
  passes, mountain, a b 616
  rivers, a 618-9
  volcanoes, b 616
—— (Architecture), II, b 351-2; (Asia), b 599; (Finance), IX, b 150; (Greece), XI, b 81, *a* 82, a b 83, b 88, a 94, a 103; (Iconium), XII, a 735; (Mohammedanism), XVI, b 607; (Numismatics), XVII, b 661-2, a 676; (Turkey), XXIII, *a* b 695; (Weights and Measures), XXIV, a b 510, *b* 511, b 514
——, defence of (Troad), XXIII, a 615; early Christianity in (Peter), XVIII, b 710; Greek art of (Terra-cotta) (Ill.), XXIII, a 209-10; Ionic order in (Architecture), II, a b 356; organic forms of (Asia), b 606; protectorate over (Rome), XX, a b 771, a 773; remains in (Archæology), II, b 303, b 318
——, Northern and Central, Dictionaries, VII, a 167
——, Southern (Meteorology), XVI, a 148
ASIARCHS, officers, II, a 623
Asiatic coast (Pacific Ocean), XVIII, a 120, a 121, a 122, b 124; Elephant (Ill.), VIII, b 117, a-b 118, (Mammalia), XV, b 430; exploration (Humboldt, A.), XII, a b 358; ivy (Ill.), XIII, a b 536, b 537
—— languages (Dictionary), VII, a 164-7; (Philology), XVIII, b 792-3; genealogy of (Philology), b 799; origin of American tribes (Mexico), XVI, a b 215; plateaus (Turkestan), XXIII, a 672; printing (Typography), b 724; river system (Pacific Ocean), XVIII, b 120
—— Society (Jones, Sir W.), XIII, *b* 750; of Bengal (Libraries), XIV, a 533
—— Turkey, XXIII, b 694-5; wood carving, XXIV, b 683-4
Asidæans, sect (Israel), XIII, *b* 431, b 432, b 433
Asido, town. See JEREZ
Asiento, contract (Slavery), XXII, b 146
—— d'Ambato, town, I, b 579
Asili infantili, schools (Italy), XIII, a 471
'Ásim, lexicographer (Turkey), XXIII, a 699
Asio, bird (Owl), XVIII, *b* 92, a 93, note, a 94
Asioot or Asyut. See SIŪT, XXII, b 110
Asírgarh, fort (Nimár), XVII, b 522
Asisium, town. See ASSISI
Askabad, town (Merv), XVI, a 47; (Transcaspian), XXIII, a 544, a 545
Askar, el, city (Egypt), VII, a 650, a 652, b 667
Áskar-Mokran, district (Sugar), XXII, a 658, note
Aske, Robert, insurgent (York), XXIV, b 786
Askelon, town. See ASCALON
ASKEW, Anne, martyr, II, a 623
——, Anthony, physician (Bibliography), III, a 567
Askia, chief (Timbuktu), XXIII, a 418
Aski Shahr, town. See KASHGAR
Askold, legend of (Russia), XXI, a *b* 96
ASMAI or Asmayi, author, II, a 624
ASMODEUS or Aschmedai, demon, II, a 624; (Apocrypha), a 161; (Demonology), VII, a 57; (Devil), b 118; (Tobit), XXIII, a b 456
Asmonean family. See Hasmonæans
ASMONEUS or Assamoneus, kings, II, a 624
Asmundr Karasum, rune cutter (Scandinavian Languages), XXI, *b* 386
Asmus, pseudonym (Claudius Matthias), V, a 714
Asnyk, Adam, poet (Poland), XIX, b 317
Asoka, emperor (Architecture), II, a 345; (Buddhism), IV, b 387, a b 391; (India), XII, b 823, *a* 824, *b* 827, b 829; (Peshawar), XVIII, a 698; (Sanskrit), XXI, b 285; inscription (Afghânistân), I, a 216; (Himalaya), XI, b 745; XIII, a b 124, a b 125, b 126; king (Persia), XVIII, b 598
Asolani, the printers (Manutius), XV, b 520-1
ASOLO, town, II, a 624
Asopis (Hellanicus), XI, a 566
Asov, town. See AZOFF
ASP, viper, II, a 624; (Egypt), VII, b 618, a 619
Aspalathum. See SPALATO
Aspar, general (Leo I., emperor), XIV, *a* 453; (Marcian), XV, b 540
Aspara, town (Rubruquis), XXI, a 53, note
Asparagin, chemical substance (Mallow), XV, a 338; (Nitrogen), XVII, b 533; (Physiology), XIX, b 55, b 57, a 58, b 61, *a* b 62
ASPARAGUS, plant, II, b 624; (Botany), IV, b 75, a 86, b 93, a 94, a 114; (Horticulture), XII, a 290
Asparoukh or Asparuch, chief (Bulgaria), IV, b 462; (Slavs), XXII, a 156
ASPASIA courtesan, II, b 624; (Pericles), XVIII, b 543
ASPASIUS, commentator, II, b 624
ASPASIUS, sophist, II, b 624-5
ASPEN TREE, II, a 625; (Arboriculture), a 279; (Poplar), XIX, b 525-6; (United States), XXIV, a 860, a 862
ASPENDUS, city, II, a 625; (Numismatics), XVII, a 665; (Pamphylia), XVIII, a 211; (Theatre), XXIII, a b 242
ASPER, Hans, painter, II, a 625
Aspera, silver vase (Plate), XIX, b 192
Aspergillum, genus (Mollusca) (Ill.), XVI, a 711, b 713
Aspern, battle of, 1809 (Austria), III, b 116; (Launes), XIV, b 289
Aspers, coins (Numismatics), XVII, b 672
ASPHALT, mineral, II, a 625-6; (Building), IV, a b 411; (Mineralogy), XVI, a 447; (Mining), XVI, b 489; (Neuchatel), XVII, a 370; (Switzerland), XXII, a 816; (Tar), XXIII, a 64
——, artificial (Gas Lighting), X, a 91; pavement (Roads and Streets), XX, b 602-3, *a b* 603
Asphaltic lake (Dead Sea), VII, a 3
Asphaltum plates (Photography), XVIII, a b 835; spectrum effects on (Photography), XVIII, a 852
Asphodelus, plants (Horticulture), XII, b 257
ASPHYXIA, disaster, II, a 626; (Croup), VI, b 544, b 545; (Drowning), VII, a b 409; (Medical Jurisprudence), XV, a b 791; (Respiration), XX, a b 500; (Throat Diseases), XXIII, a 341
Aspidium, fern (Botany) (Ill.), IV, a b 145; (Ferns) (Ill.), IX, b 91
Aspidogaster, parasite (Trematoda) (Ill.), XXIII, a b 573, a 574
Aspidorhynchidæ, fishes (Ichthyology), XII, a 726
ASPINWALL or Colon, city, II, a 626
Aspirates (H.), XI, b 317; (Hieroglyphics), XI, b 710-1, b 714; (Latin), XIV, a 328; Aryan (Philology), XVIII, b 800, a 801 note; Dutch (Holland), XII, a b 89; Old Latin and Greek (Romance Languages), XX, a 680
Aspirator (Ill.) (Mining), XVI, b 482
—— surgical (Pleurisy), XIX, a 235; (Vesical Diseases), XXIV, a 206, a 207
Asplanchna, animalcule (Rotifera) (Ill.), XXI, *a* b 8, b 10, *a* 11, *a* 12
Asplenium, plant (Botany), IV, a 127, b 143; (Ferns), IX, *b* 90, *a* 91
Asporeæ, group (Schizomycetes), XXII, a 423
Aspra Spitia, town (Anticyra), II, a 112
Aspredinina, fishes (Ichthyology), XII, a 731
Aspredo, fish (Ichthyology) (Ill.), XII, *b* 698, a 699; (Pope), XIX, b 496
Aspromonte, mountain (Italy), XIII, a 449
Aspro Potamo, river (Achelous), I, a 89
Aspuzi, town (Malatia), XV, a 323
Ass, animal, II, a 626; (Arabia), b 211; (Egypt), VII, a 617, a 629; (Horse), XII, a 179; (Hybridism), a 441; (India), b 780; (Milk), XVI, a 316; (Mule), XVII, b 19-20; (Trinitarians), XXIII, a 611
Assa range (Cattack), V, b 211
——, king (Egypt), VII, a 636
"Assada merchants" (India), XII, b 837
Assafœtida. See ASAFŒTIDA
Assai, beverage (Pará), XVIII, b 237-238
Assal Lake (Africa), I, b 229
ASSAM, province, II, a 627-31
  administration, b 631
  boundaries and statistics, a b 627
  geology, b 629
  history, a 627
  inhabitants, b 630-1
  physical features, a 628
  soils, a 629
  vegetation, b 629
  zoology, a 630
—— (Bengal), III, 488; (Burmah), IV, b 497, *a* 498; (India), XII, b 776, b 777, a b 779, a *b* 780, a b 782, a 784, b 788, a b 789, *a* 790, *b* 800, b 804, b 805, b 809-10
—— gum (India Rubber), XII, a b 880; tea, II, b 629-30; (Himalaya), XI, a 744; (India), XII, b 788-9; (Tea), XXIII, a b 104, *b* 105, b 106, b 107
Assamar, chemical product (Baking), III, b 222
Assamese, people, II, b 627, b 630; *Dictionaries*, VII, a 166
Assamoneus. See ASMONEUS
Assarting, offence (Forests), IX, b 360
ASSAROTTI, Ottavio Giovanni Battista, educator, II, b 631
Assassination (Lycurgus), XV, b 97; (Mohammedanism), XVI, b 584; (Paris), XVIII, a b 295, a 296; (Persia), a 575, note; (Thugs), XXIII, a 348

Assassination of Guise (Delaroche), VII, b 38
ASSASSINS, sect, II, b 631–3; (Mohammedanism), XVI, a 616; (Mongols), b 768
ASSAULT, crime, II, a 633; (Women), XXIV, b 675
Assay master (Mint), XVI, b 503; trade (Mint), XVI, b 508
ASSAYE, village, II, a 633; battle of, 1803 (Wellington), XXIV, *b* 522
Assayers' muffle furnace, IX, a 741
ASSAYING (Ill.), II, b 633–6
  furnace and implements, b 634–5
  gold, b 633–4
  manipulation, b 635–6
  silver, a b 636
  volumetric, b 636

—— (Bismuth), III, b 687; (Coal), VI, b 74; (Copper), a b 312; Gold, II, b 633–6; X, a 669–70; (Metallurgy), XVI, a 68; metals (Plattner), XIX, b 224; (Mint), XVI, a 510; silver, II, a b 636; XXII, b 79; (Gay Lussac), X, b 111; (Lead), XIV, b 377; (Plate), XIX, b 197–8
Assegai, weapon (Kaffraria), XIII, a 829
Asselijn, Thomas, dramatist (Holland), XII, a 99
ASSELYN, Hans, painter, II, b 636
ASSEMANI, JOSEPH ALOYSIUS, orientalist, II, a 637; (Syriac Literature), XXII, a *b* 865, notes, a b 866 notes, *a* 867 notes, a b 871, note, a b 872, note, a *b* 873, note, *a* 874, b 875 note
——, Joseph Simon, librarian, II, b 636
——, Simon, orientalist, II, a 637
——, Stephen Evodius, librarian, II, a 637; (Syriac Literature), XXII, a 869, b 870, notes, a 876, a b 877, notes, b 879 notes, a 884, note, a b 889, notes, *a* 892, *b* 893, b 899 note, a *b* 901
Assemblée Nationale, L' (Newspapers), XVII, a 438
Assemblies, popular (England), VIII, b 249; or things (Sweden), XXII, a 783; mediæval (Ireland), XIII, a b 264
Assembly, Frankfort (Germany), X, a 454–5; Glasgow, 1638 (Scotland), XXI, a *b* 534
Assembly General (Presbyterianism), XIX, *a* b 700, a b 701, a b 702, a 703, *a* b 704; (Henderson), XI, a b 581; composition of (Scotland), XXI, a 565
Assembly of Ladies (Chaucer), V, b 390
—— of Notables (Egypt), VII, b 680; (Mirabeau), XVI, a 518
——, primitive (Rome), XX, a b 752, b 754; tribal (Germany), X, a 426, a 428, b 430; unlawful (Riot), XX, a b 579
ASSEN, town, II, a 637
ASSENS, town, II, a 637
ASSER or Asserius, John, biographer, II, a 637
—— of Amsterdam, lithographer (Photography), XVIII, b 846
Assessment (Poor Laws), XIX, a b 495
ASSESSOR, magistrate, II, b 637; (Prussia), XX, a b 23; (Trial), XXIII, a 590
Assessoria Regni (Poland), XIX, a 305
ASSETS, personal, II, b 637; real, b 637
Asshi, Rab. See ASCHE
Asshur, deity (Theism), XXIII, b 256
Asshur-bani-pal, king, Assyria (Egypt), VII, b 643, a 644
Assibilation (Latin Language), XIV, b 340; (K.), XIII, b 819
ASSIDEANS or Asidæans, sect, II, b 637
Assidui, freeholders (Land), XIV, b 261
Assignats, currency (France), IX, a 529, b 537; (Mirabeau), XVI, b 519
ASSIGNMENT, law-term, II, b 637; (Bankruptcy), III, *b* 297, a 298; (Contract), VI, a 288; (Novation), XVII, b 618; (Prize), XIX, b 787
—— of convict labor (Prison Discipline), XIX, *a* 770; of Copyright VI, b 317, a 324, a 325; (Protection), XIX, b 927, a 928; of marine Insurance, XIII, a 191; of share (Partnership), XVIII, a 336
Assimilation (Nutrition), XVII, a b 686; (Physiology), XIX, a 17
—— of impressions (Psychology), XX, *b* 57–8, *a* 65
Assini, settlement and river (Gold Coast), X, a b 672, a 673
Assiniboia, district (N. W. Territory), XVII, *b* 587
Assiniboine, river and tribes (Indians), XII, b 867, a 871; (Manitoba), XV, b 497
ASSISI, city, II, b 637; basilica of (Cimabue), V, b 680
ASSIZE, law-term, II, a 638; of Bread (Adulteration), I, a 152, a b 155; (Baking), III, a 216; circuits (England), VIII, a 237; courts, VI, b 458; maiden (Glove), X, b 617; trial by (Jury), XIII, a 794; Writ, XXIV, b 730
Assizes (England), VIII, a b 276; of Jerusalem, II, a 638; (Bouillon), IV, a 156; (Crusades), VI, b 553, a 556
Assmannhausen Wine, XXIV, b 643
Asso, town, II, a 638
Associate Presbytery (Presbyterianism), XIX, b 704; American (Presbyterianism), b 718, a b 719, a 720
—— Synods (United Presbyterian Church), XXIII, a b 776
—— system, Austria (Prison Discipline), XIX, b 777; Brazil (Prison Discipline), b 778; British (Prison Discipline), a b 775; Danish (Prison Discipline), b 778; German (Prison Discipline), a b 780; Italian (Prison Discipline), b 780; Russian (Prison Discipline), b 781; Spain (Prison Discipline), XIX, b 782; Sweden (Prison Discipline), a 783; Switzerland (Prison Discipline), a 783
Associated Press (Newspapers), XVII, b 446; (American Journalism), a b 885
Association for the Advancement of Science (Oken), XVII, b 772
——, Æsthetic (Psychology), XX, b 74–5; divergent or obstructive (Psychology), a 67 note; and evolution (Ethics), VIII, b 534
ASSOCIATION OF IDEAS, II, b 638–42; (Æsthetics), I, a b 200, a 201; (Belief), III, b 460–1; (Beneke), a 484; (Brown, Dr. Thos.), IV, a b 349; (Condillac), VI, a 224; (Hamilton, Sir W.), XI, a 373; (Hartley), a b 445; (Herbart), b 643; (Hobbes), XII, a 42; (Hume), a *b* 366, a b 367–8; (Logic), XIV, a b 801; (Psychology), XX, a 46, b 50, a 57, a b 58, note, a b 62, b 63, a 80, *b* 86–7
——, mental (Psychology), XX, a 65–71
"Association," wreck of the (Shovel), XXI, a 882
Associations, learned. See SOCIETIES
Associations of strata (Geology), X, b 261
Associative law (Geometry), X, b 337; synthesis (Psychology), XX, *a* 84
Assonance (Hymns), XII, a 618
Assoilzie, law-term (Absolution), I, b 58
Assonium, town. See AUXONNE
Assos, town. See ASSUS
Assuanek race (Soudan), XXII, a 292
ASSUAY, province, II, b 642; mountains (Andes), b 17; (Ecuador), VII, b 558, *a* 559
Assumpsit, action in (Tort), XXIII, a 483; (Wager), XXIV, a 326
ASSUMPTION OR ASUNCION, city, II, b 722; (Paraguay), XVIII, a b 248, a 249
ASSUMPTION, feast, II, b 642
—— *of Christ*, painting (Correggio), VI, a 387
—— *of Moses*, book (Apocalyptic Literature), II, b 155
—— *of the Virgin*, paintings (Cignani), V, a 678; (Dürer), VII, b 478, b 481; (Perugino), XVIII, b 695; (Rubens), XXI, b 49; (Titian), XXIII, b 441
Assungay, colony (Brazil), IV, b 211
Assur, city (Nineveh), XVII, a 526
Assurance. See INSURANCE
——, doctrine of (Methodism), XVI, b 199
Assurance Magazine (Annuities), II, b 75, *b* 76, *a* 77; (Insurance), XIII, a b 181, note, a 184, a 185, a 190
Assurbanipal, king (Babylonia), III, a 163, b 165; (Cosmogony), VI, a 395; (Gyges), XI, a 310; (Libraries), XIV, a 509
Assur Nasir pal, palace of (Babylonia), III, b 161, b 164; (Ninevah), XVII, a 526
Assus, city (Troad), XXIII, a b 615, a b 616–17, note
Assynt loch and parish (Sutherland), XXII, *a* 764
ASSYRIA, II, b 642; III, a 159–68; (Egypt), VII, *b* 643–4; (Elam), *b* 689–90; (Enamel), VIII, b 167; (Fine Arts), IX, a 185; (Flag) (Ill.), a b 241; (Fountain), a b 428; (Furniture), a 745; (Gems), X, b 122, a *b* 123; (Glass), b 577; (Horticulture), XII, a b 309; (Hunting), XII, b 408; (Libraries), XIV, a 509; (Nimrod), XVII, b 524; (Pottery and Porcelain) (Ill.), XIX, b 621–3; (Ring), XX, a 575; (Semiramis), XXI, b 671–2; (Semitic Languages), a b 679
Assyrian Architecture, II, a 348–50; Arms and Armor, a 486
—— arts (Archæology), II, *a* b 303, a 304, b 308; (Babylonia), III, a 163–4; (Drawing), VII, a b 387; bronze lion, coin (Weights and Measures), XXIV, a 514
—— Canon (Chronology), V, b 617; (Israel), XIII, b 424
—— conquest (Phœnicia), XVIII, a b 821; Costume (Ill.), VI, a 405; *Dictionaries*, VII, b 164; Harp, XI, a 437; Helmet, b 568; hieroglyphs (China), V, b 568–9; inscriptions (Chronicles), b 615; (Hittites), XII, *a b* 28, a b 29; (Inscriptions), XIII, a 120, b 121–2; (Iron), b 296; invasion (Isaiah), XIII, b 388–9; Jewellery, XIII (Plate XI), a b 686, a 687; kings (Incense), XII, b 758
—— language (Hebrew Language and Literature), XI, a 532, a b 533; (Semitic Languages), XXI, *a* 673, *a* 674, b 675, *a b* 676, note, a b 682, notes; Metal-work, XVI, a b 78, b 79; mural decorations (Ill.), XVII, b 40, a 41; Pilgrimage, XIX, a 100; Plate (Ill.), b 189–90; prophets (Bible), III, b 553
—— Religion, XX, a b 374, b 382; (Theism), XXIII, b 256; Sword, XXII, b 839–40; weaving (Textiles), XXIII, a b 225; Weights and Measures, XXIV, b 513, a 514; writing (Alphabet), I, a *b* 531, *a* 532
Assyrians, people (Asia), II, a b 610; (Israel), XIII, a 417, a 418, b 420, a b 421–2, a b 423, a b 424, *a* b 425, b 426–7; (Magic), XV, a b 202; (Moab), XVI, a 559; (Persia), XVIII, b 574, note, b 575
Assyriologists (Israel), XIII, b 424
Assyro-Babylonian Syllabary (Hieroglyphics), XI, a b 715, b 722

- AST, George A. F., philologist, II, b 642-3
- Asta, town (Madura), XV, a 195
- Astacus, genus (Crustacea), VI, a 582
- Astagnum, battle of, 1053 (Leo IX.), XIV, b 450
- Astapus, river (Nile), XVII, b 521
- ASTARTE or Ashtoreth, goddess, II, a 643; (Ahab), I, *b* 373; (Aphrodite), II, a 151; (Baal), III, b 152; (Philistines), XVIII, b 770; (Phœnicia), a 816; (Pilgrimage), XIX, *a* 100; (Semiramis), XXI, a 672
- Astasina, genus (Protozoa) (Ill.), XIX, b 880, b 881, b 883
- Astatic galvanometer (Ill.), X, b 45-6, b 47; needle (Magnetism), XV, b 269; suspension (Seismometer) (Ill.), XXI, b 660
- Astauene, kingdom (Persia), XVIII, a 603
- Aste, Jean Hilaire, musician (Ophicleide), XVII, *a* 801
- *Asteia* (Hierocles), XI, b 708
- ASTELL, Mary, authoress, II, a 643
- Astenberg, mountain (Westphalia), XXIV, a 545
- Astepa, town. See ESTEPA
- ASTER, plant, II, b 643; (Horticulture), XII, b 255, b 256, a b 257
- Asterabad, town. See ASTRABAD
- Asteracanthion, genus (Animal Kingdom), II, b 47
- Asterias, genus (Echinodermata) (Ill.), VII, b 547, a *b* 548, *a* 549
- Asteridea, order (Echinodermata) (Ill.), VII, a 544, a 547-9, a 550, a *b* 555
- ASTERIUS of Amasia, homilist, II, b 643
- ASTERIUS of Cappadocia, sophist, II, b 643
- ASTEROIDS, II, b 643; (Astronomy), a 705-7; (Olbers), XVII, b 774; Mars and (Parallax), XVIII, a b 254-5; table of oppositions of (Parallax), b 255
- Asteropherus, Magnus Olai, dramatist (Sweden), XXII, b 792
- Asterophora, sub-order (Sponges), XXII, a 440
- Asthenia, disease (Heart), XI, a 494
- Asthenopia, disease (Ophthalmology), XVII, a 807, a 808
- ASTHMA, disease, II, b 643-4; (Hay Fever), XI, a 484; (London), XIV, b 836; specific for (Skunk), XXII, b 134
- ASTI, town, II, b 644; wines, XXIV, b 642
- Astigis, town (Ecija), VII, a 556
- Astigmatism, defect (Eye), (Ill.), VIII, b 716, a 717; (Ophthalmology), XVII, a b 807; (Optics), b 829; (Spectacles), XXII, a b 387
- Astilbe, plant (Botany), IV, a 111, b 113; (Horticulture), XII, b 257
- Aston, W. G., grammarian (Japan), XIII, b 595 note
- ASTOR, John Jacob, merchant, II, b 644; (Halleck, F.), XI, b 353; (Pacific Railroads), XIX, a 913; (Washington Territory), XXIV, b 408
- —— library, New York, XIV, b 535, a 541; Place riot, New York (Tallmadge), XXIII, b 919
- ——, William Bristed, landlord (Bunsen), IV, a 467, note; (Schopenhauer), XXI, b 470
- ASTORGA, city, II, a 645
- ——, EMMANUELE D,' composer, II, a 645
- Astoria, town (Astor), II, b 644; (Oregon), XVII, a *b* 848, a 849; (United States), XXIII, a 858
- *Astoria*, history (Hudson's Bay Company), XII, a 347; (Irving, W.), XIII, b 383
- *Astra Castra* (Aëronautics), I, b 171, a b 187
- ASTRABAD or Asterabad, province, II, a 645; city, a 645; (Persia), XVIII, b 638, a 639; bay (Caspian Sea), V, a 155
- Astræa, asteroid (Astronomy), II, a 706
- *Astræa redux* (Dryden), VII, a 422
- Astræidæ, family (Corals), VI, a 330, a 331, a 333, b 334, b 336, *a* 337
- Astragals, diagonal (Lighthouse), XIV, a 626, a 636
- Astragalus, plants (Horticulture), XII, b 257; (Botany), IV, a 74, a 78, *b* 102, b 130, a 135
- Astrakanite (Mineralogy), XVI, b 418
- ASTRAKHAN, government, II, b 645; (Calmucks), IV, a b 629; city, II, b 645-6; (Russia), XXI, a 76, b 82, 83, a 84, *a* b 87, a 88, a 93, a b 100, b 104; (Mongols), XVI, *b* 774, a 775, b 776; (Turkey), XXIII, a 685; (Volga), XXIV, *a b* 300, a b 301
- —— Tartars, XXIII, b 76
- *Astrée* of d'Urfé (Pastoral), XVIII, a b 351
- Astreptæ (Grasses), XI, a 53
- Astringent preparations (Iron, Therapeutics of), XIII, a b 370
- Astrodisculus (Protozoa) (Ill.), XIX, a 866, b 867
- Astrogonium (Echinodermata) (Ill.), VII, a 548
- Astrolabe, instrument (Geography), X, b 162; (Hermann), XI, b 661; (Navigation) (Ill.), XVII, a *b* 258-9; of Hipparchus (Ptolemy), XX, a 95
- Astrolabe bay (New Guinea), XVII, b 396, b 397, a 399
- "Astrolabe," explorations (Dumont D'Urville), VII, a 458
- Astrological altar of Gabies (Zodiac), XXIV, b 834; week (Sabbath), XXI, a b 134
- Astrologers (Nepāl), XVII, a 351; (Parsis), XVIII, a b 331
- ASTROLOGY, II, a 646-50
  - classical age, b 646-7
  - definitions, a 646
  - etymologies, a 650
  - horoscopes, b 648
- ASTROLOGY, *continued*
  - judicial, b 647-8
  - natural, a b 647
  - oriental, b 647
  - political, b 646
  - predictions, a b 649
  - primitive, a b 646

- —— (Alchemy), I, *a* 407; (Almanac), b 520; (Cardan), V, a 81; (Divination), VII, a 255; (Jesus Christ), XIII, b 670, b 671; (Kepler), XIV, b 47, a 48; (Lilly), a b 649; (Magic), XV, a 200, a b 202, b 203, a b 204, a 205, a 207; (Magic Square), a 214-5; (Mandæans), b 476-7; (Nostradamus), XVII, a 611; (Zodiac), XXIV, a b 834
- *Astronomica* (Manilius), XV, a 496
- Astronomical day (Clock), VI, b 14; (Time), XXIII, a 419
- —— determinations, collateral (Surveying), XXII, a b 749; expeditions, American (Surveys), XXII, b 940
- —— observations (Geodesy), X, b 148-50; errors of (Surveying), XXII, b 731
- —— refractions (Ivory, James), XIII, a 535; ring (Navigation) (Ill.), XVII, b 258-9; slides (Magic Lantern), XV, b 213
- —— Society, Royal, London (Herschel), XI, b 686; (Societies), XXII, b 236
- *Astronomische Nachrichten* (Observatory), XVII, b 732; (Schumacher), XXI, b 480
- ASTRONOMY, Plates XXVII-XXX (Ill.), II, a 650-721
  - BIBLIOGRAPHY, a b 720
  - HISTORY, a 650-67
    - Alexandrian school, a 654-6
    - Arabian, a b 656
    - Asiatic, b 650-2
    - Chinese, a 651-2
    - eighteenth century, English, b 660-1, a b 662, a 666; French, b 661, a b 662, a 663, b 664-6; German, a b 664
    - European revival of, b 656-67
    - Galileo, b 658
    - Greek, a 652-4
    - Hipparchus, b 654-5
    - Kepler, b 657-8
    - Laplace, a 665-6
    - Napier to 18th century, a 659-60
    - origin, a b 650
    - Piazzi, b 662-3
    - Ptolemy, b 665-6
    - Regiomontanus, a b 657
  - INDEX, a 720-1
  - THEORETICAL (Ill.), a 667-721
    - asteroids, a 705-7
    - comets, a 712-4
    - Copernican system, a 680-1
    - corona, solar, a 690-1
    - earth as a globe, b 669-71
- ASTRONOMY, *continued*
  - THEORETICAL
    - earth's axis, a 694; figure, b 692-3; mass and density, b 693-4; orbit, changes of, b 695
    - eclipses, a 702-3
    - elements of solar system, 683-5
    - equation of time, a 675-6
    - equatorial instrument, b 671
    - gravitation, a 682-3
    - Jupiter, a 707-9
    - Kepler's Laws, b 681
    - libration, a 700
    - lunar disk, aspects of, b 700-2; parallax, b 677-8; theory, b 698-9
    - Mars, b 703-5
    - months, lunar, b 699
    - moon's apparent motions, a 677; phases, b 697
    - nebulæ, a 718-9
    - Neptune, b 711-2
    - nutation, a 695
    - planetary apparent motions, a 679
    - planets, inferior, b 691-2
    - precession of the equinoxes, b 694
    - refraction, a 672-3
    - right ascension, b 668-9
    - Saturn, b 709-11
    - seasons, a 676-7
    - sidereal universe, theories of, a b 719
    - sierra, solar, a 690
    - solar day, b 674-5; spectra, a 689
    - stability of solar system, b 683
    - star sphere described, a 667-9
    - stars, fixed, a 714; temporary and variable, b 716-7
    - stellar proper motion, a 717-8
    - sun spots and rotation, a 685-8
    - sun's apparent motion, b 673; distance, determination of, a 696-7
    - Uranus, a b 711
    - zodiacal light, a b 691

- ——, Arabian, II, a b 656; (Albategni), I, b 397-8; (Al-Mamum), a 519; (Arabia), II, b 231; of Bar Hebræus (Syriac Literature), XXII, b 898
- —— (Arago), II, b 265, b 266; (Bailly), III, b 210; (Campani-Alimenis), IV, b 665; Chaldean II, b 650-1; (Babylonia), III, a b 165, a 166; Chinese, II, a 651-2; (Delambre), VII, a b 37; Egyptian, II, a 651; (Galileo), X, b 29, a b 32; (Gauss), b 104
- —— Greek, II, a 652-6; (Anaxagoras), a 3; (Geography), X, a b 158; (Pythagoras), XX, a b 145; (Thales), XXIII, a 236, a 237

ASTRONOMY, heliocentric (Capella), V, b 48; (Herschel), XI, b 683-7; (Horrocks), XII, b 175–6; (Huygens), b 431, a 432
—— Indian, II, b 652; (Algebra), I, b 456; (Sanskrit), XXI, b 287, a b 309
——(Infinitesimal Calculus), XIII, a 20; (Kant), b 856; (Kater), XIV, b 16; (Kepler), b 47-50; (Lacaille), a 183; (Lagrange), b 210, a 211; (Laplace), b 301-4; (Lemonnier), a 440; (Leverrier), b 486-7; (Maskelyne), XV, b 615-6; (Maupertuis), b 642; (Mayer), b 655; (Measurement), b 670; (Mechanics), a b 716, b 732-3; (Mohammedanism), XVI, b 618; (Music), XVII, b 85; Phœnician, II, a 651; (Pond), XIX, a 467; (Regiomontanus), XX, b 354
——, observational (Mechanics), XV, b 683; *Outlines of* (Herschel, John), XI, b 687; Ptolemaic, II, b 655–6; (Ptolemy), XX, a 94-6
Astropecten, genus (Echinodermata) (Ill.), VII, a 548, *a* 549
Astrophel and Stella (Sidney), XXII, b 40, note, a 41
Astrophotometer (Zöllner), XXIV, b 837
Astrophyllite (Mineralogy), XVI, a 431
Astrophytidæ, family (Echinodermata), VII, a 550
Astrorhiza, genus (Protozoa), XIX, a 860; (Foraminifera), IX, a b 328
Astrórhizidea, order (Protozoa) (Ill.), XIX, b 868, a 869
ASTRUC, Jean, physician, II, a 721; (Bible), III, b 550; (Pentateuch), XVIII, a 516
Astur, genus (Goshawk), X, a 701; (Hawk), XI, b 477
Astures, tribe (Cantabria), V, b 25; (Spain), XXII, a 322
Asturia de Santa Juliana, province (Santander), XXI, a 312
Asturian dialect (Spain), XXII, b 364-5, b 366; institute (Gijon), X, a 527
Asturias, kingdom of (Spain), XXII, b 325-6, a 327
ASTURIAS, province, II, b 721; (Oviedo), XVIII, b 87 note; peasantry of (Pellagra), a 487 note, a 488; (Spain), XXII, *b* 309, *a* 310, b 312, b 314, a 316
Asturica, town. See ASTORGA
Astyages, Median, king (Cyrus, Elder), VI, b 663, *a* 664; (Persia), XVIII, b 575-6, b 577
Astylus, genus (Hydrozoa) (Ill.), XII, a b 598
Asua, river (Nile), XVII, a 519, a 521
Asubha-bhāvanā, meditation (Buddhism), IV, b 390
ASUNCION, city, II, b 722; (Paraguay), XVIII, a b 248, a 249; establishment of (Argentine Rep.), II, *a* 341
Asur, city (Babylonia), III, a 159
Asuras, mythical beings (Mythology), XVII, b 159; (Zoroaster), XXIV, *b* 860, *a* 861
Asvalâyana, author (Sanskrit), XXI, *a* 290, b 295
Asvins, gods (India), XII, a 820
Aswamedha, sacrifice (India), XII, a 828
Aswán, town (Egypt), VII, a 679
ASYLUM, II, b 722; right of (Arrest), b 550; (Shi'ites), XXII, a 699
Asylums (Dublin, city), VII, a 431; (Hawaiian Islands), XI, b 472; (Ireland), XIII, a b 245; (Italy), b 472-3; (London), XIV, a 843; (Poor Laws), XIX, a b 490; and almshouses (England), VIII, b 231-2
Asymptotes (Infinitesimal Calculus), XIII, a b 28; (Conic Sections), VI, a b 250; (Curve), *a b* 638-9; defined (Geometry), X, a 357, a 358, a *b* 359; of hyperbola (Mensuration), XVI, b 24-5
Asymptotic lines (Surface), XXII, b 705
Asyoot, Asyut or Asioot, town (Egypt), VII, b 672. See SIÚT
As You Like It, play (Romance), XX, b 675; (Shakespeare), XXI, b 774, a 800, a 805
Asystole (Heart), XI, *a* 494
Atabapo, river and town (Orinoco), XVII, *a* 868
Atabbi, river (Nile), XVII, a 519
Atabeg or Atabek, title (Luristan), XV, a 70; (Seljuks), XXI, a 667
——, money (Numismatics), XVII, a b 678
Atabyris, mountain (Rhodes), XX, b 539
ATACAMA, province, II, b 722-3; (Bolivia), IV, *a* b 11, b 13, *a* 14, *a* 15; (Chili), V, a b 535, *b* 536, a 537, b 539, a *b* 540, a b 541, b 542
Atacamite, mineral (Chili), V, b 540; (Copper), VI, b 308; (Mineralogy) (Ill.), XVI, b 400
Atacazo, mountain (Ecuador), VII, a 559, a 560
Ata-Gang-lá pass (Tibet), XXIII, a 362
ATAHUALLPA, Inca, II, a b 723; (Caxamarca), V, b 242; (Ecuador), VII, a 563; (Ibarra), XII, a 639; (Peru), XVIII, b 690
Ataíde, Alvaro d', governor of Malacca (Xavier), XXIV, *b* 753, *a* 754
——, Caterina, de, sweetheart (Camoens), IV, *a* 660, a 661
Atairo, mountain (Rhodes), XX, b 539
Atak, district (Persia), XVIII, b 628-9
Atala or Loves of Two Savages (Chateaubriand), V, *b* 378, b 379
Atalik Ghazi, amír. See Yakub Beg
ATALANTA, heroines, II, b 723
Atalantis, island. See ATLANTIS
Atalantis, novel (Manley), XV, a 499
Atalapha, genus of bats (Mammalia), XV, b 415
Atalaya, town (Canary Islands), IV, a 706
Atan, dance (Afghanistan), I, a 213
Atapuerca, battle of, 1054 (Spain), XXII, a 327
Atargatis, goddess (Hierapolis), XI, b 706; (Philistines), XVIII, b 770, note
Ataulf or Ataulphus, Visigothic king (Goths), X, a 755; (Rome), XX, b 798; (Spain), XXII, a 323
Atavism or reversion (Breeds), IV, b 221-2, a 223; (Ethnography), VIII, *a* 541; (Siredon), XXII, b 104
Ataxic Aphasia, II, *b* 150
ATAXY, LOCOMOTOR, disease, II, b 723-4; (Insanity), XIII, a 107
ATBARA, river, II, a 724; (Abyssinia), I, a 62; (Africa), a 227; (Nile), XVII, b 520, a 521
Atbash, cipher (Kabbalah), XIII, a b 822
Atbo, town. See EDFU
ATCHAFALAYA, river, II, b 724
Atchinsk, town (Yeniseisk), XXIV, *b* 780
Atchison, city (Kansas), XIII, b 853
Atchison, Topeka and Santá Fe Co. (Kansas), XIII, a 853; (Pacific Railroads), XIX, *b* 919
ATE, myth, II, b 724
Ateas, king (Scythia), XXI, a 605, note
Ateles, monkeys (America), I, b 598; (Ape) (Ill.), II, a b 134, a *b* 137, a *b* 139, *a b* 140, *a b* 141, *a b* 142, *a b* 143, a *b* 144, *a* b 145, a b 147
Atelier, work-room (Painting), XVIII, a 141; mediæval (Wohlgemuth), XXIV, a 661; Ateliers nationaux (Communism), VI, a 191, a 195; (Coöperation), a 302
ATELLA, city, II, b 724
Atellanæ, fables (Drama), VII, b 354
Atelodus, genus (Rhinoceros), XX, a b 537
Atelornis, genus (Birds), III, a 659
Aten, god (Egypt), VII, a 640
Aterno river (Italy), XIII, *b* 447, b 448
Ateste, town. See ESTE.
Ateuchus sacer, beetle (Coleoptera) (Ill.), VI, a b 119
ATH or AETH, city, II, b 724
ATHABASCA, river and lake, II, b 724; district (N. W. Territory), XVII, *b* 587
Athabascans, tribes (Indians), XII, b 865, a 867, a 871, a 873
Athalaric, Gothic King (Amalasontha), I, b 572; (Goths), X, a 756
ATHALIAH, queen, II, b 724; (Israel), XIII, b 422
Athalia Spinarum. See SAW-FLIES
Athalie, play (Racine), XX, a 213, a 215
Athamas, king (Hellespont), XI, b 568
Athanaric, Visigothic king (Goths), X, *a b* 754; (Hungary), XII, *b* 396-7; (Ulfilas), XXIII, *a* b 767
Athanasian Creed, VI, a 497-9; (Chillingworth), V, b 543; (Libraries), XIV, b 331
ATHANASIUS of Alexandria, St., II, a 725-6; (Archbishop), a 323; (Arius), b 472; (Canon), V, a b 11; (Clergy), b 722; (Creeds), VI, a 496, b 497-9; (Egypt), VII, b 648-9; (Eusebius), VIII, a b 633, b 634; (Fathers of the Church), IX, b 44, a 45; (Greek Church), XI, a 140; (Hermeneutics), b 667; (Hymns), XII, a 614; (Julius I.), XIII, a 781; (Liberius), XIV, a b 508; (Monachism), XVI, *a* 726, a 728; (Palmyra), XVIII, b 205 note; (Popedom), XIX, a 505
—— of Balad (Syriac Literature), XXII, a 883
—— Gammālā, patriarch (Syriac Literature), a 881
Athani, town (Belgám), III, b 443
'*Athár*, caliphs' decisions (Mohammedanism), XVI, a 617
—— or Attar, poet. See FERID EDDIN ATHAR
Atharvan or *Atharva Veda* (Brahmanism), IV, *b* 182, a b 183, a 184, b 186; (Sanskrit), XXI, *b* 283, *b* 284, a b 286, b 288-9, a 293-4
Athecæ, sub-order of Chelonians (Tortoise), XXIII, b 485
Atheism (Cudworth), VI, b 609, a 610; (Holbach), XII, b 55; (Hume), a 369; (Jacobi), XIII, a b 547; (Locke), XIV, a 763; (Lucretius), XV, a b 56; (Theism), XXIII, a 253
Atheism, Necessity of (Shelley), XXI, a 827
Athelstan. See Æthelstan
ATHELSTAN, English king, II, b 726-7; (England), VIII, a 257, a 333; (Haco), XI, a 322; (Hunting), XII, b 409; (Ireland), XIII, b 258; (Lothian), XV, a 12; (Mint), XVI, a 503; (Poor Laws), XIX, a 477; (Scotland), XXI, a b 501; (Yachting), XXIV, b 758
Athelstaneford, parish (Haddington), XI, a 324
ATHENA or Athene, goddess, II, a b 727; (Ajax), I, b 383; (Ajax Oileus), a 384; (Diomedes), VII, b 214; (Gorgon), X, a 698; (Greece), XI, b 86; (Mythology), XVII, *a* 145, b 160-1
——, cult of (Sacrifice), XXI, a 144
—— *Ægina*, statue (Archæology), II, b 307-8
—— Alea. See Temple of.
—— *Lemnian*, statue (Phidias), XVIII, b 747

ATHENA, *Parthenos* (Archæology), II, b 310, a 311
—— Polias, temple of, at Priene (Inscriptions), XIII, b 127
—— *Promachos*, statue (Archæology) (Ill.), II, b 310; (Athens), III, b 6; statues of (Phidias), XVIII, b 747 note, a b 748; statuette of (Costume) (Ill.), VI, a b 401
—— Tritogenea, goddess, II, a b 727
Athenæ Cantabrigienses (Cooper, C. H.), VI, b 299
Athenæ Diades (Athens), III, a 3
Athenæ Oxonienses (Wood, A.), XXIV, b 677, a 678
ATHENÆUM, II, b 727–8; (Manchester), XV, b 468, b 471; (Belgium), III, *a* b 440; Boston (Libraries), XIV, b 538, b 539, b 552; Club, VI, *b* 40, a 41; (Libraries), XIV, b 517
Athenæum, periodical (Germany), X, b 484
ATHENÆUS, grammarian, II, a 728
—— physician (Medicine), XV, b 812
ATHENAGORAS, apologist, II, a b 728; (Canon), V, b 8–9
——, orator (Syracuse), XXII, b 853
Athenian assemblies (Ecclesia), VII, b 538–9; character under the Romans (Athens), III, a 9, note; conquest of Samos, XXI, *a* 262
—— festivals (Isthmian Games), XIII, b 442; (Antinous), II, a 115; (Athena), b 727; (Panathenæa), XVIII, b 213–4; (Gymnasium), XI, b 310–1; inscriptions, XIII, b 129; laws (Demosthenes), VII, b 60–1, a 63; (Solon), XXII, a 267–8; (Usury), XXIV, a 23; morality (Sophists), XXII, a b 282; naval policy (Themistocles), XXIII, b 269; (Pericles), XVIII, a 541; (Persia), a 585; nobility, XVII, a b 540; philosophers (Sophists), XXII, a 278–9; politics (Isocrates), XIII, a b 401, a 403; (Socrates), XXII, b 247–8; schools, later (Rhetoric), XX, b 529; siege of (Syracuse), XXII, b 853–4; spirit (Thucydides), XXIII, b 343; Theatres, a 241–2; trireme (Ship), XXI, a 843–4; Weights and Measures, XXIV, a 510, *b* 516
Athenians, people (Greece), XI, b 86; first collision with Persia, XVIII, a b 582
Athenis of Chios, sculptor (Archæology), II, a 305; (Bupalus), IV, a 475
ATHENODORUS, Canaanites or Sandonus, philosopher, II, b 728
——, Cordylion, librarian, II, b 728
—— of Rhodes, sculptor (Laocoon), XIV, a 293
ATHENRY, town, II, b 728
ATHENS, city, III, a 3–12
  Clisthenean period, b 4–5
  Goths and Turks, b 10–12
  Macedonian period, b 8
  Periclean period, a 6–8
  Pisistratids, reign of, a b 4
  present condition, b 11–12
  primitive structures, a b 3–4
  rebuilding after the Persian war, a 5–6
  Roman period, a 9–10
—— (Academy), I, a 67; (Adoption), I, a 149; (Agora), a b 254; (Alexander the Great), *b* 425; (Antalcidas), II, a 89; (Aqueduct), a b 191; (Byzantium), IV, b 546–7; (Cleon), V, a b 721; (Club), VI, b 38–9; (Corinth), b 353; (Demetrius I.), VII, *b* 51; (Demosthenes), a b 60–3; (Dorians), b 317, b 318; (Finance), IX, a *b* 150–2; (Fire), a 200; (Fountain), a 428; (Genealogy), X, b 128; (Greece), XI, b 85, a *b* 86, a b 87–8, *a b* 89, *a b* 90, a b 91, *a b* 92, *a* b 93, b 96, b 97, b 98, b 101, a 107, b 108; (Hadrian), b 325; (Hephæstus), *b* 605; (Hermes), a 670; (Herodotus), a b 677; (Homer), XII, a b 113, a b 119; (Inscriptions), XIII, *b* 128, *a* 129; (Ionia), b 209, a 210, a b 211; (Iphicrates), b 217; (Justinian I.), a 806; (Libraries), XIV, a 552; (Lysias), XV, b 118; (Macedonian Empire), a b 140; (Neoplatonism), XVII, a 347; (Numismatics), a *b* 648, b 658–9; (Observatory), b 734; (Olive), b 784; (Paul), XVIII, a 430; (Pericles), a 540–1, b 542–3; (Phocion), a 812–4; (Pisistratus), XIX, b 139–40; (Prytanis), XX, a 33; (Sicily), XXII, *b* 22–3; (Slavery), *a* b 138, *a* 139; (Theseus), XXIII, b 314, a b 315, a 316; (Xenophon), XXIV, *b* 756, a *b* 757
——, acquisition by (Salamis), XXI, b 215; art in (Archæology), II, a 315, a 317, a b 319; (Pindar), XIX, a 108; remains in (Architecture), II, b 362; chronology, how reckoned (Archon), b 419; climate of (Attica), III, a 52; Drama in, VII, b 349, b 350, a 351, b 352; (Theatres), XXIII, a 241–2; duke of (Italy), XIII, b 487, b 489; foreign relations of (Persia), XVIII, b 582, a 583, a b 585, a 590, a 591 note; glory of (Pericles), a 540–b 544; hegemony of (Delos), VII, a b 46; (Greece), XI, b 90–1; (Paros), XVIII, b 325; (Thasos), XXIII, a 240; history of (Thucydides), XXIII, b 343–7. See GREECE, XI, b 85–101; military service in (Army), II, a 491; modern, III, a 11–2; (Greece), XI, a 75, b 76, a 77, *a* b 78, b 80; plain of (Attica), III, a 53
Athens, People of, painting (Parrhasius), XVIII, a 327
—— sack of, 86 B.C. (Sulla), XXII, a 666; school of (Neoplatonism), XVII, a 347; (Rhetoric), XX, b 529; secular buildings in (Archæology), II, b 318; situation and roads (Attica), III, a 53; subversion of (Cleomenes), V, b 720; University of (Greece), XI, a b 78
ATHENS, town, Georgia, III, a 12; X, *a* b 392, *a* 393
——, town, Ohio, III, a 12
Athenaion, The (Greece), XI, a 135, a 136
Atherinidæ, fishes (Ichthyology), XII, b 715, a b 729
Atheris, genus (Snakes), XXII, a b 210; (Viper), XXIV, b 265, b 266
Atheroma of arteries (Pathology), XVIII, a 399; (Surgery), XXII, b 718
ATHERTON, town, III, a 12
Atherura, genus (Mammalia), XV, b 425; (Porcupine), XIX, a 533
Athesis, river (Adige), I, b 140
ATHIAS, Joseph, printer, III, a 12
Athinganoi, sect (Gipsies), X, *a* 546
ATHLETÆ, III, a b 12; (Games), X, a b 58, a *b* 59
ATHLETIC SPORTS, III, b 12–3; (Rowing), XXI, a 35–8; (Wrestling and Boxing), XXIV, b 725–6; American (Universities), XXIII, a b 962; training for (Dietetics), VII, b 176–7; (Gymnastics), XI, a 311–3. See GAMES
ATHLONE, town, III, b 13; (Roscommon), XX, *a* 873; (Westmeath), XXIV, *a* b 541
——, earl of (Ginckell), X, a 538
Athole, James, duke (Man), XV, b 461
——, John Stuart, earl of, chancellor (Scotland), XXI, a 526, b 528, *a* 529
——, Robert Stuart, 3d earl of (Scotland), XXI, a b 515
ATHOR, Athyr or Hathor, Egyptian deity, III, b 13; (Egypt), VII, a 622, a 673, b 679; temple of (Denderah), b 68–9
ATHOS, Mount (Map), III, a 14–5; (Abbey) (Ill.), I, b 17–8; (Hesychasts), XI, b 698–9; (Lemnos), XIV, b 437; (Macedonia), XV, a 139; (Pilgrimage), XIX, a 104; (Seals), XXI, b 613
Athothis, Tota or Atot, king (Egypt), VII, a 634
Athribis, ancient town (Egypt), VII, a 667
Athtar, god (Yemen), XXIV, a 778
ATHY, town, III, a 15
Athyr, goddess. See ATHOR
ATINA, town, III, a 15
Atis and Camilla (Creutz), VI, *a* 508
Atisha, Pandita, monk (Lamaism), XIV, a 230; (Tibet), XXIII, b 367
ATITLAN, lake, volcano and town, III, a 15; (Guatemala), XI, a b 212
Atjeh, government. See ACHEEN
Ativîrarâma Pândiyan, poet-king (Tamils), XXIII, b 48
Atkarsk, town (Saratoff), XXI, b 319, a 320
Atkhas, tribes (Indians), XII, a 866
Atkins' hydrometer (Ill.), XII, a b 570, b 571–2
Atkinson, Edward, economist (Workingmen, U. S.) XXIV, a b 916, a b 917
——, H. G. (Martineau), XV, a 591
Atkinson's differential gas-engine (Steam-Engine), XXII, a 552
Atkoo, lake and village (Egypt), VII, b 614–5
Atland, or *Atlantika* or *Manhem* (Sweden), XXII, *b* 793
ATLANTA, city, Georgia, III, a 15; (Georgia), X, a 391, a *b* 392, *a* b 393, b 394; siege of, 1864 (United States), XXIII, a 828
Atlanta, genus (Mollusca), XVI, b 677, a b 678
Atlantacea, sub-order (Mollusca), XVI, b 677
Atlantic City (New Jersey), XVII, a 407
—— islands, avifauna of (Birds), III, b 655
Atlantic Monthly (American Journalism), XVII, a b 892
ATLANTIC OCEAN (Plate I) (Ill.), III, 15–25
  bibliography, b 25
  currents, a 18–9
  distribution of organic life, b 24–5
  formation of its basin, b 15–6
  general oceanic circulation (Ill.), b 20
  geological age of its basin, a 17–8
  physical features of its basin, b 16–7
  temperature, b 19–24
  vertical oceanic circulation, b 21–4
—— (Meteorology), XVI, a 127, b 129, b 139, a 142, a–b 144, a 149, a 153; (Scotland), XXI, a *b* 550; (Sea-Water), *b* 642, 644, *a* 645; (Tides), XXIII, a 397
——, ancient limits of (Caspian Sea), V, a 158; density of (Pacific Ocean), XVIII, b 123, a 124; fauna of (Distribution), VII, *b* 240, *a b* 241, *a b* 242, *a b* 243, *a* 244; North (Ichthyology), XII, b 716–7; (Meteorology) (Ill.), XVI, b 121, a 122, b 124, a 125, a 127, b 128, b 137–8, b 139, a b 142, a 144, a 145, a 148, b 160, a 163; South (Ichthyology), XII, a b 718–9, b 720–1; temperature of (America), I, a 595
—— and Pacific Canals, IV, b 700–1
—— and Pacific Co. (Pacific Railroads), XIX, a 920, 921

Atlantic Ocean, tracks of vessels (Navigation), XVII, a b 283
Atlantis, mythical island, III, b 25; (Iberians), XII, b 640
Atlantis, book (Hellanicus), XI, a 566
Atlantosauridæ (Reptiles), XX, a 456, note; (Zoology), XXIV, b 925
Atlas (Map), XV, a b 526, *b* 527–8, a 529; (Mercator), XVI, b 34
——, bone (Amphibia) (Ill.), I, a b 659; (Anatomy), a 720, a b 728; (Ape), II, b 139; (Skeleton), XXII, a b 119
—— joint (Anatomy), I, b 732
Atlas Mountains, III, b 25–6; (Africa), I, b 225, b 229, a 234; (Algeria), a 496; (Mauretania), XV, *b* 643; (Morocco), XVI, a 858; Little (Tunis), XXIII, b 659
Atlas, mythical person, III, b 25
Atlas der Krystal-Formen (Crystallography), VI, a 599
Atli, king of the Huns (Nibelungenlied), XVII, *a* 488, a 489
Atmosphere, III, a 26–33
  constituents of, b 29
  cyclones and anticyclones, a 31
  density of, a 32
  diurnal oscillations of pressure, b 27–9
  height of, a 32
  hygrometry of, b 29–30
  impurities of, b 32
  monthly pressure, a b 27
  mortality from, b 32
  physical properties of, a 26
  pressure of, b 26–7

—— (Geography), X, b 188; (Geology), b 196–7; (Hygrometer), XII, b 603–5; (Manure), XV, a 513, a b 514; (Nitrogen), XVII, a 529, a 531; (Weights and Measures), XXIV, b 505–6
—— charts of (Meteorology), XVI, a 119; composition of (Geology), X, b 196–7; electric conductivity (Meteorology), XVI, b 189; Electricity, VIII, a 8, a 9; height of (Barometer), III, a 329; (Meteorology), XVI, b 126
—— of Jupiter (Astronomy), II, a b 708; of Mars (Astronomy), II, a 705; of Sun (Astronomy), II, b 691; (Geology), X, a 192; chemistry of, XXII, b 679–80; circulation of, XXII, a 683–4; extent of, XXII, a b 679
—— properties of (Pneumatics), XIX, a 253; refraction of (Astronomy), II, a 672–3. See Air
Atmospheric action (Mineralogy), XVI, b 386; air (Gas and Gas Lighting), X, a b 92; (Mining), XVI, b 480, a 482; motors (Tramway), XXIII, b 540
—— pressure (Diving), VII, a b 259, a b 260; (Meteorology), XVI, b 119, b 125–9, a 141, a 144–8, a 152, b 162, a 187; in volcanic eruptions (Geology), X, b 217
Atmospheric Engines. See Air and Gas Engines
Atmospheric Railway, III, a 33
—— Tides, XXIII, a 375; (Meteorology), XVI, a 127–9
Atmu, god (Egypt), VII, b 619, a b 620, note
Atok, oasis (Transcaspian), XXIII, *a* 544, *a* 545
Atolls, islands (Corals) (Ill.), VI, a b 335, a 336; (Keeling Islands), XIV, b 28; (Maldive Islands), XV, *b* 330, *a* 331, *a* 332; (Micronesia), XVI, a b 268; (Polynesia), XIX, b 433–4, a 435; (Tahiti), XXIII, b 27; (Tuamotu), a 640
——, origin of (Pacific Ocean), XVIII, a b 133; subsidence of (Geology), X, a 229
Atom, III, 33–44
  continuity theory of bodies, a 33–5
  mathematical and geometrical theories, a b 34
  Molecular Science, particularly of gases, a 35–9
    mass and dimensions of molecule, a b 37
    mathematical theory, a 36
    motion of parts, a 35
    physiological view of Atom, b 37–8
    spectrum analysis, a 38–9
  Vortex Theory, a 39–44
    cosmological view, b 42–3
    eternity of atoms, b 43–4
    fluid motion, a 39–40
    mass and gravitation, a 41–2
    vortex rings, b 40

Atomic motion (Graham, T.), XI, a b 30
—— theory (Cudworth), VI, b 609–10; (Dalton), VI, b 691–2; (Democritus), VII, a b 53; (Hippocrates), XI, b 761; (Lucretius), XV, b 55; (Wenzel), XXIV, b 529; history of (Chemistry), V, b 402–4
—— weight (Chemistry), V, b 404, a b 405–8, b 470–1, a b 474; (Gold), X, b 659; (Iridium), XIII, b 281; (Molecule), XVI, b 643; platinum (Iridium), XIII, b 281 note
Atomism, theory (Gassendi), X, a 97; Greek philosophy (Leucippus), XIV, a b 484; psychological (Hume), XII, b 369
Atoms, theoretical unit (Alchemy), I, b 407, *a* 408; (Descartes), VII, a b 107; (Epicurus), VIII, b 421; (Medicine), XV, a 812; (Molecule), XVI, a 632–a 633, b 636, b 646
Atonement, day of (Expiation), VIII, b 705
——, doctrine of (Anselm), II, a 83; (Balguy), III, a 243; (Isaiah), XIII, a 393; (Kabbalah), b 822; (Theology), XXIII, b 286, a 287; limited (Lutherans), XV, b 86; offerings (Sacrifice), XXI, a b 145
Atonement, Treatise on the (Universalists), XXIII, a 952
Atony of bladder (Vesical Diseases), XXIV, b 206, a 207
Atooi, island, III, b 44
Atopite (Mineralogy), XVI, a 421
Atossa, wife of Darius I. (Persia), XVIII, b 580, b 583
Atot or Tota, king (Egypt), VII, a 634
Atoyac, river (Oajaca), XVII, b 708
Atpasha river (Syr-Daria), XXII, b 857
Atra, Atræ or Hatra, city (Mesopotamia), XVI, a 53; (Persia), XVIII, a 615, a 616, a 618
Atrachelia, beetles (Coleoptera), VI, b 120; (Insects), XIII, b 155
Atractaspididæ, family (Snakes), XXII, a 204
Atrak, river. See **Atrek**
Atrato, river, III, b 44; (Canal), IV, b 700; (Colombia), VI, a 138
Atrauli, town (Aligarh), I, *b* 507
Atrax marble (Rome), XX, b 826
Atrek, Atrak or Attruck, river, III, b 44; (Caspian Sea), V, a 155; (Persia), XVIII, b 628, a 631; (Transcaspian), XXIII, b 543, b 545; Upper, river (Kuchan), XIV, a 153
Atreus, legendary hero, III, b 44; (Pelops), XVIII, b 490; treasury of (Architecture), II, a 353
Atri or Atria, town, III, b 44
Atrial aperture (Tunicata), XXIII, a b 648, a b 654, b 655
Atricapilla, species (Whitethroat), XXIV, b 584
Atrichia, genus (Birds), III, b 644 note, b 670; (Lyrebird), XV, a 117; (Scrubbird), XXI, *a* 581
Atrium, court, III, b 44–5; (Architecture), II, a 368; ecclesiastical, a 45; Libertatis (Pollio), XIX, a 416 note; Vestæ (Rome), XX, a 839
Atrium, organ of Tunicata (Animal Kingdom), II, b 48; of Worm, XXIV, *b* 716, *a b* 717
Atropatene, kingdom and province (Persia), XVIII, b 597, note, a 600, b 606, a 607, a 609, a 611, b 615, a 637
Atropates, satrap (Persia), XVIII, a b 597
Atrophy, disease, III, a b 45; (Insanity), XIII, a 106; (Skin Diseases), XXII, b 129; of liver (Jaundice), XIII, a 609, a 610; (Pathology), XVIII, a 395, a 396, b 398; muscular (Paralysis), a 261; (Pathology), b 401–2; optic nerve (Ophthalmology), XVII, b 806
Atropia or Atropine, drug (Belladonna), III, a 469; (Jaborandi), XIII, b 540; (Narcotics), XVII, a b 227, a 238, a 239; (Physiology), XIX, *a* 34; (Poisons), a 291; antidote of (Calabar Bean), IV, a 577
Atropos, fate, III, b 45
—— pulsatoria, insect (Herbarium), XI, a 640
Atrypa, genus (Brachiopoda), IV, a 172, a 174, a 177
At-Tabarí, historian. See **Tabarí**
Attachment, III, b 45–6
  out of Chancery, b 45
  of debts, a 46
  of the Forest, a 46
  foreign, a 46

—— for debts, Scotch Law (Banking), III, a 289; Scotch (Sale), XXI, b 219; writ of, XXIV, b 731
Attack (Battle), III, b 384; (Fortification), IX, a 390, note, a b 402; on fortress (Gunnery) (Ill.), XI, b 276
Attacus, moth (Silk), XXII, a 66, a 67, b 70; cynthia (Butterflies), IV, b 530
Attadillo or Manis, mammal (Pangolin), XVIII, b 215
Attagas or attagen, bird (Partridge), XVIII, a 339, note
Attainder, a law-torture, III, a b 46; (Atterbury), a 50; (Jefferson, T.), XIII, b 625; Acts of (England), VIII, b 296; (Treason), XXIII, *b* 560, b 561, b 562; bill of (Parliament), XVIII, b 319; (Peerage), b 476, b 477; of Protestants (Ireland), XIII, b 274
Attaint, writ of (Jury), XIII, a 795; (Writ), XXIV, a 730, b 732
Attaka, mountains (Africa), I, b 224
Attaki or Allaki mines (Gold), X, a 662
Attalea, palm (Venezuela), XXIV, b 151
Attaleia, town (Satali), XXI, a 332
Attali dynasty, Pergamus (Libraries), XIV, b 510
Attalia or Adalia, city, III, b 46; (Pamphylia), XVIII, b 210
Attalica, cloth of gold (Textiles), XXIII, b 225, a 226, a 228
Attalus I., Pergamus (Archæology), II, b 319; (Galatia), X, b 18; (Pergamum), XVIII, a 538; (Rome), XX, a 773
—— III., Philometor (Pergamum), XVIII, b 538
'Attár, Faríd-uddín, poet. See **Ferid Eddin Athar**
Attar or Otto of Roses, III, b 46; (Kasanlik), XIV, *a* 9; (Rose), XX, *a* 874
Attaran river (Burmah), IV, a 500; (Teak), XXIII, a 112

Attars (Perfumery), XVIII, b 536, b 537, a 538
Attelabidæ, family (Insects), XIII, b 155–6
Attemperator (Brewing), IV, b 245–6
ATTENTION, III, b 46–7; defined (Psychology), XX, b 46–7, a b 49, a b 63; movements of (Psychology), a 66, note, a 67; movements arising from (Psychology), XX, b 48, a 57; pleasure from (Psychology), b 75
Attenuation of medicines (Homœopathy), XII, a b 130, b 131
ATTERBOM, Per Daniel Amadeus, poet, III, a 47; (Sweden), XXII, a 795; (Periodicals), XVIII, a 554
ATTERBURY, Francis, bishop, III, a 47–51
  arrest and attainder, b 49–50
  contest with Bentley, a b 48
  ecclesiastical controversies, b 48–9
  education, a 47
  exile, a 50
  Jacobitism, a 49–50
  Phalaris Epistles, b 47–8

—— (Post-Office), XIX, a 583
Attersee, lake (Salzkammergut), XXI, a 253
Atthis (Hellanicus), XI, a b 566
Atti dei Lincei (Ismailia), XIII, b 398
Atti, Isottadegli (Rimini), XX, *a b* 572, *a* 573
Attic Architecture, II, b 403; art, New School (Archæology), II, b 319–20; comedy (Drama), VII, a b 352, a b 353; (Pherecrates), XVIII, a 747
—— dialect (Greece), XI, b 119, a 120, *a* 122; (Homer), XII, *a b*, 117; (Menander), XVI, b 6
—— literature (Greece), XI, a 122, a 125–7
—— orators (Hyperides), XII, b 631; (Isæus), XIII, b 386 note; (Isocrates), b 400, note, b 401 note, a 404; (Lysias), XV, b 118–21, note; (Rhetoric), XX, b 523–4, a b 526; prose (Isæus), XIII, a 386–8; tragedy (Drama), VII, a 350–2; Weights and Measures, XXIV, b 508, a 511, a *b* 512, *a* 513, a *b* 516
Attic Words and Phrases (Phrynichus Arabus), XVIII, b 868–9
ATTICA (Map), III, a 51–4; (Greece), XI, *b* 83, a 86–8; (Mysteries), XVII, a b 135; (Numismatics), b 658–9
Atticism (Macedonian Empire), XV, b 144, a 145
Atticotti, tribes (Ireland), XIII, b 250, note, b 252
ATTICUS Herodes, Tiberius Claudius, builder, III, a 54; (Athens), a 8, a 10
ATTICUS, TITUS POMPONIUS, historian, III, a 54
ATTILA or Etzel, Hunnish chief, III, b 54–5; (Hainburg), XI, a b 336; (Huns), XII, a 397; (Jász-Berény), XIII, b 607; (Jordanes), a 759; (Khazars), XIV, b 61–2; (Nibelungenlied), XVII, a 488, a b 489; (Rome), XX, a 799; (Valentinian III.), XXIV, *a* 43
Attila, La Fuega d' (Algardi), I, b 449
Attis or Attes, myth. See ATYS
Attis, poem (Catullus), V, a b 217, a 218
Attische Museum, periodical (Wieland), XXIV, b 590
Attius, Lucius. See ACCIUS
Attleborough, England, town (Vaccination), XXIV, b 29 30
ATTOCK, town, III, a 55
ATTORNEY, III, a 55; power of, b 55; warrant of, b 55; (Warrant), XXIV, *a* 393
ATTORNEY-GENERAL, III, b 55; and Parliament (Bacon), a 177
Attornment (Remainder), XX, a 385
ATTRACTION, III, b 55–7; (Cartesianism), V, a b 129; (Gravitation), XI, a b 59; (Mechanics), XV, a 710; local (Earth), VII, b 520–3; (Geodesy), X, b 153
—— magnetic (Electricity) (Ill.), VIII, *a* b 5, b 15–17; (Magnetism), XV, b 222, b 223, a 228
Attractions, mathematical (Ivory, James), XIII, a 535
Attribute in speech (Grammar), XI, a 37, b 38; (Accident), I, b 79–80
Attribution, arms of (Heraldry), XI, a b 615
Attruk, river. See ATREK
Attus volans, species (Arachnida) (Ill.), II, b 255, a 262
ATTWOOD, Thomas, composer, III, b 57
—— Thomas, politician (Birmingham), III, b 677, b 682–3
Atures, survival of the language of (Parrot), XVIII, b 329 note
ATWOOD, George, mathematician, III, b 57–8; (Tonnage), XXIII, a 472
Atwood's machine (Mechanics), XV, b 724–5, b 735, b 741
ATYS, Attis or Attes, legendary youth, III, a 58
Atzerodt, assassin (Seward), XXI, a 745 note
Atzigan, name (Gipsies), X, *a* 546
AUBAGNE, town, III, a 58
AUBE, department, III, a 58; river (France), IX, a 446, b 457; (Marne), XV, a 568; (Marne, Haute), *b* 568
AUBENAS, town, III, a 58
AUBER, Daniel François Esprit, composer, III, b 58
Aubert, David, editor (Romance), XX, a 665, b 666
——, Stephen. See INNOCENT VI., pope
Aubervilliers, town (Seine), XXI, b 655
AUBIN, town, III, a 59
Aubrac mountains (Lozère), XV, a 33
Aubrey, John, antiquary (Butler, S.), IV, b 523, a 524; (Harvey), XI, b 448, b 449, a 451, a b 452; (Shakespeare), XXI, b 788
Aubrietia, plants (Horticulture), XII, b 257
Aubriot, Hugues, provost (Bastille), III, *b* 371; (Paris), XVIII, b 295, a 296
AUBURN, N. Y., town, III, a 59; penitentiary (Reformatories), XX, a 902, *a* 903; (Prison Discipline), XIX, *b* 772
AUBUSSON, town, III, a 59
——, Peter d', master (St. John of Jerusalem), XXI, b 183
Aucassin et Nicolette (France), IX, *b* 563
AUCH, town, III, a 59
Auchatæ, people (Scythia), XXI, *b* 603
Auchenheath (Coal), VI, a 51
Auchenia, llama (America), I, a 599; (Breeds), IV, b 224; (Llama), XIV, a b 744, b 745
Auchinleck, Boswell, Lord, judge (Boswell), IV, b 68, *a* 69
AUCHTERARDER, town, III, a 59; (Chalmers), V, a 327; (Free Church of Scotland), IX, *a* 654
AUCHTERMUCHTY, burgh, III, b 59
AUCKLAND ISLANDS, III, a 60; (New Zealand), XVII, a 479, a 482 note; (Polar Regions), XIX, a b 342
AUCKLAND, province, III, b 59–60; city, a 60; (New Zealand), XVII, *a b* 480, b 483
AUCKLAND, GEORGE EDEN, earl, III, b 60; (India), XII, a 846–7
AUCKLAND, WILLIAM EDEN, baron, III, a b 60
AUCTION, sale, III, b 60
Auctoritatis actio, process (Roman Law), XX, b 707
Aucuba, plant (Horticulture), XII, a 220
Aud, queen (Iceland), XII, a 655
AUDÆUS or Audius, reformer, III, b 60
Audaláka (Honey), XII, a 141
AUDE, department, III, a 61; (Wine), XXIV, a 639; river, III, a 61
AUDEBERT, Jean Baptiste artist, III, a 61; (Ornithology), XVIII, a 15
Audefroi le Bastard, poet (France), IX, b 565
Audience, right of (Ambassador), I, a 578
Audientia Episcopalis (Canon Law), V, b 19
Audigier, satire (France), IX, b 565–6
Audita Querela (Writ), XXIV, a 730
AUDITOR, official, III, a 61
Auditory artery (Anatomy), I, a 794; capsule (Skeleton), XXII, a 123, a 124; meatus or canal (Ear), VII, a 511; nerve (Anatomy), I, a 764, a 766, a b 784, *a* b 786; (Ichthyology) (Ill.), XII, a 690–1; (Planarians), XIX, a b 183; development of (Vertebrata), XXIV, a 197
Audley End mansion (Saffron-Walden), XXI, b 154
Audoenus, Johannes, epigrammatist (Owen), XVIII, b 88
Audouard, Matthieu François Maxence, physician (Yellow Fever), XXIV, *b* 772, a 773
AUDOUIN, Jean Victor, entomologist, III, b 61
AUDRAN, family, artists, III, b 61
——, Benoit, engraver, III, b 61
——, Claude, engraver, III, b 61; (Watteau), XXIV, b 436
——, Gérard, engraver, III, b 61
——, Jean, engraver, III, b 61; (Engraving), VIII, b 393–4
AUDUBON, John James, naturalist, III, a b 62; (Gare-fowl), X, a 72; (Ornithology), XVIII, b 15, b 20, b 28 note, b 31, a 32; (Pigeon), XIX, b 93; (Woodpecker), XXIV, a 687
Aue, von, poet. See HARTMANN VON AUE
Auenbrugger, physician. See AVENBRUGGER
Auerbach, Berthold, novelist (Pastoral), XVIII, a 353
——, B. H., rabbi (Rabad), XX, a 198
—— Felix, meteorologist (Magnetism), XV, a b 261
Auerbach's plexus (Digestive Organ), VII, a 198
Auersberg, mountain (Harz), XI, a 453
Auersperg, Anton Alexander von, poet (Germany), X, a 488; (Grün), XI, a 199
Auerstadt, battle of, 1806 (Napoleon), XVII, b 217
Auffenberg, Joseph, Freiherr von, actor (Germany), X, a 486
Aufidena, town (Samnites), XXI, b 261
Aufidus or Ofanto, river (Horace), XII, b 163; (Italy), XIII, b 449
AUGEIAS or Augeas, legendary hero, III, b 62
Augenspeigel (Reuchlin), XX, a 505
AUGEREAU, Pierre François Charles, general, III, b 62; (France), IX, b 536, b 537; (Napoleon I.), XVII, a 204, a b 206
Aughrim, town. See AGHRIM
Augier, Emile, dramatist (France), IX, b 591; (Sandeau), XXI, a 270
Augila, oasis (Africa), I, a 224
Augite, mineral (Geology), X, 203, a 210; (Mineralogy) (Ill.), XVI, a 375, a 380, a 384, b 385, a 386, b 387, a–b 433, a 434; (Mining), a 461; analyses (Mineralogy), b 433
Augite-andesite, mineral (Geology), X, a 210
Augmentation funds, church (Scotland), XXI, a b 565

AUGSBURG, city (Plan), III, a b 63; (Dürer), VII, b 478, a 479; (Holbein), XII, b 55-6, a 84; (Sculpture), XXI, a b 591, *b* 592
—— *Confession* (Creeds), VI, b 499; (England, Church of), VIII, a 340; (Lutherans), XV, *a* 86; (Melanchthon), b 842, b 843; (Reformation), XX, *a* b 346
Augsburg, Diet of, 1530 (Charles V., emperor), V, b 359, a 360; 1555 (Trent, Council of), XXIII, a 582; diets of, 1530 and 1555 (Germany), X, a 446, a 447; (Luther), XV, a 81, a 83-4
——, early printing at (Typography), XXIII, a 729; Interim (Agricola, J.), I, a 259; (Lutherans), XV, a 87
Augst, village (Basel), III, b 352
AUGURS, diviners, III, b 63-4; (Haruspices), XI, a 447; (Magic), XV, a b 203, b 206
Augury (Divination), VII, a 255
AUGUST, month, III, b 64; (Calendar), IV, b 590, a b 591, b 597; calendar, British (Horticulture), XII, a 305; United States (Horticulture), b 307; sea isotherms (Meteorology) (Ill.), XVI, a b 133
AUGUSTA, city, Georgia, III, b 64; (Georgia), X, b 390, a 391, *a b* 392, *a* b 393, a 394
AUGUSTA, capital of Maine, III, b 64
—— Antonina, town (Byzantium), IV, b 547
—— Auscorum. See AUCH
—— Emerita, town. See MÉRIDA
—— Prætoria, town. See AOSTA
Augusta Taurinorum, city. See TURIN
Augusta Veromanduorum, town. See ST. QUENTIN
Augustals (Acclamation), I, a 80
Augustan age, III, a 69-74; (Horace), XII, *b* 167; (Egypt), VII, a 632; (Latin Language), XIV, a 335-6; (Ovid), XVIII, a 87; (Roman Literature), XX, a 741-3
AUGUSTAN History, III, a 65-6; (Persia), XVIII, b 619, note
—— triumphal arch (Rimini), XX, b 570
Augustenburg, Frederick, prince of (Germany), X, *a* b 458
——, house of (Denmark), VII, *b* 77, a b 78
AUGUSTI, John Christian William, theologian, III, a 66
Augustin amalgamation process (Silver), XXII, a 77
AUGUSTINE of Hippo, bishop, III, a 66-9
  bibliography, a 69
  conversion, b 66-7
  Donatist controversy, b 67-8
  later works, b 68
AUGUSTINE, *continued*
  Manichæan controversy, b 67
  Pelagian controversy, a 68
  youth and education, a b 66
—— (Abel), I, b 37; (Æsthetics), a 195; (Alchemy), b 408; (Apocrypha), II, a 161; (Baptism), III, a *b* 301; (Canon), V, b 11, a b 12; (Christianity), a 603; (Church), a b 663, a 664; (Creeds), VI, a 497; (Deaf and Dumb), VII, a b 7; (Decalogue), a 16, note; (Dogmatic), b 293, b 294; (Donatists), VII, a 312; (Ethics), VIII, b 521; (Fathers of the Church), IX, b 44, a 45; (Gladiators), X, a 564; (Gospels), b 747; (Gottschalk), a 760; (Hermeneutics), XI, b 666; (Hymns), XII, b 615, a 616; (Interdict), XIII, a 194; (Limbus), XIV, a 653; (Luther), XV, b 73, a 75; (Manichæism), a 492, a b 494; (Mary), a 597; (Millennium), XVI, b 329; (Monachism), b 728; (Neoplatonism), XVII, a *b* 348; (Orosius), XVIII, a 54; (Papyrus), a 237; (Pelagius), a b 482, a b 483; (Petrarch), a 723; (Pilgrimage), XIX, b 102; (Predestination), a b 689, a b 690, a 691; (Prosper), b 846-7; (Purgatory), XX, a 121; (Sacrament), XXI, a 140; (Saint), a 164; (Scholasticism), b 437; (Torture), XXIII, b 490; (Vandals), XXIV, a 65; relic of (Agelnoth), I, a 250
AUGUSTINE or St. Austin of Canterbury, III, a 69; (Archbishop), II, b 323; (Canterbury), V, a *b* 27; (England, Church of), VIII, b 332; (London), XIV, a 853; (Monachism), XVI, b 733; (Ramsgate), XX, a 280
Augustinianism (Bajus), III, a 213; mediæval, (Pelagius), XVIII, b 483
AUGUSTINIANS, monks, III, a 69; (Ireland), XIII, b 268, a 269; (Klosterneuberg), XIV, a 111; (Libraries), b 512
Augustinus of Jansen (Arnauld), II, *b* 542; (Jansenism), XIII, a 576-7
Augustobona, town (Troyes), XXIII, b 627
Augustonemetum, town (Clermont), V, b 723
AUGUSTOVO, town, III, a 69; canal and town (Suwalki), XXII, b 765, a 766
August's sine electrometer (Ill.), VIII, b 111, a 112
—— hygrometer (Atmosphere), III, a 30
AUGUSTUS (Octavius, and Octavianus), and the Augustan Age, III, a 69-74
  consolidation of officers under, a 70-1
  literature under, a 72-4
  religion of Rome, a b 71
AUGUSTUS, *continued*
  succeeds Julius Cæsar as heir, b 69
  title of, a 71
  triumvirate, b 69
—— (Agrippa, M. V.), I, a 371; (Antonius), II, a *b* 124; (Calendar), IV, *b* 591; (Cicero), V, *b* 674; (Circus), b 691; (Cleopatra), a 722; (Club), VI, *a* 39, a 40; (Finance), IX, a 152; (Fire), b 199; (France), a 466; (Gaul), X, a 101; (Germany), *b* 426; (Germanicus), a b 400; (Gladiators), a 563; (Herod), XI, *b* 674; (Horace), XII, *a* b 165, a b 166; (Inscriptions), XIII, a b 134; (Italy), a 444; (Italy), b 456; (Juba II.), *a* 769; (Latin), XIV, a 337; (Libraries), a 511; (Nicopolis), XVII, a 504; (Numismatics), b 670, *a* 671; (Ovid), XVIII, a b 83, a 84; (Prætorians), XIX, b 676; (Province), *b* 911; (Romance Languages), XX, b 682; (Roman Law), b 721, a b 722, a *b* 723, *a* 725; (Roman Literature), a b 741; (Rome), a 781, *a* 786, *a* b 787, *a* b 789, a *b* 790, b 791-3, b 797, *a* 826, note, b 841, a 842, a b 852; (Slavery), XXII, a 140, b 141, a 142; (Spain), a 322; (Tiberius), XXIII, a *b* 356, *a* b 357, b 358; (Tribune), b 593; (Vesta), XXIV, a 211
—— cameo, IV, a b 653; Era of (Chronology), V, b 621
Augustus, title (Rome), XX, b 787, b 795, note
Augustus I., Pious, elector (Saxony), XXI, b 369, a 373
AUGUSTUS II., elector of Saxony and king of Poland, III, a 74; (Charles XII. of Sweden), V, a *b* 364; (Poland), XIX, b 308; (Pottery and Porcelain), a 659, a 660; (Saxe), XXI, *b* 361; (Saxony), a b 370; (Sweden), XXII, b 788, *a* 789
AUGUSTUS III., elector of Saxony and king of Poland, III, a b 74; (Poland), XIX, b 308-9; (Saxony), XXI, b 370; (Winckelmann), XXIV, a 629
Augustus-Raymond, Count of Mark (Arenburg), II, a 424
Aujàla oasis (Tripoli), XXIII, b 611
Aujon river (Marne), XV, b 568
AUK, Alca, III, b 74; (Birds) (Ill.), b 625, a 634, a b 637, b 652; (Gare-fowl) (Ill.), X, b 70-2; (Ornithology), XVIII, a 49; (Penguin), b 501; (Razor-bill), XX, a b 315
Auk, The, journal (Ornithology), XVIII, b 20
Aukanians, tribe (Guiana), XI, a b 224
Aukurubies falls (Cape Colony), V, a 39
Aulacodus, genus (Mammalia), XV, a 422, ab 425
Aulacoramphus, genus (Toucan), XXIII, b 507
Auld Lang Syne (Burns), IV, b 506, a 507
Auldjo vase (Glass), X, *a* 579
AULIC COUNCIL, III, b 74-5; (Germany), X, b 446; (Maximilian I.), XV, a 651
Aulie-ata, town (Syr-Daria), XXII, a 860
AULIS, town, III, a 75
Aullagas, lake (Peru), XVIII, a 686
Aulne, river (Finistere), IX, *a* 188
——, marquis d'. See TURGOT
Aulocystidæ, family (Sponges), XXII, b 439
Aulopora, genus (Corals) (Ill.), VI, b 334, b 337
Aulos, musical instrument (Tournebout), XXIII, a 521
Aulosphæra, genus (Protozoa) (Ill.), XIX, a 874
Ault, hamlet (Somme), XXII, b 274
Aulularia (Plautus), XIX, *a* 228
Aulus Gellius. See GELLIUS
AUMALE or Albemarle, town, III, a 75
——, Marie François Elizabeth, Mademoiselle d', queen (Portugal), XIX, *a* 564
Aumale, Henri Eugene Philippe, duc d' (Algeria), I, a 501; (Chantilly), V, *a* 343
Aumuce, hood. See Almuce
AUNGERVYLE, Richard de, of Bury, bishop, III, a 75; (Libraries), XIV, b 513
"Aunt Judy," pseudonym (Gatty), X, b 98
Aural diseases (Ear), VII, a 514; surgery (Hinton), XI, *a* 760
Aurangábád. See AURUNGÁBÁD
Aurangzeb or Aurangzebe. See AURUNGZEBE
Auranitis, district (Bashan), III, a 354
Aurasius, mountain (Numidia), XVII, a 643
Auratus, poet. See DAURAT
AURAY, town, III, a 75
Aurea Chersonesus (Malay Peninsula), XV, a 324, a 326
Aureatum, town (Ingolstadt), XIII, b 81
Aurelia, mother of dictator (Cæsar), IV, a 564
—— of Asturias, usurper (Spain), XXII, a 326
Aurelia, genus (Hydrozoa) (Ill.), XII, a b 583, a 586, b 588, b 590-3; cells of (Histology) (Ill.), a 9; nerve cells (Hydrozoa) (Ill.), a 585; tentaculocysts of (Hydrozoa) (Ill.), a b 592-3
Aurelian, Lucius Domitius, emperor (Palmyra), XVIII, a b 206; (Rome), XX, b 791, a 794, *a b* 795; (Silk), XXII, b 62; coin of (Numismatics), XVII, *a* 671
Aurelianus Ambrosius (Arthur), II, *b* 568, b 569
AURELIANUS, Cælius, physician, III, b 75; treatises of (Medicine), XV, b 814
AURELIUS ANTONINUS, Marcus, III, b 75-8
  education of, b 75-6

AURELIUS ANTONINUS, *continued*
  - morals of, a 78
  - persecutions under, a b 77
  - philosophy, b 77
  - succeeds to the empire, a 76-7

—— (Commodus), VI, b 185; (Faustina), IX, b 48, a 49; (Fronto), *a* 705; (Galen, C.), X, b 22; (Persia), XVIII, b 615; (Rome), XX, b 790, note, *b* 791, a 794, b 795, note; (Stoics), XXII, a 602
Aurelius Victor, historian (Hadrian, Wall of), XI, a 327
Aurengzebe, play (Dryden), VII, a 424
AUREOLA or aureole, III, b 78
Aureolus, Petrus, monk (Scholasticism), XXI, b 447-8
Aures, mountains (Numidia), XVII, a 643
Aureus, coin (Numismatics), XVII, b 670-1
Auricalchum or oricalchum, alloy (Brass), IV, b 195
AURICH, town, III, b 78; district (Hanover), XI, a b 399
Aurichalcite (Mineralogy), XVI, a 416
Auricle of (Ear), VII, a 511; (Anatomy), I, a 783, a 784
—— or atrium of heart (Amphibia), I, a b 670; (Anatomy), *b* 790, a *b* 791, a 792; (Mollusca), XVI, b 658
Auricome, hair dye (Bleaching), III, a 715
Auricula, plant (Botany), IV, b 108, a 117; (Horticulture), XII, a b 261; (Primrose), XIX, a 757
Auriculæ of echinidea (Echinodermata), VII, a 546
Auricular confession, VI, b 228-9
Auricularini, species (Fungus), IX, b 731
Auriculidæ, family (Mollusca), XVI, b 684, b 686; (Snail), XXII, b 197, a 198
AURIFABER, Johannes, of Weimar, divine, III, b 78
——, Johannes, of Breslau, divine, III, b 678
Aurignac, cave (Archæology), II, b 294
AURILLAC, city, III, b 78
Aurin, dye (Coal Tar Colors), XVIII, a 905; (Carbolic Acid), V, b 76
Auripigmentum. See ORPIMENT
Aurivillius, Erik, jurist (Scandinavian Languages), XXI, a 389
——, Karl, philologist (Sweden), XXII, b 794
Aurochs, mammals (Archæology), II, b 294; (Bison), III, a 688
Aurogallus, Matthaeus, scholar (Luther), XV, b 77
Aurora, goddess (Graces), XI, *a* 24; (Tithonus), XXIII, a 441
—— Guido's painting (Fresco), IX, a b 680
—— vessel (Yachting), XXIV, b 759
AURORA Borealis, III, a 79-86
  - appearance, a 79
  - bibliography, a b 86
  - clouds, b 79-80
  - distribution (Ill.), a 85-6
  - electric character, a 84-5
  - height, a b 81
  - history, a 79
  - magnetic character, a 83-4
  - meteoric character, a 86
  - polarization, a 81
  - spectrum analysis, b 81-3

—— (Thunderstorm), XXIII, a 351
—— förbundet, society (Sweden), XXII, a 795
Aurora League (Atterbom), III, a 47
Aurora Leigh (Browning), IV, b 352
Aurora Polaris. See AURORA BOREALIS
Auroras (Meteorology), XVI, b 177, b 178, b 184-185, b 190-1; and sun spots (Astronomy), II, b 688, a 689
"Aurum musivum" (Tin), XXIII, a 429
Auruncans or Ausonians, people (Latium), XIV, b 345
AURUNGÁBÁD or Aurangábád, city, III, b 86
AURUNGZEBE or Aurangzeb, emperor, III, b 86-7; (Assam), II, b 627; (Hyderabad), XII, a 445; (India), b 834-5, b 839, a 840; (Lahore), XIV, b 215-6; (Persia), XVIII, b 653; (Punjab), XX, *a* 117
Aurungzebe, Court of (Dresden), VII, a 405
Ausa, town. See VICH
Au Sable, river, Michigan (St. Lawrence), XXI, b 187
—— New York (United States), XXIII, a 842
AUSCHWITZ or Oswiecim, town, III, a 87
AUSCULTATION, III, a 87-8; (Avenbrugger), b 126; (Bronchitis), IV, b 326-7; (Heart), XI, *a b* 493; (Hippocrates), a 762; (Medicine), XV, a b 825; (Vascular System), XXIV, a 108, b 110-1, b 114; venous, XXIV, a 116
Ausdehnungslehre (Geometry), X, a 334, a 335, b 346
Ausgrabungen (Olympia), XVII, a 787
Aushars, tribe. See Afshars
Auslesegrape (Wine), XXIV, b 634
Ausonians, people (Latium), XIV, b 345
AUSONIUS, Decimus Magnus, poet, III, a 88; (Druidism), VII, b 412; (Paulinus), XVIII, a b 445
Auspex, diviner (Magic), XV, a 203
Auspices, signs (Augurs), III, a b 64
Aussa. See ADAL
Ausser Amt, districts (Zug), XXIV, *b* 865, a 866
AUSSIG or Aussyenad, town, III, b 88; battle of, 1426 (Frederick I.), IX, b 651
Austen, Godwin, geologist (Geology), X, b 303, b 311 note
AUSTEN, Jane, novelist, III, b 88-9; (Bronte, C.), IV, b 329; (Ferrier, Susan E.), IX, b 97, a 98
——, William, sculptor (Sculpture), XXI, a 586
Austen-Leigh, J., divine (Austen), III, a 89
AUSTERLITZ, town, III, a 89; battle of, 1805 (Austria), b 115; (France), IX, a 542; (Napoleon I.), XVII, b 216-7; (Pitt), XIX, *b* 157; (Russia), XXI, b 108; (Soult), XXII, a b 293; (War), XXIV, a 380, b 382
Austin, city (Texas), XXIII, *a* b 222, a 223
—— Ann, confessor (Quakers), XX, a 158
——, Captain, explorer (Polar Regions), XIX, a 333
AUSTIN, John, jurist, III, a b 89; (Blackstone), a b 696; (Ethics), VIII, b 533, note; (Fictions), IX, a 123; (Government), XI, b 9, a b 10, a 11; (Law), XIV, b 355, *a b* 356, *a b* 357, *a b* 358, a *b* 359, *a b* 360, *a b* 361, b 364; (Savigny), XXI, a 341, a 342; (Thibaut), XXIII, b 321, a b 322
——, John, poet (Hymns), XII, *a* 627
AUSTIN, Sarah Taylor, authoress, III, b 89
—— Canons (Abbey), I, a *b* 25; (Monachism), XVI, b 728, b 733, a 735, a b 741
—— Friars (Abbey), I, a b 27
AUSTRALASIA, III, b 89; (Kangaroo), XIII, a b 849; importation of Birds, III, a 639; Learned Societies, XXII, b 234, b 237, a 238, a 239, b 240; races (Australia), III, a 98; serpents (Snakes), XXII, b 207-8, b 209-10
AUSTRALIA (Plate II), III, b 89-100
  - aborigines, a 98-9
  - botany, a b 96
  - climate, a 95-6
  - colonial history, a 99
  - discoveries, a 90-1
  - early European knowledge of, a 89
  - explorations, a 91-3
  - geology, b 93-4
  - minerals, b 94-5
  - physical features, a b 93
  - zoology, a 97-8

—— (Alpaca), I, b 526; (Ballot), III, a 251; (Coal), VI, b 56; (Diamond), VII, a b 142; (Fire), IX, b 198, a 202, note; (Forest), a 358-9; (France), a 468; (Friendly Societies), b 688; (Funeral Rites), a 725; (Howitt), XII, a 339; (Ichthyology), b 712, a 713, a 720; (Insurance, Life), XIII, a 190; (Labor), XIV, b 171; (Libraries), a 534, a b 552; (Magic), XV, b 200, a 201; (Meteorology), XVI, b 137, b 140, b 143, a 147, *b* 150-1, b 153; (Mint), a 505; (Missions), b 539; (Mythology), XVII, a *b* 151, *b* 153, *b* 158; *a b* 164; (National Debt), XVII, *a b* 254; (Observatory), b 737; (Opium), b 814-15; (Orange), b 835; (Patents), XVIII, b 361; (Pearl), XVIII, b 458; (Police), XIX, b 353; (Post-Office), b 594; (Prison Discipline), XIX, b 770-1; (Railway), XX, a 264; (Registration), a 356; (Reptiles), *a* 483, a 486, a 487; (Savings Banks), XXI, b 345; (Universities), XXIII, b 912; (Wine), XXIV, b 644; (Zosterops), b 863, note
——, birds of (Ornithology), XVIII, b 15-6, a 20; (Orthonyx), a-b 56; catholic missions in (Propaganda), XIX, b 833; coast-exploration of (Tasman), XXIII, b 78; Episcopacy in, VIII, a 437; explorations of (Cook), VI, a 294; (Flinders), IX, *b* 284, *a* 285; (Geography), X, *b* 165, b 166-7, a 170, a 174; (Mitchell), XVI, b 551-2; (Stuart), XXII, b 643; fishing in (Pearl), XVIII, b 458
Australia, life insurance, XIII, a 190
Australia, lock-jaw in (Pathology), XVIII, a 400
Australia, mining (Gold), X, a b 663, b 664, *b* 667; (Mining) (Map), XVI, b 493, b 494; (Protestants), XIX, a b 848; rainfall (Meteorology), XVI, b 156-7; trade of (Tea), XXIII, b 109-10; (Wool), XXIV, a 697
—— del Espiritu Santo (New Hebrides), XVII, a 405
—— Alps, mountains (Victoria), XXIV, *b* 232; avifauna (Birds), III, b 639-44; bear (Mammalia), XV, b 385; culture, primitive (Anthropology), II, b 104, b 106, a 109; *Dictionaries*, VII, b 167; dog (Mammalia), XV, a 445; Dugong, VII, b 446; dunes (Geology), X, b 236
—— fauna, III, b 96-8; (Birds), b 639-44; (Coleoptera), VI, a 117; (Distribution), VII, *a* 234, b 236-7, *a* 240, *a* 242, a 243, a 244; (Mammalia), XV, a 377, b 385-6, a 445; (Mastodon), b 629-30; (Megapode), XV, a b 836; (Phalanger), XVIII, a 741-3; literature on (Reptiles), XX, b 454
—— flora (Distribution), VII, b 251; (Grasses), XI, *b* 53; (Mammalia), XV, b 385-6; gold (Commerce), VI, a-b 184; gold mines (Bullion), IV, *b* 464; great reef (Geology), X, b 257; languages (Philology), XVIII, b 793; Methodism, XVI, a 199; ores (Copper), VI, b 309; (Gold), X, a 660, a *b* 662; Pyrenees mountains (Victoria), XXIV, *b* 232; Wool, a 690
Australians, indigenous, III, a 98-9; (Money), XVI, b 748; (Salutations), XXI, a b 248; (Totemism), XXIII, a *b* 497, b 498, *a* 499, *a b* 500, *a* 501, a b 502, a *b* 503, a b 504, a 505

Australis, species (Whale) (Ill.), XXIV, b 552-3
Australioid races (Anthropology), II, a b 100; (Asia), a 609
Austramonius or Austremoine, St., bishop (Clermont), V, b 723; (Issoire), XIII, b 442
Austrasia, country (Charles Martel), V, *b* 370; (France), IX, a b 468; (Franconia), b 619; (Germany), X, *b* 428, a 432; (Metz), XVI, a 212
Austria, duchies (Hofer), XII, b 46; (Florence), IX, *b* 294; (Teutonic Order), XXIII, b 218; (Abbreviation), I, a 34, note; (Albert I., emp.), a 399
AUSTRIA-HUNGARY (Plate III, Sketch Map), III, a 100-23
  - agricultural features, b 103-4
  - area and boundaries, a 100
  - army and navy, b 107-8
  - climate, b 101-2
  - commerce, b 105-6
  - geology, a 101
  - government, b 106-7
  - HISTORY, a 108-23
    - Charles VI., reign of, b 110-1
    - coalition of, 1813 to 1815, a 117-8
    - Constitutional history, a b 120, b 122-3
    - Ferdinand I. of Austria, b 118-9
    - Francis II., Roman Emperor, I., Austrian Emperor, reign of, b 113-8
    - Francis Joseph I., reign of, b 119-23
    - Franco - Sardinian war, b 120-1
    - French Republic, war with, b 113-5
    - Hapsburg dynasty to 17th century, b 108-9
    - Hungarian revolt of 1848, b 119-20
    - Joseph II. and Leopold II., reigns of, a b 113
    - margraviate and duchy, a b 108
    - Maria Theresa, reign of, a 111-3
    - Metternich's administration, a 118-9
    - Napoleon, emperor, wars with, b 115-8
    - Peace of Presburg to 1813, a 116-7
    - Schleswig - Holstein business, b 121
    - Seven days' war, a b 122
    - Seven years' war, b 111-3
    - Spanish succession war, a b 110
    - Thirty years' war, a 109-10
  - manufactures, b 104-5
  - minerals, a b 104
  - mountains, a 100-1
  - natural history, a 102

AUSTRIA-HUNGARY, *continued*
  - political divisions and population, a b 102
  - religion and education, b 102-3
  - water system, a b 101

—— Army, II, a 528-31; III, b 107-8; its Dietetics, VII, a b 184; artillery (Army), II, b 575, a 577, b 582; (Coal), VI, a b 54-5, b 73; (Europe), VIII, a 630; (Exhibitions), a 702, a *b* 703; (Forests), IX, a 350, a 353; (Foundling Hospitals), b 426; (Greece), XI, b 108, a 109; (Herzegovina), *b* 693, a 694; (Hungary), XII, b 383-9; (Joseph II.), XIII. b 760-1; (Insanity), a 105, (Italian Trade), a b 467; (Jews), a 696; (Labor), XIV, a 174; (Libraries), b 526-7, a 549-50; (Matches), XV, b 632, a b 633; (Military Frontier), XVI, b 307; (Military Law), b 311; (Mining), a b 490; (National Debt), XVII, b 251, b 252, a 254; (Navy) a 300, a 309; (Newspapers), b 440; (Observatory), b 733; (Patents), XVIII, b 362; (Periodicals), b 551, b 552; (Police), XIX, b 356; (Post-Office), a b 599, b 601, b 604; (Press Laws), a 732; (Prison Discipline), a b 777; (Railway), XX, a 262; (Societies), XXII, b 235, a b 236, *a b* 237, b 238, *a* b 239, a b 240; (Technical Education), XXIII, a b 115; (Universities), a 905, b 907-8; (Wine), XXIV, a b 643
Austria Proper (Bible Societies), III, b 562; glaciers (Switzerland), XXII, b 815; excluded from Germany, X, a b 455, a 457, a b 458; (Grisons), XI, b 182, a 183; (Istria), XIII, b 443; (Liquor Laws), XIV, b 694; physicians (Medicine), XV, b 809; place in Germany of (Bunsen), IV, a b 469; Saltzgärten (Ill.), XXI, b 239, b 240, a 241; (Suicides), XXII, b 662, *a b* 663, a 664
Austrian Alps, mines in (Salt), XXI, b 241-2
—— EMPIRE (Cavour), V, b 238-40; (Coire), VI, b 107; (Concordat), b 215; (Corn Laws), b 366; (Croatia), a 524; (Denmark), VII, a b 78; (Ferdinand IV., Naples), IX, b 69; (Ferdinand VI., Spain), b 72; (France), a 531, a b 549, *a b* 550, *a* 551; (Hesse Cassel), XI, b 696; (Italy), XIII, b 492-501; (Joseph II.), b 760-1; (Kaunitz), XIV, b 19-20; (Manin), XV, b 496; (Marie Antoinette), a 547; (Metternich), XVI, b 207-10; (Modena), a 565; (Napoleon I.), XVII, a b 203-4, a b 205, a b 206, *b* 210-1, a b 216, b 220, a b 221, a b 225, *a* b 226; (Palacky), XVIII, b 146; (Savoy), XXI, *b* 357; (Spain), XXII, a 345, a b 347, b 348, a b 349, a b 350, b 351, *a b* 352, *a b* 353, *a* 354, a 359; (Würtemberg), XXIV, *a* 738
—— acquisitions in Turkey; from Venice, XXIV, b 159-60; XXIII, a 694; British policy toward (Palmerston), XVIII, a 200; dynasty of (France), IX, a 488, b 501; (Hapsburg), XI, b 405; succession wars (Cumberland), VI, a 623; (George II.), X, a b 380; (Saxe), XXI, b 361-2; (Spain), XXII, a 353-4
—— Lloyds (Trieste), XXIII, a 596
—— National Hymn (Hayden), XI, a 483
—— Netherlands (Holland), XII, b 84-5
—— pine, ovule of (Botany) (Ill.), IV, a 132; poets, (Germany), X, a 488
—— Silesia, crownland (Silesia), XXII, a 59
—— Switzerland (Salzkammergut), XXI, a *b* 823, *a* 824
Austro-Malayan islands (Distribution), VII, b 236, a 237
Austro-Prussian war, 1866, III, b 121; (Germany), X, a 456, b 457, a 458; (Italy), XIII, a 501; (John of Saxony), b 726; (Saxony), XXI, *b* 371-2. See Königgratz and Sadowa
Austru, wind (Roumania), XXI, b 19
Authari, Flavius, king (Lombards), XIV, a *b* 823, *a* 824
Authie river (Pas de Calais), XVIII, b 344; (Somme), XXII, *a* 274
Authion, river (Mainè-et-Loire), XV, b 305
Authonne, river (Oise), XVII, a 771
Authority (Comte), VI, a 209; (Law), XIV, b 359-60, b 361. See Sovereignty, Supremacy
Authors (Copyright), VI, a 316-25; foreign, in U. S. (Copyright), a b 324, b 325; rights of (Protection), XIX, a 927, a 932
Autissiodurum, town. See AUXERRE
AUTOCHTHONES, III, a 123
Autocopyist (Writing Machine), XXIV, b 733
AUTO-DA-FE, III, a 123; first (Ferdinand V.), IX, a 72
AUTOGRAPH, III, b 123
Autographic recorders (Strength of Materials), XXII, a 629, note; (Telegraph), XXIII, b 128-9
Autokrator, title (Emperor), VIII, b 164-5
AUTOLYCUS of Pitane, mathematician, III, b 123; (Astronomy), II, b 653
Autolytus, genus (Annelida) (Ill.), II, *a* b 60
Automatic curb sender (Telegraph), XXIII, a b 135; description of Diagrams, VII, b 131; exchange (Telephone), XXIII, b 145; lubricators (Lubricants), XV, b 36, b 37; recorders (Telegraph) (Ill), XXIII, a 159-30, a b 135; (Wheatstone), XXIV, b 568; signal telegraph (Fire), IX, b 206; variation cut-off (Steam-Engine), XXII, a b 531-2
Automatism, animal (Descartes), VII, b 108-9 (Lewes, G. H.), XIV, b 491
AUTOMATON, III, b 123-4; (Magic), XV, b 208-9, a b 210, a b 211; (Magnetism), a 284
"Autonomists," communists (International), XIII, a b 196
Autonomy in disease (Medicine), XV, *b* 805-6
Autophagy, nutrition by (Dietetics), VII, a 181
Autoplasts (Mollusca), XVI, a 708
Autos Sacramentales, dramas (Calderon de la Barca); IV, *b* 585, a b 586, a 587; (Drama), VII, a b 364, a 365; (Moratin), XVI, a 836
Autostylic skull (Ichthyology), XII, *a* 684
Autran, Joseph, poet (France), IX, b 594
Autricum, town (Chartres), V, b 376
Autronius, Pœtus, consul (Catalina), V, b 207
Autumn Wheats, XXIV, b 561-2
AUTUN, city, III, a 124
Auvergnats, race (Auvergne), III, b 124
AUVERGNE, district, III, a 124; mountains (France), IX, b 445; volcanoes of (Geology), X, *a b* 215, a 223
——, Chas. de Valois, comte d' (Angouleme), II, b 42
——, Henri de la Tour d'. See TURENNE
Auvernier, settlement (Lake Dwellings), XIV, a 225
'Auwaly, Nahr el-, river (Lebanon), XIV, *b* 393
Auwers on scale value in Parallax, XVIII, b 252
Aux Cayes, port (Hayti), XI, b 485
AUXENTIUS of Cappadocia, theologian, III, b 124
—— of Milan, bishop (Hilarius), XI, *b* 726; (Ulfilas), XXIII, b 766, a *b* 767
AUXERRE, town, III, b 124
AUXONNE, city, III, b 124
Auxume or Axum, kingdom (Abyssinia), I, b 64
Auzout, Adrien, astronomer (Micrometer), XVI, b 251; (Telescope), XXIII, a 148
AVA, city, III, b 124-5; (Burmah), IV, *b* 496, a 497, note
—— or Kava, drink (Polynesia), XIX, a 433
Avahis, genus (Lemur), XIV, a b 442
Availability of Energy, VIII, a b 191
Avaite (Mineralogy), XVI, b 398

Avallon, island (Grail), XI, a b 32
AVALLON, town, III, b 125; (Yonne), XXIV, b 783
Avaloirs, Mont des (Mayenne), XV, a 655
Avalōkitēswara, personification (Buddhism), IV, *a* 392; (Lāmāism), XIV, *a b* 228, b 229
Avalon, peninsula (Calvert, George), IV, b 631; (Newfoundland), XVII, b 391, b 392
Avani, village (Kolár), XIV, b 137
Avantageur, Prussian (Army), II, b 523-4
Avanturine, mineral (Glass), X, a 581; (Mineralogy), XVI, a 388, a 405
Avanzi, Giàcomo degli, painter (Verona), XXIV, b 186
Avare, l', comedy (Molière), XVI, a 652
Avaricum, Gallic town (Bourges), IV, a 160
Avaris, city (Egypt), VII, b 637, a 638, b 641
Avars or Avari, race (Austria), III, a 108; (Caucasus), V, b 224; (Charlemagne), V, b 349; (Greece), XI, b 100; (Heraclius), a 608; (Khazars), XIV, a 62; (Lesghians), a 475; (Moravia), XVI, b 837; (Persia), XVIII, b 625; (Turks), XXIII, a 701, note
Avatārs, incarnations (Brahmanism), IV, *b* 187; (Tibet), XXIII, b 364
AVATCHA, volcano and village, III, b 125
AVEBURY, village (Plan), III, b 125-6; (Wilts), XXIV, a 625, a b 626; circles at (Architecture) (Ill.), II, a 336; (Druidism), VII, a 413
Aveiro, district (Portugal), XIX, a 552, a 553
AVEIRO, town, III, a 126
AVELLA, town, III, a 126
—— nuts (Hazel), XI, a 490
Avellañeda, Alonso Fernandez de, pseudonym (Cervantes), V, b 306, a *b* 308
Avellenau, poem (Celtic Literature), V, a 275, a 276
AVELLINO, city, II, a 126; valley (Italy), XIII, b 450
AVENPACE or Abu Bekr Mohammed Ibn Jahya, philosopher, III, a 126; (Arabian Philosophy), II, b 235, a 236
AVENBRUGGER or Auenbrugger, Leopold, physician, III, b 126; (Auscultation), b 87; (Medicine), XV, b 824
Avenches, district (Vaud), XXIV, *b* 125, a 126
Avendeath, Johannes, translator (Scholasticism), XXI, a 444
Avenœ (Grasses), XI, b 49, b 52; (Oat), XVII, a 715
Avenir, journal (Montalembert), XVI, a 798; (Newspapers), XVII, b 437
Aventine Hill (Diana), VII, a 145; (Rome), XX, a 750, a 756, note, a b 825, a 830, a b 831, a 832
AVENTINUS, Johann Thurmayr, author, III, b 126; (Typography), XXIII, a 732
AVENZOAR, physician, III, b 126; (Medicine), XV, a 815
AVERAGE, commercial, III, a 127-9
  contributory value of interests, a 129
  extraordinary expenditures, b 128-9
  general, a 127
  sacrifices of cargo, a 127
  sacrifices of vessel, b 127
  stranding, a 128
Average in fire Insurance, XIII, b 170-1; general (Petroleum), XVIII, a 894; marine Insurance, XIII, a b 193-4
——, mathematical (Probability), XIX, a 801; or means (Statistics), XXII, b 482-3
Averani, Nicolò, editor (Gassendi), X, a 96
AVERNUS, lake, III, b 129
AVERROES, Ibn Roshd, philosopher, III, b 129-32
  bibliography, a 131
  his Aristotelianism, a 130
  biography of, a 130-1
  his influence in Christendom, a 131-2
  his views of theology, b 130
—— (Arabian Philosophy), II, a 233, b 234, a 235, a *b* 236, a 237; (Avenzoar), III, b 126; (Phrenology), XVIII, a 857
Averruncator, tool (Horticulture), XII, b 239
Averruncus, title (Jupiter), XIII, b 789
AVERSA, town, III, a 132
Averserthal, valley (Grisons), XI, *a* 182
Avery's organ, London (Organ), XVII, a 862
Aves islands (Venezuela), XXIV, a 152
AVESNES, town, III, a 132
Avesta, Parsee Scriptures (Aryan), II, b 589; (Cosmogony), VI, *a* 396; (Persia), XVIII, a b 666, notes, a 667 note; (Zend Avesta), XXIV, a 814-6; (Zoroaster), *b* 859, a 860
AVEYRON, department, III, a 132
Avezac-Macaya, Marie Armand Pascal d', geographer (Carpini), V, a 117; (Prester John), XIX, b 735, b 737
AVEZZANO, town, III, b 132
Avianus or Avienus, poet (Fable), VIII, a 734
AVICEBRON or Salomon ben Gebirol, philosopher, III, b 132-3; (Arabian Philosophy), II, a b 235, b 236; (Evolution), VIII, b 663-4
AVICENNA, Ibn-Sina, philosopher, III, a 133-5
  bibliography, a 135
  biography, a 133-4
  works, a 134-5
—— (Alchemy), I, a 408, *b* 410; (Arabian Philosophy), II, b 234, a b 235, b 236; (Evolution), VIII, b 663; (Gerard), X, b 395; (Medicine), XV, *a* b 815; (Persia), XVIII, b 663-9, a 673; (Ramusio), XX, *a* b 281; (Surgery), XXII, *b* 709; bibliography of (Averroes), III, a 132; manuscript of (Libraries), XIV, b 529
Avicennia, plant (Mangrove), XV, a 489
Aviculacea, family (Mollusca), XVI, a 711
Avicularia, polypide (Polyzoa), XIX, *a* b 452
AVIENUS, Rufus Festus, poet, III, a 135
Avifauna. See Birds
AVIGLIANO, town, III, b 135
AVIGNON, town (Plan), III, b 135-6; (France), IX, b 480; (Petrarch), XVIII, a 720; (Vaucluse), XXIV, a 125; bridge of (Bridges), IV, b 297
—— papacy (Catherine), V, b 201-2; (Clement popes), a b 718, 719; (Gerson), X, a 491-2; (Popedom), XIX, a b 516; (Rome), XX, a 816, *a* b 817, b 819, *a* 820; (Urban V.), XXIV, *a* 13
AVILA, province and town, III, a b 136; (Spain), XXII, *b* 308, b 312, a 315
——, Gil Gonzalez d', antiquary, III, b 136
—— Don Pedro Arias d', governor (Balboa), III, *a* 237; (Geography), X, a 163
—— Y ZUNIGA, Luis d', historian, III, b 136
AVILES, San Nicolas de, town, III, b 136
Avisio valleys, dialect (Italy), XIII, *b* 502
Avitus, emperor (Apollinaris Sidonius), II, a 162
AVLONA or Valona, town, III, b 136
Avoca river. See Ovoca
Avocado oil (Oils), XVII, b 765, b 768
Avocat (Advocate), I, a 162
Avocet or avoset, bird (Humming-Bird), XII, b 372; (Stilt) (Ill.), XXII, a b 580, note
Avogadro di Quaregna, Amadeo, physicist (Chemistry), V, a 403, *a* b 406, a *b* 407
——, law of (Gay-Lussac), X, a 110; (Molecule), XVI, b 633, a 636; (Paraffin), XVIII, b 241
AVOIRDUPOIS, III, b 136; (Weights and Measures), XXIV, b 517
AVOLA, city, III, a 137
AVON, rivers, III, a 137; (England), VIII, a 196
—— (Leicester), XIV, a 424; (Northampton), XVII, a 569; (Somerset), XXII, *a* 271, (Warwick), XXIV, b 399; (Worcester), *b* 700, b 701
—— Lower (Hampshire), XI, 384; (Wilts), XXIV, b 625
—— Scotch (Linlithgow), XIV, b 675
—— meadows (Irrigation), XIII, b 378
—— water, lake (Dahomey), VI, b 674
—— viaduct (Railway), XX, b 242
Avonmouth (Harbors and Docks) (Plate X), XI, a 418, b 419
Avoués (Advocate), I, a 162
AVRANCHES, town, III, a 137
Avratynsk Heights (Podolia), XIX, a 266; (Volhynia), XXIV, b 301, *a* 303
Avre river (Somme), XXII, b 274
Avrora (Alexander, Sir W.), I, b 435, a 436
Avvakum, priest (Siberia), XXII, b 15, note
Awaj, river (Abana), I, a 12; (Syria), XXII, b 860
'Awálim, singers. See ALME
Awakhtars, planets (Zodiac), XXIV, b 831
Awantibo, animal (Lemur), XIV, a 444
Award, judgment (Arbitration), II, b 274
Awe river (Argyllshire), II, a 439
Awn (Grasses) (Ill.), XI, *b* 49
Ax, town (Dax), VI, b 745
Axan, Mohammed ben Daoud. See ALP ARSLAN
Axarquia, mountains (Malaga), XV, a b 318
Axayacatl, king (Mexico), XVI, a 218
Axe, battle (Halbert), XI, a 340; (Heraldry), b 627
—— river (Somerset), XXII, a b 271, b 272
Axe Edge, mountain (Derby), VII, *a* 93; (Stafford), XXII, a 459
Axedrezdela Dama, game (Chess), V, a 522
Axelholm. See Axholm
Axes (Hand Tools) (Ill.), XI, b 390; American (Patents), XVIII, a 882; stone (Lake Dwellings), XIV, a 225
Axes of conics (Geometry), X, b 358-60
—— of crystals (Mineralogy), XVI, b 359, a 361-3, a 370, b 371, a 373, b 374, a 375; optic (Mineralogy), *b* 388; of optical elasticity (Mineralogy), *b* 388, a 389; thermic (Mineralogy), b 392
—— of ellipsoid strain (Mechanics), XV, b 703; of inertia (Mechanics), a 740-1
——, intersecting, coupling of (Mechanics), XV, a b 771; parallel, coupling of (Mechanics) (Ill.), b 769, b 770; revolving (Mechanics), b 697
Axe-stone (Jade), XIII, a 550
AXHOLM or Axelholm island, III, a 137; (Lincoln), XIV, *b* 660, *a* b 661, b 662; (Nottingham), XVII, b 612
Axial defined (Anatomy), I, b 718; cylinder, neural (Anatomy), *b* 754-5, *b* 756; process (Anatomy), *a* 756
—— direction (Magnetism), XV, a 239-4; pencil defined (Geometry), X, *b* 347; strep (Bridges), IV, b 256
—— vertebrate Skeleton, XXII, a 117-24
Axillary artery (Anatomy), I, b 793, a 794; vein (Anatomy), *b* 795
Axim, town (Ahanta), I, a 374; and river (Gold Coast), X, a b 672

- Axine, parasite (Trematoda) (Ill.), XXIII, a b 573, a 574
- Axinite (Mineralogy) (Ill.), XVI, b 375, b 389, b 391, a 429
- AXIOM, III, a 137–40
  - certitude of knowledge, a b 140
  - early use of term, b 137–8
  - Euclid, a b 138, a 139
  - experiential school, b 138–40
  - mathematical, b 138
  - scientific, a 140
- *Axiomata, sive Leges Motus* (Mechanics), XV, a 683
- Axioms (Geometry), X, a 334–5; (Mechanics), XV, a 683; of Euclid (Parallels), XVIII, a 259; projective (Geometry), X, b 346–7; scientific (Bacon), III, a 186, a b 187 note 5; in Thermodynamics, XXIII, a 305
- Axis or Spotted Deer, VII, b 22
- Axis (Conic Sections), VI, b 242, a 243, b 244, a b 245, b 247, a 252, a 253; (Crystallography), b 596
- ——, bone (Skeleton), XXII, a b 119; (Mammalia), XV, a 360
- ——, central of system of forces (Mechanics), XV, b 737; instantaneous (Mechanics) (Ill.), a b 762–3; neutral (Bridges), IV, b 256, a 260, a b 263; stability of the earth's (Geology), X, a 193–4; torsion (Mechanics), XV, b 751–2
- Axius, river (Macedonia), XV, *b* 137 *a* b 138
- Axle, collinge (Carriage), V, b 120
- Axle-box, locomotive radial (Steam-Engine), XXII, b 547
- Axles, radial (Railway), XX, a 255
- AXMINSTER, town, III, b 140; rugs (Carpets), V, a 114; patent Carpets, a b 115
- Axoloti, amphibian (Crustacea), VI, b 577 note; (Siredon), XXII, b 103–5
- Axonia, organic forms (Morphology), XVI, b 870 *seq.*
- Axopora, genus (Corals), VI, a 334, a b 337
- AXUM, Auxume or Aksum, town, III, b 140; (Semitic Languages), XXI, b 686–7; (Zulla), XXIV, b 865; inscription (Ethiopia), VIII, *b* 538; (Yemen), XXIV, b 776, a 777; Kingdom (Abyssinia), I, 64
- *Axur, Re d'Ormus*, opera (Salieri), XXI, b 228
- Axylum or Axylus, district (Phrygia), XVIII, a 867; (Asia Minor), II, b 615
- Ayacucho, battle of, 1824 (America), I, a 623; (Peru), XVIII, b 691
- Ayala, Adelardo Lopez de, dramatist (Spain), XXII, a 378
- —— Pedro Lopez de, poet (Spain), XXII, a b 368, a 369
- AYAMONTE, city, III, b 140–1
- Ayar rabbā, myth (Mandæans), XV, *b* 475
- Ayarza, lake (Guatemala), XI, b 212
- Aybar, battle of, 1452 (Spain), XXII, a 339
- Aydin, princes of (Turkey), XXIII, a 681
- Aye-aye, animal (Lemur) (Ill.), XIV, a 441, b 442; (Madagascar), XV, b 171; (Mammalia), *b* 357
- Ayen, ducs de (Noailles), XVII, *a* 537
- Ayer Bamgis, town (Sumatra), XXII, b 672
- Ayesha or Aisha, prophet's wife (Ali), I, b 504; (Arabia), II, b 220, a 226; (Mohammedanism), XVI, b 575, *a* 587, a 625
- Ayguez, river (Vaucluse), XXIV, a 125
- Aylen's anchor, II, *b* 7, a 8
- AYLESBURY, town, III, a 141; town (Buckingham), IV, *b* 373, *a* 374
- —— case (Holt), XII, a 107; duck (Poultry), XIX, *a* 667
- AYLESFORD, village, III, a 141
- AYLMER, John, bishop, III, a 141; (Foxe, J.), IX, b 443
- Aymar or Aimar. See Adhémar
- Aymara *Dictionary*, VII, a 168; Indians (Bolivia), IV, *b* 14–5; (Indians), XII, a b 865, b 868, a 869; (Religions), XX, a 377; (Peru), XVIII, a b 690
- Aymestry limestone (Geology), X, b 297
- Aymon, count (Savoy), XXI, a 356
- —— *Four Sons of* (Romance), XX, a b 669
- *Ayodhya* (Hindustani Literature), XI, a b 755
- Ayolas, his expedition to Peru (Argentine Rep.), II, a 431
- AYR or Ayrshire, III, b 141–3; (Scotland), XXI, *a* 544, a 546, a b 551, a 557, a 558; (Dairy), VI, b 677, b 680; city, III, *b* 142–3; river, III, b 141
- Ayre Island (Mediterranean Sea), XV, b 831
- AYRER, Jacob, dramatist, III, a b 143; (Drama), VII, b 380
- Ayrshire cattle (Agriculture), I, a 345; (Ireland), XIII, b 231; Coal-fields, VI, b 50–1
- *Ayrshire Legatees* (Galt), X, *b* 43
- Ayrton and Perry, engineers (Traction), XXIII, b 527, a 528
- Ayscue, Sir George, governor (Barbadoes), III, a b 310
- AYTON, Sir Robert, poet, III, b 143
- AYTOUN, William Edmondstoune, poet, III, b 143–4
- Ayubite dynasty, Syria (Kúrdistán), XIV, b 160
- Ayuka, khan, chief (Calmucks), IV, a 629; (Mongols), XVI, b 771
- Ayur-veda or medicine (Sanskrit), XXI, b 308–9
- Ayuthia, city (Siam), XXI, a b 892, *a* b 894
- "Ayutla, plan of" (Mexico), XVI, b 228, b 897
- Azad-ad-Dowleh, amir (Kúrdistán), XIV, b 160
- AZAIS, Pierre Hyacinthe, philosopher, III, a b 144
- Azak, city (Mongols), XVI, b 774
- Azalea, plants (Horticulture), XII, a 271; (Rhododendron), XX, b 541, a 542
- Azaleine (Coal Tar Colors), XVIII, a 902
- Azalguate river (San Salvador), XXI, a 281
- Azania, district (Yemen), XXIV, b 776
- AZARA, Don Felix d', naturalist, III, b 144; (Seriema), XXI, b 708
- AZARA, Don Jose Nicholas d', diplomatist, III, a 145; (Paraguay), XVIII, b 249
- Azariah or Uzziah, king of Judah (Israel), XIII, b 421, note, b 422
- Azazel (Devil), VII, b 118
- Azeez Aboos Mansoor Nizar, el, caliph (Egypt), VII, a b 651
- AZEGLIO, Massimo Taparelli, Marquis d', author, III, a b 145; (Italy), XIII, b 497 a b 499
- AZERBIJAN, province, III, b 145–6; (Persia), XVIII, a b 637, b 640
- Azerin (Insectivorous Plants), XIII, b 145
- Azhar, mosque (Cairo), IV, a b 573; (Egypt), VII, a 651, a 656, a 681; (Sunnites), XXII, b 694, a *b* 695, note
- Azilá, town (Morocco), XVI, a 857
- AZIMGARH, province, III, a 146; city, *b* 146
- Azimuth (Earth), VII, a b 518, a 522–3; calculation of (Surveying), XXII, b 736, a 749; defined (Geography), X, b 176; determination of Time, XXIII, b 420; observations (Navigation), XVII, a *b* 278, *a* b 282; (Surveying), XXII, a 741
- —— Compass, VI, b 200–1; (Meteorology), XVI, a 166; mirror (Compass), VI, b 203
- Azincourt. See AGINCOURT
- Azo colors (Coal Tar Colors), XVIII, a 900, a 905
- Azo or Azzolinus, Portius, jurist, III, b 146; (Universities), XXIII, a 889
- AZOFF, sea of, III, b 146; (Black Sea), *b* 691, b 692; (Caspian Sea), V, b 156, *a* 157; province (Russia), XXI, a 76, a 87, b 93, b 105, a 106, a 108; town, III, b 146
- Azoic period (Geology), X, *b* 289–91; rocks (Sweden), XXII, b 777; central (United States), XXIII, b 852–3
- Azolitmin, chemical compound (Litmus), XIV, b 709
- AZORES or Western Islands (Map), III, a 147–9
  - bibliography, b 149
  - history, a b 147
  - islands of the, b 148
  - physical features, a 148
- —— (Atlantic Ocean), III, *b* 16, b 17; (Distribution), VII, b 234–5; (Map), XV, b 528; (Orange), XVII, *a* 835
- AZOTUS, city, III, b 149. See Ashdod
- AZPEITIA, town, III, b 149
- Azrak river. See Blue Nile
- Azrakí, historian (Tabarí), XXIII, a 7, note
- Aztec *Dictionaries*, VII, a 168; Calendar (Zodiac), XXIV, a 833; Engraving, VIII, a 391; language (America), I, a 611; literature (Drama), VII, b 348; palaces (Pueblo Indians), XX, b 888; writing (Alphabet), I, b 529, a 530
- —— Niquiran, race (Indians), XII, a b 868
- AZTECS, race, III, b 149; (America), I, a 610, b 619; (Fire), IX, b 201, a 202; (Funeral Rites), b 724; (Indians), XII, a 865, a 868; (Mexico), XVI, a b 214, a b 217, a 218 *seq.*, a 222, b 230; (Mahogany), XV, a 290; (Mythology), XVII, b 149, b 156–7; (Nicaragua), b 492; (Religions), XX, b 376; (Yucatan), XXIV, *b* 797; festivals of (Mexico), XVI, a b 220
- —— Sonora race (Indians), XII, a 868
- Aztlan, territory (Aztecs), III, b 149
- Azulejos, wall tiles (Mural Decoration), XVII, b 42
- Azum river (Darfur), VI, a 725
- AZUNI, Domenico Alberto, jurist, III, b 149
- Azurara or Zurara, Gomez Eanes de, historian (Guinea), XI, a b 234; (Portugal), XIX, b 571
- Azureli, dye (Coal Tar Colors), XVIII, a 905
- Azurite, mineral (Malachite), XV, b 317; (Mineralogy) (Ill.), XVI, b 415–6
- Azygobranchia, order (Mollusca), XVI, a 668, b 671
- Azygos vein (Anatomy), I, b 795
- Azygous fins (Skeleton), XXII, a *b* 127
- Azyr, Vicq d', physician (Veterinary Science), XXIV, a 217
- Azzo. See ESTE, princes of

B, letter, III, a 150

- BAADER, Franz Xaver von, theologian, III, b 150–2; (Theosophy), XXIII, b 299
- BAAL or Bel, III, a 152–3; (Canaanites), IV, a b 674; (Hosea), XII, b 310; (Israel), XIII, a b 412, b 417, a 418, a 423; (Moloch), XVI, b 722; (Phalaris), XVIII, b 743; (Palmyra), b 203; (Saturn), XXI, b 336; (Tarsus), XXIII, *b* 73; Astarte and (Ahab), I, *b* 373; cult of (Image Worship), XII, b 649
- BAALBEC, city (Ill.), III, a 153–4
- Baal Hermon or Baal Gad, town (Hasbeya), XI, a 455

Baal-Peor, cult of (Moab), XVI, a 557
Baaltis, goddess (Jabeil), XIII, b 623-4; (Phœnicia), XVIII, a 816
Baal-zebub or Beelzebul (Baal), III, b 152; (Philistines), XVIII, a 770
Baanes, sectary (Paulicians), XVIII, b 444
Baaras, herb (Mandrake), XV, a 484
Bab, the (Babi), III, b 156, *b* 157. See BABI, sect.
Baba Ardelán, chief (Kúrdistán), XIV, a 158 note
Bábá Búdans mountains (Kádúr), XIII, *b* 824; (Mysore), XVII, b 130
——, traveller (India), XII, b 788
Baba Buzurg, saint (Luristan), XV, b 70
Baba-dagh, range (Asia Minor), II, a 617; (Caria), V, *b* 90; (Caucasus), *b* 221
Babads, chronicles (Java), XIII, a b 619, b 620
Babahoyo, river (Ecuador), VII, b 560
Bábak, sectary (Mohammedanism), XVI, b 606, a 607
Bábar, Mogul chiefs. See BABER
BABATAG or Babadag, city, III, b 154
BABBAGE, Charles, mathematician, III, b 154-5; (Calculating Machines) IV, a 580-1; (Herschel), XI, a 686; (Political Economy), XIX, b 390; (Tables), XXIII, b 14, a b 15
Babbit's anti-friction metal (Antimony), II, a 114
Babblers, Timeliidæ (Birds), III, a 642, b 643, *a b* 655
"Babbling" (Hound), XII, b 329
Babcock, Alphæus, inventor (Pianoforte), XIX, a 85
—— and Wilcox boiler (Steam-Engine), XXII, a 520
Babeen tribes (Pipe), XIX, a 120
Babegan, surname of Sassanian Ardashir I., also called Artaxerxes I. (*q.v.*)
BABEL or Babylon, III, a 155; (Mesopotamia), XVI, a 56; Tower of (Nimrod), XVII, b 524. See BABYLON and BABYLONIA
BAB-EL-MANDEB, strait, III, b 155; (Red Sea), XX, b 328, b 329
Babelsberg, palace (Potsdam), XIX, a 617
Babelthaup, island (Caroline Islands), V, a 111
BABER, Zehir-ed-dín Mohamet, Moghul chief, III, b 155-6; (Afghânistân), I, b 205, b 207, a 208, a b 214; (Cabul), IV, a *b* 554; (Ghazni), X, a *b* 501, *a* 502; (Hindu Kush), XI, a b 749; (India), XII, *b* 832, a b 833; (Kâfiristân), XIII, b 830; (Lahore), XIV, b 214-5; (Mongols), XVI, b 775; (Pánipat), XVIII, b 215
—— of Khúrasan, king (Persia), XVIII, a 644
——, A. H. (Alexandrian MS.), I, a b 439
——, E. Colborne, orientalist (Lhasa), XIV, a 497, a 498, a 503; (Tibet), XXIII, a b 370
BABEUF, François-Noel, socialist, III, a 156; (Socialism), XXII, a 219; conspiracy of (France), IX, b 536
Bābhai bar Nĕsībhnāyē, musician (Syriac Literature), XXII, *a* 887
—— of Izla, archimandrite (Syriac Literature), XXII, *b* 879, a 880, b 884-5
Bábhans, race (Patna), XVIII, a 419
Babhavúti, Crikantha, poet (Drama), VII, b 343, a 344, a b 345
BÂBI, Bāby or Bábís, sect, III, b 156-7; (Persia), XVIII, b 662, a b 663; (Shi'ites), XXII, a 700 note
——, lake (Borneo), IV, b 50
Babia Gora, mountain (Galiani), X, b 23
Babies at church (Christianity), V, b 607
Babil, ruin (Babylon), III, b 158
Babinet, Jaques, physicist (Mineralogy), XVI, a-b 390
Babinet's principle (Wave Theory), XXIV, b 458, a 461
Babington, Anthony, conspirator (Mary Stuart), XV, a 607; (Walsingham), XXIV, *a* 360
Babingtonite (Mineralogy) (Ill.), XVI, b 434-a 435
Babirussa, genus (Swine) (Ill.), XXII, b 812
Bábís, sect. See BÂBI
Bab Iskender, strait (Bab-el-Mandeb), III, b 155
Bable dialect (Asturias), II, a 722
Baboons (Ape) (Ill.), II, b 133-4, *b* 137, *a* 139, b 146; (Mandrill), XV, a 484
BABRIUS or Babrias, fabulist, III, a b 157; (Greece), XI, a 121
Babungera, race. See NIAM-NIAM
Baburuco Mountains (Hayti), XI, b 485
Babuyanes islands (Philippine Islands), XVIII, b 762, a 764, b 765
Baby, sect. See BÂBI
Baby, limbs of (Surgery), XXII, b 727
Baby-farming (Infanticide), XIII, a b 6
BABYLON, city, III, b 157-9; (Alexander the Great), I, a 427, b 428-9; (Bridges), IV, a 296; (Cyrus, Elder), VI, b 664; (Embroidery), VIII, b 148; (Enamel), b 167; (Euphrates), *a* b 588; (Fortification), IX, a 389; (Isaiah), XIII, b 388, a 389, a b 390, a 392, *b* 393, b 394; (Israel), b 423, *b* 427, b 428; (Magic), XV, a b 202, *b* 203; (Persia), XVIII, a b 578, b 583, a 593, b 594, a 595, b 596; siege of (Darius I.), VI, b 726; in Egypt (Cairo), IV, a 574; (Egypt), VII, b 667, b 668
Babylon, satire (Rosa), XX, b 869, b 870
BABYLONIA and ASSYRIA, III, a 159-68
  Accadian rulers, a b 160
  arts of, b 163-5
  Assyrian rulers, a 161-3
  Cyrus the Great, b 163
  Elamite rulers, a 161
  literature and trade, b 165-7
  physical features, a 159
  primitive settlers, a 160
  religion, a 167-8
  science, a b 165
  sources of information, b 159-60

——

—— (Asia), II, b 610; Assyria), b 642; (Elam), VII, *b* 689, *a* 690; (Hunting), XII, b 408; (Inscriptions), XIII, a 120; (Mesopotamia), XVI, *a* 52, a 56; (Numerals), XVII, b 640, a 641; (Pottery and Porcelain), XIX, b 621-2; (Priest), a 745, a 746; (Ring), XX, a 575
Babylonian alliance (Isaiah), XIII, a 389
—— captivity, Jewish (Hebrew Language and Literature), XI, b 533, a 535; (Isaiah), XIII, a 388, b 389, a 390, b 393; (Israel), a b 427, b 428, *a* 439; (Persia), XVIII, b 578; (Semitic Languages), XXI, a b 677; effects of (Bible), III, a b 549, b 553; (Pentateuch), XVIII, a 520, a b 521, a b 524
—— captivity, papal (Popedom), XIX, a 516
Babylonian Captivity of the Church of God (Luther), XV, b 75-6, b 79
—— Carpets, V, b 112-3; conquests in Egypt, VII, a b 644; Cosmogonies, VI, a 395; cylinders (Gems), X, a 122, a 123; Deluge, VII, a b 49; dialect (Semitic Languages), XXI, a b 682; language (Cush), VI, b 643; names (Daniel), VI, b 707-8; patriarchate (Greek Church), XI, b 138; philosophers (Alchemy), I, a b 408; Pilgrimage, XIX, a 100; reckoning (Chronology), V, a 617, b 620; religion (Demonology), VII, b 54, a 57; (Religions), XX, a b 374, a b 382; (Theism), XXIII, b 256-7; Sabbath, XXI, b 134, a 135; Talmud, XXIII, b 40, a 41, *a* 42, a b 43; (Semitic Languages), XXI, b 680-1; (Targum), XXIII, a 68 note; weights (Numismatics), XVII, b 646, a 647; Weights and Measures, XXIV, a 510-6; writing (Alphabet), I, a b 531
Babylonians, comedy (Aristophanes), II, a 448
Babylonica, novel (Romance), XX, a b 650
Bacalao, fish (Lofoten and Vesteraalen), XIV, a 776
Bacasis, town. See MANRESA
Baccalarius, landowner (Bachelor), III, a 170
BACCARAT, town, III, a 168; (Meurthe - et - Moselle), XVI, b 212, *a* 213
Baccarini's statistics of Italy, XIII, b 457
Bacchæ, drama (Euripides), VIII, b 594, *a* 595
Bacchanal, The, painting, (Titian), XXIII, a 444
Bacchanalia, festivals (Dionysia), VII, b 215
Bacchanalian scene, by Poussin (Schools of Painting) (Ill.), XXI, a 460
Baccharis halimifolia, shrub (Groundsel), XI, b 196-7
Bacchiadæ, family (Corinth), VI, a b 353
BACCHIGLIONE, river, III, a 168
Bacchus, god (Andros), II, a 23; (Anthesteria), II, b 91; (Dionysus), VII, a 217; (Drama), *a b* 349, a 350; (Fig), IX, a 135; (Orgies), XVII, b 863; (Sacrifice), XXI, a b 145
Bacchus, painting (Velazquez), XXIV, b 145
—— *and Ampelus*, torso (Michel Angelo), XVI, a 239
—— *and Ariadne*, paintings (Bone, Henry), IV, b 29; (Titian), XXIII, a 444
—— *at Cnidus*, statue (Bryaxis), IV, *a* 366
—— *and Young Faun*, statue (Michel Angelo), XVI, b 239
BACCHYLIDES, poet, III, a 168
BACCIO DELLA PORTA, painter, III, a 168
Bacciocchi, Maria Elisa (Massa), XV, *b* 617
Bacellar, Antonio Barbosa, poet (Portugal), XIX, b 571, b 572
Bach, Johann Christian, composer (Pianoforte), XIX, b 81
BACH, Johann Sebastian, composer, III, a 168-9; (Lute), XV, b 72; (Mendelssohn), XVI, b 11, a 13; (Music), XVII, a b 97, a b 98; (Organ), a 858, b 862, a 863; (Pianoforte), XIX, b 74, a 75, b 79, a 80, a 87; (Trumpet), XXIII, b 630, *a* b 631
BACH, Karl Philipp Emmanuel, composer, III, a b 169; (Music), XVII, b 103, b 104; (Pianoforte), XIX, *a* 75, a 87
Bachaumont, Memoires de (Periodicals), XVIII, b 550
Bache mountain (United States), XXIII, a 852
BACHE, Alexander Dallas, physicist, III, b 169-70; (Surveys), XXII, a b 939, a 940; (West Point), XXIV, *a* 892
——, Richard, postmaster (Post-Office), XIX, a 595
Bachelder patents (Sewing Machines), XXI, b 918, a 920
BACHELOR, III, a b 170; of arts, degree (Universities), XXIII, b 890, a b 899, a 909, a 911
Bachelors (Knighthood), XIV, b 118, a 119, a b 120, note; tax on (Finance), IX, b 159
Bacher Gebirge, mountain (Alps), I, a b 555

Bacher, W., Orientalist (Sa'di), XXI, b 151
Bachet de Mezeriac (Algebra), I, b 451
BACHIAN or Batchian, island, III, b 170
Bachofen, anthropologist (Ethnography), VIII, *b* 543
Bachopi, caste (Uganda), XXIII, a 765
Bacillaria paradoxa (Diatomaceæ), VII, b 147
Bacillary retinal layer (Anatomy), I, b 780-1, a 782
Bacilli, vegetable forms (Murrain), XVII, *b* 64, *a* 65; (Pathology), XVIII, b 417; (Phthisis), b 869, b 870; (Schizomycetes), XXI, a *b* 416, *a b* 417, a b 418, *b* 419, a b 420, *a b* 421, a 422, b 423, *a* b 424
Bacillus anthracis (Fungus), IX, a b 734; (Schizomycetes), XXI, b 417; (Surgery), XXII, a 714; (Woolsorter's Disease), XXIV, b 698
Bacini, dishes (Pottery and Porcelain), XIX a 639
Back, George, traveller (Geography), X, *a* 172; (Polar Regions), XIX, a 332
Backdraught (Harbors and Docks), XI, a 412
Backergunje, district. See BAKARGANJ
Backers, Americus, manufacturer (Pianoforte), XIX, *b* 81, *a* 82
Backfalls (Organ) (Ill.), XVII, a b 858
BACKGAMMON, game (Ill.), III, b 170-3
Backhouse, T. W., astronomer (Zodiacal Light), XXIV, b 835, a 836, *a* 837
BACKHUYSEN, Ludolf, painter, III, a 173; (Helst), XI, b 572
Backing (Betting), III, b 534
Bac-king or Bacthian, town, (Cachao), IV, b 554
Backing and filling (Seamanship), XXI, b 629
"Backing a plate" (Photography), XVIII, b 840
Backley Cattle, V, *b* 214
Backovsky, F., historian (Slavs), XXII, b 162
Back-staff, instrument (Geography), X, b 167
Backsword, weapon (Sword), XXII, a 840
Backwardation (Account), I, a 87
Backwash (Harbors and Docks), XI, b 413
Bac-Ninh, town and province (Tong-king), XXIII, a 468, a 470
Bacon beetle (Coleoptera) (Ill.), VI, b 118
BACON, Francis, Lord Verulam, III, a 173-88
  attorney-generalship of, a 177-9
  bibliography, a 188
  bribery suits, b 179-80
  Buckingham or Villiers, influence on fortunes of, b 178-9
  chancellorship of, a 179-80
  Coke and the judges resist the king, b 177-9
  enters public life, a b 174
  Essex, relations to Earl of, b 174-6
BACON, *continued*
  James I. and Scottish Union, a b 176
  parentage and youth, a b 173
  WORKS AND PHILOSOPHY OF, a 181-8
    conception of the field, b 182-3
    forms, theory of, a 184-5
    idola, b 183-4
    legal and literary works, a b 181
    methods of investigation, a 185-6
    objections to method of, a 187
    Philosophical works, b 181-2
    relation to human progress of, b 187-8
—— (Aëronautics), I, b 169; (Alchemy), a 409, a *b* 412, b 413; (Alleyn), b 514; (Astrology), II, a b 649; (Balance of Power), III, a 233; (Bibliography), a 573; (Brucker), IV, a 355; (Buckingham, Duke of), b 374, a 375; (Cabinet), a 550; (Calendar), b 95; (Coke, E.), VI, b 109-10; (Coleridge, S. T.), b 124; (Cryptography), b 592, a b 593; (Energy), VIII, b 188; (English Literature), a b 376; (Essex, Earl of), a *b* 491; (Hayward), XI, a 488; (History), XII, b 23-4; (Hobbes), *a* 35; (Hooker, R.), *a* 155; (Liverpool), XIV, a 723; (Logic), b 799-800, b 812; (London), b 858, a 859; (Lully), XV, *a* 66; (Medicine), a 819; (Pitcairne), XIX, a 142; (Perez), XVIII, a 536; (Rhetoric), XX, a 530; (Smith), XXII, a 186; (Theism), XXIII, *b* 263; (Torture), a 491, b 494; (Vico), XXIV, b 228; (Zoology), a 838
—— philosophy of (Boyle), IV, a 167; (Metaphysic), XVI, b 87, b 96, b 99; (Universities), XXIII, a 909; works on his authorship of Shakespeare, XXI, b 807
BACON, John, sculptor, III, a b 188; (Sculpture), XXI, a 587
BACON, Sir Nicholas, lord-keeper, III, a b 173, b 188
BACON, Roger, friar and philosopher, III, b 188-91; (Aëronautics), I, a 168; (Alchemy), a 410, a 411, a 412; (Automaton), III, a 124; (Averroes), a 131; (Calendar), IV, b 595; (English Literature), VIII, a 366; (Erigena), b 462; (Gunpowder), XI, a *b* 282, a 283; (Magic), XV, a b 208; (Mnemonics), XVI, a 556; (Rubruquis), XXI, *a* 53, note; (Telescope), XXIII, a b 146, *a* 147
BACONTHORPE or Bacon, John, monk, III, b 191
BACSANYI, Janos, poet, III, b 191
Bacteria, fungus (Biology), III, *b* 588, *a* 589, b 595-6; (Diphtheria), VII, b 217; (Fermentation), IX, b 85, a 86, note; (Fungus), b 728, b 734; (Microscope), XVI, a b 590; (Pathology), XVIII, b 411, b 417; (Plague), XIX, *a* 171; (Protozoa), XIX, b 883, b 888; (Schizomycetes) (Ill.), XXI, *b* 415-6, a 417, *a b* 418, a 419, *a* b 420, a *b* 421, a b 422, a 423, *a b* 424
Bacteriology (Surgery), XXII, a b 714, b 719
Bacthian, town. See CACHEO
Bactra or Zariaspa, city. See Balkh
BACTRIA or Bactriana, province, III, b 191-2; (Afghânistân), I, a b 214, b 218; (Macedonian Empire), XV, *a* 142; (Oxus), XVIII, a 105; (Persia), a 573, a 576, b 577, a 594, b 595, b 596, a b 597, b 598, b 599, a 600, b 601, b 602, b 603, a 604, a 605, a 611, a 666; (Zoroaster), XXIV, a 859, a 860; Greek conquests in (India), XII, b 826, b 827
Bactrian Camel, IV, a 652; coins (Numismatics), XVII, b 643, a 679; language (Persia), XVIII, a 666-7; Páli (Inscriptions), XIII, b 124
BACUP, town, III, a 192
Bada, town (Sumbawa), XXII, a 675
Badagas, tribe (Nilgiri), XVII, a 522
Badagry, town (Yoruba), XXIV, a 792
BADAJOS or Badajoz, province, III, a 192; (Spain), XXII, *a* 310, b 312, b 313, b 314, a 315
——, city, III, a 192; (Fortification), IX, *b* 403; (Pictou), XIX, a 90; siege of, 1169 (Portugal), XIX, b 556; in 1811-2 (Army), II, a 516; (Wellington), XXIV, *b* 523, a 524
BADAKHSHAN, district, III, b 192-3; (Afghânistân), I, *b* 204, *b* 216, *b* 217, b 218, *a* 219; (Ruby), XXI, b 54
BADALOCCHIO, Sisto, Rosa, engraver, III, b 193
Badam mountains (Syr-Daria), XXII, a b 859
Badarináth or Badrinath Mountain (Himalaya), XI, a 737, *b* 745
Badawúja order (Sunnites), XXII, a 697
Badbury fort (Wilts), XXIV, a *b* 626
Badcock, chemist (Vaccination), XXIV, b 29, a 30
Bade, Josse, printer. See Badius
Bad Elster, springs (Saxony), XXI, b 372
BADEN, Grand duchy (Map), III, b 193-5; (Forests), IX, a 352; (Prison Discipline), XIX, b 779; (Suicide), XXII, b 662, *a* b 663, a 664; statistics of (Germany), X, b 404, a *b* 405, b 407, b 408, a b 409, b 413, a *b* 417, a b 418, a 420, *b* 421, a 423
BADEN in Lower Austria, III, a 196; bridge at (Aqueduct), II, a 199
BADEN in Switzerland, III, a 196
BADEN-BADEN, town (Map), III, a 195-6; (Mineral Waters), XVI, a 453, b 455, a 456
Badenoch, district (Inverness), XIII, a *b* 205, b 206
——, Wolf of (Scotland), XXI, a b 513. See Buchan, Earl of
Baderich of Thuringia, king (Germany), X, b 428
Badge, the (Heraldry), XI, a 634
BADGER, animal, III, a b 196; (Fur), IX, b 735, a 736; (Hibernation), XI, a 704; (Hyrax), XII, b 633; (Mammalia), XV, b 446; honey (Ratel), XX, b 300-1
—— mountains (Washington Territory), XXIV, a 406
——, George Percy, orientalist (Syriac Literature), XXII, b 896 note, b 898, b 900 notes, a 901
Badgírs, towers (Persia), XVIII, a 638
Badhamia (Protozoa), XIX, a 863
Badhyz region (Transcaspian), XXIII, a 545
BADIA Y LEBLICH, Domingo, traveller, III, b 196
Badie, Jean de la, pietist. See LA BADIE
Badigeon (Building), IV, b 421
Ba Dimma river (Gambia), X, a 54
BADIUS or Bade, Jodocus or Josse, printer, III, b 196; (Typography), XXIII, b 739
Badku, town. See BAKU
Bad Lands, district (United States), XXIII, b 849
BADMINTON, game (Ill.), III, b 196-7
BADNUR, town, III, b 197
Bad Pyrmont, spa (Waldeck-Pyrmont), XXIV, b 342
BADRINÁTH, town and temple, III, b 197; mountain (Garhwal), X, b 72, a 73
Bad Sea (Tuamotu), XXIII, b 639 note
Badulla, town (Ceylon), V, *b* 313, a b 314
Baduria, town (Twenty-Four Pargánas), XXIII, a 716
Bæcula, town (Bailen), III, b 208
Bæda. See BEDE
Bægna river (Norway), XVII, *b* 589
Baehrens, E., philologist (Tibullus), XXIII, *b* 371, a *b* 372, *a* 373
Baele tribe (Soudan), XXII, a 292; (Tibbus), XXIII, *a b* 355
BAENA, town, III, b 197
——, Alfonso de, poet (Spain), XXII, b 369
Bænidæ, family of Chelonians (Tortoise), XXIII, a 486
Baer, Karl Ernst von, naturalist (Animal Kingdom), II, a 45; (Arthropoda), a b 566; (Biology), III, b 590; (Caspian Sea), V, a 154 note, *b* 155, *a* b 156; (Embryology), VIII, a *b* 152, *a b* 153, a *b* 154; (Morphology), XVI, a 865;

Baer, *continued* (Nova Zembla), XVII, b 620; (Reproduction), XX, b 425, b 432, a 433, a 434; (Trematoda), XXIII, a 569, a 573, a 575; (Volga), XXIV, a 300, b 301; (Zoology), a 846, a b 849, b 855
Bæterra Septimanorum, camp (Béziers), III, b 538
Baethgen, orientalist (Syriac Literature), XXII, *a b* 864, b 888, b 893, a b 894, note
Bætica, province (Granada), XI, a 41; (Spain), XXII, a *b* 322. See ANDALUSIA
Baeyer, Adolph, chemist (Indigo), XII, *a* 885
BAEZA, city, III, b 197-8
BAFFIN, William, seaman, III, a 198; (Geography), X, b 164-5; (Ormus), XVII, a 882 note; (Polar Regions), XIX, b 329-30
BAFFIN'S BAY, III, a 198; (Greenland), XI, b 148, b 150
Ba-fing river (Senegal), XXI, a 692
Bafiote, people (Loango), XIV, a 749
Bafulabé, town (Senegal), XXI, *a* b 692, note
Bagamoyo station (Zanzibar), XXIV, *a* b 807
Bagara, tribe (Kordofan), XIV, *b* 141
Bagariina, fishes (Ichthyology), XII, a 731
Bagarius, fish (Siluridæ), XXII, a 75
BAGATELLE, game (Ill.), III, a 198-9
Bagaudæ, banditti (Gaul), X, a 101
Bagay's *Tables Astronomiques* (Tables), XXIII, a 15, b 17
Bagehot, Walter, economist (Cabinet), IV, b 550, b 551; (Cairnes), a 572; (England), VIII, b 234-5, a 236; (Government), XI, b 12, b 13, note; (Political Economy), XIX, b 389, b 409, a 410-11
Bagenalstown (Carlow), V, a b 98
Bagger, Carl Christian, author (Denmark), VII, b 81
BAGGESEN, Jens Emmanuel, poet, III, a 199; (Denmark), VII, b 80; (Oehlenschläger), XVII, a b 751
Baggio, Anselmo. See Pope ALEXANDER II.
Baghasian or Baghisian, governor of Aleppo (Crusades), VI, *b* 556
BAGHDÁD, district, III, a b 199
——, city (Plan), III, b 199-202; (Abbas), I, b 15; (Abbasides), b 15; (Abdallatif), b 34; (Al-Mamun), a 519; (Arabia), II, *a* 227; (Arabian Philosophy), a *b* 234, *a* 235; (Egypt), VII, a 652; (Maps), XV, a 524; (Medicine), b 814; (Mesopotamia), XVI, a b 56; (Mohammedanism), b 593, a 602, b 605, a *b* 606, b 607, a b 609, a b 610, b 611, a 613; (Mongols), b 768; (Numismatics), XVII, b 678, a 679, note; (Observatory), a 729; (Persia), XVIII, b 626 note; (Teak), XXIII, a 111 note; siege of, 1638 (Amurath IV.), I, b 686; (Turkey), XXIII, a 686
BAGHERMI or Bagirmi, district, III, b 202; (Africa), I, a 243; (Soudan), XXII, b 290, a b 291, *a* b 292, a 293; races of (Negro), XVII, a 328
Baghlan, river and town (Afghânistân), I, b 216, *b* 217, b 218
BAGHMATI or Bagmati, river, III, b 202; (Nepal), XVII, a 351
Bāgh-o-Bahār (Hindustānī), XI, a 750
Baghtchasarai. See BAKHCHISARAI
Bagimond's roll (Alexander III.), I, a 434.
Bagirmi, district. See BAGHERMI
Baginze mountain (Soudan), XXII, a 291
Bagley, Thomas, preacher (Lollards), XIV, b 821
Baglioni, House of (Perugia), XVIII, a 694
BAGLIVI Giorgio, physician, III, b 202
Bagmati river. See BAGHMATI
BAGNACAVALLO, Bartolommeo, painter, III, b 202, a 203
BAGNÈRES-DE-BIGORRE, city III, a 203; town (Pyrénées), XX, a *b* 133
BAGNÈRES-DE-LUCHON, town, III, a 203
Bagnes, jails (Prison Discipline), XIX, b 778
Bagni, town. See CASCIANO DEI BAGNI; also LUCCA
Bagnios (Baths), III, a 378
——, Italian jails (Prison Discipline), XIX, *b* 780
Bagnoles springs (Orne), XVIII, b 5
Bagnyon, Jean, editor (Romance), XX, b 666
Bagoas, satrap (Darius III.), VI, b 727; (Persia), XVIII, a b 592
Bagpat, town (Meerut), XV, *a* 835
BAGPIPE, III, a b 203
Bagradas or Mejerda, river (Tunis), XXIII, b 659
Bagrat III., king (Georgia), X, a 388
—— IV., king (Georgia), X, a b 388
—— V., king (Georgia), X, b 388
Bagratian dynasty (Georgia, Kingdom), X, a 388-9; (Greece), XI, b 103
BAGRATION, Peter, prince, III, b 203; (Napoleon I.), XVII, *b* 223, a 224
Bágri district (Murshidábád), XVII, b 69
Bagrina, fishes (Ichthyology), XII, b 730
Bagru, river (Sierra Leone), XXII, a 51
Bagrus, fish (Siluridæ), XXII, a 75; (Skeleton), *a* 119
Bagshot group of rocks (Geology), X, b 320, a 321
—— Heath (Berkshire), III, a 511; (Surrey), XXII, b 728
Bague de l'Oubli (Rotrou), XXI, b 12
Bagura, district. See BOGRA
Bahâdur, Sir Jung (Nepāl), XVII, a b 352, *a* b 354
——, Sir Ranadīp Singh (Nepāl), XVII, b 354
—— Sháh, son of Aurungzebe (Hyderabad), XII, b 445
—— Shāh II., emperor of Delhi (Hindustani Literature), XI, b 757
BAHAMAS, or Lucayas, islands (Map), III, b 203-6; (America), I, a 627; (West Indies), XXIV, *b* 538, a b 539
Bahar in Weights and Measures, XXIV, a *b* 518
Bahara Saphonique, solfatara (Sulphur), XXII, b 667
Bahar-lu, tribe (Turks), XXIII, b 703
Bahá-uddín Walad, physician (Rúmí), XXI, *a* 65
Baháwalpur, state (Punjab), XX, a b 115, a 116
BAHIA, province of Brazil, III, b 206; (Brazil), IV, a *b* 201, *a* b 202, *a* 204, a 207, a 209, b 210, b 211, *b* 212, b 213
BAHIA, city of Brazil, III, b 206-7; (Brazil), IV, a 201, a 204, a *b* 206, a 208, a 209, b 213, a 214, *a* b 215
—— Blanca, town (Buenos Ayres), IV, *b* 393
—— Honda, port (Colombia), VI, a 137
—— Tarta, town (Benguela), III, a 494
Bahir (Midrash), XVI, b 299
Bahiúda desert (Nubia), XVII, b 625
Bahlol Lodi, emperor of Delhi (Jaunpur), XIII, b 610
Bahmani, empire (Bombay), IV, a 23; (Deccan), VII, *b* 18; (India), XII, b 832, a 833
Bahr al-Abiad or White Nile (Africa), I, b 221, b 226; (Nile), XVII, b 519, a b 520, a 521
Bahr al-Arab, river (Nile), XVII, a 520
Bahr al-Aswad, river. See ATBARA
Bahr-al-Ghazál, river (Nile), XVII, *b* 519, a 520, a 521
Bahr-al-Jebel, river (Nile), XVII, b 518 note, a b 519, a 520, a 521
Bahr-al-Zeráf, river (Nile), XVII, *b* 519
Bahrám I., king (Persia), XVIII, b 619
—— II., king, Persia, XVIII, b 619
—— III., king, Persia, XVIII., b 619
—— IV., king, Persia, XVIII, a 621
—— V., king, Persia, XVIII, a 621, a 668
—— Chobin, general (Persia), XVIII, b 624-5
—— Khan, nobleman (Akbar), I, a b 385
Bahrám, sháh (Ghazni), X, b 501-2; (India), XII, b 831; (Saná'í), XXI, b 266
BAHRDT, Karl Friedrich, theologian, III, a 207
Bahree dynasty (Egypt), VII, a 609, a 655
BAHREIN or Bahreyn island, III, b 207; (Arabia), II, b 205, b 217, a 218, a 222, a 227, b 228, a *b* 229; fishery (Pearl), XVIII, a 458
Bahríya, oasis (Oases), XVII, a 715
Bahr-Yoosuf, canal (Egypt), VII, b 615, a 654, a b 671
Bahu, goddess (Babylonia), III, b 167
BAIÆ, town, III, b 207; (Aqueduct), II, b 192; bay of (Naples), XVII, b 194
BAIBURT or Baiberdon, town, III, b 207
Baiern. See BAVARIA
Baids, medical men (Nepāl), XVII, a 351
Baidyabati, town (Hooghly, Dist.), XII, a 151
BAIF, Jean Antoine de, poet, III, a 208; (France), IX, b 572; (Ronsard), XX, *b* 863
Baïf, Lazare de, poet, III, a 208
BAIKAL, lake, III, a 208; (Lake), XIV, b 217, a b 218; (Mammalia), XV, a 377; (Mongols), XVI, b 776; (Siberia), XXII, a b 7, note, *b* 9, a 10, *a* b 11, b 12, a 13, b 14, a 15; (Transbaikalia), XXIII, *b* 541, *a b* 542, *a* 543; (Yeniseisk), XXIV, b 779, note
BAIKIE, William Balfour, traveller, III, a b 208
Baikonka, district (Celebes), V, a 251
BAIL, law-term, III, b 208
BAILEN or Baylen, town, III, b 208
BAILEY or Baily, Nathanael, philologist, III, b 208
BAILEY, Samuel, essayist, III, b 208-9
——, open space (Architecture), II, b 403; outer and inner (Castle), V, a 172, a 173; Bailiff, officer (Borough), IV, a 56
BAILLET, Adrien, critic, III, a b 209; (Bibliography), a 569
BAILLEUL, town, III, b 209; (Nord), XVII, b 548
Baillie, of Greenwich Hospital (Erskine), VIII, b 468
——, colonel in Indian Army (Hyder Ali), XII, b 443
——, James, physician (Hunter, W.), XII, a 408
—— of Jerviswood, martyr (Scotland), XXI, a 539
BAILLIE, Joanna, poet, III, b 209-10; (Bothwell, village), IV, b 149; (Drama), VII, b 379
BAILLIE, Matthew, anatomist, III, a 210
BAILLIE, Robert, divine, III, a b 210; (Presbyterianism), XIX, a b 702, b 706, *a* b 707, a *b* 708
BAILLY, Jean Sylvain, astronomer, III, b 210-1; (France), IX, a 527
Bailment law-term (Negligence), XVII, a 325
Baily, lexicographer. See BAILEY
BAILY, Edward Hodges, sculptor, III, a b 211; (Sculpture), XXI, a 587

BAILY, Francis, astronomer, III, b 211; (Annuities), II, a *b* 66, note, a b 73; (Clocks), VI, a 17
Bain, Alexander, metaphysician (Æsthetics), I, b 192, a b 201; (Anthropology), II, b 96; (Association of Ideas), b 640, a b 641; (Belief), III, *a* 461, note; (Education), VII, a b 588; (Ethics), VIII, a 534; (Grote), XI, a b 192; (Psychology), XX, b 43, b 45, b 48 note, a b 54, a b 65, a 67 note, b 73 note, b 87, b 89 note, b 90
——, Alexander, *b.* 1811, *d.* 1877, inventor (Telegraph), XXIII, b 128, a 129; pendulum of (Clocks), VI, a 26
Bainbridge, Christopher, cardinal (Wolsey), XXIV, b 668
BAINBRIDGE, John, astronomer, III, b 211
BAINES, Edward, editor, III, b 211-2
——, Sir Edward, editor, III, a 212
BAINES, Matthew Talbot, politician, III, a 212
BAINI, Giuseppe, composer, III, a 212; (Palestrina), XVIII, b 183
Bainsha, animal (Buffalo), IV, a 396
Bairaktar, grand vizier (Turkey), XXIII, a 690
BAIRAM, feast, III, a 212
——, Ali, city and hero (Merv), XVI, b 47
Bairamitch, town (Troad), XXIII, a 615
BAIRD, David, Bart., general, III, a b 212; (Moore), XVI, a 831
——, James, benefactor, (Scotland), XXI, *a* 565
——, Spencer Fullerton, naturalist, *b.* 1823, *d.* 1887 (Birds), III, b 650, b 651, note, *a* 652, b 653, a 667; (Fisheries), IX, a *b* 233, note; (Ornithology), XVIII, *b* 20; (Pisciculture), XIX, b 135, a 136; (Siredon), XXII, a b 104; (Smithsonian), *a* b 915, note, a 916; (Surveys), b 935, *a* 936; (Zoology), XXIV, a b 923
BAIREUTH or Bayreuth, city, III, b 212; (Wagner), XXIV, b 336, *a* 337
Bairut. See BEYROUT
Baisa Bol, gum (Myrrh), XVII, a 129
Bäisi, district (Nepâl), XVII, a 349
Baisun, town (Hissar), XII, a b 5
Bait, fishing (Angling), II, a b 30, a b 31, b 32, *b* 33, a 34; (Annelida), b 63-4; (Mollusca), XVI, b 671; (Mussel), XVII, a b 117
Baitaraní river (Balasor), III, b 235; (Cattack), V, *b* 211; (Jàjpur), XIII, *a* 555; (Orissa), XVII, a b 869
Baithene of Iona, abbot (Scotland), XXI, a 497
Baitogabra, city (Eleutheropolis), VIII, a 121
Baitool, district. See BETUL
Baiuvarii, race (Tyrol), XXIII, a 759
BAJA, town of Hungary, III, a 213
—— or Bedja, town of Tunis, XXIII, b 660
BAJAZET I. or Bayezid, the Thunderbolt, sultan, III, a 213; (Egypt), VII, *a* 657 (Greece), XI, b 107; (Roumania), XXI, a 21; (Turkey), XXIII, b 682
BAJÀZET II., sultan, III, a 213; (Egypt), VII, *b* 657; (Turkey), XXIII, b 683-4
Bajazet, play (Racine), XX, *b* 213
Bajazid, city. See BAYAZID
Báji Ráo, Peshwá (Cawnpur), V, b 241; (India), XII, a 845, b 848
Bajree or Bájra, grain (India), XII, a 771, a 786; (Millet), XVI, b 333
BAJUS or De Bey, Michael, theologian, III, a 213
Bajuvariorum or *Bawarorum Lex* (Salic Law), XXI, a 225
BAJZA, Joseph, poet, III, a 213; (Hungary), XII, b 393, a 395
BÁKARGANJ, district, III, a 213-4
Bakel, town and circle (Senegal), XXI, *a* b 692, note; (Senegambia), b 694
Baker, mountain in cascade range (United States), XXIII, *b* 851
Baker, Benjamin, engineer (Railway), XX, b 242; (Tunnelling), XXIII, a b 655; pneumatic shield of, XXIII, a 700
——, Sir George, physician (Porson), XIX, b 537
BAKER, Henry, naturalist, III, b 214
——, John Gilbert, botanist (Lily), XIV, a 650; (Potato), XIX, a b 612, note, a 615
BAKER, Sir Richard, chronicler, III, a 215; his *Chronicle* (Turkey, bird), XXIII, a 700
——, Richard Francis, explorer (Geography), X, b 173
——, Sir Samuel White, traveller (Africa), I, a *b* 222, a 223, b 225; (Albert Nyanza), a 401; (Birds), III, a 629 note; (Camels), IV, *b* 651, a 652; (Crocodile), VI, a 525; (Nile), XVII, b 518, a *b* 519, b 520, b 521; (Slavery), XXII, b 152, b 153
BAKER, Thomas, antiquary, III, a 215; (Parker), XVIII, a 306
BAKEWELL, town, III, a 215
——, Robert, stockgrower (Agriculture), I, a 270, b 347, a 348; (Breeds), IV, b 223, a 224
Bakewell and Cros autographic recorder (Telegraph), XXIII, b 128
BAKHCHISARAI or Baghtchasarai, town, III, b 215; (Crimea), VI, a b 519
BAKHMUT, town, III, b 215
Ba-Khoy, river (Senegal), XXI, *a* 692
Bakhtiari, ranges (Khúzistán), XIV, a 70; (Luristan), XV, *a* 70; people (Luristan), a 70
Bákí of Constantinople, poet (Turkey), XXIII, b 698
Bakí el-Gharkad, cemetery (Medina), XV, a b 828
BAKING (Ill.), III, b 215-23
  aeration (Ill.), a 220-1
  breadstuffs, b 216-7
  bread, unvesiculated (Ill.), a 217-8; vesiculated, a 218-21
  history of, b 215-6
  fermentation, theory of, a 219-20
  kneading machines, b 221-2
  ovens, b 222
  powders, a 221
  qualities of bread, b 222-3
—— (Cookery), VI, b 295; powders (Baking), III, a 221
Bakkára race (Soudan), XXII, b 292
Bakony mountains (Hungary), XII, b 375
Bakonybél, village (Guzmics), XI, a 308
Baksan river (Caucasus), V, b 221; (Terek), XXIII, a 203
BAKU or Badku, town, III, a 223; province (Russia), XXI, b 76; (Transcaucasia), XXIII, b 545, *a b* 546, *b* 547
——, fires of (Gas and Gaslighting), X, a 79; (Methyl), XVI, b 202; oil of (Petroleum), XVIII, a b 726, b 733, a 734, b 885
Bakungu, class (Uganda), XXIII, a 765
Bakunin or Bacunin, Mikhail, socialist (International), XIII, *a* 196; (Saxony), XXI, b 371; (Socialism), XXII, a 220, a 226, b 227-8, a 229
Bakwain tribe (Livingstone), XIV, b 726
Bakyr Tchai, river (Asia Minor), II, b 618
BALA, town and lake, III, a 223; (Merioneth), XVI, *b* 43, *a* 44; revival at (Methodism), XVI, b 201; rocks (Geology), X, *a b* 294
BALAAM or Bileam, prophet, III, a 223-4; (Lokmán), XIV, b 819; (Moab), XVI, a 558
Balaclava, town (Crimea), VI, a b 519; battle of, 1854 (Cardigan), V, a 85; (Fortification), IX, b 386; harbor (Black Sea), III, a 691
Balada, song (Provençal Literature), XIX, b 900
Balades and other poems (Gower), XI, b 20
Balæna, genus (Whale), XXIV, a 552, b 554; (Mammalia), XV, a b 376, b 396, *a b* 398
Balæniceps, genus (Birds), III, *b* 617, note, b 627, a 629, a 658; (Heron), XI, a 681, note; (Stork), XXII, a *b* 606
Balænoidea, sub-order (Mammalia), XV, b 397-8
Balænoptera, genus (Mammalia), XV, a 376; (Mammalia), b 396, a 397, a b 398; (Whale), XXIV, b 553-4
Balæus, author. See Balai
Balafré; (Guise), XI, b 236
BÁLÁGHÁT, district, III, b 224; plateau (Chhindwárá), V, a 529; (Kanara), XIII, a 844; (Salem), XXI, a b 220
Bâlâ Hissâr, citadel (Cabul), IV, b 553-4
Balai or Balæus of Aleppo, bishop (Syriac Literature), XXII, a 868, note
Balam Vangan, island (Borneo), IV, b 53
Bal'amí, translator (Tabarí), XXIII, b 8
Balamir, chief (Huns), XII, a b 396
Balamyk, food (Kirghiz), XIV, b 97-8
BALANCE, scales (Ill.), III, a 225-31
  chain, b 225-6
  compound, a b 230
  lever, a 226-7
  precision instruments, b 227-30
  spring, b 225
  theory of precision, b 228-30
  torsion, b 230-1
——, automatic (Mint) (Ill.), XVI, b 513-a 514; piston (Steam-Engine), XXII, a 528; spring (Hook), XII, a 153; of Watch (Ill.), XXIV, b 415-7, a 420
BALANCE OF POWER, European excuse for war, III, a 231-4
  ethical theory of, a 231-2
  French revolution, effect of, a 233-4
  historical basis, a 232
  non-intervention period, a 234
—— (Greece), XI, a 109; (International Law), XIII, b 198; (Italy), b 489; (Wolsey), XXIV, a 669
Balance reefing (Seamanship), XXI, a 629
—— sheet, double entry (Book-keeping (Ill.), IV, a b 41; single entry (Book-keeping) (Ill.), b 40
—— of trade (Commerce), VI, b 182, note; (Political Economy), XIX, b 367, *a* b 370, a 371, b 935, b 936; (Protection), b 935, b 936
Balanidæ, sub-order (Crustacea) (Ill.), VI, b 576, b 577 note, a 579, *b* 588, note
Balaninus, genus (Weevil), XXIV, *b* 504
Balanoglossus, worm (Animal Kingdom), II, a b 48; (Vertebrata) (Ill.), XXIV, *b* 194, b 195, b 196, a 200, *a* b 201, *a b* 202-3
Balanophoraceæ, plants (Parasitism), XVIII, b 270
Balante, district (Celebes), V, b 251
Balantium, genus (Tree-ferns), XXIII, a 568
Balantes, tribe (Senegambia), XXI, a 695
Balanus, genus (Crustacea) (Ill.), VI, b 572, *a* b 576, a b 577, note, a 580, *b* 588; (Leeuwenhoek), XIV, b 411
Bálápur, town (Akolá), I, b 387
Balard, Antoine Jerome, chemist (Bromine), IV, b 325; (Chemistry), V, a 425
Balas, king. See ALEXANDER BALAS

Balas or balash (Ruby), XXI, b 54
Balásh, king (Persia), XVIII, a 622
BALASOR, district, III, a 235; (Orissa), XVII, b 869; town, III, a 236
Balassa-Gyarmat, town, XI, b 309
——, Valentine, poet (Hungary), XII, a 391
Balata, gum (Guiana), XI, b 222; (Gutta Percha), a b 303
Balaton lake (Austria), III, b 101; (Hungary) XII, b 376
Balatro, animalcule (Rotifera) (Ill.), XXI, a b 12
Balausta, fruit (Botany), IV, a 138
BALBI, Adrian, geographer, III, a 236
—— statues (Herculaneum), XI, *b* 647
Balbin or Balbinus, Aloysius Boleslaus, historian (Slavs), XXII, b 161
Balbinus, Decimus Cælius, emperor (Gordianus), X, *a* 695
BALBO, Cesare, author, III, a b 236; (Italy), XIII, b 497, b 501, a 521, a b 526
——, Prospero, politician, III, a 236
Balboa, Miguel, historian (Peru), XVIII, a 693
BALBOA, Vasco Nuñez de, discoverer, III, b 236–7; (Geography), X, a 163; (Pacific Ocean), XVIII, b 118-119
BALBRIGGAN, town, III, a 237; (Dublin County), VII, *a b* 427
Balbulus, hymnodist. See NOTKER
Balbus, L. Cornelius, dramatist (Drama), VII, *a* 355, note
Balcanquhal, Walter, dean (Scotland), XXI, a 531, b 534
Baldacchino or baldachin, canopy (Rome), XX, a b 855; (Temple), XXIII, a b 182; (Umbrella), a 770. See Baldechine
Baldasarre, painter. See ANNA
BALDE, Jakob, poet, III, a 237
Baldechine or Baldakine tapestry (Carpets), V, a 113
Bald Eagle, VII, a 510
Baldegg, lake of (Lucerne), XV, a 42
Baldelli, Giovanni Battista, count (Boccaccio), III, a 733, *b* 735
Balder, god. See Baldur
Balder, poem (Dobell), VII, a b 267
BALDI, Bernardino, mathematician, III, a 237; (Hungary), XII, a 390
Bald Mountains (Poland), XIX, a 318
—— (United States), XXIII, b 844
BALDINGER, Earnest Gottfried, physician, III, b 237
Baldini, Baccio, engraver (Botticelli), IV, *a* 152; (Engraving), VIII, b 392
BALDINUCCI, Filippo, art critic, III, b 237
Baldness (Anatomy), I, b 789; (SkinDiseases), XXII, a b 129
Baldoon, ruins at (Wigtown), XXIV, a 595
BALDOVINETTI, Alessio, painter, III, b 237
Bald-pate, bird (Wigeon), XXIV, b 592, note
Bald Peak (United States), XXIII, b 842
Balduccio di Pisa, Giovanni, sculptor (Pisano), XIX, a 132; (Sculpture), XXI, b 594
BALDUINUS, Jacobus, jurist, III, a 238
Baldung or Baldwing, painter. See GRUN
BALDUR or Balder, god, III, a b 238; (Æsir), I, b 189; (Mistletoe), XVI, b 551; (Mythology), XVII, *b* 162, a 163
BALDUS, jurist, III, b 238
Baldwin I., 9th Count of Flanders, Eastern Emperor (Crusades), VI, b 555, *a* 556; (Greece), XI, a 106, a 107; (Hainault), a 336
—— II. of Courtney, Eastern emperor (Crusades), VI, *a* 556
—— I. of Jerusalem, prince of Edessa (Crusades), VI, b 552, b 553–4
—— II. of Jerusalem, du Bourg (Crusades), VI, a 554
—— III. of Jerusalem (Crusades), VI, *a* 554
—— IV. of Jerusalem, the Leper (Crusades), VI, a 554; (Templars), XXIII, b 176, *a* 177; (William of Tyre), XXIV, *b* 616
—— V. of Jerusalem (Crusades), VI, a 554; (Templars), XXIII, a 177
—— I., Iron arm, count of Flanders, IX, b 253; (Ghent), X, b 504
—— II. to VIII., counts of Flanders, IX, b 253-4
—— IX. (Flanders), IX, a 254. See also Baldwin I., Eastern emperor
—— of Luxemburg, archbishop (Treves), XXIII, a 588
——, Matthias William, manufacturer (Patents), XVIII, a 879; (Steam-Engine), XXII, *b* 923; locomotive (Steam-Engine) (Ill.), XXII, a 548
BALDWIN, Thomas, archbishop, III, b 238; (Cathedral), V, a 198
Baldy mountain (New Mexico), XVII, a 410
Bale, canton and town. See BASEL
BALE, John, bishop, III, b 238–9; (Ireland), XIII, a b 269
—— slings (Seamanship), XXI, b 621
BALEARIC ISLANDS (Map), III, b 239-41; (Mediterranean), XV, a 829; (Spain), XXII, a b 312, b 314, b 315, b 316, b 360, a 361; acquisition of (Spain), a 332, b 337; Moslems in (Almoravides), I, a b 524; (Pisa), XIX, b 128; ware (Pottery and Porcelain), b 641, b 647
Balearica, genus (Crane), VI, *b* 484
Balearicus, Metellus (Palma), XVIII, a 196
Baleen, whalebone (Mammalia), XV, b 395, b 396, b 397–8, note; (Skeleton), XXII, a 116; (Whale), XXIV, *a* b 552, a *b* 553
Balegga mountains (Africa), I, b 225
BALES, Peter, penman, III, a 241; (Shorthand), XXI, b 875, note
Baleswar river (Bákarganj), III, b 213
Balet Comique de la Royne (Ballet), III, a 249
BALFE, Michael William, composer, III, a 241
Balfour, Arthur James, critic (Scepticism), XXI, b 400 note
——, Francis Maitland, biologist, *b.* 1851, *d.* 1882 (Polyzoa), XIX, b 454, a 455, b 456; (Reproduction), XX, *b* 430, b 434, *a* 435; (Skeleton), XXII, b 117, *b* 127; (Sponges), a 437; (Vertebrata), XXIV, b 193, a 199, b 203; (Zoology), b 849
——, Sir Isaac Bayley (Socotro), XXII, b 243
BALFOUR, Sir James, antiquary, III, a 242
BALFOUR, Sir James, conspirator, III, b 241–2; (Craig, Thomas), VI, b 480
BALFOUR, Robert, philosopher, III, a 242
——, T. A. G., naturalist (Insectivorous Plants), XIII, b 142, b 143, b 147
——, Walter, preacher (Universalists), XXIII, a 952
Balfouroushi Mohammed Ali, sectary (Babi), III, b 156
BÁLFROOSH or Barfurush, town, III, a 242
Bāl-Gopāl, infant (Hindustani Literature), XI, b 754
BALGUY, John, theologian, III, a 242–3
Balhalla island (Sabah), XXI, a 132
BALI or Little Java, island, III, a b 243; (Indian Archipelago), XII, *b* 855, b 857
Balià or balíe, magistracy (Medici), XV, a b 795, a *b* 796; (Siena), XXII, a 47, a b 48
Bali-dagh, mountain (Honey), XII, b 141; (Troad), XXIII, b 617, a b 618, a b 619
Balier, Heinrich der, sculptor (Sculpture), XXI, a 591
Baliol or Balliol, Edward, pretender (England), VIII, a b 286; (Percy), XVIII, b 533; (Scotland), XXI, a *b* 511-12
——, John, king, Scotland (Dumfries), VII, a 456; (England), VIII, a 281; (Robert), XX, *a b* 608; (Scotland), XXI, a b 508–9, a 510
BALIOL or Balliol, Sir John de, III, b 243
——, college of (Oxford), XVIII, a 100, b 101; (Wycliffe), XXIV, a b 744
Bálint, monk (Hungary), XII, *a* 391
——, Gabriel, traveller (Hungary), XII, b 389, b 395
Balintong Strait (Indian Archipelago), XII, b 854
Balira valley (Andorre), II, a 18
Balista, war-engine (Mohammedanism), XVI, b 591, a 594
Balistes, fish (File-fish), IX, a b 141
Balkâ or Belká, district (Moab), XVI, b 557; (Mohammedanism), a 584
Balkan or Balkhan Bay (Caspian Sea), V, a 155, b 157
BALKAN MOUNTAINS, III, b 243–4; (Europe), VIII, *b* 600; (Transcaspian), XXIII, *b* 543
Balkash basin (Syr-Daria), XXII, b 859; or Denghiz Lake (Ili.), XII, a b 741; (Semipalatinsk), XXI, b 671; (Semiryetchensk), *b* 672; plains (Turkestan), XXIII, a b 674
BALKH or Bactra, city, III, a 244; (Afghânistân), I, a b 218; province (Afghânistân), b 216, a 217, *b* 218, a 219; river (Afghânistân), a 217
Ball, game, (Base Ball), III, a 351; (Cricket), VI, *b* 511, *b* 512, *a b* 513; (Croquet), *a* 538; Aztec (Mexico), XVI, b 221, a 222
BALL, John, theologian, III, b 244; (Wycliffe), XXIV, b 746
——, John, naturalist (Tierra del Fuego), XXIII, *a* 410
——, S., author (Tea), XXIII, a 106, a 110
—— and socket joint (Anatomy), I, a b 731
—— stamp (United States), XXIII, a 869
——, W. and J., on Saturn's rings (Astronomy), II, a 710
Ballad History (Niebuhr, B. G.), XVII, b 505, a 506; operas (Music), a 106
Ballade, songs (France), IX, a 567
Ballade des Dames du Temps Jadis, poem (Villon), XXIV, b 250
—— *des Pendus*, poem (Villon), XXIV, a 250, *a* 251
BALLADS, III, b 244–6; (Ballet), b 248; (Romance), XX, a 666; influence of (Fletcher, A.), IX, a 266. See *Ballate* and ROMANCE
—— in American Literature, I, b 633; (Longfellow), XIV, b 871
——, Dutch mediæval (Holland), XII, b 95
——, English (Aytoun), III, a 144; (Chatterton), V, b 387, b 388; (Pamphlets), XVIII, b 208; (Percy), a 535; (Robin Hood), XX, b 621
——, French (France), IX, a 567; (Orleans, Charles d'), XVII, a 876
——, Gipsy, X, a 549
——, German (Germany), X, b 467, *a* b 482; (Goethe), a 652, b 654; (Kerner), XIV, b 52; (Schiller), XXI, b 414

BALLADS, Greek (Homer), XII, a 124; Achæan (Greece), XI, b 122; modern (Greece), a 134, b 136
——, Hindu (Hindustani Literature), XI, a *b* 753
——, Scandinavian (Denmark), VII, a 79; (Iceland), XII, a b 658; (Mermaids), XVI, b 44
——, Servian, XXI, b 722
——, Scotch (Motherwell), XVII, b 8; (Pinkerton), XIX, a 116; (Scotland), XXI, a b 542
——, Spanish (Cid), V, a 677
——, Swiss (Winkelried), XXIV, a b 645
Ballagi, Maurice, lexicographer (Hungary), XII, *a* 390
Ballala dynasty (Hassan), XI, a 456; (Mysore), XVII, a 131
BALLANCHE, Pierre Simon, sociologist, III, b 246-7
Ballantyne, James, printer (Newspapers), XVII, b 433; (Scott), XXI, b 573
—— &, Co., John, printers (Scott), XXI, *b* 573, *a* 574, a 576
Ballan Wrasse, fish, XXIV, b 721, a 722
BALLARAT or Ballaarat, city, III, b 247
BALLÁRI or Bellary, district and town, III, b 247-8; (Madras), XV, b 186, a 187, b 189
Ballast (Lifeboat), XIV, a b 574; (Railway), XX, *a b* 252; (Seamanship), XXI, b 625; balloon (Aëronautics), I, a 187
Ballate, poems (Italy), XIII, a 516; (Medici), XV, a 797; Cavalcanti's (Italy), XIII, b 512
BALLATER, village, III, b 248
BALLENSTEDT, city, III, b 248
Balleny, John, explorer (Geography), X, a 174; (Polar Regions), XIX, a b 342
Ballestas islands (Guano), XI, a b 207
BALLET, dance, III, b 248-9; (Dance), VI, a 705; (Molière), XVI, b 648; (Noverre), XVII, a b 621; of action (Pantomime), XVIII, a 219, a 220
—— song (Music), XVII, b 91, b 94
Ballet de Sicilien (Taglioni), XXIII, b 26
Balley mountain (United States), XXIII, a 851
Ball-flower, ornament (Architecture), II, b 403
BALLINA, town, III, a 249; (Sligo), XXII, *a* b 169
BALLINASLOE, town, III, a 249; (Galway), X, b 51, *a* 52
Balling furnace (Sodium), XXII, *a* 256
Balliol. See BALIOL
Ballistic pendulum (Mechanics), XV, a 743
Ballistics, theory (Gunnery), XI, a 264-5
Balliavian, president (Bolivia), IV, a 14, b 17
Balloch, Donald, lord of the Isles (Scotland), XXI, a 515, b 516
Ballon d'Alsace, mountain forms (Vosges), XXIV, *a* 319
Balloon (Ill.) (Aëronautics), I, a 171-4, b 182-7; (Flight), IX, b 269-70; (Franklin), b 631; (Guyon De Morveau), XI, b 307
—— ascents (Climate), VI, a 4; (Gay-Lussac), X, b 109
—— motors (Traction), XXIII, a 528; Posts (Post-Office), XIX, b 597, note 8, a 598
—— Tents, XXIII, a 200
BALLOT, III, a 249-52
  Australia, a 251
  boxes or machines, b 251
  classical, b 249
  Foster's act, a 250
  France, a 251
  Germany, b 251
  Great Britain, b 249-50
  Greece, b 251
  Hungary, b 251
  Italy, a 251
  United States, b 251
—— box (Clubs), VI, a 40, a 41; in Great Britain (Parliament), XVIII, a b 315
—— draft (Militia), XVI, b 312
——, C. D. Buys, meteorologist (Holland), XII, b 66, b 72; law of winds (Meteorology), XVI, a 152-3, a 160
Ballot y Torres, Joseph Pau, grammarian (Spain), XXII, b 378
Ballou, Hosea, 1st, preacher (Universalism), XXIII, a b 952; (Universalists), a b 886
——, Hosea, 2d, theologian (Universalists), XXIII, a 952
Balls (Dance), VI, a 705
Ball's dredge (Ill.), VII, a 397, a 399, a 400
Ballspiel, game (Tennis), XXIII, b 195
Ballybot, town (Newry), XVII, b 417
BALLYCASTLE, town, III, a 252; (Antrim), II, *a b* 125, a b 126
Ballyhickey, town (Clare), V, b 701
BALLYMENA, town, III, a 252; (Antrim), II, *a b* 126
Ballymore, fort (Ginckell), X, a 538; (Westmeath), XXIV, b 541
Ballymote, town (Sligo), XXII, a b 169; *Book of* (Celtic Literature), V, b 265, *a* 266, a 267
Ballynahinch river and lake (Galway), X, a 51
Ballynakill bay (Galway), X, a 51
Ballysadare river (Sligo), XXII, a 169
BALLYSHANNON, town, III, a 252; (Donegal), VII, a b 313, *a* 314
Balm, herb (Horticulture), XII, a 302; resin (Incense), b 756
Balmer, E. J., law of (Spectroscopy), XXII, b 393-4
Balmerino, Arthur Elphinstone, Lord, Jacobite (Scotland), XXI, a 542; covenanter (Scotland), b 533, *a* 534
BALMEZ or Balmes, Jaime Lucien, philosopher, III, b 252; (Spain), XXII, a 376
Balm of Gilead (Balsam), III, a 253; (Arboriculture), II, b 277
BALMORAL CASTLE, III, b 252
BALNAVES, Henry, divine, III, b 252
Balneæ (Baths), III, b 375
Balneum Mariæ, process (Alchemy), I, a 409, b 411
Balogh, Zoltán, painter (Hungary), XII, b 393
BALSAM, III, b 252-3; (Botany) (Ill.), IV, a 79; (Frankincense), IX, a 626; (Incense), XII, a 757; (Resins), XX, b 487, *b* 488
—— bog, plant (Falkland Islands), IX, b 15; coast (San Salvador), XXI, b 281; fir (United States), XXIII, a 861; Lake (St. Lawrence), XXI, b 189; mountains (United States), XXIII, b 844
—— of Peru, III, b 252-3; (Liquidambar), XIV, b 693
—— Poplar, XIX, b 526; (Botany), IV, a 106
—— Tolu, III, a 253; (Colombia), VI, a 139
Balsamo, Joseph, speculator (Cagliostro), IV, a 569
Balsamodendron, tree (Myrrh), XVII, b 128-9
Balsamon, Theodorus, patriarch (Basilica), III, b 362, a 363
Balsha, prince (Montenegro), XVI, b 807
Balsham, Hugh de, bishop (Cambridge), IV, a 646; (Universities), XXIII, a 894, note
Balsille, siege of, 1690 (Arnaud), II, b 541
Balsore, town. See BUSSORAH
BALTA, town, III, a 253
——, José, president (Peru), XVIII, b 692 note
Baltaji Muhammed, grand vizier (Turkey), XXIII, b 687-8
BALTARD, Louis Pierre, engraver, III, a b 253
Baltasar Carlos, portrait of infanta (Velazquez), XXIV, a b 146
BALTI, country, XIV, a b 199; (Tibet), XXIII, a 361
Baltic languages (Philology), XVIII, b 798, a b 799
BALTIC SEA (Map), III, a 253-7
  climate, b 254
  currents, a b 256
  drainage area, a 254
  ice formations and drift, b 254-5
  land oscillations of coast, b 255
  salinity, b 256
  topographical features, b 253-4
  zoology, a 257
—— (Amber), I, b 579-80; (Anthropology), II, a b 103; (Germany), X, a 402; (Ichthyology), XII, b 707; (Pytheas), XX, a 150; (Sea), XXI, *b* 605; (Sweden), XXII, b 775, a b 776, a b 777, b 778, *a* 780
—— river basin (Russia), XXI, b 80, a 83; shores, subsidence of the (Europe), VIII, a 599
BALTIMORE, city (Plan), III, a 257-8; (Libraries), XIV, b 535, b 552; (Maryland), XV, a b 610; (United States), XXIII, b 880, a 881; history of (United States), a 801, a 808; riots (United States), a 823
Baltimore, George Calvert, lord, IV, b 631; (Maryland), XV, *a b* 611; (Newfoundland), XVII, a 395; (Penn), XVIII, b 505, a b 506
Baltimore and Ohio Railway, XX, b 264, a 265; (Baltimore), III, b 258; (Quakers in U. S.), XX, b 892; (Steam-Engines), XXII, b 922, *a* 923
Baltimore oriole (Icterus), XII, b 735-6
Baltoro glacier (Ladác), XIV, a 199
Baluch language (Persia), XVIII, a 668
Baluches race (Baluchistan), III, *a* 259, *b* 261; (Khorásán), XIV, *a* 69; (Napier), XVII, *a* 183; (Punjab), XX, *b* 114, a 115
BALUCHISTAN, district (Map), III, b 258-62
  British encroachments, b 259-60
  configuration, b 258-9
  government, a 262
  history, a 259 60
  inhabitants, b 261
  natural products, a 261
  physical features, b 260
  towns, a 261
—— (Afghânistân), I, a 204, a 209, a 215; (Asia), II, *b* 606; (Persia), XVIII, b 629, b 630, a 631, b 632, b 635
BALUE, Jean, cardinal, III, a 262
Balunda, tribes (Africa), I, a 236
Balusan, volcano. See Bulusan
Baluster shaft (Architecture), II, b 403
Balustrades (Architecture), II, a 386, b 403
BALUZE, Etienne, writer, III, a b 262; (Capitularies), V, b 66
BALZAC, Honoré de, novelist, III, b 262-3; (Alchemy), I, a 413; (American Literature), *b* 636; (France), IX, b 596-7; (Gozlan), XI, a 22
BALZAC, Jean Louis Guez de, rhetorician, III, a b 263; writer (France), IX, a 580, b 599
BAMBA, Congo district, III, b 263
—— town (Niger), XVII, a 510
BAMBARRA, district, III, b 263; (Africa), I, b 242; (Soudan), XXII, a 291, a *b* 292
BAMBARRA, town, III, b 263
—— Dictionary, VII, b 167; Nut, XVII, a 683
Bambaras, tribes (Senegambia), XXI, *a* 695

Bambecke, V, biologist (Embryology), VIII, a 155
BAMBERG, town, III, b 263; (Sculpture), XXI, a 591, a 592. See UNIVERSITIES
—— Bible (Fust), IX, b 750; bishopric of (Henry II., emperor), XI, b 594; early printing at (Typography), XXIII, a 728, a 729
Bamberger Zeitung (Hegel), XI, b 548-9
BAMBOO, plant, III, b 263–4; (Basket), b 365; (Botany) (Ill.), IV, b 76, a 77, a 93; (Grasses), XI, *b* 48–9
—— fibre (Paper), XVIII, a b 230; writing tablets (China), V, b 575
BAMBOROUGH or Bamburgh, village, III, b 264; (Northumberland), XVII, *a* b 582
BAMBOUK, district, III, b 264–5
Bambusa, plants (Bamboo), III, a 264; (Horticulture), XII, b 257
Bambuseæ (Grasses), XI, *a* 49, *b* 50, *a* 51, a *b* 53
Bambyce, town (Hierapolis), XI, *b* 706
BAMIAN, city, III, a 265; and river of (Afghânistân), I, b 216, b 217, *b* 218, a 219
—— idols (Hwen and T'sang), XII, b 434; myth (Adam), I, a 126; valley (Hindú kúsh), XI, b 748, *a* 749
Bamlite (Mineralogy), XVI, a 426
BAMPTON, John, divine, III, b 265
Bana, dramatist (Sanskrit), XXI, a b 299, a 300, b 301
Banakhasum district (Tibet), XXIII, b 363
BANANA, plant, III, b 265; (Botany), IV, *b* 75, b 77, a 78, a 86, a 94, b 98, a 106, b 134; (Plantain), XIX, a b 187
——, Chinese (Polynesia), XIX, a 433; station (Loango), XIV, b 749; (Zaire), XXIV, *b* 803; thickets (Tahiti), XXIII, b 28
Banás river (Ajmír), I, a 384; (Bombay), IV, b 20; (Rajputána), XX, a 272; (Udaipur), XXIII, a 763
BANAT, district, III, b 265–6; (Coal), VI, b 54; (Military Frontier), XVI, b 307–8
BANBRIDGE, town, III, a 266
BANBURY, town, III, a 266; (Oxford), XVIII, *b* 97
Banc or BENCH, law-term, III, a b 480
BANCA or Bangka, island, III, a 266; (Formosa), IX, a 367; (Indian Archipelago), XII, *b* 855, a 858; (Mining), XVI, b 491; avifauna of (Birds), III, a 662; Tin, XXIII, b 427, a 428
Bancalari, M. P., physicist (Flame), IX, a 249
Bance or Bunce river (Sierra Leone), XXII, b 49
Bancroft, Edward, naturalist (Electricity), VIII, a 9
——, George, historian (American Literature), I, b 634; (Hawthorne), XI, a 480
——, Hubert Howe, historian (Sutter), XXII, *a* 941; (Yucatan), XXIV, a b 796, note, a 798
——, Marie Wilton, actress (Robertson), XX, b 614
BANCROFT, Richard, bishop, III, b 266; (England, Church of), VIII, a 338; (Presbyterianism), XIX, a 706
Band, frieze (Architecture), II, b 403
BANDÁ, district, III, a b 267
BANDA ISLANDS, III, b 267–8; (India), XII, *b* 837, *a* 838; (Moluccas), XVI, a 723; (Nutmeg), XVII, *a* 685
——, town, III, a 268
Band Amir river (Shíráz), XXI, a 868
Banda manna Saga (Iceland), XII, b 659
Banda Niam-Niam, XVII, b 486
Banda Oriental del Uruguay (Argentine Rep.), II, *a* 429, a *b* 432; (Brazil), IV, *a b* 209; (Montevideo), XVI, a 813; (Uruguay), XXIV, a 19, a 20
Bandannas, handkerchiefs (Calico-printing), IV, a 611; (India), XII, a 801
Bandar Abbas. See BENDER ABBASI
Banda Singh (Punjab), XX, a 117
BANDELLO, Matteo, novelist III, a 268; (Italy), XIII, b 520
Bande Nere, Giovanni delle, prince (Medici), XV, a 798, b 799
Bander hills (Bundelkhand), IV, a 466
Banderesi, captains (Rome), XX, *b* 819, *a* b 820, *a* b 821
Band-fish (Ichthyology), XII, b 672, a 729
Band of Four Brothers (Zinzendorf), XXIV, b 827
Bandicoot, marsupial (India), XII, a 781; (Mammalia), XV, a 384
Bandicoot or bandicota rat (Mammalia), XV, a 424; (Mouse), XVII, b 11
Bandiera, Attilio and Emilio, martyrs (Mazzini), XV, a 662
Bandinal, David, ecclesiastic (Channel Islands), V, a 341
BANDINELLI, Baccio, sculptor, III, a 268
BANDINI, Angelo Maria, antiquary, III, a b 268
——, Salustio Antonio (Political Economy), XIX, b 374–5; (Siena), XXII, a 49
Band-i-Sultán, dam (Ghazni), X, b 501
Banditti, robbers (Albania), I, b 396; (Ali Pasha), a 505; (Bhatniár), III, *a* 544; peasant (Gaul), X, a 101
Bandol, town (Var), XXIV, a 76
BANDON or Bandonbridge, town, III, b 268; river (Cork), VI, b 357
Bandoola, Maha, general (Burmah), IV, b 497–8
Bandra, city (Thána), XXIII, a 239
Bands in diffraction, shadow (Wave Theory), XXIV, a 468
——, evangelical (Methodism), XVI, b 196
Band Saws, XXI, b 358, a b 359, a 361
Bands of Hope (Temperance), XXIII, a 175
Bandung, town (Java), XIII, b 616
Bandusian fountain (Horace), XII, b 163
Bandy-legs, deformity (Surgery), XXII, b 727
Baneberry, plant (Hellebore), XI, b 567
Baneiros, Gaspar, chronicler (Glass), X, a 583
BANFF, town, III, b 268
BANFFSHIRE, III, a 269–70; (Scotland), XXI, a 551
Bang, Christian Stephensen, theologian (Norway), XVII, a 604
Bángálá, city (Bengal), III, b 488–9
Banga, kingdom (Bengal), III, a b 488–9
Bangāli, dialect (Hindūstānī), XI, b 749, *a* 752. See Bengalee
BANGALORE, city, III, a b 270; (Mysore), XVII, b 130, a b 131
Bangangá, river (Bhartpur), III, a 543
Bangi, river (Afghânistân), I, a 217
Bangiaceæ, plants (Reproduction), XX, a 438; (Vegetable Kingdom), XXIV, *b* 138
Bangka, town. See BANCA
Bangkalang, town (Madura), XV, *b* 194, *a* 195
BANGKOK, city, III, b 270–1; (Siam), XXI, b 890, a b 891, a b 892, b 893
BANGOR, Welsh borough, III, a 271; (Carnarvon), V, *b* 105
BANGOR in Ireland, III, a 271; abbey (Monachism), XVI, a 733
——, Act of (Presbyterianism), XIX, b 711, a 712
BANGOR in Maine, III, a 271
Bangorian controversy (Convocations), VI, b 291–2; (Hoadley), XII, b 31–2; (Law, W.), XIV, a 370; (Pamphlets), XVIII, b 209
Bang-ta-phang, town (Siam), XXI, *b* 890
Bangweolo or Bemba, lake (Africa), I, b 222, a 229; (Livingstone), XIV, a b 728; (Zaire), XXIV, *b* 801
Bani Kenz dialect (Nubia), XVII, *b* 627
Bani Sakhr tribes (Syria), XXII, b 862
BANIALUKA, town, III, b 271
Baniana, town. See BAENA
Banians, people (Myrrh), XVII, b 128
Bânias, town (Galilee), X, a 27; cave of (Jordan), XIII, b 756, *a* 757
Banier, Abbé, fabulist (Mythology), XVII, a 144
BANIM, John, novelist, III, b 271–2
——, Michael, novelist, III, *b* 271
Banister, John, surgeon (Anatomy), I, a 710
——, John, botanist (Liquidambar), XIV, b 693
Banisteria, plant (Botany) (Ill.), IV, a 92
Baniyas, traders (India), XII, *a* 799
BANJARMASSIN, district, III, a 272; town, a 272; (Borneo), IV, a *b* 53; or Barito, river (Borneo), b 50, a 51, a 52; town, III, a 272
Bank of Amsterdam, III, b 290-1
Bank of England (Bullion), IV, b 464; (Cockerell), VI, b 91; (Corn Laws), b 364–5; (Finance), IX, a b 159, a b 160, b 162, b 163; (Halifax, Earl, XI, b 344; (London), XIV, b 841, a 850; (Mint), XVI, a b 507, a b 508; (Paterson), XVIII, b 364, b 365; charters of (Banking), III, a 273–4, a b 275; (Peel), XVIII, a 467; management of (Banking), III, a 284–6; relation to the currency of (Banking), b 282
—— failures (Glasgow), X, a b 571; in Ireland, III, a b 290–2; (Paris), XVIII, a 292
—— of France, III, a 291; (Paris), XVIII, b 291
—— of Hamburg (Banking), III, a 294
—— of Ireland (Dublin), city, VII, b 428, b 431
—— liability (Cheque), V, b 506–7
——, National (Mexico), XVI, a 227
—— of North America (Morris), XVI, a 873
—— notes, convertibility of (Banking), III, a 279–80; France (Banking), b 291, a 292; German (Banking), a b 294; theory of restricting (Banking), III, a b 282
—— of Scotland, III, a 287
——, United States, XXIII, b 802, a b 809, b 812; (Jackson, A.), XIII, a 544; (Taney), XXIII, a 840, *b* 921
Banka Island. See BANCA
Bánk Bán (Hungary), XII, a 393
Banken veld, uplands (Transvaal), XXIII, a 551
Bankers (Commerce), VI, a 185; (National Debt), XVII, a 251
Banker's Wife, novel (Gore), X, *a* 697
BANKING, III, a 272–294
  Amsterdam, b 290
  ancient, b 272–3
  Bank of England, charters, b 273, a b 275
  Bank of England's relation to government, b 282, a 284–6
  Bank of Scotland, a b 287
  branch banks, a 284, b 289
  cash credits, Scotch, a b 288
  Clearing House, a 283
  commercial paper, b 284–5
  currency reserves, a 279
    theory of restricted, a b 282
  discount oscillations, b 280–1, a 285
  France, a 291–2
  Germany, a 294
  interest on deposits, b 285

BANKING, *continued*
  Ireland, a 290
  Italian mediæval, b 272–3
  joint-stock banks, a 278, b 289
  nature of, a b 272
  notes of demand, limitations of, a 276, b 277, b 281
  Peel's Act of 1844–5, b 278–83
  private banks in Great Britain, a b 274, b 289
  Provident banks, Scotch b 288
  Scotch banks, b 286–90
  speculation at close of American Revolution, b 274
  speculation in 1823–5, a 277
  suspensions of payment, b 273, a 276–7
  United States, b 292–4
  varieties of, a b 283
  volume of currency, a 280

—— (Austria), III, b 106; (Berlin), b 516; (Ceylon), V, a 321; (Communism), VI, a 191, a 195; (Genoa), X, a 141, b 142; (Germany), a 419; (Hamburg), XI, a 364; (Ireland), XIII, b 241; (Italy), a 476–7; (Law, J.), XIV, b 367–9; (Lombards), XIV, b 825
—— (Money), XVI, a 746; (New Hampshire), XVII, a 402; (New York), a 469; (Paris), XVIII, b 291–2; (Philadelphia), b 752, a 755; (Ricardo), XX, b 548, a b 549–50; (South Australia), XXII, b 299
——, English (Mint), XVI, a 508; free (United States), XXIII, b 814; statistics (United States), b 881–2; system, national (United States), a 825; Venetian (Commerce), VI, a 179
Bankiva fowl (Poultry), XIX, b 664. a 665
Bankó baths (Kaschau), XIV, a 9
BANKRUPTCY, Laws of, III, b 294–8
  Acts of Parliament of 1869, a b 295
  early legislation, b 294
  proceedings in, b 295–6
  Scotland, b 296
  United States, a 297–8

—— (Partnership), XVIII, b 336, b 337; (Sale), XXI, b 218, a 219; (Settlement), a 729; adjudication in, I, a 141; benefit of resisting (Schopenhauer), XXI, b 473; Scotch, III, b 296; (Accession), I, b 79; John Shakespeare's, XXI, b 782–3; (United States), XXIII, a 798; III, a 297–8
Banks (Amsterdam), I, a 685; (Belgium), III, b 453, b 457, a 458; (Canada), IV, a b 688; (Connecticut), VI, b 256; (Coöperation), a b 301; (Credit Foncier and Credit Mobilier), a 494; (France), IX, b 463–4; (Free Trade), b 668; (Mexico), XVI, a 904
——, branch, in Great Britain (Banking), III, a 284, b 289–90; German land credit (Land), XIV, a 264; joint-stock (Gilbart), X, b 527; National (Chase), V, a b 377; (United States), XXIII, a 825; origin of (Scotland), XXI, b 542
—— of issue, III, a 272; in Great Britain, a b 274, a 277, a b 278, a b 280, b 281–2; in U. S., free, b 292–3
BANKS, SAVINGS, XXI, b 342–7
Banks, oceanic (Newfoundland), XVII, b 391 note, b 393
BANKS, Sir Joseph, naturalist, III, a b 298; (Broussonet), IV, a 345; Brown, Robt.), a *b* 347; (Hunter, J.), XII, b 405; (Hutton), a 430; (Jenner), XIII, b 633; (Newton), XVII, b 458; (Park), XVIII, b 303; (Royal Society), XXI, *b* 44; (Societies), XXII, *b* 233; (Tea), XXIII, b 105
——, Nathaniel P., general (United States), XXIII, *b* 826
Bankside, street (London), XIV, a 858
Banks's islands (New Hebrides), XVII, b 405; people of (Mythology), XVII, a 155
BANKURA, district, III, b 298–9; town, a 299
Banmo, city. See BHAMO
BANN, river, III, a 299; (Antrim), II, b 124, *a* b 125; (Armagh), a 478; (Portadown), XIX, a 541
Bannacks, Indians. See Bannocks
Bannanal, island (Araguaya), II, b 267
Bannatyne, George, antiquary (Scotland), XXI, b 567
——, Sir William, judge (Bute), IV, a 517
Bannavem, town (Patrick, St.), XVIII, b 421
Banner (Flag) (Ill.), IX, a 243; (Knighthood), XIV, b 118, a 121, note, a b 122
BANNERET, title, III, a 299; (Knighthood), XIV, b 118, a 119, a b 121–2; (Peerage), XVIII, b 475
Bannisdale slates (Geology), X, b 298; (Westmoreland), XXIV, b 542
Bannium, station (Brecon), IV, b 218
BANNOCKBURN, village, III, a 299; battle of, 1314 (England), VIII, b 281; (Robert), XX, a 610; (Scotland), XXI, b 510
Bannocks, tribes (Indians), XII, b 866, a 873
Bannovallum, town (Horncastle), XII, b 174
Bannow, Lough (Longford), XIV, a 874
Banns (Marriage), XV, *b* 573, a 574, *a* 575
Bannu district (Punjab), XX, *b* 112, b 113, b 114, a b 115, a 116; valley (Deraját), VII, a 92
Baños del Inca or Inca's baths (Caxamarca), V, b 242
Banque Générale (Law, J.), XIV, b 367–8
Banqueters, The (Aristophanes), II, a 448
Banquet. See Feast
Banquette (Fortification), IX, b 371
Bansbaria, town (Hooghly District), XII, a 151
Banshee, fairy (Celtic Literature), V, b 260
Banstead Asylum (Heating), XI, b 528; Downs races (Horse), XII, b 204
BÁNSWÁRÁ, State, III, b 299
Bánswárá, town, III, b 299
BANTAM, bay and town, III, b 299; factory (India), XII, *b* 837, *a* b 838; fowl (Poultry), XIX, a 665, a 666
Bantia or Banzi, town (Italy), XIII, a 455
Banting, William, fat man (Corpulence), VI, a b 386
BANTRY, town, III, b 299–300
Bâ-ntu or Kaffre language (Grammar), XI, a b 35; (Hereroland), XI, a 655; (Kaffraria), XIII, a b 829; (Philology), XVIII, b 793, a 794; (Swahili), XXII, *b* 767; (Yoruba), XXIV, b 792; (Zululand), *b* 866, *a* 867
—— Religions, XX, *a* b 375
—— tribes (Hottentots), XII, a b 326; (Negro), XVII, a 327, a b 328; (Zanzibar), XXIV, b 806, a 807
BANU, district, III, a 300
Banú Kaila, family (Mohammedanism), XVI, b 575
Banú Nadir, family (Mohammedanism), XVI, b 579, a 581
Banus, governor (Croatia), VI, b 523
Banville, Théodore Faullain de, poet (France), IX, b 595; (La Fontaine), XIV, a 207
Banyak islands (Sumatra), XXII, b 672
Banyaluka, district and town (Bosnia), IV, *b* 60, a 61
Banyan-day defined (Seamanship), XXI, b 632
BANYAN TREE, III, a 300; (Botany) (Ill.), IV, b 83, a 84
Banyans, tribe (Mombasa), XVI, a b 724; (Mozambique), XVII, *b* 13, *a* 14
Banyuls, town (Pyrénées), XX, a *b* 134
Banyumas, town (Java), XIII, b 617
Banzas, township (Congo), VI, b 236–7
Baobab tree (Adanson), I, b 133; (Africa), a 231, b 240; (Forests), IX, a b 359; (Senegambia), XXI, b 694; (South Australia), XXII, a 299; fruit of (Botany), IV, a 138
Baptisia, plants (Horticulture), XII, b 257
Baphia, tree (Sandalwood), XXI, a 269
BAPHOMET, idol, III, a 300
BAPTISM, sacrament, III, b 300–4
  dogma, a 301–2
  origin, b 300–1
  rites, b 302–3
  of things, a 304
  varieties of, b 303–4

—— (Catechumen), V, b 192, a b 193; (Dodwell, H.), VII, a 281; (Fire), IX, a 202; (Font), a b 316–7; (Gaboon), X, a 5; (Jovinianus), XIII, a 766; (Luther), XV, b 79–80; (Mandæans), b 477, a 478; (Paul), XVIII, a b 439; (Proselyte), XIX, b 845; (Registration), XX, b 356; (Sponsor), XXII, a b 446
——, Aztec (Mexico), XVI, a 221
Baptism of Christ, paintings (Piero), XIX, b 91; Borghese (Schools of Painting) (Ill.), XXI, b 453; (Verrocchio), XXIV, a 190
——, formula of (Creeds), VI, *b* 494, a 495, *a* 497; growth of doctrine (Gospels), X, b 730–1; infant (Limbus), XIV, b 652–3; of Jesus, XIII, b 673; apocryphal account of (Gospels), X, b 727 note; Johannean view of (Gospels), a b 737, a b 738, b 739
Baptism of Our Lord (Rubens), XXI, b 47
——, service (Germany), X, a 463; validity of (Brougham), IV, b 342 note; vicarious (Mormons), XVI, b 854, a 855; vow of (Monachism), XVI, a 724
BAPTISTERY, III, a 304; (Architecture), II, b 403; Florence (Metal Work), XVI, a 81; (Mosaics), b 879; (Pisano) (Ill.), XIX, b 131, b 133
—— (Font), IX, b 316; (Parma), XVIII, b 319–20; (Pisa), XIX, b 128, a 131; (Pisano), a 133; of St. Pontianus (Catacombs) (Ill.), V, b 184; (Verona), XXIV, b 186
Baptist, John the. See JOHN THE BAPTIST
BAPTISTS, III, a 304–7
  confessions of faith, b 304, b 305–6
  education among, b 306
  English, a 305–6
  foreign, a 307
  government, a 307
  missions, b 306–7
  origin, a b 304
  sects of, b 306

—— (Anabaptists), I, b 690; (Bunyan), IV, a b 472, b 473; (Dunkers), VII, a b 469; (Fuller, A.), IX, a 714; (Independents) XII, a 764 note
——, American origin of (Williams), XXIV, b 618, note; Babylonian (Manichæism), XV, b 489, b 492; in Germany (Sears), XXI, a 914; in Holland (Mennonites), XVI, *b* 16; Seminary (Newton, Mass.), XVII, b 449; statistics (United States), XXIII, b 884; Zurich (Mennonites), XVI, b 15
——, Free Will, IX, a 670
Baqueros, clan (Asturias), II, a 722
Bar, districts (Punjab), XX, b 112
——, in Heraldry (Ill.), XI, b 618
Bar, legal (Costume), VI, b 422–4; trial at, XXIII, a 590

Bar-iron, XIII, b 337-40; in cementation, Swedish (Iron), a b 350; magnets, distribution (Magnetism), XV, b 243-4
BAR, Polish town, III, a 307; confederation of, 1768 (Poland), XIX, a 309
——, river. See Bars
——, Turkish town. See ANTIVARI
Bàra, tribe (Madagascar), XV, a 172, b 173
—— or Great Gandak river (Champáran), V, a b 335
Bará Pahár, mountains (Sambalpur), XXI, a 260
Baraba, steppe (Siberia), XXII, a 10, b 11; steppe (Tobolsk), XXIII, a 457; (Tomsk), b 466
BARA BANKI, district, III, b 307-8
Baraba Tartars, XXIII, b 76
Baraber hills (Gayá), X, b 108
Bara-Budur, temple (Java), XIII, a 619-20
Barada mountains (Kathiawar), XIV, a 17
——, river (Abana), I, a 12; (Damascus), VI, a 696; (Lebanon), XIV, b 394; (Syria), XXII, b 860
Baradæus or Burdĕ'ana, Jacobus, bishop (Copts), VI, a 314-5; (Jacobite Church), XIII, b 548; (Syriac Literature), XXII, a b 874, a 876
Báradári, royal hall (Gwalior), XI, a 309
Baradello tower (Como), VI, a 196
Baradères Bay (Hayti), XI, b 485
Baradla, grotto (Agtelek), I, b 372
Baræsthesiometer (Touch), XXIII, b 511
BARAHAT, town, III, a 308
Barak, general (Israel), XIII, b 411
Barak or Surma river (Sylhet), XXII, *b* 848
Barakhatta, town (Rangpur), XX, a 272
Barakish, citadel (Yemen), XXIV, b 777
Bârakzai, family (Afghânistân), I, a 215; (India), XII, b 846
Bar 'Ali, lexicographer (Syriac Literature), XXII, b 891
Baram, river (Borneo), IV, b 50
Báramahál, district (Salem), XXI, a b 220
Baramgali, foot (Kashmir), XIV, b 12
Bârân, river (Afghânistân), I, a 205; town (Bulandshahr), IV, b 461
BARANTE, Amable Guillaume Prosper, Baron de, historian, III, a 308; (Thierry), XXIII, a 323
Baranton Fountain, IX, a 429
BARANYA, province, III, b 308
Bárányi, George, translator (Hungary), XII, b 391
BARANZANO, Jean Antoine, mathematician, III, b 308
BÁRÁSAT, town, III, b 308
Barat, exhibition (Lhasa), XIV, b 500
BARATIÈRE or Barettier, John Philip, III, b 308
Barattiere, Niccolo de, engineer (Venice), XXIV, b 166
BARATYNSKI, Jewgenij Abramovitch, poet, III, b 308
Barb, pigeon (Dove), VII, b 328
Barba, district. See BORGU
BARBACENA, town, III, a 309
BARBADOS, island (Map), III, a 309-12
  Bridgetown, b 309
  crown colony, b 310-1
  history, b 309-11
  physical features, a b 309
  proprietary colony, a 310
  slave labor, b 311
  statistics, a 312
—— (West Indies), XXIV, a 538, a 539
—— Earth (Protozoa), XIX, b 876; gooseberry (Cactus), IV, b 556; leg disease (Elephantiasis), VIII, a 119
Bar Bahlûl, lexicographer (Syriac Literature), XXII, a 893
Barbanella. See ABRABANEL
Barbárat-el Atikah, temple (Baalbec), III, b 154
Barbarella of Castelfranco, Giorgio, painter. See GIORGIONE
Barbari, Jacopo de', painter (Dürer), VII, b 479, b 480; (Gossart), X, a 750
Barbarian coins (Numismatics), XVII, b 672, a 675; invasions, European (Murrain), b 65; Laws (Salic Law), XXI, b 222-7
Barbarina, Biblioteca (Libraries), XIV, a 529, b 550
Barbarigo, Agostino, doge (Venice), XXIV, a 165
Barbaro or Barbarus, diplomatist. See Hermolaus
Barbaro of Venice, bishop (Architecture), II, b 382
BARBAROSSA, Aruch and Hayraddin or Khair al dín, corsairs, III, b 312-3; (Algeria), I, b 498; (Nice), XVII, b 494; (Tunis), XXIII, a 661; (Turkey), a 685
——. See Emperor Frederick I.
BARBARY, district, III, a 313; (Africa), I, *a* 224, b 225, a 227, b 228, a 231, b 237; Dove, VII, a 329; pirates (Stewart), XXII, b 928
Barbastelle bat (Mammalia), XV, a 415
BARBASTRO, city, III, a 313
Barbâtre, commune (Noirmoutier), XVII, b 545
BARBAULD, Anna Letitia, authoress, III, a 313; (Aikin, John), I, a 377
Barbe du capucin, salad (Chicory), V, b 534
Barbel, fish (Angling), II, a 39; (Ichthyology), XII, a 704, b 710, b 712, b 714, a 731; (Mahaseer), XV, b 287-8
——, organ (Ichthyology), XII, b 672, b 691; (Touch), XXIII, b 508
BARBER, III, a b 313; guild (Hamburg), XI, b 362
—— surgeons (London), XIV, a 845; (Surgery), XXII, *a* 711
Barbèri, races (Carnival), V, b 108, a *b* 109
Barberi, Philip de (Inquisition), XIII, b 99-100
BARBERINI, family, III, b 313
—— Matteo. See pope URBAN VIII.
—— Villa, gardens (Rome), XX, b 831, a 849, b 851
Barberino, Francesco de, poet (Provençal Literature), XIX, b 901, a 902
Barber of Seville, opera (Rossini), XX, b 883-4
Barberry, plant (Botany) (Ill.), IV, a 97, b 102, a b 110, a b 124
Barberton, town (Transvaal), XXIII, b 550, b 551
Barbets, epithet (Camisards), IV, b 656
—— Negalæmidæ (Birds), III, a 641
Barbette (Fortification) (Ill.), IX, b 381-2; ships (Navy), XVII, b 294, b 296
BARBEYRAC, Jean, jurist, III, b 313
Barbiano, Alberico da, commander (Italy), XIII, a 488
Barbier, Antoine-Alexander, librarian (Bibliography), III, b 569
——, Auguste, poet (France), IX, a 595
Barbier de Seville, comedy (Beaumarchais), III, b 404
Barbiere di Siviglia, operas (Paisiello), XVIII, b 144; (Rossini), XX, b 883-4
BARBIERI, Giovanni Francesco, painter, III, b 313-4
BARBIERI, Paolo Antonio, painter, III, a 314
Barbizon, village (Millet, J. F.), XVI, b 334, a 335
Barbo, Pietro. See pope PAUL II.
Barbosa, Duarte, navigator (Geography), X, b 163
Barbosa du Bocage, Manuel Maria, poet (Portugal), XIX, a 573
Barbou, Joseph Gaspard, printer (Bibliography), III, b 568
BARBOUR, John, poet, III, a 314-5; (English Language), VIII, b 353, 359; (Gunpowder), XI, b 283; (Robert Bruce), XX, a 611; (Scotland), XXI, a 566
Barbs (Horse), XII, a 185, a b 186, *a* 187
BARBUDA, island, III, b 315
Barbus, fish (Ichthyology), XII, b 714, a 731
BARCA, district, III, a 316; (Africa), I, a 238; (Plague), XIX, b 177; river (Africa), I, b 228
BARCA, Cyrenaic town, now El-Medinah, III, a 316; (Numismatics), XVII, a 669; siege of (Battus), III, b 385
Barcellos, Pedro, Conde de, poet (Portugal), XIX, a 571
Barcelona, province (Spain), XXII, a b 326, *a* 329, b 330, a b 331, b 338, a 340; province and city (Spain), b 312, *a* 313, *a* 314, a b 316, b 318, b 360
BARCELONA, city (Plan), III, a 316-7; (Consulate of the Sea), VI, b 282; (Glass), X, b 582, a b 583; (Libraries), XIV, b 551; (Yellow Fever), XXIV, *a* 772; capture of, 1705 (Peterborough), XVIII, b 714
—— nuts (Hazel), XI, a 490
Barceloneta, suburb (Barcelona), III, a *b* 317
BARCLAY, Alexander, poet, III, b 317; (English Literature), VIII, b 370; (Pastoral), XVIII, b 350
——, David, tradesman (London), XIV, b 860
BARCLAY, John, anatomist, III, b 318
BARCLAY, John, Berean, III, b 318
BARCLAY, John, romancer, III, a b 318; (Robertson), XX, a 616
——, J. G., astronomer (Observatory), XVII, a 731
BARCLAY, Robert, apologist, III, a 318-9; (Quakers), XX, *b* 154-5, *b* 156, *b* 159
BARCLAY, William, jurist, III, a 319
BARCLAY DE TOLLY, Michael, prince, III, a 319; (Napoleon I.), XVII, b 223, a 228
Barclay & Perkins (Brewing), IV, a 237
BAR-COCHEBAS, insurrectionist, III, b 319; (Christianity), V, a 602; (Messiah), XVI, a 61
Barcoo river (Australia), III, a *b* 92
Barcos, Martin De, theologian (Arnauld), II, b 542
BARD, poet, III, b 319. See Bards
Bardanes, general (Nicephorus I.), XVII, a 495
Bardanes Philippicus, emperor of Constantinople (Justinian II.), XIII, b 807; (Philippicus), XVIII, a 762
Bardas, Cæsar, regent of Constantinople (Photius), XVIII, b 832, a 833
BARDESANES or Bar Deisan, Gnostic, III, b 319-20; (Bible), III, b 559; (Gnosticism), X, b 627; (Hymns), XII, a 614; (Syriac Literature), XXII, a 867; (Thomas), XXIII, a 329; (Valentinus), XXIV, *b* 44
Bardewieck, town (Lüneburg), XV, a 67
Bardi, Florentine bankers, III, a 273; (Lombards), XIV, b 822
Bardia, island (Malay Peninsula), XV, b 323
Bardiglio (Marble), XV, b 535
BARDILI, Christoph Gottfried, philosopher, III, a 320
Barditus, song (Germany), X, a 467
Bardo, palace (Tunis), XXIII, a 662
Bards, III, b 319; (Celtic Literature), V, a b 263, *a* 272; Druidic (Ireland), XIII, a b 256; Welsh (Celtic Literature), V, *a* b 276, a b 277, a b 278; (Eisteddfod), VII, a b 686

Bards of the Bible (Gilfillan), X, a 532
Bardsen, Ivar, geographer (Polar Regions), XIX, a 328
BARDSEY, island, III, a 320
Bardulum, town. See BARLETTA
BARDWÁN, district, III, b 320; division, b 320; town, a 321
Bardylis, chief (Illyrians), XII, a 748
Barebones Parliament. See PARLIAMENT
Barefooted friars (Carmelites), V, *b* 103; (Franciscans), IX, b 615
BARÈGES, town, III, a 321; (Pyrénées), XX, *b* 133
BARELI or Bareilly, district, III, a 321; town, b 321-2
Bärenfall (Gastein), X, a 97
Barents or Barentz, William, sailor (Geography), X, a 165; (Polar Regions), XIX, a b 329; (Spitzbergen), XXII, a 425
—— Land, island (Nova Zembla), XVII, b 619; (Spitzbergen), XXII, a 423
—— sea (Hudson, H.), XII, a b 346; (Norway), XVII, a 591, *b* 593; (Norwegian Sea), a 607
BARÈRE DE VIEUZAC, Bertrand, revolutionist, III, a 322; (Robespierre), XX, a b 619
Bareswill refining process (Oils), XVII, a 764
Baret, E., editor (Romance), XX, b 670
BARETTI, Giuseppe, critic, III, b 322
Barettier, scholar. See BARATIÈRE
Barff, John, on wool (Agriculture), I, b 353-4
Barff's protective process (Iron), XIII, a 367
BARFLEUR or Barbeflot, town, III, b 322; cape (Manche), XV, a b 466
Barfurush, town. See BALFROOSH
Bargain defined (Sale), XXI, b 217; and sale (Real Estate), XX, a 319, note
Bargains, catching (Infant), XIII, b 3
Bargagli, Scipione, author (Siena), XXII, b 48
Bargash ibn Said, sultan (Zanzibar), XXIV, a 807
Bargate, edifice (Southampton), XXII, b 296
Barge canals (Canal), IV, b 692-3
—— course in walls (Building), IV, a 415
——, Fowler's (Dredging), VII, b 402; racing (Rowing), XXI, a 38
—— lighthouse (Sables d' Olonne), XXI, a 138
Barguerlac, bird (Sand Grouse), XXI, a 271
Barguzin mountains (Siberia), XXII, *a* b 7; and river and town (Transbaikalia), XXIII, *b* 541, *b* 542, *a* 543
BARHAM, Richard Harris, humorist, III, b 322-3
Barhampur, town (Murshidábád), XVII, b 69, *a* 70
Bar-headed Goose, X, b 692-3
Bar-Hebræus, Gregorius (Arabian Philosophy), II, b 233; (Aramaic Languages), a 370; (Syriac Literature), XXII, a 863, b 865, a 866, b 868, a 873, b 875 note, *a* 879, a 880 note, *b* 882, *b* 884, a 898-900; (Tabarí), XXIII, a 9. See ABULFARAGIUS
Bari, race (Ismailia or Gondokoro), XIII, a 398; *Dictionary*, VII, b 167
BARI, Terra di, district, III, a 323; town, a b 323; surrender of, 1071 (Romanus IV.), XX, b 750
—— Doab, tract of land (Gurdáspur), XI, a 296; (Punjab), XX, b 112, b 114
——, di Mola, town. See MOLA
Bar'idtā, monk (Syriac Literature), XXII, a 880
Barilla, chemical (Sodium), XXII, a 255
Baring-Gould, Sabine, author (Lycanthropy), XV, *a* 93
Baringo Lake (Africa), I, a 229
BARIS, mountain, III, b 323; castle (Temple), XXIII, a 184, a b 186, a 187
Bárisal, town (Bákarganj), III, a b 214; Guns (Bákarganj), III, b 213
Barisan mountains (Sumatra), XXII, b 671, a 672
Barisanos, artist (Metalwork), XVI, b 80; (Monreale), b 786; (Trani), XXIII, a 541
Barito or Banjermassin river (Borneo), IV, b 50, a 51, a 52
Barium, town. See BARI
——, metal (Chemistry), V, a 455-6; dioxide (Chemistry), b 415; salts (Poisons), XIX, a 290; spectrum (Spectroscopy), XXII, a 390; sulphide (Phosphorescence), XVIII, a 826
Bark in vegetation (Botany) (Ill.), IV, a 89, b 90-1; (Histology), XII, a b 20. See LEATHER
Barka Khan (Polo), XIX, a 418
Barkáyā, historian. See Simeon Barkáyā
Barker, town (South Australia), XXII, b 297, b 299
——, Robert, painter (Panorama), XVIII, a 218
——, Robert, publisher (English Bible), VIII, a 348
——, Thomas, cook (Walton), XXIV, a 363
Barker's mill (Clocks), VI, a 15
—— table (Comet), VI, a 170
Barkhans, dunes (Syr-Daria), XXII, *a* 859; (Transcaspian), XXIII, a 544
Barkhusen, Hermann, printer (Germany), X, a 472
BARKING, town, III, b 323
Barkīyárak, sultan (Seljuks), XXI, a 667, note, a 668
Barklyite, stone (Ruby), XXI, a 54
Barkometer (Leather), XIV, a 383
Barkook, sultan (Egypt), VII, b 656-7
Barlaam, monk (Hesychasts), XI, *a* 699
—— AND JOSAPHAT, saints, III, b 323-4; (Romance), XX, a 652
BAR-LE-DUC or Bar-sur-Ornain, town, III, b 307; (Meuse), XVI, a b 214
BARLETTA or Bardulum, town, III, b 324
BARLEY, grain, III, b 324-5; (Agriculture), I, a b 319, b 322, b 329; (Brewing), IV, a b 236, b 237-8, b 240, a 242; (Corn Trade), VI, *a b* 368; (France), IX, b 458; (Irrigation), XIII, a 372; (Malt), XV, *a b* 341, *a* 342
——, analysis of (Brewing), IV, a b 238, a 241; crop (United States), XXIII, b 877, a b 878; cultivation of (Manure), XV, a b 514, a 515, b 518; in Tibet, XXIII, b 362
—— Sugar, XXII, a 657; (Confectionery), VI, b 228
Barlow, Sir George, governor (India), XII, a b 844
BARLOW, Joel, politician, III, a 325
BARLOW, Peter, mathematician, III, b 325; (Magnetism), XV, *a* 252; (Tables), XXIII, a b 12, a 16, a 17, a 18
——, P. W., engineer (Harbor and Docks), XI a 421
——, Thomas, bishop (Bunyan), IV, b 472
——, W. H. (Meteorology), XVI, b 185
Barlowe, William, mathematician (Compass), VI, a 201, a b 202, *a* 203
Barlow's high-pressure kier (Bleaching) (Ill.), III, a b 708, a 709
—— wheel (Ill.) (Electricity), VIII, b 69
BARMECIDES, family, III, b 325; (Haroun al Raschid), XI, b 436; (Mohammedanism), XVI, b 602, a 604, a 605; feast, III, b 325
Barmekin of Echt (Castle), V, b 171
BARMEN, town, III, b 325-6
Barn (Agriculture), I, b 274-5
BARNABAS, apostle, III, a 326; (Acts of the Apostles), I, *a b* 116; (Apostolic Fathers), II, a 171, b 172-3; (Hebrews), XI, *a* 538, *b* 539, b 541; (Liturgy), XIV, a 714; (Paul), XVIII, b 427, a b 428, a 429
——, *Epistle of* (Apostolic Fathers), II, b 172; (Gospels), X, b 724, b 726, a b 730; (Hermeneutics), XI, a 666; (Millennium), XVI, a 328; (Sunday), XXII, a 688 notes
——, *Gospel of* (Canon), V, b 8
Barnabites, order (Monachism), XVI, b 737, *b* 742
Barnaby Rudge (Dickens), VII, b 152; (Poe), XIX, b 268
Barnacles, crustacea (Distribution), VII, b 242-3. See Cirripedia
BARNARD CASTLE, town, III, a 326
——, Elizabeth, Lady (Shakespeare), XXI, b 801, a 802
——, George G., Judge (Impeachment), XII, b 756
——, Sir H., general (Delhi), VII, *a* 44
——, Henry, American educationalist (Education), VII, a 589; (Kindergarten), XIV, *b* 82; (Schools), XXI, b 907, a 911
—— or Bernard, John, controversialist (Heylin), XI, a 701
——, John, canon of St. Paul's (Tallis), XXIII, b 38
——, John Gross, American engineer (Tehuantepec), XXIII, a 119
Barnard's Inn (Inns of Court), XIII, b 93, a 97
BARNAUL, town, III, b 326; (Siberia), XXII, a 11, *b* 16; (Tomsk), XXIII, a b 467
BARNAVE, Antoine Pierre Joseph Marie, orator, III, b 326-7
Barnburners, political party (Tammany Society), XXIII, b 920
BARNES, Albert, theologian, III, a 327
BARNES, Joshua, scholar, III, a 337; (Bentley), b 499
——, Thomas, editor (Newspapers), XVII, b 428
——, William, poet (Dorset), VII, b 322
BARNET or Chipping Barnet, town, III, a 327; (Hertford), XI, b 689, a 690; battle of, 1471 (Heraldry), b 608
Barnett helmet (Diving), VII, b 258
BARNEVELDT, Jan van Olden, statesman, III, a b 327; (Grotius), XI, *b* 194; (Hague), XI, a 333; (Holland), XII, *a b* 80, *b* 81, b 97
Barnfield, Richard, poet (Pastoral), XVIII, a 352
Barn-owl, cape (Flight) (Ill.), IX, a 274
Barn Rocks (Sussex), XXII, b 761
Barns (Agriculture), I, a b 347; (Pennsylvania), XVIII, b 509
BARNSLEY, town, III, a 328; (York), XXIV, a 786; collieries (Coal), VI, a 69, b 72, a 74; (York), XXIV, a 784
BARNSTABLE, town, Mass., III, a 328
BARNSTAPLE, town (Ill.), III, a 328
Barnton Mount (Edinburgh), VII, a 571
Barnuevo, Pedro de Peralta y, poet (Peru), XVIII, b 688
Barnum, Phineas Taylor, showman (Aëronautics), I, b 174
Barnwell, town (Cambridge), IV, a 647
—— Castle (Northampton), XVII, b 570
Baro Lake (Nile), XVII, a 520

BAROCCHIO or Barozzi, Giacomo da Vignola, architect, III, a 328
BAROCCI or Baroccio, Frederigo, painter, III, b 328; (Urbino), XXIV, b 14, a 15
"Barocchism," manner (Italy), XIII, a 521
BARODA, city, III, b 328
Baroghil pass (Gilgit), X, b 532, a 533; (Hindú kúsh), XI, b 747, *a* b 748
Barolo, Marchesa di, philanthropist (Pellico), XVIII, b 489
Barolum, town (Barletta), III, b 394
BAROMETER (Ill.), III, a 329-34
  hygrometry, a 333
  materials, collections for, a 331
  measurement of altitudes, a 332-4
  observations, b 333-4
  position of, b 331
  principle of construction, a 329
  readings, a 332
  varieties of, b 329-31
—— (Aëronautics), I, a 186; (Bernoulli), III, a 523; (Fludd), IX, b 305; (Hydromechanics) (Ill.), XII, a 457; (Meteorology), XVI, b 144 *sq.*; in ballooning (Aëronautics), I, a b 186; experiments with (Pascal), XVIII, b 339, b 343; ill effects of (Gregory, David), XI, a 163; mercurial (Torricelli), XXIII, a 482
—— determinations of height (Atmosphere), III, a 32; (Deluc), VII, b 48; (Surveying), XXII, 750
——, error (Clocks), VI, a b 17; gradient (Meteorology) (Ill.), XVI, a 160, a 161; oscillation (Meteorology) (Ill.), XVI, b 125-9; diurnal (Atmosphere), III, a 28-9
—— pressure (Atmosphere), III, b 26-9; (Climate), VI, a 8; (Geography), X, b 188; (Geology), X, a 235; (Meteorology), XVI, a 142, b 162, a 187; (Pacific Ocean), XVIII, a 120, a b 121; (Sweden), XXII, a 777; in mines (Coal), VI, a 67; variations (Meteorology), XVI, a 190; (Tides), XXIII, a 376
BARON, title, III, b 334-5; (Costume), VI, b 422; (Knighthood), XIV, a b 121. See Barons
——, Alexander, physician (Vaccination), XXIV, b 29, a 36
——, Eguinaire, jurist (Roman Law), XX, a 702
"Baron and Feme," law-term, III, a 335; (Husband and Wife), XII, b 416
Baroncelli, Francesco, tribune (Rome), XX, *b* 818
BARONET, title, III, a b 335; (Heraldry), XI, b 632; (Cotton, Sir R. B.), VI, a 452; (Knighthood), XIV, b 121, b 122, notes; (Precedence), XIX, a 681, note, b 683, note
Baroni, Leonora, singer (Milton, John), XVI, a b 339
Baronium, Exercitationes in (Casaubon), V, a *b* 152
BARONIUS, Cæsar, cardinal, III, a 336; (Catacombs), V, b 180; (Church History), b 668; (Neri), XVII, a b 356; (Photius), XVIII, b 833, b 834; (Popedom), XIX, b 519, a 520, a 525; (Prester John), a 737
Barons, ennobled robbers (Nova Scotia), XVII, a 618; (Peerage), XVIII, b 470, b 472-3, a b 473; (Prussia), XX, b 7, *a* 8, a 12
——, decline of (Parliament), XVIII, a 312, a 313; depression of (Henry I., England), XI, b 585; (Henry II., England), a 586, a 587; Norman (Parliament), XVIII, b 309; rank of (Parliament), b 312
Barons' War in England, VIII, b 279; (Henry III., England), XI, b 587, a 588; (Hereford), b 653; (Scotland), XXI, *a* 507, a 508; in Germany (Luther), XV, b 79; (Sickingen), XXII, a 37
Barony Burghs (Borough), IV, b 56
—— Kirk, Glasgow (Crypt), VI, b 591
Barosma, plant (Buchu), IV, a 373
Barossa, battle of, 1811 (Chiclana), V, a 534
—— town and hills (South Australia), XXII, b 297, b 298
Baróti, David, poet (Hungary), XII, a b 392
Barotse valley (Zambesi), XXIV, a b 804
Barozzi. See BAROCCHIO
BARQUISIMETO, city, III, a 336; (Venezuela), XXIV, b 150, a 152
BARR, town, III, a 336
BARRA or Barray, island, III, b 336. See HEBRIDES
Barraband, Pierre Paul, painter (Ornithology), XVIII, a 15
BARRACKPUR, town, III, b 336
BARRACKS, III, a 337-8; (Army), II, a 514-6, b 534; (Dublin), VII, a b 430; (Hospitals), XII, a b 320; (Ventilation), XXIV, b 171, a 172, b 173-4; (Woolwich), b 699
Barraconda Falls (Gambia), X, a 54
Barrage of the Nile (Egypt), VII, b 664, a 667, a 681
Barramunda, fish (Ichthyology), XII, a 725
Barral, balloonist (Aëronautics), I, a 176
Barrancas, mountain gorges (Mexico), XVI, a 224, note; (Spain), XXII, b 308
Barrande, Joseph, palæontologist (Crustacea), VI, *a* b 584; (Geology), X, a *b* 286, b 291, *b* 292, a 293, a b 300
Barranquilla, port (Colombia), VI, a b 137
BARRAS, Paul François Jean Nicolas, Comte de, III, b 338; (Napoleon I.), XVII, b 202-3, b 209
Barratry, crime (Insurance), XIII, b 192
Barratt, A., author (Evolution), VIII, b 670
Barré race (Indians), XII, b 868, a 869
——, Col. Isaac (Pitt), XIX, b 149
Barrel, gun, Martini-Henry (Gun Making) (Ill.), XI, b 250-2; for sporting (Gun Making), a b 247, b 248
—— hoops (Hickory), XI, b 705; organs (Musical Box), XVII, b 113; Saws, XXI, a 359
—— time-piece (Clocks) (Ill.), VI, a b 22; (Watch), XXIV, a b 415
—— vault (Dome), VII, *b* 301
Barren river (Kentucky), XIV, b 43
Barrens, prairie (Kentucky), XIV, a 45
Barrere, Pierre, naturalist (Ornithology), XVIII, a 9; (Tinamou), XXIII, b 429; (Trumpeter), b 631
Barreto, Francisco de, governor (Camoens), IV, *b* 660, *a* 661
Barrett, naturalist (Brachiopoda), IV, *b* 173, b 175, a 176
——, Elizabeth, poet. See BROWNING
——, George, mathematician (Annuities), II, b 72-3
——, William, antiquary (Chatterton), V, a b 387, a 389
BARRHEAD, town, III, 338
BARRI, Girald de, historian, III, b 338-9; (Hoare), XII, a 32. See Giraldus Cambrensis
——, Marie Jeanne Gomart de Vaubernier, Countess du (Choiseul), V, b 592
Barrica, cask (Seamanship), XXI, b 632
Barricades, Day of the, 1588 (Paris), XVIII, a 297
Barrier Act, 1639 (Presbyterianism), XIX, b 702
—— Reefs (Australia), III, a 94; (Corals), VI, *a b* 335, a 336; (Geology), X, a 229
Barriére, Jean de la, abbot (Cistercians), V, a 693
Barring engine (Steam-Engine), XXII, a 539
BARRINGTON, Daines, naturalist, III, b 339; (Polar Regions), XIX, a 331
Barrington, Daines, jurist and naturalist (Turkey), XXIII, a 700 note; (Whist), XXIV, *a* 574; (White), *b* 580
BARRINGTON, John Shute, viscount, III, b 339
BARRINGTON, Samuel, admiral, III, a 340
BARRINGTON, Shute, bishop, III, a 340
BARRINGTON, William Wildman, viscount, III, b 339; (Junius), XIII, *b* 786-7
Barrios, Justo Rufino, President (Guatemala), XI, *a* 214; (San Salvador), XXI, b 281
BARRISTERS, III, a b 340; (Advocate), I, b 161; (Apprentice), II, b 185; (Attorney), III, b 55; (Costume), VI, b 423; (Inns of Court), XIII, a b 94
Barrois, Théodore, naturalist (Tunicata), XXIII, a 648, a 655, b 658
Barrok or baroque Pearl, XVIII, b 457
Barron, A. F., viticulturalist (Horticulture), XII, b 227, b 291
Barron's lock (Ill.), XIV, a 751
BARROS, Joao de, historian, III, b 340; (Brazil), IV, b 205; (Gaur), X, a 103, note; (Portugal), XIX, b 572
Barrow, river (Carlow), V, *a* b 98; (Ireland), XIII, b 222, b 224; (Kildare), XIV, a 74; (Kilkenny), XIV, a b 76; (Queen's County), XX, b 177; (Waterford), XXIV, a 422, b 423; (Wexford), *b* 549
BARROW, Isaac, mathematician, III, b 341-2; (English Literature), VIII, a 378; (Infinitesimal Calculus), XIII, b 9; (Newton), XVII, a 450, a 451
BARROW, Sir John, author, III, a b 342; (America), I, b 613-4; (Geography), X, b 171, b 172; (Hottentots), XII, a 323; (Polar Regions), XIX, a b 331
Barrow drill (Ill.) (Mining), XVI, a-b 466
BARROW-IN-FURNESS, town, III, b 340-1; (Lancashire), XIV, a b 254
Barrowe, Henry, theologian (Independents), XII, a b 762, notes
BARROWS, burial mounds, III, b 342-4; (Carnac), V, a b 104; (Derby), VII, b 94; (Dorset), a 322; (Orkney), XVII, b 872; Indian (America), I, a b 608
Barrow's duck (Golden-eye), X, b 674
—— Straits, III, b 344
Barrule hills (Man), XV, *b* 457, *a* 458
BARRY, Sir Charles, architect, III, b 344; (Pugin), XX, a b 108, note
Barry, Comtesse du, courtesan. See DU-BARRY
BARRY, James, painter, III, b 344-5
—— *Lyndon* (Thackeray), XXIII, a 233
——, Martin, physiologist (Anatomy), I, b 717, *b* 740; (Reproduction), XX, b 429
Barry Cornwall, pseudonym (Proctor), XIX, a 813
BARS, province of Hungary, III, b 345
——, river formation (Geology) X, a b 246; (River Engineering), XX, a 591-2
Bar-Sāhdē of Karkh, historian (Syriac Literature), XXII, a 887
Bar Sarōshwai, bishop (Syriac Literature), XXII, a 893
Bar-Saumā, archimandrite (Syriac Literature), XXII, b 870, b 871-2
Barsileens, people (Khazars), XIV, *b* 61, a 62
Barsovite (Mineralogy), XVI, b 438
BAR-SUR-AUBE, town, III, b 307

Bar-sur-Ornain, town. See BAR-LE-DUC
BAR-SUR-SEINE, town, III, b 307
Bart, admiral. See BARTH
Bartal, George, historian (Hungary), XII, a 395
BARTAN, town, III, b 345-6
Bartang, river (Oxus), XVIII, a b 107
BARTAS, Guillaume de Salluste Du, poet, III, a 346; (Ronsard), XX, *a* b 864
Barter, higgling (Money), XVI, b 747, b 748
BARTFELD or Bártfa, town, III, a 346
Barth, German philologist (Druidism), VII, a 414
BARTH or Bart, Jean, sailor, III, a 346
BARTH, Heinrich, explorer, III, a 346; (Africa), I, a 221, *a* 243; (Baghermi), III, b 202; (Borgu), IV, a 49; (Geography), X, b 173; (Tibbus), XXIII, a 355; (Timbuktu), *b* 418
BARTHÉLEMY, Auguste Marseille, poet, III, b 346
BARTHÉLEMY, Jean Jacques, archæologist, III, b 346-7
——, Peter, ecclesiastics (Crusades), VI, *a* 553
BARTHEZ or Barthès, Paul Joseph, physician, III, a b 347
Bartholdi's statue of Liberty (New York), XVI, b 471
Bartholdy family (Mendelssohn), XVI, b 13
——, Jakob Solomon, diplomatist (Schadow), XXI, b 402
Bartholin, antiquary, *d.* 1690 (Iceland), XII, b 662-3
Bartholinus, Erasmus, physician (Crystallography), VI, b 594; (Light), XIV, b 614
BARTHOLINUS, Gaspard, theologian, III, b 347
BARTHOLINUS, Thomas, physician, III, b 347; (Harvey), XI, *b* 451
BARTHOLOMEW, ST., apostle, III, a 348; (Nathanael), XVII, a 249
—— Hospital (England), VIII, a 230
——, massacre of (Catherine dé Medici), V, b 205; (Charles IX., of France), b 357
——, *Revelations of* (Apocalyptic Literature), II, b 157
Bartholomew Fair, comedy (Jonson), XIII, a 753, b 755
Bartholomew Fair, market (London), XIV, a 837
Bartholow, Roberts, physician (Gelsemium), X, a *b* 121
Bartizan, turret (Architecture), II, b 403
Bartlett, A. D., of London Zoological Gardens (Hornbill), XII, *a* 174; (Kiwi), XIV, b 107; (Ornithology), XVIII, a 29
——, Wm. H. C., mathematician (Insurance), XIII, b 189
"Bartlett's Childers" (Horse), XII, b 187
Bartoletti, Fabrizio, chemist (Sugar), XXII, b 655
BARTOLINI, Lorenzo, sculptor, III, a 348
—— Palace, Florence (Agnolo), I, b 253
Bartolommeo di S. Marco, Fra, or Baccio della Porta, painter, III, a 168; (Raphael), XX, b 287, a 288, note
BARTOLOZZI, Francesco, engraver, III, a 348; (Schiavonetti), XXI, a 411
BARTOLUS, jurist, III, a b 348; (Torture), XXIII, a 496
Barton, Andrew, sailor (Scotland), XXI, *a* 519
BARTON, Benjamin Smith, naturalist, III, b 348; (Ornithology), XVIII, a 13
BARTON, Elizabeth, Maid of Kent, III, a 348; (More, Sir T.), XVI, b 844
——, William, divine (Hymns), XII, a 625
Barton Bridge (Aqueduct), II, a 200
Barton's buttons (Light), XIV, a 614
Bartram, John, botanist (Magnolia), XV, b 285
——, William, botanist (Ornithology), XVIII, a 13; (Wilson), XXIV, b 621
Bartsch, Karl Friedrich, scholar (Nibelungenlied), XVII, b 489-90
BARUCH, III, b 348-50
——, *Apocalypse of* (Apocalyptic Literature), II, a 157; (Millennium), XVI, b 327, a 328
——, *Book of*, III, a 349-50; (Apocrypha), II, a 160; (Gnosticism), X, a 626
Barus Camphor, IV, b 672
Barwell, Indian councillor (Hastings), XI, *a* 459
Barwood dye (Dyeing), VII, a 498; (Sandalwood), XXI, a 269
Bary, Erwin von, traveller (Sahara), XXI, b 197
——, Heinrich Anton de, mycologist (Fungus), IX, a 727, *a* 729, a b 730, *a* 732, a *b* 734; (Histology), XII, a 17, *a b* 18, *a b* 19, *a* b 20, b 21; (Parasitism), XVIII, b 268, a 270 note, a b 271 notes; (Schizomycetes), XXI, *b* 416, a b 417, a b 421, note, b 422, a b 423, note
Barycentrische Calcul (Möbius), XVI, b 563
Barye, Antoine Louis, sculptor (Drawing), VII, a 389
Baryphthengus, species (Motmots), XVII, b 9
BARYTES or Baryta, oxide, III a 350; (Glass), X, a 585, a b 592; a 391, a 393, b 414, a 415; (Mineralogy), XVI, b 390, a 417; (Mining), a 489; (Nitrogen), XVII, a 531
Baryto-calcite (Mineralogy) (Ill.), XVI, b 415
—— celestine (Mineralogy), XVI, a 417
Barzaz Breiz (Celtic Literature), V, b 281, a 285
Basalia of crinoids (Echinodermata), VII, a 551
Basalt, building stone (Rome), XX, b 826; decomposition of (Geology), X, b 238; dykes (St. Helena), XXI, a b 179; mountains (Syria), XXII, b 860; rock formations (Geology), X, a 210, a 322; (Western Australia), XXIV, b 535; rock, intrusive (Geology), X, b 274, *b* 275, a 277; sea corrosion of (Geology), b 252
Basaltic columns (Geology), X, a b 222, a 278; plateaus (Scotland), XXI, b 544
Basásírí, chieftain (Seljuks), XXI, *b* 666
Basciuet Helmet, XI, a 569
Base, arithmetical (Logarithms), XIV, a b 778, *b* 780
——, chemical. See Bases
——, columnar (Architecture), II, b 403-4
—— Corinthian (Architecture), II, a 357, b 364
——, Ionic column, II, b 355, b 356
BASE-BALL, game (Ill.), III, a 350-1
—— line errors (Geodesy), X, b 146; (Surveying), XXII, b 740-41; measurement (Geodesy), X, b 146-8; American (Surveys), XXII, a 939, a 940; modern (Surveying), a b 732
Base of supply (War), XXIV, *a* 367, b 368, b 370
BASEDOW, Johann Bernhard, educator, III, b 351; (Education), VII, b 586-7; (Germany), X, a 483; (Goethe), a 647
Basedow's disease (Goitre), X, b 658-9
Baseggio, Pietro, architect (Venice), XXIV, b 165
BASEL, Bale or Basle, canton, III, a 352; (Switzerland), XXII, a b 816, a b 817, b 818, *a* 819, a 825 note, *a* 829, b 830, *a* b 833
——, city (Plan), III, a 352-3; (Calvin), IV, a 634, note; (Holbein), XII, *a* 57; (Libraries), XIV, a 550; (Map), XV, a b 527; (Ribbons), XX, b 546; (Switzerland), XXII, *b* 815, b 816, a 817, b 824, *a* 828, b 832, a 833; (Wetstein), XXIV, *b* 548, *a* 549; early printing (Typography), XXIII, a 729
——, *Confession of* (Luther), XV, b 84
BASEL OR BASLE, COUNCIL OF, 1431-43, III, a 353; (Concordat), VI, a b 215; (Torquemada), XXIII, a 481
Basement (Architecture), II, a 404; Italian (Architecture), b 385
Bases (Chemistry), V, b 413-4, a 421-3
BASHAN, district, III, b 253-5
"Bashaws" (Horse), XII, a 208
Bashforth, F., mathematician (Gunnery), XI, a 265, a b 269, b 281
—— chronograph (Gunnery) (Ill.), XI, b 264, a b 265
Bashgalis, tribe (Kâfiristân), XIII, a 831, *a* 832
Bashi-Bazouks, soldiers (Army), II, b 540
BASHKIRS, Bashkirds or Bash-kurts, race, III, a 355; (Mescheryaks), XVI, b 50; (Rubruquis), XXI, a 53, note; (Russia), *a* 87, *a* b 88, b 89; (Tartars), XXIII, a 76; (Ufa) *b* 764; (Ural Mountains), XXIV, b 8, b 9
Bashmuric language (Copts), VI, *a* 315; (Hieroglyphics), XI, *a* 714
Basic carbonate of Zinc, XXIV, b 825
—— group of rocks (Geology), X, b 198-9, b 207-8, b 209-10
—— linings, converters (Iron), XIII, b 355, b 356
Basic process (Iron), XIII, a 356; steel-making (Iron), a 355-6
Basicity of oxides (Metallurgy), XVI, b 67
Basidia, cellules (Botany), IV, *b* 145; (Lichens), XIV, a 559
Basidiomycetes, order (Fungus), IX, b 730-1; (Reproduction), XX, a 439; (Vegetable Kingdom), XXIV, a *b* 139, a 140
Basidiospores, organs (Fungus), IX, a 728; (Histology), XII, *b* 15
Basil, grand-dukes and czars. See Vasilii
——, herb (Horticulture), XII, a 302
Basil or Basilius I. the Macedonian, emperor (Basilica), III, b 362; (Greece), XI, a b 104; (Michael III.), XVI, a 235; (Photius), XVIII, a b 833; (Roman Law), XX, b 734
—— II., emperor (Greece), XI, a 102, b 103, b 104, b 106; (Isaac II.), XIII, b 384; (Sicily), XXII, b 29
—— of Ancyra, bishops (Basil the Great), III, b 355
BASIL THE GREAT, of Caserea, theologian, III, b 355; (Ephesians, Epistle to the), VIII, a 408; (Eunomius), *b* 585; (Fathers of the Church), IX, b 44, a 45; (Gregory Nazianzus), XI, b 160, a 161; (Litany), XIV, *b* 701; rule of (Monachism), XVI, b 726, *a* 728, a 730
——, the mystic sectary (Basil the Great), III, b 355
—— of Seleucia (Basil the Great), III, b 355
——, Valentin, alchemist (Antimony), II, a 114; (Metals), XVI, b 68. See Basilius.
Basilar artery (Anatomy), I, *a* 794; membrane (Anatomy), a *b* 785, a 786; (Ear), VII, a 512, a 513
Basilarde (Dagger), VI, b 670
Basileus, title (Greece), XI, *a* 87; (Titles of Honor), XXIII, a 445, note
Basilias, hospital (Christianity), V, b 605
Basilic vein (Anatomy), I, *b* 795
BASILICA (Ill.), III, b 355-62
Christian, use of, a 357-8
Eastern Church, a b 361
English, b 361-2
Italian, b 360-1
Pagan (Ill.), a 356-7
Roman Christian (Ill.), b 357-60

BASILICA (Architecture), II, a b 380; Roman (Architecture), II, a b 369; (Rome), XX, a 835
—— (Chester), V, a 526; (Pompeii), XIX, b 461, a 462; (Tours), XXIII, b 522
——, Aquileia (Architecture), II, *b* 380; Flavian palace (Rome), XX, a b 843; Julia (Cæsar), IV, a 564; (Rome) (Plate VII), XX, b 833 note, a 834, b 836, notes, a 837; St. Maurus (Parenzo), XVIII, b 277; San Michele (Pavia), a b 449, a 450; St. Peter's, Rome (Metal-work), XVI, a 80; St. Sebastian (Catacombs), V, b 179; Theodelinda (Monza), XVI, b 824; Ulpia (Rome) (Ill.), XX, b 826, b 846, a 847
BASILICA, code, III, b 362–3; (Roman Law), XX, b 734; (Cujas), VI, a 613; (Cyril, jurist), b 663; (Fabrot), VIII, a 738; (Justinian I.), XIII, b 804
BASILICATA, district, III, a 363
Basilicon Doron (James I.), XIII, a 568
Basilicus, Jacob, voivode, Moldavia (Roumania), XXI, b 24
BASILIDES, Gnostic, III, a 363-4; (Bible), b 556; (Canon), V, *a* 8; (Gnosticism), X, b 627
Basilidians, sect (Abraxas), I, b 56; (Neoplatonism), XVII, a b 344, note
Basilisco dialect (Italy), XIII, b 505, a 506
Basiliscus, usurping emperor (Zeno), XXIV, b 816
BASILISK, lizard, III, a 364; (Cockatrice), VI, b 90
Basilius. See Basil
Basilius, Byzantine consul (Justinian I.), XIII, b 804
Basilius, Fl., Cæcina, consul (Popedom), XIX, a 507
Basils, commodity (Leather), XIV, a 389
Basin, naval (Dockyards), VII, a 271, a *b* 272-5
——, North Atlantic, III, b 16–7; waves (Harbors and Docks), XI, b 413
Basing House (Basingstoke), III, a 364; (Cromwell), VI, a 530
BASINGSTOKE, town (Ill.), III, a 364; (Hampshire), XI, *b* 385, a 386
Basis rates (Railway), XX, a 266
BASKERVILLE, John, printer, III, a 364; (Typography), XXIII, a 739
BASKET, III, a 364–6; (Hazel), XI, b 489; (Fibres, Textile), IX, b 116
Basking Shark (Ill.), XXI, a 814; (Ichthyology) (Ill.), XII, a b 683, a 693, b 723
Basle, Switzerland. See BASEL
Basmanoff, Alexis Danilovitch, general (Russia), XXI, *a b* 103
BASNAGE, Jacques, theologian, III, a 366
Basodine mountain (Ticino), XXIII, b 373
Basommatophora, sub-order (Mollusca), XVI, b 684; (Snail), XXII, b 197
Basoning (Hat), XI, a 463
BASQUE PROVINCES, district, III, a b 366; (Pyrénées), XX, a b 132; (Spain), XXII, b 307, a 310, b 312, b 313, b 314, b 316, b 326
—— language, III, b 366; (Dictionaries), VII, a 163; (Europe), VIII, a 616; (Grammar), XI, a b 35; (Humboldt), XII, a 360; (Philology), XVIII, a 791, b 793; (Spain), XXII, a 360
—— Roads attack, 1809 (Dundonald), VII, a b 466; (Gambier), X, a b 55
Basques, people, III, b 366; (Cave), V, a b 234; (Europe), VIII, *a b* 612; (Gaul), X, b 100; (Iberians), XII, a b 640; (Labrador), XIV, b 177; (Navarra), XVII, b 256; (Whale), XXIV, b 552, a 557
Basra Balsora. See BUSSORAH or Bassorah, town
Bas-relief, Assyrian (Architecture), II, *a* b 349–50; (Costume), VI, b 406
——, English (Gibson), X, b 524–5
——, Greek (Archæology), II, a b 303, a b 305, b 307, a b 308, a 313; (Archelaus), II, a 325; (Paros), XVIII, a 325
Bass (Music), XVII, b 88, b 89 note
—— or white-wood (Honey), XII, a 142; forests (United States), XXIII, a 860
——, George, explorer (Flinders, M.), IX, *b* 284; (Geography), X, a 170; discoveries of (Australia), III, b 90, a 91
Bass & Co. (Brewing), IV, a 237; (Burton-on-Trent), *a* 510
Bassæ, temple at (Phigalia) (Plan), XVIII, b 748, a b 749, a 750; (Tiles), XXIII, a 414
BASSÁHIR, district, III, a 367
Bassam, settlement (Gold Coast), X, b 672
BASSANO, city, III, a 367; gallery of (Guariento), XI, a 210
BASSANO, Giacomo da Ponte, painter, III, a 367
——, Hugues Bernard Maret, duc de (France), IX, a 540
Bassantie, James, mathematician (Scotland), XXI, b 568
Bassaraba, Matthias, voivode (Roumania), XXI, a b [illegible]2
——, Nagul, voivode (Roumania), XXI, b 21
Bassaricyon, genus (Mammalia), XV, b 447
Bassaris, genus (Mammalia), XV, b 447
BASSEIN, river and district, III, a 367, *b* 367; town, b 367; (Thána), XXIII, a 239
BASSELIN, Olivier, poet, III, b 367; (France), IX, b 486, b 569
Basses Alpes, department, I, a 527
BASSES PYRÉNÉES, department, XX, a 132–3
BASSE-TERRE, cities, III, a 367
——, town (St. Christopher), XXI, b 168; III, a 367
—— (Guadeloupe), XI, *b* 203, a 204; III, a 367
Basset horn (Oboe), XVII, a 728
Basseville, Hugo, ambassador (Pius VI.), XIX, a 165
Bass horn (Ophicleide), XVII, a b 800
BASSI, Laura Maria Caterina, scholar, III, b 367
——, Mathew da, founder (Capuchins), V, a *b* 71
Bassia, trees (Oils), XVII, a b 768
Bassianus, emperor. See HELIOGABALUS
BASSIANUS, Joannes, jurist, III, b 367–8; (Azo), b 146
Bassigny, district (Marne, Haute), XV, b 568, a 569
Bassin, town (St. Croix), XXI, a 169
Basso da Camera (Violin), XXIV, b 263
BASSOON, musical instrument, III, a 368; (Oboe), XVII, b 726-7
Bassora or Balsora, city. See BUSSORAH
Bassora Gum, XI, b 244
Bassorin in Gum, XI, a 244; (Botany), IV, a 78
BASS ROCK, islet, III, b 366
BASS'S STRAITS, III, a 367; (Tasmania), XXIII, b 78, a 79, a 81
Bassuto Land (Africa), I, a 242
Bast, goddess. See BUBASTIS
Bast Fibre, IX, a 116; (Hemp), XI, *b* 577; (Histology), XII, b 18, b 20, a 21; (Linden), XIV, a 655; (Physiology), XIX, b 54
—— layers (Botany) (Ill.), IV, *b* 82, a 83, b 90; mats (Ivanovo), XIII, a 530
BASTÁR, district, III, a 368
BASTARD, III, b 368–9
—— of Orleans. See DUNOIS
—— Saffron, plant (Safflower), XXI, a b 153
Bastards (Heraldry), XI, b 629; Hindu (Caste), V, b 466, a 167; support of (Poor Laws), XIX, b 489
BASTI, district and town, III, b 369–70
BASTIA, town, III, a 370; (Corsica), VI, a *b* 389
Bastian, Adolph, ethnologist (Burmah), IV, *a* b 496, b 499; (Demonology), VII, a 54, b 55; (Ethnography), VIII, b 549, a b 550; (Evolution), VIII, b 673; (Magic), XV, b 207; (Siam), XXI, b 894, a b 895, notes
Bastianini, sculptor (Sculpture), XXI, b 597
BASTIAT, Frederic, economist, III, a 370–71; (Political Economy), XIX, a b 396, b 397, b 398 9
Bastiat's formula (Capital), V, b 65
Bastie's toughened glass, X, a b 595
BASTILLE, fortress, III, b 371–2; (Beard), b 400; (Howard), XII, b 334; (Inquisition), XIII, b 99; (Iron Mask), b 370–1; (Montpensier), XVI, a 819; (Paris), XVIII, b 295, b 297, a 298; (Talleyrand), XXIII, b 35; (Voltaire), XXIV, a 306, a 307
Bastion (Fortification) (Ill.), IX, a b 389, a 391–2, b 407
Bastioned forts (Fortification) (Ill.), IX, b 383; lines (Fortification) (Ill.), a 384; systems, Netherland (Fortification), b 407–8
Bastite (Mineralogy), XVI, a 433
Bastnæsite (Mineralogy), XVI, a b 399
BASTWICK, John, physician, III, a b 372
Basurto, Diego Enriquez, author (Enriquez Gomez), VIII, a 400
Basûs, wars of (Hamasah), XI, b 359
Basuto Land (Cape Colony), V, b 37, b 41, b 42
Basutos, race (Cape Colony), V, a 43; (Orange River Free State), XVII, b 837; (Transvaal), XXIII, a 551
Basylous or positive elements (Chemistry), V, b 412, a 414, *b* 420-1
BAT, animal, III, b 372; (Ape), II, a 130; (Australia), III, b 97; (Flight) (Ill.), IX, a b 273; (Guano), XI, a 207; (Hibernation), a 704; (Java), XIII, b 613; (Maldive Islands), XV, b 334; (Reproduction), XX, b 423; (Sumatra), XXII, b 673; (Touch), XXIII, b 509; and (Mammalia), XV, b 369. See Bats and VAMPIRE
Batabano, town (Cuba), VI, a 600
Batagur, genus (Tortoise), XXIII, a b 487
Bataillard, P., philologist (Gypsies), X, b 545 note, *a* 546, b 547, *a b* 551, a 552
Bataille de Karesme et de Charnage, fabliau (Celtic Literature), V, *a* 271
Batak, language (Battas), III, a 383; (Dictionary), VII, b 166
Batála, town (Gurdaspur), XI, b 296
Batallador, Alonso el, general (Zaragosa), XXIV, a 809
Batanæa, district (Bashan), III, a 354
Batanes, islands (Philippine Islands), XVIII, a b 765
Batang, island (Malay Peninsula), XV, b 323
—— plateau and town (Tibet), XXIII, b 362, b 363
—— Lupar, river (Borneo), IV, b 50; and mountains (Saráwak), XXI, *b* 321
Batarrea, species (Fungus), IX, b 731
Batata, plant (Potato), XIX, b 611, a 612
Batava Tempe (Holland), XII, b 98; (Huygens, C.), XII, b 432–3
Batavi, tribe (Germany), X, a 425, a 427; (Holland), XII, a 72–3
BATAVIA, city, III, b 372–3; (Indian Archipelago), XII, a *b* 858, a *b* 859; (Java), XIII, a 612, b 615, b 616; (Libraries), XIV, b 533, a 552; (Meteorology), XVI, a 122, b 124, a b 129, a b 132, a 133; province (Java), XIII, b 614, b 615, a 616

Batavia of Junius (Typography), XXIII, b 732
Batavian Arcadia (Holland), XII, a 99
Batavian republic, 1795 (Holland), XII, b 85
Batavische Arcadia (Heemskerk), XI, *b* 545
Batchian, island (Indian Archipelago), XII, a *b* 855, note, b 859
Batching, process (Jute), XIII, a 812
Bate, Charles Spence, naturalist (Distribution), VII, a b 242
Batea, mining implement (Gold), X, a 663
Bategnius, mathematician. See Albategni
Bateman, John, colonizer (Tinamou), XXIII, b 430; (Victoria), XXIV, a 236
Bateman, J. F., engineer (Aqueduct), II, b 196, *a* 198, b 200; (Glasgow), X, b 572; Suez Canal, IV, b 697
Batenians or Batiniya, sect (Druses), VII, a 418
Bates College (Lewiston), XIV, a 494
——, Henry Walter, naturalist (Butterflies), IV, a b 528, *a* b 529, *a* 530; (Mimicry), XVI, a *b* 353, *b* 354, a b 356; (Toucan), XXIII, b 507 note
——, Joshua, banker (Boston), IV, b 67
BATES, William, divine, III, b 373–4
Bates's saccharometer (Brewing), IV, b 237
Bateson, naturalist (Vertebrata), XXIV, b 194, b 203
BATH, town (Plan) (Ill.), III, a 374–5; (Geology), X, a 240, a 241; (Nash, R.), XVII, a 242; diocese of (Wells), XXIV, b 527; (Somerset), XXII, b 271, *a* b 272
—— oolite group (Geology), X, a 314, a b 315
——, Ireland, town (Libraries), XIV, b 542
BATH, city in Maine, U. S., III, a 375
—— measure (Weights and Measures), XXIV, a 511, *b* 512
——, Order of (Knighthood), XIV, b 120, note, a 121, a 123, a 125
—— of Pharaoh, or Hammam Pharaoon (Arabia), II, a 206
—— Springs (Tunnelling), XXIII, b 662
—— stone (Building), IV, a 420
——, William Pulteney, Earl of, politician, XX, a 109–10
BATHGATE, town, III, a 375; oils (Paraffin), XVIII, b 244; road (Derby), VII, b 94
Bartholin, Thomas, physician (Anatomy), I, a *b* 711
Báthori or Batory, Christopher, of Transylvania, prince (Socinus), XXII, b 242
——, Ladislaus, translator (Hungary), XII, a 391
——, Sigmund, prince (Roumania), XXI, b 21, *a* 22
——, Stephen, king of Poland (Cossacks), VI, b 396, a 397; (Hungary), XII, a 384; (Poland), XIX, a 305, b 311; (Russia), XXI, a 101
Bathos (Anticlimax), II, a 112
BATHS (Ill.), III, a 375–83
  bibliography, b 381–2
  Greek, b 375
  hydropathy, a 380–1
  luxury of Roman, b 377–8
  modern, b 378–9
  Roman (Ill.), b 375–8
  variety of, b 379–80
—— (Abano), I, b 12; (Acqui), a 111; (Aix), a 383; (Alhama), b 502; (Brighton), IV, b 311; (Broussa), b 344; (Buda), a b 380; (Chili), V, a 536; (Diaphoretics), VII, a b 145; (Egypt), b 628, a 630; (Fever), IX, b 110; (Gastein), X, *a* 97; (Harrowgate), XI, b 442, a 443; (Havana), b 468; (Hospital), XII, a 319; (Hydropathy), a b 575–8; (Ischia), XIII, b 395; (Ispahán), a 404; (Leuk), XIV, b 484; (Mineral Waters), XVI, b 450, a 452, a 453; (Mont-Dore-Les-Bains), b 804; (Périgueux), XVIII, a 545; (Typhus), XXIII, b 722
—— of Diocletian (Michel Angelo), XVI, b 243; Hercules (Mehádia), XV, b 839; Julian (Paris), XVIII, a 293; Roman, III, b 375–8; (Pompeii), XIX, b 462–3; Russian, III, b 378–9; salt (Ischl), XIII, b 395; San Germano (Agnano), I, a 253; Shinznach (Aarau), b 10; thermal (Bourbonne-les-Bains), IV, b 158; of Titus (Mural Decoration), XVII, b 42, a 48; Turkish, III, b 378, a 379
BATHS OF LUCCA, commune, XV, b 41
Bathsheba, queen (David), VI, b 739
BATHURST, town, New South Wales, III, a 382
——, town of Gambia, X, *b* 54
——, New Brunswick, XVII, b 384
BATHURST, Allen Bathurst, Earl of, III, a 382; (Atterbury), a 50
BATHURST, Ralph, divine, III, a b 382
Bathybial Sharks (Ill.) XXI, a b 815
Bathybius, genus of Monera (Anatomy), I, a 740; (Protozoa), XIX, *b* 861
BATHYCLES, sculptor, III, b 382; (Archæology), II, a 305
Bathyerginæ, genus (Mammalia), XV, a 421, b 424
Bathylagus, fish (Salmonidæ), XXI, b 231 note, a 232
Bathyoncus, genus of Tunicata, XXIII, b 656
Bathyophis ferox, fish (Ichthyology), XII, a 723
Bathythrissidæ, fishes (Ichthyology), XII, a 723, b 632
Batîhah, plain (Galilee), X, b 27
Batineh, district (Arabia), II, a 222
Bating or grainering (Leather), XIV, a 386–7, b 388
Batiniya, sect (Druses), VII, a 418
Batiscan, river and town (Quebec), XX, b 171
Batiushkoff, Constantine Nicholavitch, poet (Russia), XXI, a 115
Baptizi, Andreas and Michæl, poets (Hungary), XII, a 391
Batley, town (Dewsbury), VII, a 126; (York), XXIV, b 785, *a* 786
Batman Su, river (Tigris), XXIII, a 413
Batne, city (Mesopotamia), XVI, b 52
Batoidei, fishes (Ichthyology), XII, b 723, a b 724
Batoka, people (Zambesi), XXIV, b 804
Baton, the (Heraldry), XI, a b 619
Batongoli, class (Uganda), XXIII, a 765
BATONI, Pompeo Girolamo, painter, III, b 382
BATON ROUGE, town, III, b 382; (Louisiana), XV, b 23, note
Batons (Pianoforte), XIX, a 73
Bátori. See Báthori
Batoum. See BATUM
Batrachia, group (Alps), I, b 557; (Amphibia), I, b 657, a 658; (Reptiles), XX, *a* b 445, a b 447, a b 450, note; (Smell), XXII, a 176
Batrachidæ, fishes (Ichthyology), XII, a 716, b 728
Batrachospermum, genus (Vegetable Kingdom), XXIV, b 138
Batrachostomus, bird (Goatsucker), X, a 635
BATRACHUS, architect, III, b 382
Batraki, town (Syzrañ), XXII, a 901
Bats, game implements (Cricket), VI, b 511, a b 512, a 514
Bats, anatomy of (Mammalia), XV, a 410–3; frugivorous (Mammalia), a 412, a 413–4; heads of (Mammalia), a 412–20, insectivorous (Mammalia), b 414–20; leaf-nosed (Mammalia) (Ill.), b 411, a 413; limbs of (Skeleton), XXII, a *b* 125, *a* b 126; parasites of (Insects), XIII, a 157
Batsch, August Johann Georg Karl, naturalist (Vertebrata), XXIV, a 193
Batsha tides (Light), XIV, a 611
Batta race (Soudan), XXII, a 292
Battaks of Sumatra. See BATTAS
BATTALION, III, b 382; (Army), II, b 494, *a* b 495; British (Army), II, a b 508; system of artillery (Army), II, a b 574
Battáni, Al, mathematician. See ALBATEGNI
BATTAS, Battaks or Batahs, Sumatran race, III, b 382; (Cannibalism), IV, b 713; (Sumatra), XXII, b 673–4; language of (Battas), III, b 382–3; (Sumatra), XXII, b 673–4
Battening, process (Weaving), XXIV, b 490
Battens, defined (Building), IV, b 435
Battering, process (Building), IV, a b 402
BATTERING RAM, III, a 383
Battersea, suburb (Chelsea), V, b 396; (Surrey), XXII, a b 729; Bridge (London), XIV, *b* 832; Park (London), XIV, a 827, *b* 833
BATTERY, artillery, III, a b 383; British (Army), II, b 506–7; field (Artillery), II, b 575, *a* 576, *a* b 577–8, b 579, b 583, a 584; fire of, regulation of (War), XXIV, a b 381; horse (Artillery), II, b 578, b 583; mountain (Artillery), II, b 578, b 583; Navy, XVII, a 293–6; position (Artillery), II, a 580; range finders (Telemeter), XXIII, b 137
——, galvanic (Electricity), VIII, b 13, b 84–8; De la Rives's floating (Electricity), a 68; jar (Electricity), VIII, a b 33; motors (Traction), XXIII, a 526, a 527
BATTERY, law term, III, b 383; (Assault), II, a 633
—— in manufacture of hats, XI, b 463
—— Park (New York), XVII, a 893
BATTEUX, Charles, writer, III, b 383; (Æsthetics), I, a b 198
Battey of Georgia, physician (Surgery), XXII, b 726
Batthyányi ministry (Hungary), XII, a b 386
Battiades, dynasty (Battus), III, b 385
——, poet (Callimachus), IV, b 627
BATTICALOA, town, III, b 383; (Ceylon), V, a 313, a 314
Battiks, cloths (Java), XIII, a 615
BATTLE, town, VI, a 385
BATTLE, fight, III, b 383–5; course of (War), XXIV, a 362–3; official duty in (Navy), XVII, a 301. See WAR
—— Axe (Arms and Armor), II, b 486, *a* 487
—— *of the Books* (Swift), XXII, b 800; (Wotton), XXIV, a 721
—— Bridge (Middlesex), XVI, a 293
—— *of the Frogs and Mice* (Greece), XI, b 123; (Parnell), XVIII, a 324; (Parody), b 324
—— gallery (Versailles), XXIV, a 192
—— Harbor, settlement (Labrador), XIV, a 176
—— *of the Huns*, painting (Kaulbach), XIV, *a* 19
"Battle of the Ice," 1242 (Russia), XXI, a 99
—— *of Lepanto* (Veronese), XXIV, b 188
——, Ordeal of, XVII, a 844
"Battle of the Nile," 1798 (Nelson), XVII, b 331
—— scenes, painting (Courtois), VI, *a* 462

Battle songs (Holland), XII, b 95; (Iceland), b 657
"Battle of the Spurs" (Bayard), III, b 395; (Wolsey), XXIV, b 668
Battle of the Standard, 1138 (Flag), IX, b 242; (Northallerton), XVII, b 568; picture of (Leonardo), XIV, a 460
Battlefield relief (Sanitary Commission), XXI, b902 3
Battlement (Architecture), II, a 404
Battock, mountain (Kincardine), XIV, *b* 80
Battou - Toulis - Cocabatou, grove (Buitenzorg), IV, a 461
BATTUS, kings of Cyrene, III, b 385-6; (Cyrene), VI, b 662
BATU, island, III, a 386; (Sumatra), XXII, b 672
Batu, Batou or Bathy, chief (Mongols), XVI, b 767-8, a 773; (Russia), XXI, *b* 98, *a* 99
BATUM or Batoum, province and town, III, a 386; (Transcaucasia), XXIII, b 545, b 546, *a* b 547
Batuta. See IBN BATUTA
Batwing burner (Gas and Gas-lighting), X, b 89-90
Bauchi province (Sokoto), XXII, a b 261, a 262
BAUDELAIRE, Charles, poet, III, a 386; (France), IX, b 595
Baudissin, commentator, (Hadad), XI, b 322
Baudouin, F. J., printer (Newspapers), XVII, *b* 437
Baudouin de Sebourc (France), IX, a 566
Baudrillart, Henri (Political Economy), XIX, a b 409
Bauer, Ferdinand, botanist (Brown, R.), IV, a 347
——, Mayer Anselm, banker (Rothschild), XXI, a 7
—— organs (Harmonium), XI, *a* 433
BAUHIN, Gaspard, botanist, III, a 386; (Potato), XIX, a 612
BAUHIN, Jean, botanist, III, b 386
Ba-ule, river (Sengal), XXI, a 692
Baumann's Islands (Navigators' Islands), XVII, b 287
BAUMÉ, Antoine, chemist, III, b 386. See Beaumé
Baumert, chemist (Ozone), XVIII, b 116
Baume Focot, resin (Poplar), XIX, a 527
BAUMGARTEN, Alexander Gottlieb, philosopher, III, a 387; (Æsthetics), I, b 191, a b 195
BAUMGARTEN - CRUSIUS, Ludwig Friedrich Otto, theologian, III, a 387
Baumbolder, lordship of (Lichtenberg, principality), XIV, a 567
Baumstark, Edward, political economist (Ricardo), XX, b 550
Bauny, Étienne, theologian (Casuistry), V, a 178
BAUR, Ferdinand Christian, theologian, III, a 387-9; (Apostolic Fathers), II, a b 172; (Church History), V, b 669; (Ewald), VIII, a 677; (Gospels), X, *a* 748, a 749; (Pastoral Epistles), XVIII, b 356; (Peter), b 709 note; (Philemon), b 755; (Philippians), a b 761, notes; (Romans), XX, b 747, note, *a* 748, a 749; (Thessalonians), XXIII, b 318, a 319; (Tübingen), b 640
Baures, tribes (Indians), XII, a 869
Bauschinger, engineer (Strength of Materials), XXII, a 629, note, a b 630, note, a b 633 note
BAUTAIN, Louis Eugène Marie, theologian, III, a 389
Bautista de Toledo, Juan, architect (Escorial), VIII, a b 477
BAUTZEN, city, III, b 389; (Saxony), XXI, *b* 372, *a b* 373, a *b* 374; battle of, 1813 (Artillery), II, b 584; (Jomini), XIII, b 746
Bauxite or beauxite, minerals (Furnace), IX, b 741; (Iron), XIII, b 302, b 303, b 355, b 357; bricks (Iron), b 301; (Mineralogy), XVI, a 404
BAVARIA (Map), III, b 389-93
  education, b 391
  government, b 390-1
  history, a 392-3
  industries, a 390
  physical features, b 389
  political features, b 391-2
—— (Army), II, b 524; (Charlemagne), V, b 349; (Coal), VI, a 54; (Feudalism), IX, a 107, note; (Feuerbach, P. J. A. von), a b 109; (Franconia), *b* 619; (Hermann, F. B. W. von), XI, *b* 661-2; (Hofer), XII, b 46; (Insanity), XIII, a 105; (Joseph I.), a 760; (Liquor Laws), XIV, b 695; (Napoleon I.), XVII, a 216, *a* 217, *a* 227; (Palatinate), XVIII, a 171; (Prison Discipline), XIX, a 780; (Suicide), XXII, b 662, *a* b 663, a 664, a 665; (Thompson), XXIII, b 330-1
Bavaria, Annals of (Aventinus), III, b 126
—— excise tax (Brewing), IV, a 242
—— history of (Germany), X, a 430, *a* 431, b 432, b 433-4, *b* 435, a 436, a 437, a *b* 439, a 440, a 442, a b 451, a 452, b 456-7, b 458, *a* 459; statistics of (Germany), b 404, a *b* 405, *a* 406, *b* 407, b 408, a b 409, a 410, b 413, a 414, b 416, a *b* 417, a b 418, *a* 420, b 421
Bavarian Alps (Germany), X, b 402; dialect (Germany), X, *b* 463, a *b* 465, a 466, a 467; education (Hegel), XI, a 549; forests (Climate), VI, b 5; margraves (Prussia), XX, a 7; primitive law (Salic Law), XXI, a 225; succession, 1777 (Saxony), b 370; tribes (Germany), X, *b* 427, b 428, a *b* 429
Baverstock, brewer (Brewing), IV, b 237
Baviad (Gifford), X, b 526
Bavon, St., duke (Ghent), X, a b 504
Bawangutan, fruit (Indian Archipelago), XII, b 856
Bawnt lake (Transbaikalia), XXIII, b 542
BAXAR or Buxar, town, III, a 393; (Sháhábád), XXI, a 771
Baxendell, Joseph, astronomer (Meteorology), XVI, a-b 187
BAXTER, Andrew, philosopher, III, a 393
——, Margaret, wife, III, b 394
BAXTER, Richard, theologian, III, b 393-5; (Hymns), XII, *a* 627; (Owen), XVIII, b 89; (Penn), b 504; (Presbyterianism), XIX, b 706, *a b* 709; (Slavery), XXII, a 908; *History of his Life and Times* (Calamy), IV, a 579
——, Robert Dudley, statistician (England), VIII, b 234; credit scale of (National Debt), XVII, b 253
Bay, tree (Laurel), XIV, b 348, b 349; forests (United States), XXIII, a 860
Bayad, fish (Siluridæ), XXII, a 75
Bayam, Affonso Lopes de, poet (Portugal), XIX, b 570
Bayan, general (Kublai Khan), XIV, a 152
Bay City, Michigan (Saws), XXI, a 361
—— Islands (Honduras), XII, a 134, b 135, a 136
—— of Islands (Newfoundland), XVII, a 392, a 394
—— Rum (Pimento), XIX, a 106
BAYARD, Pierre de Terrail Chevalier de, III, b 395; (Grenoble), XI, a b 165
—— legendary steed (Romance), XX, *a* 669
BAYAZID or Bajazid, city, III, b 395-6; march on, 1877 (War), XXIV, b 371, a 372
Bayazîd Ansari, historian (Afghânistân), I, b 213
Bayberry oil (Oils), XVII, b 765, b 768
Bayen, Pierre, chemist (Chemistry), V, b 401
Bayer, Adolf, chemist (Uric Acid), XXIV, b 16
——, John, of Augsburg (Astronomy), II, a 659
Bayerberg, mountain (Saxe-Weimar), XXI, a 365
Bayerischer Wald (Germany), X, *b* 402
Bayern. See BAVARIA
Bayes's theorem (Probability), XIX, b 794
BAYEUX, city, III, a 396; (Normandy), XVII, *b* 552, b 553, *a* 554, *b* 555, b 556
—— tapestry (Arms, etc.) (Ill.), II, a b 487; (Embroidery), VIII, b 149; (Flag) (Ill.), IX, a b 242
Bayezid, sultans. See BAJAZET
Bayham Church (Abbey), I, b 25
——, viscount. See Lord CAMDEN
Bayle, Gaspard Laurent, physician (Medicine), XV, b 825
BAYLE, Pierre, critic, III, a b 396; (Atom), b 33; (Encyclopædia), VIII, *b* 177; (France), IX, b 581; (Periodicals), XVIII, a 550; (Scepticism), XXI, a 400
Baylen, duke of (Castanos), V, b 162
Baynard Castle (London), XIV, a 849, a 854, b 855, a 856
Bayonet (Arms), II, b 489; (Gunmaking), XI, a 247, a 252; weapon (Sword), XXII, a 841; (Vauban), XXIV, b 124; Elcho-sword- (Army), II, a 508
BAYONNE, city, III, b 396; (Pyrénées), XX, *a* 133
Bayous, estuaries (Louisiana), XV, a b 22
Bay Psalm Book (Massachusetts), XV, a 621
Bayreuth, town. See BAIREUTH
Baywood (Mahogany), XV, b 290
BAZA, city, III, b 396-7
Bazaars (Baghdad), III, a 201; (Cabul), IV, a 554; (Constantinople), VI, a 274; (Damascus), b 696; (Ispahan), XIII, *b* 404
Bazaine, François Achille, marshal, *b.* 1811; *d.* 1889 (Battle), III, a 385; (Cannes), IV, b 712; (France), IX, *a* 552; (Metz), XVI, a 212; (War), XXIV, b 367, b 371
Bazarad or Bassaraba, Alexander, voivode (Roumania), XXI, a 21
BAZARD, Armand, Socialist, III, a 397; (Buchez), IV, *b* 372; (Enfantin), VIII, a b 192; (Saint-Simon), XXI, *a* b 208
Bazardjusi, mountain (Caucasus), V, b 221
Bazaruto islands (Mozambique), XVII, b 13
Bazeilles, village (Sedan), XXI, a 650
BAZIGARS of India, III, a b 397
Bazin, engineer (Hydromechanics), XII, b 454, b 518-19, a b 524, a b 525, a 529, b 530
Bazoche, clerks of the (Drama), VII, a 358; (France), IX, b 567, b 573
Bázrangik, dynasty (Persia), XVIII, b 616, a 618
Baztan, town (Navarra), XVII, a b 256
Bazūdh the Persian (Syriac Literature), XXII, a 893
Bazzi, Giovanni Antonio, II, Sodomo, painter (Siena), XXII, a *b* 44, a b 49
Bdellides, family (Arachnida), II, b 240, b 242; (Mite), XVI, a 552
BDELLIUM, resin, III, b 397; (Incense), XII, b 756; (Myrrh), XVII, a 129
Bdelloida, order (Rotifera), XXI, a 12
Bdellostoma, fish (Ichthyology), XII, a 694, b 719, b 733
Beaches, shores (Harbors and Docks), XI, a b 413; detritus of (Geology), X, a 255; raised (Geology), b 228
BEACHY HEAD, promontory, III, b 397; (Sussex), XXII, b 760, a b 763

Beacon controversy (Quakers), XX, a 156
—— Hill (Boston, U. S.), IV, b 64
Beacons (Lighthouse) (Ill.), XIV, b 631, a b 632
BEACONSFIELD, town, III, b 397
——, Benjamin Disraeli, Earl of, *b.* 1804; *d.* 1881 (Cabinet), IV, a b 550; (D'Israeli), VII, b 226; (England), VIII, b 328; (Rymer), XXI, a 127 note
—— estate (Burke), IV, a 484, b 490, a 491
——, Viscountess of, III, b 397
BEAD, ornament, III, b 397–8; "aggry" (Glass), X, b 577; Venetian (Glass), a b 581, b 593, a 594
——, moulding (Architecture), II, a b 358, b 366
Beadon, Richard, bishop (Tooke), XXIII, a 473
Beagle (Dog) (Ill.), VII, a b 286; (Hound), XII, b 328, a 330
—— channel (Tierra del Fuego), XXIII, a 410
Beak of triremes (Ship), XXI, b 843–4
Beal, Samuel, orientalist (Buddhism), IV, a 381, b 382, note, a b 383 notes, a 388 note, b 392; (Hwen T'sang), XII, *a* 434, a 435
Beale, Lionel, physiologist (Anatomy), I, b 717, a 740, b 742, b 753, b 755, b 756; (Digestive Organs), VII, a 201
Béals, canals (Lozère), XV, a 33
Beam of Balance, sign in the Zodiac, XXIV, a 833
—— marine engines (Steam-Engine), XXII, *a* 543
—— pumping engines (Steam-Engine), b 536–7, a 538
Beames, John, philologist (Hindustani), XI, a *b* 750, note, a b 751, *a* 752, a 753 note
Beams, structural (Building), IV, b 400; (Shipbuilding), XXI, a 857; bending of (Strength of Materials) (Ill.), XXII, a 635–7; building up (Building) (Plate XXII), IV, a 427–8; built abutting (Building) (Ill.), b 402–3
——, flexure of (Elasticity) VII, b 693, a 694, note, a b 701, a 702
—— trawl (Fisheries), IX, b 214–5, a b 216
BEAN, plant, III, a b 398; (Agriculture), I, b 320–1, b 322–3, b 334, a 335; (Botany), IV, a 75, a 76, a 102, b 135, b 137, *a* 140, b 142; (Horse), XII, *a* 197; (Horticulture), XII, a b 290, a b 295; (Italy), XIII, b 459; (Lupine), XV, b 68; (Physiology), XIX, a b 57
BEAR, mammal, III, b 398–9; (California), IV, a 623; (Distribution), VII, a 240; (Fur), IX, b 735, a 736; (Hibernation), XI, a 704; (India), XII, b 779–80; (Japan), XIII, b 584–5; (Mammalia), XVI, b 361, b 362, a b 448; (Mimicry), b 355; (Mythology), XVII, b 151; (Norway), a 595; (Sweden), XXII, a 779; Polar, III, b 398–9; (Greenland), XI, *a* 151
—— baiting, III, a 399; (London), XIV, *a* 858
——, Cave, fossil (Mammalia), XV, b 448
Bearcubs' bay (Iceland), XII, a 651
BEARD, III, b 399–401; (Egypt), VII, a 627; (Persia), XVIII, b 641
Bearings (Mechanics), XV, b 775, a 776
Bear Island (Mammoth), XV, a 455; (Spitzbergen), XXII, b 423, note
BEAR LAKE, Great, in Canada, III, b 399; lake, river and mountain (United States), XXIII, *a* 847; (Utah), XXIV, *b* 24
—— Lodge (United States), XXIII, a 848
BÉARN, province, III, b 401–2; (Huguenots), XII, a 352
Bear's-foot, plant (Hellebore), XI, a 567
Beas or Bias river (Múltán), XVII, b 25
Beast, hero (Lycanthropy), XV, b 92. See TOTEMISM
Beata island (Hayti), XI, b 485
Beatenberg, town (Switzerland), XXII, b 815
Beater, machine (Cotton), VI, b 435
Beatia, town. See BAEZA
Beatification (Canonization), V, *a* 22
Beating pulp (Paper), XVIII, a b 224, note
BEATON or Beatoun, David, cardinal, III, a 402–3; (Hamilton), XI, *a* 371; (James V.), XIII, b 567; (St. Andrews), XXI, a 166; (Scotland), b 520, *a b* 521, *a* 522
——, James, archbishop of St. Andrews, III, *a* 402; (Scotland), XXI, *a b* 520
Beatrice, countess of Tuscany, XXIII, a 713
——, Portinari, inamorata (Dante), VI, a 713, a 714, *b* 716
Beatrix of Portugal, queen of Castile (Spain), XXII, b 335
Beats, musical (Acoustics), I, b 109–10; (Music), XVII, b 109–11, b 112–3; (Ear), VII, b 513–4
BEATTIE, James, poet, III, a 403
——, William, physician (Campbell), IV, a 667
BEAUCAIRE, town, III, b 403; (Fair), VIII, a b 742–3
Beauce, district (Loir-et-cher), XIV, *b* 818, a 819; (Loiret), a b 818
BEAUCHAMP, Alphonse de, historian, III, b 403
—— chapel (Warwick), XXIV, a 401
——, Guy de, earl (Warwick), XXIV, b 401
——, Sir John de (Admiral), I, b 141, b 142
Beauclerk, Topham, wit (Goldsmith), X, b 679, a 680; (Johnson, S.), XIII, a 737
Beaufort, town (South Carolina), XXII, b 301, b 302
——, fortress (Templars), XXIII, *b* 178
—— family (England), VIII, a 294. See Somerset
——, François de Vendôme, Duc de, insurrectionist (Condé the Great), V, *a* 220
——, Henry, cardinal (Henry VI., England), XI, *b* 589, a 590
——, Henri Ernest Grout, traveller (Caramania), V, a 74
——, Margaret, mother of Henry VII. (Skelton), XXII, b 127
——, Pierre Roger. See pope GREGORY XI.
Beaufoy's friction experiments (Hydromechanics), XII, b 506
Beaugency cow (Vaccination), XXIV, a 29
Beauharnais family (Napoleon I.), XVII, b 212, b 214
——, Alexander, Vicomte de, III, b 403; (Josephine), XIII, *a* 761
BEAUHARNAIS, Eugène de, III, b 403; (Napoleon I.), XVII, a b 218, a 221
——, Eugénie Hortense. See HORTENSE
——, Josephine, empress. See JOSEPHINE
Beauharnasius, genus (Toucan), XXIII, b 507
Beaujeu, Anne of, regent. See Anne of France
——, Pierre, lord of (Bourbon), IV, b 157
——, Renault de, poet (Romance), XX, *a* 665
Beaujoyeux, Baltasar de, dramatist (Ballet), III, a 249
Beaulieu, Augustin, admiral (Algeria), I, a 490
——, Jacques, physician (Surgery), XXII, b 710
Beauly river (Inverness), XIII, b 205, a 206
BEAUMANOIR, Philippe de, jurist, III, a 404
Beaumarchais, François Joseph de la Barrede, dramatist (France), IX, b 585
BEAUMARCHAIS, Pierre Augustin Carron de, dramatist, III, a 404; (Drama), VII, a 369; (Mirabeau), XVI, a 518
BEAUMARIS, town, III, a 405
—— Shark (Porbeagle), XIX, b 532
Beaumé's hydrometer, XII, b 570–1
——, and Agramont feud (Spain), XXII, a b 339
—— de la Bonnière, Gustave Auguste de, publicist (Tocqueville), XXIII, b 438, a 439
BEAUMONT AND FLETCHER, dramatists, III, a 405–10
  biographies, a 405–6
  comic or romantic drama, b 407–9
  distinction of tragic style, b 406–7
  Fletcher's dramas, b 408
  place in English literature, a 409–10
——, Francis, dramatist, III, b 405–10; (Drama), VII, b 373, a 374
——, Sir George Howland, painter (Reynolds), XX, b 518
——, Lieutenant, explorer (Polar Regions), XIX, b 336
Beaumontite (Mineralogy) (Ill.), XVI, b 440
BEAUNE, town, III, a 410; (Monge), XVI, 765; (Wine), XXIV, *b* 638
Beauregard, spy (Voltaire), XXIV, a b 306
——, Peter Gustave Toussaint, general (Charleston), V, b 371
BEAUSOBRE, Isaac de, theologian, III, a 410
Beautiful, The (Æsthetics), I, a 191 *sq.*; theory of the (Jouffroy), XIII, b 764; (Philosophy), XVIII, a 809; (Schopenhauer), XXI, b 472
Beauty, theories of (Fine Arts), IX, b 169, a b 174; (Hutcheson), XII, b 424, b 426, a 427
Beauty and the Beast (Lycanthropy), XV, a 92
BEAUVAIS, town, III, a 410
——, encyclopædist. See VINCENT OF BEAUVAIS
Beauvilliers, Paul Hippolyte de, duc de St. Aignan, general and author (Fenelon), IX, *b* 64, b 65
Beauvoir or Kaukab, fortress (Galilee), X a 27
Beauvois, Palisot de, botanist (Grasses), XI, *b* 49, b 51, b 53
Beaux Arts, École des (Paris), XVIII, b 286
Beaux' Stratagem, the (Farquhar, G.), IX, a b 37
Beauxite. See Bauxite
BEAVER, rodent, III, b 410–1; (Dietetics), VII, b 177; (Fur), IX, b 735, a 736
——, anatomy of (Mammalia), XV, a 351; classification (Mammalia), *a* 422, a 423, a 424; digestive system of (Mammalia), a 365
—— hats, XI, b 462, a 463–4
—— Meadow mountains (Pennsylvania), XVIII, b 511
—— oil district (United States), XXIII, b 865
—— wood (Hackberry), XI, a 322
Bebájiás, tribe (Bákarganj), III, a 214
"Bébé" or Nicholas Ferry (Dwarf), VII, a 490
Bebeerine, alkaloid. See Bibirine
Bebel, August, statesman (Socialist), XXII, a 226
Bebendra Náth Tagore, bábu (Brámaj Samáj), IV, b 181
Bebenhausen school (Schelling), XXI, *b* 406; monastery (Tübingen), XXIII, b 640
Bebington, town (Libraries), XIV, b 542
Bèbre river (Allier), I, *b* 515
"Bebung," how produced (Pianoforte), XIX, a 75
Bec, Jean du, biographer (Timur), XXIII, b 426, a 427

Bec, monastery of (Anselm), II, *b* 81; (Lanfranc), XIV, a b 283
Beccafico, bird (Ortolan), XVIII, a 57
BECCAFUMI or Micharino, Domenico, painter, III, b 411; (Siena), XXII, a *b* 44, a b 49
Beccari, Agostino, poet (Pastoral), XVIII, b 350
BECCARIA, Cæsar Bonesana, jurist, III, b 411–2; (Manzoni), XV, a 522; (Mondovì), XVI, b 746; (Political Economy), XIX, a *b* 375; (Torture), XXIII, b 490
BECCARIA, Giovanni Battista, astronomer, III, a 412; (Electricity), VIII, b 7, a 8
BECCLES, town, III, a 412
BECERRA, Gaspar, painter, III, a 412
Béchamp's process (Coal Tar Colors), XVIII, b 901, a 902
Beche, De La, geologist. See DE LA BECHE
BECHE-DE-MER, food, III, a b 412. See Trepang
BECHER, Johann Joachim, chemist, III, b 412; (Chemistry), V, *a* 399
Bechstein, Johann Matthäus, naturalist (Ornithology), XVIII, b 10 note, b 12, a 21
Bechtermunze brothers, printers (Gutenberg), XI, b 300; (Typography), XXIII, b 728, a 729, a 730
BECHWANA or Betjuana, race, III, b 412–3; (Circumcision), V, b 690; (Moffat), XVI, b 566; (Totemism), XXIII, b 497, b 498, a 500; (Transvaal), a 551; (Zululand), XXIV, a b 867; cattle, V, b 214
Beck, Christian Daniel, philologist (Bretschneider), IV, *b* 233
BECK or Beek, David, painter, III, b 413
—— of Durham, bishop (Scotland), XXI, *b* 509
——, Johann Tobias, theologian (Dogmatic), VII, b 291 note, b 292
Becker, Johann August, lawyer (Schopenhauer), XXI, a 476
——, Karl Ferdinand, philologist (Trendelenburg), XXIII, a 577
BECKER, Wilhelm Adolf, archæologist, III, b 413; (Rome), XX, a b 831 notes, a 836 note, b 843 note, a b 854
Becker's balance (Ill.), III, a 227, a b 228
Becket, Gilbert, sheriff (À Becket), I, a 36
Becket, St. Thomas à. See À BECKET
Beckett or Denison, Sir Edmund, lord Grimthorpe (Clocks), VI, a 15, a 17, a b 20, a 21, a 22, b 28, a b 29, b 31, a b 34; (Dome), VII, b 301; (Lock) (Ill.), XIV, a b 756; (St. Albans), XXI, b 164, a 165; (Watch), XXIV, a 419
BECKFORD, William, author, III, b 413–4; (Clementi), V, a 720
——, William, lord mayor (Tooke), XXIII, a 473
Beckley's Anemometer, II, b 24–5
BECKMANN, Johann, historian, III, a 414
Beck's Hydrometer, XII, b 572; illuminator (Microscope) (Ill.), XVI, b 282
Beckwith, Agnes, swimmer (Swimming), XXII, a 810
——, John Charles, general (Waldenses), XXIV, a 346
Becquerel, Alexander Edmond, physicist (Electricity), VIII, a b 89; (Electrolysis), a 105; (Light), XIV, b 607, a 608; (Photography), XVIII, b 847; (Pyrometer), XX, a 138, a b 140
——, Antoine César, physicist (Electricity), VIII, b 12, *a* b 13, b 53, a 54, b 79, a 90; balance of (Galvanometer) (Ill.), X, b 44–5
Becuiba Tallow (Oils), XVII, b 765
Becuma, heroine (Celtic Literature), V, a b 269, a b 280, b 282
Becumen of Catania, soldier (Sicily), XXII, *b* 30
Bed-Copper, VI, a 310
Bed of Streams (Hydromechanics), XII, a 526–9, a 530–2
——. See Beds and Bedstead
Beda. See BEDE
BEDARRIEUX, town, III, a 414
Bed-bug, cimex lectularius (Bug), IV, b 398; (Insects), XIII, a 149, b 159; (Pennsylvania), XVIII, b 513
Bedchamber, officials of the (Royal Household), XXI, a 43
Bedden, town (Nile), XVII, a 519, *a* 521
Bedding plants (Horticulture), XII, a 253, b 269–70
BEDDOES, Thomas, author, III, b 414
BEDDOES, Thomas Lovell, dramatist, III, b 414–5
BEDE or Baeda, historian, III, a 415–6; (Angles), II, a b 28; (Cædmon), IV, *b* 559, a b 560; (Calendar), IV, b 595; (England), VIII, a 243, *a* 244, b 253, a 258; (England, Church of), *b* 332; (English Bible), a 342; (English Language), b 351, 359; (English Literature), a–*b* 360, b 362–3; (Hadrian, Wall of), XI, a 327; (Homily), XII, a 129; (Hymns), a 617; (Ireland), XIII, b 252, b 256, b 361; (Jarrow on Tyne), a 604; (Monachism), XVI, a b 733; (Northumberland), XVII, b 582, a *b* 583, a 584, b 585; (Scotland), XXI, b 495, a 498
Bede's *History, MSS.* (Palæography) (Ill.), XVIII, b 163
Bedeguar gall (Hymenoptera), XII, b 610
Bedel, Pierre, architect (Teruel), XXIII, a 216
BEDELL, William, bishop III, a 416
Bederkesa, lake (Hanover), XI, a 399
BEDFORD, town, III, a b 416, a 417; jail (Bunyan), IV, a b 472
Bedford Hours (Illumination), XII, b 746, b 747
——, George Neville, duke of (Peerage), XVIII, b 477
——, John, duke of, regent (England), VIII, *b* 288; (France), IX, a b 485; (Henry VI., Eng.), XI, *b* 589; (Paris), XVIII, b 296
——, John, registrar (Sea-Laws), XXI, a 612
BEDFORD LEVEL, marsh, III, b 416–7; (Agriculture), I, a b 359; (Cambridge), IV, a b 643; (Cromwell), VI, a 529
—— Square (London), XIV, *b* 861
BEDFORDSHIRE, district, III, a b 417
Bedja, town (Tunis), XXIII, b 660
Bedlam or Bethlehem (Hospital), XII, a 315; (Insanity), XIII, b 116
Bedloe's Island (New York), XVIII, a 470, b 471
Bedmar, Alphonso de la Cueba, marquis (Venice), XXIV, b 158
BEDNOR, town, III, b 417; (Hyder Ali), XII, a 443
BEDOUINS, nomads, III, b 417; (Algeria), I, a 497; (Arabia), II, b 214–7, a b 219, b 221, a 222; (Costume) (Ill.), VI, a b 407; Bedouins (Mesopotamia), XVI, a 54, b 56; (Mohammedanism), a 569 note, a 380, a 582, a 585; (Mosul), a 896; (Ordeal), XVII, b 843; (Palestine), XVIII a b 182; (Persia), a 620, b 621 note; (Semitic Languages), XXI, *b* 683, a 684, a 685; (Sunnites), XXII, a 698; (Syria), *b* 862; industries (Arabia), II, a *b* 213–4; songs of (Mo'allakát), XVI, b 562
Bedplate, horizontal (Steam-Engine), XXII, a b 538
Bedr, battle of, 1623 (Mohammedanism), XVI, b 578–a 579
Bedroom wash-basins (Sewerage), XXI, a 751
Beds, Filter, IX, a b 149; garden (Irrigation), XIII, b 374–5; mineral (Mining) (Ill.), XVI, a 460; rock (Geology), X, a 259–60
Bedsteads (Furniture), IX, b 746
Bedwell, William, orientalist (Tottenham), XXIII, b 506
Bedwork Irrigation, XIII, b 374–5
Bedzin, district (Poland), XIX, *b* 319, a 320
BEE (Ill.), III, b 417–34
- apiary, a 431–3
- cells, b 424–5
- comb, b 422–4
- dangers to, a 430
- early history, a 418
- hive, natural, a 422
- hives, artificial (Ill.), a 420, b 431–2
- instinct, b 421–2
- keeping, a 431, a 433
- length of life, b 428
- metamorphoses, b 426–7
- pasturage, b 430–1
- physiology of, a 419–22
- preparing for winter, a b 428

BEE, *continued*
- queens, a b 427, b 428–30
- reproduction, b 425
- reproductive order of hive, a 418
- sensitive faculties, b 420–1
- swarming, b 427–8, b 433–4

—— (Butterflies), IV, b 530, a 531; (Chili), V, a 542; (Game Laws), X, a 56; (Heraldry), XI, a 626; (Hibernation), XI, a 705; (Hollyhock), XII, a 106; (Honey), XII, b 139, a b 140, a b 141, a b 142; (Huber, F.), *b* 341; (Hymenoptera), *b* 606, *a* b 607, *a b* 608, *a b* 609, a 610, *a b* 611; (Insects), XIII, a, b 148, b 152, a 153, b 154; (Mimicry), XVI, b 354; (Reproduction), XX, b 423
—— culture (Germany), X, b 406; (Hungary), XII, a 378; (Ireland), XIII, b 261, a 262; (Honey), XII, a b 142; (Loire-et-Cher), XIV, a 819; (Loire-Inferieure), XIV, b 817; (Mordvinians), XVI, a 840; (Utrecht), XXIV, b 26; old treatise on (Agriculture), I, a 265
Bee, The, periodical (Anderson, James), II, a 15
BEECH, tree, III, a 434; (Arboriculture), II, *a* 278, a 282; (Botany), IV, b 85, b 86, a 90, a b 91, a 107; (Buckingham), a 373; (Denmark), VII, a 71; (Greece), XI, a 75; (Russia), XXI, a 84; forests (United States), XXIII, a 860; water- or blue-, tree (Hornbeam), XII, a 172
Beecher, Henry Ward, preacher, *b.* 1813; *d.* 1887 (Stowe), XXII, a 930
—— Lyman, divine, *b.* 1775; *d.* 1863 (Temperance), XXIII, b 174
BEECHEY, Frederick William, navigator, III, b 434; (Geography), X, b 172; (Micronesia), XVI, a 267 note; (Polar Regions), XIX, b 331; (San Francisco), XXI, a 275
BEECHEY, SIR WILLIAM, painter, III, b 434
Beeching, James, inventor (Lifeboat), XIV, b 575–6
Beeckman, Isaac, mathematician (Descartes), VII, a 101, a 103
Beef, food (Agriculture), I, a 331, a 347; Australian (Agriculture), a 311; measles of (Tapeworms) (Ill.), XXIII, a 57
Beegerite (Mineralogy), XVI, b 407
Beehive. See Hives
—— huts (Architecture) (Ill.), II, a 336
Be'elthan, writer. See George of Be'elthan
Beek, painter. See BECK
BEELZEBUB, III, b 434–5
Bee-martin (King-bird), XIV, a 83 note
Beer (Adulteration), I, b 156–7; (Austria), III, b 105; (Brewing), IV, *a b* 236, a 245–6; (France), IX, b 460; (Hops), XII, a

Beer, *continued* 160, a 161; (Louvain), XV, a 28; (Milwaukee), XVI, b 352; (Munich), XVII, *b* 32; (Prussia), XX, b 19, b 25; (Scotland), XXI, b 558; (Wine), XXIV, a 636
——, Dob, sectary (Jews), XIII, a 692
——, Wilhelm (Astronomy), II, a b 701, *b* 704
Beerberg, Grosser, mountain (Thuringia), XXIII, a 353
Beerbhoom. See BIRBHUM
Beeri, prince (Hosea), XII, b 311
BEERSHEBA, town, III, b 435; (Palestine), XVIII, a 175, a 177
Beesha (Grasses), XI, *b* 50, a 53
Beesly, Edward Spencer, jurist (International), XIII, a 195
Bees'-wax, (Bleaching), III, a 715; (Wax), XXIV, a b 485
BEET, plant, III, b 435; (Botany), IV, *a* b 78; (France), IX, a 459; (Horticulture), XII, b 290; root spirit (Potassium), XIX, a 606. See Beet Sugar
BEETHOVEN, Ludwig van, composer, III, b 435–7; (Haydn), XI, a b 482, a 483; (Music), XVII, a b 104, a 106, a 107; (Woelfl), XXIV, b 659
BEETLE, III, b 437–8; (Coleoptera) (Plates VI–VIII), VI, b 114-22; (Distribution), VII, b 234; (Insect), XIII, b 147, a 148, b 149, a b 155, a b 156; (Madeira), XV, a 181; (Mimicry), XVI, b 354, a 355; muscle of (Histology), XII, b 10-11
—— Bacon (Coleoptera), VI, b 118; blister (Coleoptera), b 120; Bombardier (Coleoptera), b 117; churchyard (Coleoptera), b 120; click (Coleoptera), a 120; Colorado (Coleoptera), b 121; death-watch (Coleoptera), a 120; diamond (Coleoptera), b 120; diving (Coleoptera), b 117, a 118; dor (Coleoptera), a 119; dung (Coleoptera), a 116, a 119; golden (Coleoptera) (Ill.), b 115, a 121; Goliath (Coleoptera), b 116, b 119; ground (Coleoptera), b 116; harlequin (Coleoptera) (Ill.), a 115, a 121; helmet (Coleoptera), a 121; Hercules (Coleoptera), b 119; lamellicorn (Coleoptera), b 114, a 119; longicorn (Coleoptera), a b 115, b 116, a 121; metallic (Coleoptera), b 116, a 117, a 120; mimic (Coleoptera), a 119; musk (Coleoptera), a 121; oil (Coleoptera), a 115, a 116, b 120, a 122, pill (Coleoptera), a 119; potato (Coleoptera), b 121; sacred, of Egypt (Coleoptera), a 119; sexton (Coleoptera), a 116, a 118; shield (Coleoptera), b 118; springing (Coleoptera), a 120; stag (Coleoptera), a 115, b 116, a 117, a 119; tiger (Coleoptera), a b 115, b 116, a b 117; tortoise (Coleoptera), a 121; typographic (Coleoptera), a 121; water (Coleoptera), a 115, a b 116, b 117, a 118
—— Mite (Ill.), XVI, b 552
—— stones (Coprolites), VI, a 313
Beetling process (Bleaching), III, b 710–1
Beets, Nicholaes, author (Holland), XII, b 101
Beet-Sugar (Achard), I, a 89; (Agriculture), a 288, a 339–40; (France), IX, a 460; (Sugar), XXII, a b 658, a 659-60
Beetz, F. W. H. von, physicist (Electricity), VIII, a *b* 13, *a* 14, b 45, b 47, a–b 50, a b 83, note; (Electrolysis), a 103
Beffroi, tower (Dunkirk), VII, b 469
Befreiungshalle, monument (Ratisbon), XX, a 304
Begarelli, Antonio, sculptor (Correggio), VI, a 387; (Sculpture), XXI, b 596; (Terra-Cotta), XXIII, a 212
BEGAS, Karl, painter, III, a 438
BEGBAZAAR or Beibazaar, town, III, a 438
Begbie heliostat (Heliography), XI, a 565
Beggars. See POOR LAWS
Beggar's Opera (Drama), VII, a 378; (Gay, J.), X, *a* 108
Beggiatoa forms (Schizomycetes) (Ill.), XXI, b 416, a b 418, a 419, a 421, a b 422, b 423, a b 424
BEGHARDS AND BEGUINES, III, a b 438; (Adamites), I, b 129; (Eckart), VII, b 556; (Lollards), XIV, *b* 819, a 821; (Monachism), XVI, a 737; (Mysticism), XVII, b 139, a 140
Begne, Jehan le, MSS. of (Dyeing), VII, b 493
Begonia, plants (Horticulture), XII, b 274; propagation of (Biology), III, b 598
Béguinage of St. Elizabeth (Ghent), X, a 504
Beguines. See BEGHARDS
Behaim, geographer. See BEHEM; (Globe), X, a 607
BEHAR, district, III, b 438; (Bengal), a b 488, b 489; (India), XII, a 786, *b* 787, *a* 793, b 799, a 804, b 806, b 809; (Opium), XVII, a b 812
——, town, III, b 439
Behat, river (Kashmir), XIV, a 12
Behaudin, mathematician (Algebra), I, a 452
BEHBEHAN, town, III, b 439
BEHEM or Behaim, Martin, navigator, III, b 439; (Geography), X, b 162; (Globe), a 607; (Regiomontanus), XX, b 354
Behemoth, animal (Mammoth), XV, a 454 note
Behemoth, treatise (Hobbes), XII, a 41, note
BEHISTUN, Behistan, Bihsutun or Bisutun, mountain, III, b 439–40
—— inscription (Alphabet), I, a 531; (Cambyses), IV, *a* 648, a 649; (Persia), XVIII, b 576, b 678 note, a b 580, b 581
Behm, Ernst, geographer (Population), XIX, a b 528
Behmen, mystic. See BOEHME
BEHN, Aphra, novelist, III, a 440; (Drama), VII, a 377; (English Literature), VIII, a 378
Behrám Sháh (Gypsies), X, a 551; (Ghazni), X, b 501–2; (Seljuks), XXI, *b* 667
Behrens, H., scientist (Opal), XVII, a b 799
Behring Sea (Pacific Ocean), XVIII, a 125; (Seal), XXI, a 610, note; (Siberia), XXII, b 10; (Whale), XXIV, b 552
BEHRING'S ISLAND, III, a 440
—— STRAIT, III, a 440; (America), I, b 588; (Siberia), XXII, b 10, b 17; (Pacific Ocean), XVIII, b 119, b 121; fishery (Whale), XXIV, b 557
Behring or Bering, Vitus, navigator (Behring Strait), III, a 440; (Geography), X, b 170; (Horsens), XII, a 211; (Mammalia), XV, a 394; (Polar Regions), XIX, b 330
Behrisch, E. W., teacher (Goethe), X, a 644, a 656
Beibazaar, town. See BEG BAZAAR
Bei Sechr, river (Isauria), XIII, a 395
Beiden Neffen, opera (Mendelssohn), XVI, *b* 10
Beighton, Henry, inventor (Steam-Engine), XXII, b 492
Beihram, town (Troad), XXIII, a 617
Beilam, river (Afghânistân), I, a 205
Beilan, Pass of (Cilicia), V, b 679
Beilby and Young's ammonia process (Paraffin), XVIII, b 245, a 246
Being, theory of (Hegel), XI, b 552–3; (Logic), XIV, *a* 793; the Great (Comte), VI, a 211, a 212; ideal (Rosmini), XX, a b 876; Malebranche on (Cartesianism), V, b 131–2; universal (Parmenides), XVIII, a b 321–2
BEIRA, province, III, a 440; (Portugal), XIX, a b 551, a 552, *a* 553, b 554, a 555, a 561
—— Mar districts (Brazil), IV, a 203
Beirút or Beyrout, city. See BEYROUT
BEIT EL FAKIH, town, III, b 440
BEJA, city, III, b 440; district (Portugal), XIX, a 552, a 553
Bejapore. See BIJAPUR
BEJAR, town, III, b 440; (Salamanca), XXI, a b 213
Bèjard, family (Molière), XVI, b 647, a 648, b 650, b 652
Beká valley (Syria), XXII, *b* 860, b 861
BEKE, Charles Tilstone, explorer, III, b 440–1; (Abyssinia), I, b 63, a 65, b 66
BÉKÉS, town, III, a 441
Bekevitch, general (Georgia), X, a 389
Bekker, jurist (Roman Law), XX, b 698, note, b 719
BEKKER, Balthazar, theologian, III, a 441; (Holland), XII, b 98; (Witchcraft), XXIV, *b* 656
BEKKER, Elizabeth, novelist, III, a 441
BEKKER, Immanuel, philologist, III, a b 444; (Demosthenes), VII, *b* 65; (Homer), XII, b 118 note, *a* b 125; (Isocrates), XIII, b 403
Bekr, district (Mesopotamia), XVI, a 53
Bektashis, order (Dervish), VII, b 98, note
Bel, Assyrian god (Baal), III, a 152
—— river (Betul), III, b 535
BEL or Belius, Matthias, historian, III, b 441
BELA or Beyla, town, III, b 441
—— I., king of Hungary, XII, a b 382
—— II., king (Hungary), XII, a b 382
—— III., Hungary (Galicia), X, b 24; (Hungary), XII, a b 382
—— IV., king (Hungary), XII, a b 382; (Pesth), XVIII, b 706
——, Ourosh, king (Servia), XXI, a 721
Bélabánya, town (Schemnitz), XXI, b 410
Beládhorí, Ahmed, historian (Mohammedanism), XVI, a 588; (Tabarí), XXIII, b 6, b 7
Belad Soor, district (Arabia), II, b 222
Belalas dynasty (Carnatic), V, a 106
Bel and the Dragon (Apocrypha), II, b 159, a 160
Belaspoor, town. See BILASPUR
Belatha, district (Portugal), XIX, a 556
BELBEIS or Belbeys, town, III, b 441
Belchen, mountain (Baden), III, b 193
Belcher, Sir Edward, explorer (Polar Regions), XIX, a 334
Belebei, town (Ufa), XXIII, b 764
Belecourt, Duchêne du, consul-general (Silk), XXII, b 66
Beled-el-A'neb, town (Bône), IV, a 29
BELEM, town, III, b 441. See LISBON
Belemnites, fossils (Cuttlefish) (Ill.), VI, b 651, a 652, a 653; (Mollusca), XVI, a–b 695
Belesme, Robert of (Henry I.), XI, *a* 585
Belfagor (Machiavelli), XV, b 152
BELFAST, town (Map), III, b 441-3; (Antrim), II, b 125, *a b* 126; (Ireland), XIII, b 242, a 243, *b* 244; (Libraries), XIV, a 523, b 542
—— Lough, III, b 442; (Antrim), II, b 124, b 125, a 126

BELFORT, Béfort or Bedfort, town, III, a b 443; (Rhin, Haut), XX, a 533, note
—— or esh Shukíf, fortress (Galilee), X, a 27
——, Trouée of (Jura), XIII, a 791, a 792
Belfry-tower (Architecture), II, a 404; (Bruges), IV, a 356. See Tower
Belgæ, tribe (Gaul), X, *b* 100; (Holland), XII, a 72; (Huntingdon), a 414
BELGÁM or Belgaum, district, III, b 443
Belgian Army, II, b 537; (Arsenals), a 555
—— Coal-fields, VI, a b 52–3; (Geology), X, a b 310
—— coins (Numismatics), XVII, b 674; economists (Protection), XIX, b 941
—— farmers (Agriculture), I, b 365, a 366, a 367; fault (Geology), X, b 330–1; fishery (Oyster), XIX, b 111, b 114; hare (Rabbit), XX, b 199; learned Societies, XXII, a 236, *a* b 237, a b 238, a b 239, a b 240; Ornithology, XVIII, b 21; process (Zinc), XXIV, b 824; Royal Academy I, b 73; schools, III, a 447–9; (Gymnastics), XI, a 312; spinners (Linen Manufacturers), XIV, a 673
Belgians, people (France), IX, b 465; (Wallons), XXIV, a 352; military character of (Army), II, b 537
Belgic Confession (Canon), V, b 14
—— foot of the Tungri (Weights and Measures), XXIV, a 509, *b* 511, a 512
BELGIUM, sketch map, III, b 443-59
    Academies, museums, libraries etc., b 449–50
    boundaries, b 443–4
    charities, b 450-1
    commercial features, b 453-4
    Education, general, a 447-9
        special, a b 449
    finance, b 453–4
    government, general, b 445–6
        provincial, b 446–7
    history, a 454–9
        early to Napoleon I., a 454–5
        Leopold I., a 456–8
        Leopold II., b 458–9
        London Conferences, a b 456
        Netherland Kingdom, a 455–6
        revolution of 1830, b 455–6
    physical features, a 444-5
    population, a b 445
    productive industries, a b 452
    religion, a 447
    universities, b 448-9
    water-system, b 444–5

—— Coal, VI, b 73; (Concordat), b 215; (Corn Laws), a 366; (Flax), IX, a b 258; (Forests), b 349, *a* 350, a 352; (Foundling Hospitals), a 426; (France), b 532, a 533, a 546; (Friendly Societies), b 688; (Holland), XII, *a b* 86; (International Law), XIII, b 201; (Irrigation), a b 380; (Jesuits), b 666; (Kindergarten), XIV, b 82; (Labor), a 172, a 174; (Libraries), b 530-1, a 551; (Liquor Laws), *b* 695; (Mining), XVI, a 490; (Napoleon I.), XVII, b 205, b 230–1; (National Debt), a 253, 254; (Newspapers), a b 441; (Observatory), a b 735; (Police), XIX, b 356; (Patents), XVIII, b 362, b 363; (Periodicals), b 553: (Press Laws), XIX, a 732; (Prison Discipline), b 777–8; (Railway), XX, b 261; (Suicide), XXII, b 662, *a* b 663, a 664; (Universities), XXIII, a b 906
——, early printing in (Typography), XXIII, a b 729, note; establishment of kingdom of (Palmerston), XVIII, b 198; revolution in (Dalling), VI, b 688
BELGRADE, city, III, a b 459; (Turkey), XXIII, b 683; battle of, 1691 (Turkey), XXIII, a 687; in 1717 (Eugene, Prince), VIII, a 581; siege of, 1456 (Hungary), XII, a 383; treaty, 1739 (Hungary), a 385; (Turkey), XXIII, a 688
Belgrand, engineer (Aqueduct), II, *b* 199, a b 200
Belgrave Square (London), XIV, b 861
Belgravia, district (London), XIV, a 830, b 861
Belhaven, Lord (Agriculture), I, b 268–9
Beliapatam, lagoon (Malabar), XV, *a* 315
Belidor, Bernard Forest de, engineer (Harbors and Docks), XI, a 414, a 422
BELIEF, III, b 459–62
    distinguished from knowledge, b 459–60
    its relation to reality, b 460
    motives to specific persuasions, a 462
    supersensible objects or faith, b 461–2

—— (Hamilton, Sir W.), XI, a *b* 374; (Hume), XII, a b 368, a b 369; (Psychology), XX, b 87–8
Belijoque, town (Venezuela), XXIV, a 152
Belinski, critic (Russia), XXI, b 116
Bélisaire (Marmontel), XV, a 566
BELISARIUS, general, III, a 462; (Justinian I.), XIII, a *b* 806; (Milan), XVI, b 304; (Naples), XVII, a 198; (Narses), *a b* 239; (Persia), XVIII, b 622; (Procopius), XIX, b 810, *a* 811, a 812; (Ravenna), XX, a 310; (Scotland), XXI, a 495; (Sicily), XXII, *a* 28; (Vandals), XXIV, b 65, *a* 66
Belius, historian. See BEL
BELIZE, city, III, b 462–3; (Honduras, British), XII, a b 136, *a b* 137
Belka, district (Palestine), XVIII, a 177, a 182
Belknap, Captain (Sounding), XXII, a 295
BELKNAP, Jeremy, historian, III, a 463
BELL, implement, III, a 463–6; (Burmah), IV, a 495; (Campanile), b 665; (Clocks), VI, a b 29, a 30, b 35; (Lyons), XV, b 112; (Malta), XV, a 343; (Moscow), XVI, a 884; (Nara), XVII, a 236
——, Baptism of, III, a 304; buoys (Lighthouse), XIV, b 632; cathedral (Sens), XXI, b 697; Founding, IX, b 424; St. George's (Horse), XII, b 203-4; St. Patrick's (Filigree), IX, a 144; Sanctus (Architecture), II, a 408, a 416; ship's (Seamanship), XXI, b 632, b 635; tower (Pekin), XVIII, b 480–1; turrets (Architecture), II, a 404
Bell, The (Hertzen), XI, *b* 691
Bell, Alexander Graham, inventor (Telephone), XXIII, a 137, b 138, a b 139, *b* 140 a *b* 930, *a* 932
——, Alexander Melville, teacher (Alphabet), I, b 534; (Deaf and Dumb), VII, b 10, note; (Speech Sounds), XXII, *b* 396, a b 399, b 404, *a* 405
BELL, Andrew, educator, III, a 466; (Lancaster), XIV, *a* 259
——, Andrew, printer (Encyclopædia), VIII, *a b* 182, *a* 183
BELL, Sir Charles, physician, III, a 466–7; (Anatomy), I, b 716; (Hunter, J.), XII, a b 403, note, a 407 note; (Physiognomy), XIX, *a* b 9
——, Currer, pseudonym. See BRONTE
——, Francis Jeffrey, zoologist (Crustacea), VI, b 577, note; (Ornithology), XVIII, a 33, a 43 note
BELL, George Joseph, jurist, III, a 467–8
BELL, Henry, engineer, III, a 468; (Dumbarton), VII, a 453; (Steam-Engine), XXII, à 496
——, H. C. P. (Maldive Islands), XV, b 334
BELL, Henry Glassford, poet, III, a b 468
——, I. Lowthian, metallurgist (Iron), XIII, a b 286, b 302, b 303, a b 304, b 307, a 317, b 318, b 319, a 320 note, *a* b 321, b 322, a 324, a b 334; refining process of (Iron), a 357
BELL, John, politician (United States), XXIII, b 836
BELL, John, surgeon, III, *a* b 468, b 469
BELL, John, traveller, III, b 468
——, Patrick, inventor (Agriculture), I, a b 287
BELL, Robert, journalist, III, b 468–9
——, Zephaniah, painter (Fresco), IX, a 681
Bella, Dalla (Magnetism), XV, a 238
BELLA, Stefano de la, engraver, III, a 469
BELLADONNA, plant, III, a 469; (Narcotics), XVII, a b 237, 238, a 239; (Oils), XVII, a 765; (Poisons), XIX, a 291
—— Lily, flower (Horticulture), XII, a 257
BELLAI or Bellay, Guillaume du, general, III, a 469
Bellamar, caves of (Matanzas), XV, a 631
BELLAMY, Jacobus, poet, III, a b 469; (Holland), XII, b 99
BELLARMINE, Robert Francis Romulus, cardinal, III, b 469; (Andrewes), II, a 21; (Cardinal), V, *b* 85; (Catechism), b 191; (Galileo), X, a *b* 30, b 31; (Jesuits), XIII, a 659; Jug (Pottery and Porcelain), XIX, a 651
Bellary, town. See Ballárí
Bellás, town (Egypt), VII, b 673
Bellavitis, Giusto, mathematician (Quarternions), XX, a 170; (Tables), XXIII, b 19
Bellay, general. See Bellai
Bellay, Jean du, cardinal (Rabelais), XX, a b 200, *b* 201, a 202; (Trappist), XXIII, a 556
BELLAY, Joachim du, poet, III, b 469; (Drama), VII, b 365; (Rabelais), XX, *b* 202; (Ronsard), *b* 863, a b 864
Bell, book and candle (Excommunication), VIII, b 699
Bell-bird (Honey-eater), XII, a 143
"Bell the Cat," sobriquet (Scotland), XXI, b 517
Bell-Coleman process (Preserved Food), XIX, b 728
Belle Ferronnière (Leonardo), XIV, a b 459, b 461
Belle Fourche valley (United States), XXIII, *a* 848
Belle Helène, La (Romance), XX, a 676
BELLEAU, Remy, poet, III, b 470; (Drama), VII, b 366, note; (France), IX, b 572; (Pastoral), XVIII, b 350, a 351; (Ronsard), XX, b 863, b 864
Belledi, spice (Ginger), X, b 538
Belleforest, François de, romancist (Hamlet), XI, b 379
Bellegambe, Jean, painter (Douai), VII, a 325
Bellegarde, town (Rhone), XX, b 542
Belle Isle, marquis. See FOUQUET
——, Charles Louis Auguste Fouquet, Comte de, marshal (France), IX, a b 516
——, battle of, 1759 (Hawke), XI, a b 478
BELLE-ISLE-EN-MER, III, a 470
BELLENDEN, John, poet, III, b 470; (Boece), III, *a* 739
BELLENDEN, WILLIAM, classicist, III, b 470-1; (Middleton), XVI, b 294
Bellenz, town. See BELLINZONA
Belleperche, Gaultier de, poet (Romance), XX, a 657
BELLEROPHON, legendary hero, III, a 471; (Homer), XII, a 116; (Pegasus), XVIII, a 479

Belles Lettres Academies, I, b 71–3
Bellesme, Jousset de, naturalist (Insects), XIII, b 149
——, Roger de, earl of Shrewsbury (Horse), XII, a 185
BELLEVILLE, city of, Illinois, III, b 471
Bellevue Castle (Cassel), V, a 160
—— settlement (Nebraska), XVII, b 318, a 319
Bellew, naturalist (Afghânistân), I, b 208, note, a 209, b 210, a 214
BELLEY, city, III, b 471
Bell-flower (Botany), IV, a 113
——-heath or Erica (Botany), IV, b 120
Belligerent rights (Contraband), VI, b 284; (International Law), XIII, a 200, a 201
Bellingham, Sir Edward, viceroy (Ireland), XIII, a b 269
——, John, assassin (Perceval), XVIII, b 532
BELLINI, Gentile, painter, III, a 472; (Titian), XXIII, a 441; (Venice), XXIV, a 164, note
BELLINI, Giovanni, painter, III, b 472; (Dürer), VII, a 481; (Giorgione), X, a *b* 543, *a* 543; (Schools of Painting) (Ill.), XXI, a *b* 454, b 455, *b* 462, a 465, a b 467; (Titian), XXIII, a b 441; (Venice), XXIV, b 166, note
BELLINI, Jacopo, painter, III, b 471–2; (Mantegna), XV, b 508
BELLINI, Lorenzo, physician, III, a 473
BELLINI, Vincenzo, composer, III, a b 473; (Donizetti), V, a 315; (Music), XVII, a 106
BELLINZONA or Bellenz, town, III, b 473; (Switzerland), XXII, b 815, b 816, *b* 824, a 828; (Ticino), XXIII, *b* 373, a 374
Bellis, plants (Horticulture), XII, b 257
BELLMAN, Karl Mikael, poet, III, b 473–4; (Sweden), XXII, b 794, *a* b 795
Bell-metal (Bell), III, b 463; (Bronze), IV, a b 330; (Copper), VI, b 311; (India), XII, b 801; (Mineralogy), XVI, a 409
Bellmouth coefficients (Hydromechanics), XII, a 484
Belloguet, Roget de, baron de, philologist (Celtic Literature), V, b 258, a 260, a 283; (Gaul), X, a b 101
Bellomont, Lord, governor, (New York), XVII, a 467
BELLONA, myth, III, a 474
Bellonarii, priests (Bellona), III, a 474
Belloni, Girolamo, publicist (Political Economy), XIX, a 375
Bellonius, naturalist. See BELON
BELLOT, Joseph René, explorer, III, a 474; (Polar Regions), XIX, b 333
Bellori, Giovanni Pietro, biographer (Van Dyck), XXIV, *b* 67, a 68, b 70, a 71
Bellovacensis. See VINCENT OF BEAUVAIS
Bellovaci, tribe (Paris), XVIII, b 292
Bellovesus, king (Milan), XVI, b 304
BELLOWS and BLOWING MACHINE (Ill.), III, a 474–7; (Blowpipe), b 729; (Organ), XVII, a 861; (Metallurgy), XVI, a b 65; Indian (Iron), XIII, b 352; primitive (Iron), *b* 296
Bellows, Henry Whitney, divine (Sanitary Commission), XXI, *b* 900, b 903; (Unitarianism), XXIII, b 774, note
—— fish (Ichthyology), XII, b 729
Bell pepper (Cayenne Pepper), V, a 244
—— Rock (Lighthouse) (Plate VII), XIV, a b 621, *a* 623, b 636
Bells of Lynn (Longfellow), XIV, b 872
—— *of Shandon* (Mahony), XV, a 291
Bell's Palsy (Paralysis), XVIII, b 261
—— puddling process (Iron), XIII, a b 334
—— reaper (Agriculture), I, a b 287
Bells, ships', defined (Seamanship), XXI, b 632, b 635
Bell Telephone, XXIII, a 141–2; (Patents), XVIII, b 883
Bellum Perusinum (Propertius), XIX, a 834
Bellue, order (Zoology), XXIV, a 844
BELLUNO, city, III, a 477
——, duke of. See VICTOR
Bell ventilating machine (Coal), VI, b 66
Bellville, English colony (Argentine Rep.), II, b 434
Belly, Caspar Robbles de, engineer (Harlingen), XI, b 429
Belmez and Espiel basin (Coal), VI, a 55
Belmont, battle of, 1861 (United States), XXIII, b 837
Belmonte, river (Brazil), IV, b 199, b 201
Belodon, fossil (Reptiles), XX, b 478
Belomancy, divination (Magic), XV, b 202
BELON or Bellonius, Pierre, naturalist, III, a 477; (Ichthyology), XII, a 667; (Morphology), XVI, a 864; (Ornithology), XVIII, b 7, a 8; (Toucan), XXIII, b 506; (Turkey), a 700
Belone, genus (Gar-fish), X, a b 72
Beloochistan, country. See BALUCHISTÁN
Belostoma, bugs (Hemiptera), XI, b 576
BELPASSO, town, III, b 477
BELPER, town, III, b 477
Belper, Edward Strutt, Lord, manufacturer (Hosiery), XII, a 313
BELSHAM, Thomas, apologist, III, b 477
BELSHAM, William, politician, III, b 477
BELSHAZZAR, king, III, b 477–8; (Daniel), VI, b 707, *a* 708
Belshazzar, poem (Milman, H. H.), XVI, b 335
Belshazzar's Feast, painting (Martin, John), XV, b 589
Belt in machinery. See Belting and Belts
——, armor (Navy), XVII, a b 293
BELT, Great and Little, straits, III, a 478; (Baltic), b 253, a 256
——, hip- (Costume), VI, a *b* 414
BELTANE, Beltaine or Beltein, festival, III, a 478; (Ireland), XIII, b 250
Belting (India-rubber), XII, *a* 883; advantages of (Patents), XVIII, b 880
Beltirs, people (Samoyedes), XXI, b 263, a 264
Belts, connecting (Mechanics), XV, b 769, *a* b 770; friction of (Mechanics), a b 777
Belturbet, village (Cavan), V, *b* 229, *a* 230
Beltz, antiquarian (Knighthood), XIV, *b* 123, a 124
Beluga, cetacean (Mammalia), XV, b 376, a 402, a b 403; (Porpoise), XIX, b 536; (Whale), XXIV, b 554
Belunum, town. See BELLUNO
Belur-tagh mountains (Scythia), XXI, b 602
Belvacensis, encyclopædist. See VINCENT OF BEAUVAIS
BELVEDERE, town, III, a 478
—— APOLLO, statue (Apollo), II, b 163
—— Palace, gallery (Vienna), XXIV, *b* 238
BELZONI, Giovanni Battista, explorer, III, a b 478; (Egypt), VII, a 671, a 678
Bem, Joseph, Polish general (Austria), III, *b* 119; (Hungary), XII, *a b* 387
Bema (Architecture), II, b 404; the (Athens), III, b 4, a 5
—— feast (Manichæism), XV, a 492
Beman, S. S., architect (Pullman), XX, b 890
Bémaràha, mountain range (Madagascar), XV, b 169
Bemba Lake (Africa), I, b 222, a 229; (Livingstone), XIV, a b 728; (Zaire), XXIV, *b* 801
Bémbatòka bay (Madagascar), XV, a b 169
Bembe, town (Congo), VI, a b 237
BEMBO, Pietro, cardinal, III, b 478; (Provençal Language), XIX, b 893
Bemiss, S. M., physician (Deaf and Dumb), VII, a b 6
Benacus, lake (Garda), X, a b 68
BENARES, district, III, b 478–9; town, a 479; (Architecture), II, a b 348; (Buddhism), IV, b 381, b 383; (Opium), XVII, a 812, b 814; Kabir chaura, at (Hindustani), XI, a 754
Ben Attow, mountain (Ross Co.), XXI, a 877
BENAVENTE, town, III, a 480
——, Luis Quiñones, author (Spain), XXII, a 373
Benbecula, island (Hebrides), XI, a 542
BENBOW, John, admiral, III, a 480
Benbulbin, mountain (Sligo), XXII, b 168
BENCH or Banc, law-term, III, a 480; Warrants, XXIV, a 392
BENCHERS, officials, III, b 480; (Barristers), *a* b 340; (Inns of Court), XII, a 94
Bencleuch, mountain (Clackmann), V, a 697
BENCOOLEN or Benkulen, town, III, b 480; (Sumatra), XXII, a 672, a 673, a *b* 674
Bend, the (Heraldry), XI, a b 619, b 630
BENDER, town, III, b 480; district (Bessarabia), b 531, a 532
BENDER-ABBASI, town, III, b 480–1
—— Eregli, town (Heraclea Pontica), XI, a 607
Bending (Mechanics), XV, a 751; moment (Bridges) (Ill.), IV, b 258–62; of loaded chain (Bridges), b 270; stress (Strength of Materials), XXII, a b 635–6
Bend-i-Núh or Noah's Hill, range (Kúrdistán), XIV, a 157, note
Bends, water pipe (Hydromechanics), XII, b 512
Benedek, Ludwig von, general (Austria), III, *a* b 122; (War), XXIV, *a* 373
Beneden, Edward van, anatomist (Parasitism), XVIII, a 263, b 264, b 265; (Periodicals), b 553; (Tunicata), XXIII, a 648, b 649 note, b 650, b 658
Beneden, Pierre Joseph van, anatomist (Arachnida), II, *b* 242; (Arthropoda), a *b* 566; (Hydrozoa), XII, a *b* 588 note; (Reproduction), XX, b 420, a b 428, *a* b 429, *a* 430, a 435; (Tape-worms), XXIII, b 57; (Trematoda), a 569, b 571, *a b* 573, *a* 575; (Tunicata), b 647
Benedetti of Todi, poet. See Jacopone
Benedetto, Carissimus, senator (Rome), XX, b 812
—— of Florence, sculptor (Windsor), XXIV, a 633
Benedicite (Hymns), XII, a 616, a b 624, b 625
BENEDICT I., pope, III, a 482
—— II., pope, III, a 482
—— III., pope, III, a 482
—— IV., pope, III, a 482
—— V., pope, III, a 482; (Popedom), XIX, a 512, a 524; (Rome), XX, b 806
—— VI., pope, III, a 482; (Rome), XX, a b 807
—— VII., pope, III, a 482
—— VIII., pope, III, a 482; (Rome), XX, *a* 808
—— IX., pope, III, a 482; (Popedom), XIX, a b 512, a 524; (Rome), XX, b 808
—— X., pope, III, a 482; (Rome), XX, b 808
—— XI., pope, III, a 482; (Giotto), X, b 544

BENEDICT XII., pope, III, a 482; (Marignolli), XV, a 550; (Rome), XX, *a* 817
—— XIII., III, a b 482; (Carmelites), V, a 103; (Carnival), a 108; (Episcopacy), VIII, b 436; (Popedom), XIX, b 516, b 524
—— XIII., antipope (Rome), XX, a 820, a 821
—— XIV., pope, III, b 482; (Amphitheatre), I, a 680; (Canonization), V, b 22; (Capuchins), b 71; (Carnival), a 108; (Clemens Alexandrinus), b 717; (Jesuits), XIII, b 662, a b 665; (Monachism), XVI, a 740; (Popedom), XIX, b 521, b 524; (Roman Catholic Church), XX, b 645
BENEDICT of Nursia, St., monk, III, a 481-2; (Abbey), I, a 18; (Hymns), XII, *a* 616; (Monachism), XVI, b 729, a 730, b 732; (Monte Cassino), b 804
——, rule of (Abbot), I, a 18, b 28, a 29; (Monachism), XVI, a 730, b 731
—— of Amane, St. (Monachism), XVI, b 733, a 734; (Slavery), XXII, a 145
—— Biscop of Wearmouth, abbot (Bede), III, a 415; (Bell), a 463; (Books), IV, a 35; (English Literature), VIII, b 362; (Glass), X, a 582; (Sunderland), XXII, b 691, a 692
—— di Rhegio, monk (Stigmatization) XXII, a 578
—— of St. André, monk (Romance), XX, b 666
Benedictine monasteries (Abbey), I, a 18-21; (Cloister), IV, b 35; (Libraries), XIV, b 513
Benedictines, monks, III, b 481-2; (Dunstan), VII, b 472; (France), IX, b 468, b 590; (Fulda), *b* 713; (Hirschau), XII, a 3; (Malmesbury), XV, a 339; (Maurus, St.), b 648, a 649; (Medicine), *a* 816; (Monachism), XVI, a 730-b 732, a b 741, b 742; erudition of (Monachism), a 732, b 733, a 739; Latin MSS. (Palæography), XVIII, b 169
Benediction, sacerdotal (Targum), XXIII, a 68, note
Benedictional, service book (Liturgy), XIV, b 715
Benedictus Deus, bull (Roman Catholic Church), XX, b 645
Benedictus Levita, collection of (Canon Law), V, b 17, note
—— Polonus, friar (Carpini), V, b 116, a 117
Benee-Hasan, grottoes of (Egypt), VII, b 636, a 672
—— -Suweyf, town (Egypt), VII, a 671
BENEFICE, III, b 482-3; (Advowson), I, b 162; (Dilapidations), VII, a 209; (Feudalism), IX, b 106; Norman (England), VIII, a 269; (Quare Impedit), XX, a 165; (Vicar), XXIV, a b 226. See SIMONY
Beneficial Acts (Statute), XXII, b 486, a 487
—— Societies (Friendly Societies), IX, a 685-9; (Grenoble), XI, b 165; (Registration), XX, a 357; (Trade Unions), XXIII, a *b* 533; (Workingmen in U. S.), XXIV, b 919-20
—— Building Societies, IV, a 460; (Workingmen in U. S.), XXIV, a 918, b 920
——, mediæval (Guild), XI, a b 231, a 232, engineers' (Trade Unions), XXIII, b 532, a 533
BENEFIT OF CLERGY, V, a 723; (England), VIII, a 334; (Women), XXIV, b 673 note, b 675 note
Benefizio di Cristo (Paleario), XVIII, a 172
BENEKE, Friedrich Eduard, psychologist, III, b 483-4; (Belief), a 461; (Brown, Thos.), IV, b 349; (Schopenhauer), XXI, b 473
Benemé, tribes (Indians), XII, b 866
Benevento, duchy (Lombards), XIV, b 823, b 824; (Samnites), XXI, b 261; (States of the Church), XXII, *b* 477
BENEVENTO, city, III, b 484-5
——, Prince of. See TALLEYRAND
Beneventum, battle of, 275 B.C. (Rome), XX, a 763
Benevolence, disposition (Cumberland), VI, a 620; (Hutcheson), XII, b 425
——, organ of (Phrenology), XVIII, b 859; theory of (Schopenhauer), XXI, a 473
Benevolences, euphemism for tax (Convocation), VI, a 289, a 291; (Finance), IX, b 155
Benezet, Anthony, philanthropist (Rush), XXI, b 68; (Slavery), XXII, *b* 147
Benezet, St., monk (Bridges), IV, b 297, a 298
Benfey, Theodor, linguist (Jews), XIII, b 692; (Philology), XVIII, a b 795, note, b 797 note, a 798 note; (Sanskrit), XXI, b 286, b 290 note, a 301 note; (Semitic Languages), a 675 note; (Tales), XXIII, b 33
BENGAL, presidency (Map), III, a 485-92
  crops of, a 490-1
  divisions of, b 488-90
  government of, b 487-8
  history of, a 491-2
  people of, a 486
  religions of, b 486-7
  rivers of, b 485-6
  topographical features, a b 485
  trade of, a 491
—— (Clive), VI, b 9, a 10-3; (Coal), b 55-6; (Gunny), XI, a 282; (Hastings), a b 458, a b 459; (India), XII, b 770, a 771, b 774, b 777, b 780, a 781, a b 782, a *b* 783, *a* b 784, a *b* 785, a *b* 786, *a* b 787, a 788, *b* 789, *a* 790, *a* 793, b 794, *a* 795, a b 797, a *b* 798, a 799, *b* 800, b 802, a 804, a b 809, a 811, 813, b 814, a b 815; (Indigo), a b 884; (Jute), XIII, b 808, b 809; (Opium), XVII, a b 812-3; (Rennel), XX, *a* 411; (Weights and Measures), XXIV, *a b* 518
——, acquisition of (India), XII, a 840-2; Army, II, a 516, b 518
—— *Atlas* (Rennell), XX, b 411-12
——, Bay of (India), XII, a 774, a 777; (Indian Ocean), a 860, *a b* 861; winds of (Asia), II, *a* 603
——, dynasties (Gaur), X, *b* 101-2; Gram, XI, b 33; lights (Pyrotechny), XX, a 142; ports (Hooghly), XII, b 150
Bengalee or Bengali Era (Chronology), V, b 624; Dictionaries, VII, b 165
Bengawan or Solo, river (Java), XIII, b 611
BENGAZI, town, III, b 492-3; (Africa), I, a 238; (Barca), III, *a* 316; (Tripoli), XXIII, a 612
BENGEL, John Albert, commentator, III, a 493-4
Ben Gerson, philosopher. See GERSONIDES
Bengesco, Georges, diplomatist (Voltaire), XXIV, b 313
Bengkalis, island (Sumatra), XXII, a 673
BENGUELA, territory and town, III, a b 494; (Africa), I, a 225, a 228, a 241
Benhadad, kings of Damascus (Hadad), XI, *b* 322; (Israel), XIII, *b* 416-7
Ben Hope, mountain (Sutherland), XXII, a 764
Beni or Veni, department (Bolivia), IV, *a* 11, a b 14, a 15
Beni Hassen tombs (Architecture), II, *a* b 340, b 342, a 343
BENICARLO, city, III, b 494
Beni-Casi family (Spain), XXII, b 327
Benicia, town (San Francisco), XXI, b 274
Beniczky, Peter, poet (Hungary), XII, b 391
Beni Israel, India (Jews), XIII, b 695; (Kolába) XIV, b 137
—— -Lám, tribe (Khúzistán), XIV, a 70; (Mesopotamia), XVI, b 56
BENIN, territory, III, b 494; river, a 495; city, b 494
Benincasa. See CATHERINE OF SIENA
Benivieni, Girolamo, poet (Italy), XIII, b 518
BENJAMIN, patriarch, III, a 495
——, tribe, III, a 495; (Genealogy), X, b 127 note; (Israel), XIII, a b 413, a b 414; (Judges), XIII, b 774; (Palestine), XVIII, b 179, b 180
—— of Edessa, bishop (Syriac Literature), XXII, b 883 note
——, Judah P., jurist (Sale), XXI, b 218, a 220
——, S. G. W., author (Turquoise), XXIII, a 712
BENJAMIN OF TUDELA, traveller, III, a b 495; (Geography), X, b 159; (Giles, St.), b 531
Ben Klibreck, mountain (Sutherland), XXII, a 764
Benculen, town. See BENCOOLEN
Ben Lawers, mountain (Perth), XVIII, b 378
—— Ledi, mountain (Scotland), XXI, a 545
—— Lomond, mountain (Stirling), XXII, a 581; in Tasmania, XXIII, b 78, b 79, a 80
—— Loyal, mountain and loch (Sutherland), XXII, a b 764
—— Macdui or Muichdhui, mountain (Aberdeenshire), I, b 46; (Scotland), XXI, b 547
—— More, mountain (Lewis and Harris), XIV, a 492; (Mull), XVII, a b 22
—— More Assynt, mountain (Sutherland), XXII, a 764
BENNET, Henry, Lord Arlington, III, b 495; (Post-Office), XIX, a 580
——, J. J. of British Museum (Brown), IV, b 347
Bennet's doubler (Electricity), VIII, b 95
—— gold leaf electroscope (Electrometer), VIII, b 111
BENNETT, James Gordon, journalist, III, b 495; (American Journalism), XVII, a 884; (Greeley), XI, b 143; (Newspapers), XVII, a 446
——, James Gordon, Jr., journalist (Polar Regions), XIX, a 338
BENNETT, John Hughes, physician, III, a 496; (Homœopathy), XII, a 132; (Surgery), XXII, *a* 725
——, Philip, monk (Drogheda), VII, b 406
BENNETT, Sir William Sterndale, composer, III, a 496; (Music), XVII, b 104, a 107
Bennett's process, C. (Photography), XVIII, b 841, a 842
Benneville, George de, physician (Universalists), XXIII, a 886, b 951
Ben Nevis, mountain (Inverness), XIII, a b 205; (Meteorology), XVI, b 142, a 143
Benningsen, Bentlin Levin Augustine Theophilus, count de, marshal (Russia), XXI, *b* 108
Bennington, town (Vermont), XXIV, b 181, b 182; battle of, 1777 (Stark), XXII, b 920
Benno of Meissen, bishop (Saxony), XXI, b 368
Bennu, Egyptian name (Phœnix), XVIII, a 824
Ben Nut, XVII, a 683; Oil of, XVII, a 765, b 766
Benoît de Saint-More, poet (Italy), XII, a b 509; (Romance), XX, a *b* 654, a 655
—— le Borgne, count. See Boigne
Benozzo, painter. See GOZZOLI
Benrath, biographer of Ochino, XVII, *b* 740
——, H. E., chemist (Glass), X, *a* 592, b 595
Ben Rinnes, mountains (Banffshire), III, a b 269
—— Ronastel, mountain (Islay), XIII, b 397

Bensch's process (Lactic Acid), XIV, a 197
Benseler, G. E., hellenist (Isocrates), XIII, b 403
BENSERADE, Isaac de, poet, III, b 496
Ben Slioch, mountain (Ross), XX, a 877
BENSON, George, theologian, III, b 496
Bentall's plough (Agriculture), I, a 278
Benteng, town (Saleiyer), XXI, a 220
Bent-grass (Agriculture), I, a 361
Bentham, George, botanist (Botany), IV, b 71–2; (Camellia), IV, a 653; (Distribution), VII, *a* *b* 249, *a* b 250, *b* 251, *a* *b* 252; (Grasses), XI, *b* 49, b 51, a b 52, a *b* 53
BENTHAM, Jeremy, III, b 496–8
    biography, b 496
    his character, a b 497
    political science, a 498
    utilitarianism of, b 497

——(Blackstone), III, b 695, b 696; (Bowring), IV, a b 164; (Brazil), a 213; (Code), VI, b 96, *a* 97; (Duel), VII, b 444; (Dumont), a *b* 457; (Ethics), VIII, a 533–4, *b* 535; (Evidence), *a* b 648; (Fictions), IX, a 123, note; (Grote), XI, a 190; (Hutcheson), XII, b 425; (International Law), XIII, a 197 note, a 203; (Law), XIV, b 364, a b 366; (Mill, James), XVI, a b 319; (Mill, John Stuart), b 321; (Police), XIX, b 348, b 355, a b 357; (Political Economy), b 333–4; (Prison Discipline), a 768; (Psychology), XX, a 76; (Savigny), XXI, *a* 342; (Savings Banks), b 342; (Torture), XXIII, b 490; (Usury), XXIV, a 24
——, Sir Samuel, engineer (Harbors and Docks), XI, a b 421
Bentinck. See dukes of PORTLAND
——, William Charles Cavendish, Lord, governor (India), XII, b 845–6; (Tea), XXIII, b 105
BENTINCK, William George Frederick Cavendish, Lord, statesman, III, a b 498
BENTIVOGLIO, Giovanni, usurper, III, b 498
BENTIVOGLIO, Guido, cardinal, III, b 498
Bentkowski, Felix, historian (Poland), XIX, a 317
BENTLEY, Richard, classicist, III, a 499–501; (Æsop), I, *a* 191; (Atterbury), III, a b 49; (Babrias), b 157; (Collins), VI, b 132; (Cumberland, R.), b 620, a b 621; (English Literature), VIII, a 381; (Latin Language), XIV, a 343; (Middleton, Conyers), XVI, a–b 294; (Mill, John), b 320; (Newton), XVII, a 459; (Phalaris), XVIII, a 744; (Pope), XIX, a 501; (Wetstein), XXIV, *b* 548, a 549
——, Richard 2d, critic, III, a 500
——, Thomas, manufacturer (Wedgewood), XXIV, b 503
Bentley's Magazine (Leech, J.), XIV, a 406; *Miscellany* (Periodicals), XVIII, a b 548
BENTON, Thomas Hart, senator (United States), XXIII, a 813, b 836
Benue river (Adamawa), I, a 129; (Africa), a b 225, *a* b 227, a 243; (Niger), XVII, a *b* 510, *a* *b* 511
Ben Varn, mountain (Islay), XIII, b 397
Benvoglienti, Ulberto, historian (Siena), XXII, a 49
Ben Voirlich, mountain (Dumbarton), VII, b 452
—— Wyvis, mountain (Ross Co.), XX, a 877
Benyevenagh, mountain (London), XIV, a 863
Benzelius, Eric 2d, archbishop (Scandinavian Languages), XXI, b 390
Benzelstjerna-Engeström library (Libraries), XIV, b 531
Benzene, hydrocarbon (Chemistry), V, a 479; (Coal Tar Colors), XVIII, b 899, a b 900, a 901; (Petroleum), a 890, a 891; (Tar), XXIII, *b* 63, b 64, a 65; molecule of (Chemistry), V, b 474
Benzenes (Chemistry), V, b 485–7
Benzert, town. See BIZERTA
Benzoate of soda, drug (Vesical Diseases), XXIV, b 204
BENZOIC ACID, III, a 501; (Benzoin), *b* 501; (Chemistry), V, a 495
BENZOIN, gum, III, b 501; (Incense), XII, a 757, b 758, a 760
Benzol, hydrocarbon (Coal Tar Colors), XVIII, a b 900, a b 901; (Gas and Gas-lighting), X, a 81, *a* b 91; (Paraffin), XVIII, b 241, a b 242; (Phthalic Acid), XVIII, a 869; (Tar), XXIII, *b* 63, b 64, a 65
Benzoni, Geronimo, traveller (Tobacco), XXIII, a 451
Benzoyl (Liebig), XIV, b 569; (Wöhler), XXIV, b 660
Benzyl amine series (Chemistry), V, b 499–500
Benzylic alcohols (Chemistry), V, a 489
Beolco, Angelo Ruzzante, poet (Drama), VII, b 361
Beorn, earl (Harold II.), XI, *b* 434
Beöthy, Ladislaus, novelist (Hungary), XII, b 394
——, Zoltán, novelist (Hungary), XII, b 394
BEOWULF, the Saga of, III, b 501; (Accent), I, a 78; (Barrows), III, a 344; (English Language), VIII, a b 351; (English Literature), b 360, a b 361; (Minstrel), XVI, a 502
Bequests, laws relating to (Charities), V, b 348
Bera, Gothic count (Spain), XXII, *a* 326
Berakhoth, translations of (Talmud), XXIII, a 43
Béranger, Jean Pierre, historian (Switzerland), XXII, b 837
BÉRANGER, Pierre Jean de, poet, III, a 502–3; (France), IX, b 593–4
BERAR, district, III, a 503–4; (Coal), VI, a 56; (Hyderabad), XII, b 443; (India), b 782, b 789, b 791; (Wellington), XXIV, *b* 522, a 523
BÉRARD, Frédéric, psychologist, III, b 504
Berard process (Alum), I, a 569; (Iron), XIII, b 358–9
Berardi, Angelo, writer (Music), XVII, a 94
——, Juonato, merchant (Vespucci), XXIV, b 208
Berardius, genus (Mammalia), XV, b 376, a 401
Beraud, Thomas, master (Templars), XXIII, a 181
Berâuna; people (Fezzan), IX, a b 114
Beraunite (Mineralogy), XVI, b 422
Berbegal, Philip, friar (Franciscans), IX, b 615
BERBER or El-Mecheref, town, III, b 504; (Nile), XVII, a 521
BERBERA, town, III, b 504; (Adel), I, a 138; (Africa), b 242; (Somali), XXII, b 269; fair (Myrrh), XVII, b 128
Berberines, race (Africa), I, b 233
Berber or Libyan Language (Dictionaries), VII, b 167; (Philology), XVIII, a 792; (Semitic Languages), XXI, *b* 674, a 675
Berbers, race (Africa), I, a 233, a 234, a 240; (Algeria), a 497; (Iberians), XII, b 640; (Kabyles), XIII, b 823; (Mohammedanism), XVI, a b 598; (Morocco), a 860, a 861; (Nubia), XVII, b 626; (Religions), XX, b 374–5; (Sahara), XXI, b 159; (Soudan), XXII, b 291, *a* 292; (Spain), a b 325, *b* 329, *a* b 330; (Tunis), XXIII, a b 660
BERBICE, district, III, b 504; (Guiana), XI, a b 221, a 223; river (Guiana), a 222
Berceo, poet. See GONZALO DE BERCEO
"Berceau des Enfans de la France" (Montargis), XVI, b 803
BERCHEM or Berghem, Nicholas, painter, III, b 504
Berchorius, Petrus, monk (Encyclopædia), VIII, a 176
BERCHTESGADEN or Berchtolsgaden, town, III, b 504–5
Bercsényi, Belá, dramatist (Hungary), XII, a 394
Berdáni, river (Lebanon), XIV, b 393
BERDIANSK or Berdyansk, town, III, a 505; (Tawrida), XXIII, a 90
BERDICHEFF, town, III, a 505
Bere or bigg, barley (Agriculture), I, b 319; (Barley), III, b 324–5; (Brewing), IV, b 237, a 239, *b* 240
Berea or Berrhœa, town (Macedonia), XV, a 138
Berea grit, formation (Ohio), XVII, b 755–6
Bereans, sect (Barclay), III, b 318
Beregszaszi, Paul, philologist (Hungary), XII, b 389, note
Bereke Khan (Mongols), XVI, a 773
Berengar or Berengarius of Barcelona, IV, Count Raymond (Templars), XXIII, a 176
—— of Catalonia, I. to IV., counts (Spain), XXII, a b 326
—— of Italy, king (John X., pope), XIII, b 721; (Pavia), XVIII, a 450
—— II., king (Germany), X, a b 434; (Italy), XIII, b 479–80; (Ivica), b 535; (John XII., pope), a 721; (Otho I.), XVIII, a 69; (Rome), XX, a *b* 806
Berengaria of Navarre, queen of England (Costume), VI, a 413; (Richard I.), XX, a 555
Berengarius or Berenger of Carpi, James or Jacobus (Anatomy), I, a 707, b 710; (Vascular System), XXIV, b 103
BERENGARIUS of Tours, theologian, III, a 505–6; (Erigena), VIII, b 462; (Lanfranc), XIV, b 283; (Lessing), b 481; (Scholasticism), XXI, a 436, a 439; (Waldenses), XXIV, a 344
Berengelite (Mineralogy), XVI, b 447
BERENICE, city, III, b 506; (Egypt), VII, a 646; (Messenia), XVI, a 58; (Zulla), XXIV, a 866
BERENICE OF CYRENE, II., queen of Egypt, III, b 506; (Egypt), VII, *a* b 646; (Numismatics), XVII, b 668
—— III. (Egypt), VII, b 647
—— IV. (Egypt), VII, b 647
BERENICE OF JUDÆA, queen, III, b 506; (Titus), XXIII, b 447
Bérénice, play (Racine), XX, b 213
Beresford, William Carr, viscount (Argentine Rep.), II, b 431; (Portugal), XIX, b 566, *a* b 567
Berestie or Berestoff, town (Brest-Litovsk), IV, a 233
BEREZINA, river, III, b 506; (Minsk), XVI, a–b 501; (Russia), XXI, a 81
BEREZOFF, town, III, b 506–7
——, estuary (Dwina), VII, a 491
Berezooka, town (Ufa), XXIII, *b* 764
Berezovsk mines (Gold), X, a 660, *a* b 661
BERG, duchy, III, a 507
—— river (Cape Colony), V, b 38
Berg Isel, battle of, 1809 (Hofer), XII, b 46
Bergalli, Luise, poetess (Gozzi, G.), XI, b 22
BERGAMA, town, III, a 507. See PERGAMUM
Bergamase dialect (Italy), XIII, a 504
BERGAMO, district, III, a 507; city, a 507; (Per-

BERGAMO, *continued*
gamum), XVIII, b 538; (Schools of Painting), XXI, b 467; conference at (Waldenses), XXIV, b 344; porch, colored stone in (Architecture), II, a 399
—— sheep (Italy), XIII, b 461
BERGAMOT, oil of, III, b 507
Bergander, bird (Sheldrake), XXI, a 825
Bergedorf, town (Hamburg), XI, *b* 360, a 361
Bergel or Bergellanus, Johann Arnold, antiquary (Typography), XXIII, b 732
BERGEN, city, III, b 507–8; (Hanseatic League), XI, *a* 402; (Norway) XVII, a *b* 596, *b* 597, a 602
——, town (New Jersey), XVII, a 408
——, town (Rugen), XXI, a 63
Bergen, Auguste de, physician (Anatomy), I, a 714
Bergenies, flowers (Saxifrage), XXI, a 366
BERGEN-OP-ZOOM, town, III, a 508; (Fortification), IX, *a* 390
BERGERAC, town, III, a 508
——, Cyrano de, writer (Aëronautics), I, b 168; (France), IX, a 580
Bergerie, La (Belleau), III, b 470
Berggeist, Der (Spohr), XXII, 426–7
Berggren, Sven, botanist (Polar Regions), XIX, a 336
Berghem, artist. See BERCHEM and Berquen
Bergholz, mineral (Mineralogy), XVI, b 443
BERGISCH-GLADBACH, X, b 562
BERGMANN, Torbern Olof, chemist, III, a 508; (Astronomy), II, b 692; (Chemistry), V, *a* 401, a 402; (Crystallography), VI, b 595; (Metals), XVI, b 68; (Scheele), XXI, *b* 404
Bergomum, town. See BERGAMO
Bergues, town (Nord), XVII, b 548
Bergut or Bearcoot, bird (Eagle), VII, b 510
Berhampur, town (Ganjam), X, b 63
Bering, Vitus. See Behring
BERKELEY, town, III, b 508
—— castle (Gloucester), X, *b* 615; (Peerage), XVIII, b 474; (Talbot), XXIII, a 31
BERKELEY, George, philosopher, III, b 508–11; (Apologetics), II, *b* 168; (Association of Ideas), b 639; (Brown, Peter), IV, b 350; (Cloyne), VI, a 38; (Collier), b 129–30; (English Literature), VIII, a b 381; (Hume), XII, a 361, *a* b 365; (Kant), XIII, b 857, a 858; (Locke), XIV, a 767; (Malebranche), XV, a 335; (Newport), XVII, b 416, a 417; (Political Economy), XIX, a 377; (Psychology), XX, a *b* 43, a 44, a 49, a 53, b 60 note, *a* 71, a 88 note
——, John, Lord (New Jersey), XVII, a b 408
——, M. J. (Potato), XIX, b 613, b 614, a 615
—— Divinity School (Middletown), XVI, a 296
—— sound (Falkland Islands), IX, b 14
—— vale (Gloucester), X, b 613, b 614
Berkenhout, John, naturalist (Ornithology), XVIII, b 13
BERKHAMPSTEAD, Great, town, III, a 511
Berkhampstead, town (Hertford), XI, *b* 689, a 690
Berkley, Sir Charles, perjurer (Clarendon), V, *a* 705
BERKSHIRE, III, a 511–2
—— Hills (Massachusetts), XV, a 618
—— hogs (Agriculture), I, a b 355
Berlenges, islands (Portugal), XIX, a 551
Berlichingen, Götz von, author (Germany), X, b 473; (Würzburg), XXIV, b 740
BERLIN, city (Ill.), III, a 512–6
  educational institutions, b 514
  history, b 512
  industries, a 516
  monuments, b 515
  name and location, a 512
  political features, a 514
  public edifices, b 512–4

—— (Fire), IX, a 207; (Libraries), XIV, b 525–6, b 547–8; (Newspapers), XVII, a b 439, a 440; (Police), XIX, a 356; (Post-Office), b 599–600; (Prussia), XX, *b* 19, *b* 20, *a* 21, *a* b 22, a 24
—— Bourse (Stock Exchange), XXII, a 586; Friedrichshain Hospital, XII, a 321
—— Gallery (Correggio), VI, b 387; (Cranach), a 483; (Garbo), X, a 67; (Moroni), XVI, b 862; (Schools of Painting), XXI, a 466
——, history of (Prussia), XX, a 7, a b 8, a 12, b 15; industrial schools (Technical Education), XXIII, *b* 116
—— and Milan decrees of Napoleon (England), VIII, a 325; (Free Trade), IX, b 667; (United States), XXIII, a b 807
—— Museum (Giustiniani), X, b 558; (Kaulbach), XIV, a 19; (Metal-work), XVI, b 79, a 80
—— Observatory (Micrometer), XVI, b 266; (Observatory), XVII, b 732; declinograph (Micrometer), XVI, b 266
—— Royal Academy of Sciences, I, b 69; (Inscriptions), XIII, a b 128, b 130; (Tables), XXIII, b 11
—— treaty, 1878 (Thessaly), XXIII, b 320; (Thrace), b 339; (Turkey), b 693
Berlin pottery and porcelain, XIX, a b 660
Berliner, Emile, electrician (Telephone), XXIII, b 139; transmitter of (Telephones), b 931
BERLIOZ, Hector, composer, III, b 516–7; (Paganini), XVIII, a 139
Berm, fortified space (Fortification), IX, b 377, *a* 379
Bermingham family (Birmingham), III, a b 682
Bermius mountains (Macedonia), XV, b 137, a 138
Bermondsey Market (London), XIV, b 837; parish (London), b 829, a 842, a 844, *b* 854
BERMUDAS, islands, III, b 517–8; (Atlantic Ocean), III, b 17–8; (Dock-yards), VII, a 274, a 275; (Prison Discipline), XIX, b 771; avifauna of (Birds), III, a 653; Chancery Court of (Writ), XXIV, a 731
Bermudez, state (Venezuela), XXIV, b 152
——, Abuna, bishop (Abyssinia), I, b 64–5
——, Geronimo, ecclesiastic (Drama), VII, b 363
Bermudo, king of Asturia (Alphonso II.), I, *b* 540
—— II., Gallicia (Portugal), XIX, a 555
—— II., Leon, king (Spain), XXII, b 326, *a* 329
—— III., Leon (Ferdinand I., Castile), IX, b 70; (Spain), XXII, *a* 327
BERN or Berne, Canton, III, b 518; (Insanity), XIII, a 105; (Jura), a b 792; (Switzerland), XXII, b 814, b 815, a *b* 816, a b 817, *a* b 818, *a* b 819, *a b* 823, a 824, *a* b 826, a 827, b 828, *a b* 829, b 830, *a* b 831, *b* 832; (Vaud), XXIV, b 125–6; (Zwingli), *b* 872, a 873; reformation in (Calvin), IV, b 634, *a* b 635
——, city, plan, III, b 518–9; (Academy), I, a 75; (Libraries), XIV, a 550; (Soleure), XXII, *b* 263; (Switzerland), b 816, a 820, b 822, *b* 823, b 828, a *b* 832, a 834; (Universities), XXIII, a 905, a 907
—— Postal Union (Post-Office), XIX, b 600–1
Bernacle-goose, Brentz or Bernicla (Birds), III, b 643, b 653; (Goose), X, a b 692, notes
BERNADOTTE, Jean Baptiste Jules, king, III, b 519; (Moreau), XVI, b 846; (Napoleon I.) XVII, b 206, a 209, b 214, b 218, b 222, b 226, b 227, b 228; (Pau), XVIII, a 425; (Sweden), XXII, *b* 790–1
Bernai, Alexandre de, poet (Romance), XX, *b* 656, a 657
Bernam, river (Malay Peninsula), XV, *a* 324
Bernard. See Bernhard
——, traveller (Sepulchre), XXI, a 705
—— or Bernhard, Carl, pseudonym (Denmark), VII, b 81
——, Charles de, writer (France), IX, b 596
—— of Chartres, schoolman (Evolution), VIII, b 663; (Scholasticism), XXI, *b* 441
BERNARD of Clairvaux, St., III, b 519–21; (Abelard), I, a 39; (Arnold), II, b 546; (Cistercians), V, *a b* 693; (Crusades), VI, a 554; (Ethics), VIII, b 522; (Eugenius III.), b 581; (Fathers of the Church), IX, b 44; (France), b 476, a 571; (Henry the Deacon), XI, *b* 600; (Hildegard), b 728; (Hymns), XII, a b 618; (Immaculate Conception), a 754; (Lombard), XIV, a 822; (Malachy), XV, a 318; (Monachism), XVI, a 735; (Mysticism), XVII, a 139; (Popedom), XIX, b 514; (Rome), XX, b 810; (Scholasticism), XXI, b 442, *a* 443; (Trappists), XXIII, a 556
——, Claude, physiologist (Nutrition), XVII, a 700; (Pathology), XVIII, a 405; (Physiology), XIX, a 15, b 49; (Vascular System), XXIV, *a* 106
BERNARD, James, historian, III, a 521
——, Jeanne François. See RECAMIER
——, Montague, jurist (International Law), XIII, a 201, b 202 note
—— of Morlaix, poet (Hymns), XII, b 618
—— of Saxe-Weimar, general (France), IX, *a* 502
BERNARD, Simon, engineer, III, a b 521; (Torrey), XXIII, b 943
——, Sylvester, teacher (John of Salisbury), XIII, a 729
—— de Tremelai, master (Templars), XXIII, b 176
—— of Trevisa (Alchemy), I, b 411–2
Bernardakis, Bernardakis N., dramatist (Greece), XI, a 136
Bernardes, Diogo, poet (Camoens), IV, a b 662; (Portugal), XIX, b 571
Bernardi or Torretti, sculptor (Canova), V, a 23
BERNARDIN, St., preacher, III, b 521
Bernardin, French author. See SAINT PIERRE
Bernardino. See PINTURICCHIO
—— di Stefano, monk (Glass), X, b 597, note
Bernardo of Pavia, bishop (Canon Law), V, a 18
—— of Sicily, monk (Hydropathy), XII, a 575
Bernart of Ventadour, troubadour (Provençal Literature), XIX, a b 899, *a* 900
Bernauer, Agnes, countess (Straubing), XXII, a 620
BERNAY, city, III, b 521; treasury (Plate), XIX, b 191, a 192
Bernays, Jacob, critic (Aristotle), II, a 452; (Jews), XIII, b 692; (Scaliger), XXI, b 380, a 381
BERNBURG, city, III, b 521; (Anhalt), II, *a b* 43
Bernburger, town (Kalbe), XIII, a 836
Berne, city. See BERN

Bernec, Peter, silversmith (Plate), XIX, a 196; (Sculpture), XXI, b 593
Berneray, island (Barra), III, b 336
BERNERS, Juliana, prioress, III, b 521–2; (Heraldry), XI, a b 615, b 636
——, John. See BOURCHIER
Berneschi, poets (Italy), XIII, a 520
Bernese Alps, I, b 549
Bernesque poetry (Italy), XIII, a 520
Bernhard, I., duke (Saxe-Meiningen), XXI, a 364
—— of Ascania, duke (Saxony), XXI, *a* 368
—— of Barcelona, count (Spain), XXII, a 326
——, Erich Freund, duke (Saxe-Meiningen), XXI, a *b* 364
Bernhardi, Johann Jacob, of Erfurt (Crystallography), VI, b 596
Bernhardi, T. von (Political Economy), XIX, a 408
BERNI, Francesco, poet, III, a 522; (Italy), XIII, a 520
Bernicia or Bryneich, kingdom (Celtic Literature), V, a 262; (England), VIII, b 244; (Northumberland), XVII, *b* 582, *a* b 583
Bernier, François, author (Punjab), XX, a 117, b 118; (Rabelais), a 200, b 202
Berniget mountain (Saghalin), XXI, a 155
Bernina pass (Alps), I, b 545, a 552; (Engadine), VIII, b 193
BERNINI, Giovanni Lorenzo, artist, III, a 522; (Architecture), II, a 384, b 386; (Sculpture), XXI, b 596–7, note; (Urban VIII), XXIV, b 13
Bernis, François Joachim de Pierre de, minister of state (France), IX, b 519
Bernot's machine (File), IX, a 141
BERNOULLI, Daniel, mathematician, III, a *b* 523-4; (Boulton), IV, b 157; (Hydromechanics), XII, *a* 453; (Tides), XXIII, a 378, *b* 380, b 386; (Vascular System), XXIV, a b 105; equation of (Hydromechanics), XII, b 463, a 465; hypothesis (Probability), XIX, a 796; theorem, stream line (Hydromechanics), XII, a 487–9, b 504, a 556; theory (Acoustics), I, *b* 106, a 107
BERNOULLI James, 1st, mathematician, III, b 522–3; (Infinitesimal Calculus), XIII, a b 22, a 64, a 66; lemniscate of (Mechanics), XV, b 721; theorem of (Probability), XIX, a 789, b 792-3
BERNOULLI, James, 2d, mathematician, III, b 524
BERNOULLI, John, mathematician, III, b 522, a b 523; (Gunnery), XI, a 261; (Hydromechanics), XII, a 453; (Infinitesimal Calculus), XIII, b 8, a 20, b 24, b 30, a 39, a 64; (Newton), XVII, a *b* 458; (Perpetual Motion), XVIII, a b 567; (Tables), XXIII, a 13; (Taylor), a 98; (Trigonometry), b 597, a 607; (Variations), XXIV, a b 92, a b 94
BERNOULLI, John, 2d, mathematician, III, a 524
BERNOULLI, John, 3d, mathematician, III, a b 524
BERNOULLI, Nicholas, mathematician, III, b 523
BERNOULLI, Nicholas, 2d, mathematician, III, a 524
Bernoullian numbers (Tables), XXIII, a 19
Bernstein, orientalist (Syriac Literature) XXII, a 865 notes
——, Julius, physicist (Electricity), VIII, a 45, b 77, a 83
Bernstorff, Johann Hartwig Ernst, Count, statesman (Denmark), VII, b 76
Bernward, bishop (Hildesheim), XI, *a b* 729; (Metal-work), XVI, a 83; (Niello), XVII, b 507
Berœa, town. See ALEPPO
Beroïdæ, family (Actinozoa), I, a 122
BEROSUS, priest, III, b 524–5; (Babylonia), b 159-60; (Chronology), V, b 616; (Cosmogony), VI, a 395; (Deluge), VII, *a* 49; (Dialling), a 132; (Persia), XVIII, a 573, a 575, note, a 578, a 579
Berou, river (Borneo), IV, b 50
Berquen or Berghem, Ludwig van, lapidist (Diamond), VII, b 140, b 142
Berri, Caroline Ferdinande Louise, Duchess of Berri, III, b 525; (Berryer), a 526; (France), IX, b 546
BERRI, Charles Ferdinand d'Artois, duc de, III, b 525; (France), IX, a 545
——, John, duke of (Illumination), XII, b 746
Berridge, John, preacher, (Hymns), XII, b 729
Berris, dramatist (Spain), XXII, b 370
Berruguete, Alonso, sculptor (Sculpture), XXI, b 593
Berry, fruit (Botany) (Ill.), IV, a 138
——, Lieutenant, explorer (Polar Regions), XIX, a 338
——, Mary and Agnes (Walpole), XXIV, a b 355
—— or bird pepper (Cayenne Pepper), V, a 214
BERRYER, Pierre Antoine, orator, III, b 525
Bersaglieri, troops (Army), II, b 535
Bert, Paul, physiologist (Tong-king), XXIII, b 470
Berta highlands (Senaar), XXI, b 689, a 690
Bertalanfi, Paul, poet (Hungary), XII, b 391
Bertaut, Francoise. See MOTTEVILLE
Bertelli's tromometer (Seismometer), XXI, b 660-1
Bertha of Burgundy, queen (Soleure), XXII, b 263
—— of Kent, queen (England, Church of), VIII, b 332
Bertharius, abbot (Universities), XXIII, a 838
Bertheau of Göttingen, orientalist (Chronicles), V, *a* b 615, *a* 616; (Syriac Literature), XXII, a 899
Berthelet, Thomas, printer (Book), IV, b 35
Berthelot, Pierre Eugene Marcellin, chemist (Carbon), V, a b 77; (Chemistry), a 418, b 451; (Natural Gas), XVIII, a 896; (Ozone), a 117; (Paraffin), a 241; (Petroleum), b 728
Berthelot's gas-thermometer (Pyrometer), XX, a 138
Berthelsdorf, village (Herrnhut), XI, b 683; (Zinzendorf), XXIV, *b* 827
Berthier, Alexandre, marshal (Austria), III, a 116; (Napoleon I.), XVII, *a* 211, b 218
Berthierine (Mineralogy), XVI, b 432
Berthierite (Mineralogy), XVI, b 410
Berthier's method (Coal), VI, a 75
Berthold, Arnold Adolf, anatomist (Ornithology), XVIII, b 26–7
——, mediæval orator (Germany), X, b 470
—— IV., Zahringen, count (Freiburg), IX, a 671
BERTHOLLET, Claude Louis, chemist, III, a b 526; (Bleaching), a 705; (Chemistry), V, b 400, a b 402; (Gay-Lussac), X, a b 109, a b 110, a 111; (Guyton de Morveau), XI, *b* 307; (Monge); XVI, a 766; (Thénard), XXIII, b 271
Bertholletia excelsa (Brazil-nuts), IV, b 216
Berthou collapsible boat (Pontoon), XIX, b 472
Berthoud, town (Burgdorf), IV, a 476
BERTHOUD, Ferdinand, inventor, III, b 526
Bertin. See Abbey of St.
——, bones of (Anatomy), I, b 722
BERTINORO, city, III, b 526
Bertius, Peter, geographer (Ptolemy), XX, b 101
Bertkau, Philipp, naturalist (Arachnida), II, b 247, a 258 note
Bertoldo, jester (Fool), IX, a 321
Berton, William, of Oxford (Wycliffe), XXIV, *b* 746, note
Bertram, Charles Julius, forger (Caledonia), IV, a 588; (Richard of Cirencester), XX, b 557–8
Bertram (Maturin), XV, b 641
Bertrand d'Alamon, troubadour (Romance), XX, b 667
—— de Blanquefort, master (Templars), XXIII, b 176
—— de Born, troubadour (Provençal Literature), XIX, b 899, a b 900
—— de Goth. See CLEMENT V.
——, Louis, writer (France), IX, b 595
Bertrand's *Calcul Intégral* (Tables), XXIII, *a* 19; criterion (Series), XXI, b 712
Bertuccius, goldsmith (Venice), XXIV, b 169
Beruf unserer Zeit (Savigny), XXI, a b 341, a 342
Berulle, Pierre, Cardinal de (Descartes), VII, b 101
Bèrúní, historian (Tabarí), XXIII, b 8
Berus, species (Viper), XXIV, b 265–6
Berush or Dob Beer, sectary (Jews), XIII, a 692
Bervie, river (Kincardine), XIV, b 80; (Kincardine), b 80, *a* 81
BERWICK, James Fitzjames, Duke of, III, a 527; (Charles Edward), V, a 369; of (France), IX, a 513, b 515; (Philippsburg), XVIII, a 768
BERWICKSHIRE, district, III, a 529-30; (Scotland), XXI, *b* 543, b 545, a 551
BERWICK-UPON-TWEED, plan, III, b 527–9; (Scotland), XXI, b 506, a 507, a 508, b 509, *b* 510, *b* 511, b 516, b 517; siege of, 1318 (Robert), XX, *b* 610
Berycidæ, fishes (Ichthyology), XII, b 706, a 718, b 719, b 727
BERYL, mineral, III, a 530; (Mineralogy) (Ill.), XVI, b 358, a 372, b 383, a 390, a 391, b 392, a b 436; (New Hampshire), XVII, b 401
Beryllium or Glucinum, metal (Chemistry), V, a 456; (Glucinum), X, a 618; (Spectroscopy), XXII, b 390
Beryllus of Bostra, theologian (Monarchianism), XVI, a–b 745
Berytus, city (Numismatics), XVII, a 667; (Phœnicia), XVIII, a 816, a 817, a 822
Berzeliite (Mineralogy), XVI, a 421
Berzelinite (Mineralogy), XVI, a 408
BERZELIUS, Jons Jakob, chemist, III, b 530; (Chemistry), V, b 401, b 402, a *b* 403, *a* 404; (Fermentation), IX, b 82; (Liebig), XIV, *b* 569, a b 570; (Mitscherlich), XVI, b 554, a 555; (Uranium), XXIV, *b* 11, note; (Vanadium), b 60; (Wöhler), b 659, b 660, *a* 661
Berzelius's experiment (Iron), XIII, b 285; (Blowpipe), III, a 728, b 730; series (Electrolysis), VIII, b 105, a 106
Berzsenyi, Daniel, poet (Hungary), XII, *b* 392
BES, mythical being, III, b 530-1
Bésalu, countship (Roussillon), XXI, b 33
——, Raimon Vidal de, novelist (Provençal Literature), XIX, a b 901
BESANÇON, city, III, a 531; (Franche Comté), IX, b 605, *a* 606; (Jura), XIII, a *b* 791
Besant, Walter, novelist (Rabelais), XX, b 203, b 205
Besava river (Spain), XXII, b 307
Bescheidenheit (Germany), X, b 470
Beschi, Joseph, Jesuit poet (Tamils), XXIII, b 48, a 49
Besch Parmak, mountain (Caria), V, b 90; (Irak Adjemi), XIII, a 219

Beschreibung der moskowitischen und persischen Reise (Olearius), XVII, b 781-2
Beschtau mountain (Caucasus), V, b 221
Beseke, J. M. G. (Ornithology), XVIII, b 12
Besenval, Pierre Victor baron de, general (France), IX, *a* 527
Beshir Shehaab, emir (Druses), VII, a 420
Besht, sectary (Jews), XIII, b 691-2
Beshtau mountains (Stavropol), XXII, a 489
BESKOW, Bernhard von, dramatist, III, a 531; (Sweden), XXII, b 795
Besnault of Sens, abbé (Hymns), XII, b 619
BESSARABIA, country, III, a 531-2; (Russia), XXI, a 76, b 79, *b* 87, a 93, a 109, *b* 110
BESSARION, Johannes, cardinal, III, a 532; (Apostolius), II, b 173; (Greece), XI, *a* b 133; (Sixtus IV.), XXII, *a* 111; cardinal (Trebizond), XXIII, *a* 567
BESSÈGES, town, III, b 532
BESSEL, Friedrich Wilhelm, astronomer, III, b 532; (Astronomy), II, a 715, b 717; (Argelander), b 428; (Earth), VII, b 517, b 523; (Geodesy), X, a 153; (Geology), X, b 192; (Micrometer), XVI, b 260-261, b 262, note, a 263, b 265; (Observatory), XVII, a 733; (Parallels), XVIII, b 259; (Tables), XXIII, *b* 19; (Time), b 422
Bessel's functions (Heat), XI, b 526; (Hydromechanics), XII, b 459; (Tables), XXIII, b 19
Bessemer casting process (Iron), XIII, b 366; converter (Iron) (Ill.), a b 353; ingots (Iron), a b 340; iron (Iron), b 285, a 342, b 355, b 356, a b 366; metal (Iron), a 290
—— Mushet process (Iron) (Ill.), XIII, a b 297, b 343, a 353-5; (Patents), XVIII, b 879
—— pig (Iron), XIII, a 291, a 321; cost of production (Iron), XIII, b 323, b 324
—— process (Iron), XIII, b 326, a 355; (Metallurgy), XVI, b 65; original (Iron), XIII, b 341, a 342
—— rails (Iron), XIII, a b 364
—— steel (Iron), XIII, a b 288, b 292, b 343; (Sheffield), XXI, a 824; analysis, European (Iron), XIII, b 354; plates, strength of (Iron), a 364; product (Iron), a b 368-9; (United States), XXIII, *a b* 866, *a* 867
Bessenyei, George, poet (Hungary), XII, a 392
Bess of Hardwick, countess (Embroidery), VIII, b 149; (Mary Stuart), XV, *b* 606; (Talbot), XXIII, b 31
Bessières, Jean Baptiste, marshal (Masséna), XV, a 624
Bessles, Orffyreus, mechanic (Perpetual Motion), XVIII, b 565
Besson, Jacques, inventor (Machine Tools) (Ill.), XV, b 153-4
Bessus of Bactria, satrap (Alexander the Great), I, a *b* 427; (Artaxerxes), II, b 560; (Persia), XVIII, *b* 593
Bestia Calpurnius, consul (Jugurtha), XIII, b 776, a 777
Bestiaries, treatises (Ornithology), XVIII, b 7 note; (Physiologus), XIX, b 9
Bestuzheff-Riumin, Constantin Nikolaievitch, historian (Russia), XXI, a 113, a 117
Beta resin (Mastic), XV, a 628
Betaine, base (Nitrogen), XVII, b 533
Betancuria, town (Canary Islands), IV, b 706
Betanzos bay (Gallicia), X, a 25
Betchuana race. See BECHWANA
BETEL NUT, III, b 532-3; (India), XII, b 786, b 798
Bethabara, ford (Jordan), XIII, *a* 757
BETHANY, town, III, a 533
BETHEL, city, III, a 533; (Palestine), XVIII, b 179; sanctuary (Israel), XIII, a 420
Bethell, Richard. See WESTBURY
Bethell's seasoning process (Dry Rot), VII, b 426
Bethencourt, Jean de, navigator (Canary Islands), IV, b 702, b 706; (Geography), X, a 161; (Guinea), XI, a 234
BETHESDA, pool, III, a 533; (Gospels), X, a 741, miracle at (Jesus Christ), XIII, a 676
—— (Hospital), XII, b 314
Bethgebrim, city (Eleutheropolis), VIII, a 121
BETHLEHEM, town, III, a 533; convents at (Monachism), XVI, b 728
—— chapel, Prague (Huss), XII, b 419, a b 420
—— Hospital, London (England), VIII, a 230; (Insanity), XIII, b 116
—— Seminary, Pennsylvania (Women), XXIV, a 911
Bethlen, Gabriel, prince, Transylvania (Hungary), XII, b 384
Bethnal Green, suburb (London), XIV, a 830, *a* b 842, *a* 483, a 487
Bethsaida, town (Galilee, Sea of), X, b 28
Bethsur, town (Israel), XIII, *a* b 432, a 433
Bethulla, city (Judith), XIII, b 775
BETHUNE, town, III, b 533; (Pas de Calais), XVIII, a 345
——, Sir Henry Lindsay, general (Persia), XVIII, a b 661
——, James, bishop (Glasgow), X, b 569
BETLIS or Bedlis, town, III, b 533
Béton, concrete (Bridges), IV, b 293; (Building), b 408; aggloméré (Concrete), VI, b 216
BETONIM, city, III, b 533
Betoverde Wereld (Holland), XII, b 98
Betrayal of Christ, painting (Tisio), XXIII, a 437
Betrothal, law of (Women), XXIV, a 675, note, *a* 677
Bétsibòka, river (Madagascar), XV, *b* 169
Bétsiléo, tribe (Madagascar), XV, a 172, a 173
Bétsimiàtatra, valley (Madagascar), XV, b 169
BETTERTON, Thomas, actor, III, b 533-4; (Booth, Barton), IV, b 43; (Drama), VII, *b* 375
Betti, Bernardino. See PINTRUCCHIO
Bettiah, town (Champáran), V, b 335
BETTINELLI, Saverio, writer, III, a 534
BETTING, III, a 534-5; (Cricket), VI, *b* 513, b 514; (Gaming), X, b 60-1; (Government), XI, a 19; on hop-crop (Brewing), IV, b 243; law of (Wager), XXIV, b 326
Bettongia, genus (Kangaroo) (Ill.), XIII, a 850
BETUL, district, III, a 535-6
Betula, tree (Birch), III, a b 603; (Arboriculture), II, b 278
Betts, J. T., translator (Valdes), XXIV, *b* 38
—— Cove (Newfoundland), XVII, a 394
Betuwe, island (Franks), IX, *a b* 636; (Holland), XII, a 63, b 64
BETWA, river, III, a 536; (Bundelkhand), IV, a 466; (Hamírpur), XI, *a* b 378
BEUDANT, François Sulpice, geologist, III, a 536
Beudantite (Mineralogy), XVI, b 425
BEULÉ, Charles Ernest, archæologist, III, a 536
Beust, Frederick Ferdinand, baron (Austria), III, b 122; (Hungary), XII, b 388, a 389; (Saxony), XXI, *b* 371, a 372
BEUTHEN, town, III, a b 536; Nieder, town, b 536
Beuvron river (Loir-et-Cher), XIV, b 818
Bevan, Edward, apiarist (Bee), III, a 434
Bevel for doors (Building) (Ill.), IV, a b 440
Bevel-wheels (Mechanics), XV, a b 765, b 768-9
BEVERLEY, city, III, b 536; (York), XXIV, *a* 786
—— (Western Australia), XXIV, a 535, b 536
BEVERLEY, JOHN OF, bishop, III, b 536
BEVERLY, Massachusetts, town, III, b 536
Bevilaqua, Symon, printer (Typography), XXIII, a 724, b 739
Bevis of Hampton or *Beuve d' Hanstone* (Romance), XX, b 669
Bevoibetta mountain (Nilgiri Hills), XVII, a 522
BEWDLEY, town, III, b 536; (Worcester), XXIV, b 700, *a* b 701
BEWICK, Thomas, engraver, III, a 537; (Engraving), VIII, a b 390; (Ornithology), XVIII, b 13-14
Bewick's Swan, XXII, b 769
Bey, ruler (Tunis), XXIII, a b 661
Beybars or Bibars, sultans (Egypt), VII, a b 655-6; (Nawawi), XVII, a 311; (Templars), XXIII, b 178
BEYLE, Marie-Henri or De Stendhal, critic, III, a b 537; (France), IX, b 596
Beynen, Koolemans, explorer (Polar Regions), XIX, a 337
Beyrich, E., geologist (Geology), X, a 303, b 321
BEYROUT or Bairut, town, III, b 537-8; (Agrippa, M. V.), I, b 371; (Phœnicia), XVIII, a 815; (Syria), XXII, a 861, a 862, a b 863
Beys, officers (Egypt), VII, b 658-62, a 663, a 680
BEZA, Theodore, theologian, III, a b 538; (Calvin), IV, b 632, *a b* 633, b 634, note, b 635, *a* 638, note; (Cambridge), b 645; (Ephesians, Epistle to the), VIII, a 409; (Francis of Sales), IX, a 613; (Geneva), X, *b* 134
Bezæ, Codex (Acts of the Apostles), I, b 114, b 116. See Codex
Bezant, coin (Numismatics), XVII, b 672
Bezborodko, Alexander Andrevitch, Count (Russia), XXI, a 112
BÉZIERS, city, III, b 538-9; siege of, 1209 (Albigenses), I, b 402
BÉZIQUE, game, III, a 539-41
  table of scores, b 539
  penalties, b 539
  three and four handed, a 540

Bezirksrath, council (Prussia), XX, a 23
Bezoar stones (Ape), II, a 145; (Gallic Acid), X, a 38; (Goat), a 631
Bezpopovtsy, sect (Russia), XXI, a b 90
Bezwára, town (Kistna), XIV, a 105
Bhábar, tract (Himalaya), XI, a 736
Bhádar, river (Kathiawar), XIV, a 17
Bhadreswar, town (Houghly, Dist.), XII, a 151
BHÁGALPUR, district, III, a 541; town, III, b 541
Bhagats, saints (Hindustani Literature), XI, b 753-4, b 755, b 756
Bhagavad-gítá (Sanskrit), XXI, a 296
Bhágavata Purana (Burnouf), IV, b 504; (Deluge), VII, a 50; (Sanskrit), XXI, a 297, note
Bhágavatas, sect (Sanskrit), XXI, a 306
Bhágirathí river (Ganges), X, a 62; (Gangotri), b 62; (Gaur), b 102; (Himalaya), XI, b 745; (Jangipur), XIII, a b 574; (Murshidábád), XVII, *b* 69, a 70; (Nadiyá, b 167-8
Bhágnagar, city (Hyderabad), XII, a 445
Bhainsághát range (Bálágát), III, b 224

Bhaktamālā (Hindustani Literature), XI, a b 754, *b* 755
Bhaktas or Bhakti, sect (Hindustani Literature), XI, a 754; (Sanskrit), XXI, b 304
BHAMO or Banmo, city, III, b 541-2; (Burmah), IV, b 492, a 493, *b* 495, a 499, a 500, a 501
Bhandak, town (Chándá), V, *a* 339
BHANDÁRÁ, district, III, a 542; town, III, b 542
BHANG, drug, III, b 542-3; (Hemp), XI, a b 578-9; (India), XII, b 811; (Narcotics), XVII, 238
Bháoli-jot, land-tenure (Monghyr), XVI, b 766
BHARÁICH, district and town, III, *a* 543
Bhárata, sage (Drama), VII, a 343, a 344; (Sanskrit), XXI, a 298
Bhâratas, great feud of the (Sanskrit), XXI, b 294
Bharavi, poet (Sanskrit), XXI, b 297
Bhargavi, river (Puri), XX, *a* 121
Bhars, tribe (India), XII, b 830
BHARTPUR or Bhurtpore, district and town, III, a b 543; (Rajputana), XX, b 272; siege of, 1826 (Combermere), VI, a 162; 1804 and 1826 (India), XII, a b 844
Bhartrihari, grammarian (Sanskrit), XXI, b 297
Bharuch. See BROACH
Bháscara Achârya, mathematician (Algebra), I, a b 456; (Sanskrit), XXI, b 309; (Trigonometry), XXIII, b 596
BHATGÁON, town, III, b 543; (Nepāl), XVII, a 351, *b* 353
BHATNIÁR or Bhattis, people, III, b 543-4; (Jáisalmir), XIII, a 555; (Punjab), XX, b 116; town, III, a b 544
Bhatta Nârâyana, Mrigarâja or Simha, dramatist (Sanskrit), XXI, a 300, note
Bhattikávya (Sanskrit), XXI, b 297
Bhaunagar, town (Gogo), X, a 657
Bhavabhûti, Srî-kantha, dramatist (Sanskrit), XXI, b 299-300
Bhavanási, river (Karmúl), XIV, b 7
BHÁWALPUR, district and town, III, b 544
Bhawáni, town (Hissar), XII, *b* 4
Bhayachara, land-tenure (Northwestern Provinces), XVII, b 586
Bhera, town (Sháhpur), XXI, a 772
Bheri basin (Tibet), XXIII, a 362
BHIL, tribe and agency, III, a 545; tribes (Broach), IV, a 322; (Indore), XII, *a* 886; (Khándesh), XIV, *b* 58; (Outram), XVIII, b 79; (Panch Mahál·s), a 214; (Rajputána), XX, b 272
Bhi-leng, river (Salwin Hill Tracts), XXI, *b* 251
Bhilsa, town. See BILSA
Bhímá, river (Ahmadnagar), I, b 375; (Sholapur), XXI, a 871
Bhingar, city (Ahmadnagar), I, *a* 376
Bhiwandi, city (Thána), XXIII, a 239
Bhodauphra, king (Burmah), IV, a 497
Bhogdabari, town (Rangpur), XX, a 284
Bhogas, arcs (Zodiac), XXIV, *b* 832
Bhonslá rájás (India), XII, a 842, b 843-4, b 848
BHOPÁL, agency, III, a 545; district, a 545; dynasty (Hoshangábád), XII, a b 312
Bhot dialects (Tibet), XXIII, b 368
Bhotan. See BHUTAN
Bhotia Kosi basin (Tibet), XXIII, a 362
Bhotiyas, people (Nepāl), XVII, a *b* 350, b 351, b 352
Bhrigu, sage (Sanskrit), XXI, a 302
Bhuj, town (Cutch), VI, b 644, a b 645
Bhurtpore. See BHARTPUR
BHUTAN or Bhotán, district, III, b 545-7; (Himalaya), XI, b 734; dialects of (Tibet), XXIII, b 368; Pine, XIX, b 114
Biadh, food rents (Brehon Law), IV, a 226
Biafares, tribes (Senegambia), XXI, *a* 695
BIAFRA, district, III, a 547
Biaina, kingdom (Van), XXIV, a 60
Biamrillahi, sectary. See Hakim
Bianca Cappello. See Cappello
Bianchi, faction (Florence), IX, b 292-3; (Italy), XIII, a 486, b 512-13
Bianchi-Giovini, Angelo Aurelio, historian (Sarpi), XXI, *a* 328
BIANCHINI, Francesco, astronomer, III, a 547; (Astronomy), II, a 692
——, Francesco, antiquary (Rome), XX, b 843, note
——, Ludovico, statesman (Political Economy), XIX, b 400
Bianchi's air-pump (Pneumatic), XIX, b 258
Bianco, enamel (Pottery and Porcelain), XIX, a 644
Biandrata, Giorgio, physician (Socinus), XXII, a *b* 242, note; (Unitarianism), XXIII, *a* 773
Biarmia, country (Ural Mountains), XXIV, b 9. See PERM
BIÁS, river, III, a b 547; (Hushiárpur), XII, a *b* 418; (Kullu), XIV, *a* 155; (Lahore), a 212; (Punjab), XX, a *b* 112, note, 113
BIAS, sage, III, b 547
Biathachs, title (Ireland), XIII, a 264
Biaxals (Magnetism), XV, a b 267; crystals (Wave Theory), XXIV, a b 473, a 475, a 476
Bib, fish (Pout), XIX, b 670
Bibars. See Beybars
Bibel Werk (Bunsen), IV, a 468, *a* 470; Lange's (Colossians), VI, b 148
BIBERACH, town, III, b 547; (Wieland), XXIV, *a* b 590
Bibikhanym college (Samarkand), XXI, a 259
BIBIRINE or Bebeerine, alkaloid, III, b 547; (Greenheart), XI, a 148
BIBLE, III, a 548-61
  literature, a 561
  NEW TESTAMENT, b 554-7
    antilegomena, b 557
    Christian canon, a b 557
    conditions of its production, b 554-5
    motive and origin of, b 555
    Tübingen criticism, a 556-7
  OLD TESTAMENT, a 548-51
    formation of canon, a b 549
    historical books, a 550-1
    Jewish versions, a b 554
    Pentateuch, b 550, a b 551
    poetical books, b 551-3
    prophetical books, a b 553
    religion of Israel, development of, a 548-9
    text of, b 553-4
  TEXT AND VERSIONS, a 558-61
    Christian versions, a 559-61
    denominational versions, b 560-1
    New Testament, a 558-9
    Old Testament, a 558
    printed versions, a 560-1
—— (Abbot), I, a 30; (Agrarian Laws), b 256; (Bossuet), IV, a 62; (Boyle), a 167; (Canon), V, b 11-5; (Canstein), a 25; (Coldstream), VI, a 114; (Copts), a 315; (Copyright), a 321; (Coverdale), a 471; (Cranmer), b 487; (Cromwell, T.), b 535; (Dogmatic), VII, a b, 291, *a* 293; (Ecclesiastes), a 539-42; (England), VIII, b 307, note, b 336; (Finland), IX, b 191; (Fust), b 750, *a b* 751; (Geddes), X, a b 114; (Gloss), b 612-3; (Goths), a b 757; (Heresy), XI, a 657; (Iceland), XII, b 662; (Inspiration), XIII, a 161-3; (Ivan IV.), b 529; (Medhurst), XV, a 788; (Midrash), XVI, a 297, b 300; (Miniature), a b 457; (Poetry), XIX, b 274; (Press Laws), b 730; (Semitic Languages), XXI, a b 677, *a* 681, *b* 686; (Septuagint), b 699-702; (Shakespeare), a 806; (Stephens), XXII, b 561, *a* 562; (Tyndale), XXIII, b 717; (Theology), a b 282, a b 284, b 295; (Trent, Council), b 580; (Walton), XXIV, a *b* 362; (Wycliffe), *a* 746. See Polyglott, and under titles of separate books of the Bible
——, *Annotations on the* (Poole), XIX, b 475
——, Antwerp Polyglott (Arias Montanus), II, b 441; in Armenian language, a 481, a b 482, a 483; Bantu (Swahili), XXII, b 767; Bechuana (Moffat), XVI, b 566; Bishops' (Parker), XVIII, b 305
—— Board, Scotch (Press Laws), XIX, a 731
——, Bohemian (Slavs), XXII, b 160, a 161; Charles XII.'s (Scandinavian Languages), XXI, b 388; Chinese (Morrison), XVI, b 873; Christian III.'s (Scandinavian Languages), XXI, a b 388
—— commentaries (Kimhi), XIV, a 80; (Le Clerc), a 398; (Ramban), XX, a b 276; (Rashbam), a 296; (Rashi), b 296, a 297; (Stuart), XXII, a 932. See Commentaries
——, Czech (Bohemia), III, b 748; (Slavs), XXII, b 160, a 161; Douai version (Challoner), V, b 323; Dyak (Borneo), IV, b 52; Efik (Calabar), b 576; Eliot's (Cambridge), b 647; (Eliot), VIII, b 128, a 129; (Ethiopic), a 539; 42-line (Typography), XXIII, a 728, a 738; French (Faber, Jacobus), VIII, b 731; (Gaelic), X, a 13; Gothic of Ulfilas (Gabelentz), b 3; (Ulfilas), XXIII, b 767
——, Greek (Aquila), II, b 200; Gustavus I. (Scandinavian Languages), XXI, a b 388
——, Hebrew (Lamentations), XIV, a b 242, note, a b 243; (Münster, S.), XVII, b 37-8; editions (Athias), III, a 12; manuscripts (Kennicott), XIV, b 37-8; text of (Israel), XIII, a 439; textual changes (Hebrew Language and Literature), XI, a b 533
——, Housa, translation (Baikie), III, b 208; Italian (Deodati), VII, b 213; Irish (Gaelic), X, a 13; Jansenist (Sacy), XXI, b 149; Karthli (Georgia), X, a 390
—— and key ordeal (Divination), VII, a 255
——, King James's version (Bancroft), III, a 267; (Boyce), IV, b 168
——, Komorn (Hungary), XII, b 391, note; Latin (Junius, F., 1st), XIII, b 787-8; (Latin), XIV, b 339-40
——, Luther's (Brucker), IV, b 354; (German Language), X, a 466, b 472
——, Magyar (Hungary), XII, *a b* 391; Mazarine (Typography), XXIII, a 728; Mongolian, XVI, b 778; Persian (Persia), XVIII, b 660
Bible Pictures (Schnorr von Karolsfeld), XXI, b 434
——, Polish (Alasco), I, a 393; (Poland), XIX, a 313; of Queen Sophia or Szaroszpatate (Poland), a

Bible, continued
311; Polynesian, b 441; rabbinical (Buxtorf), IV, b 535, a b 536; of Raffaelle (Badalocchio), III, b 193; Saurin's, XXI, a 338; Siamese, b 896; Slavonic (Russia), b 112, b 113, b 117; (Methodius), XVI, a 202; Slovenish (Slavs), XXII, b 159
BIBLE SOCIETIES, III, a 561-3; (Henderson), XI, *a* 582; (Methodism), XVI, b 201; (New York), XVII, a 897; British and Foreign (Apocrypha), II, b 161; Translation Society, III, a 563
—— study (Michaelis), XVI, a 236-7; (Rationalism), XX, b 302, a 303; (Reuchlin), b 504-5; (Stanley), XXII, a b 470, a 472
——, Syriac (Syriac Literature), XXII, b 863-6; Tamil (Winslow), XXIV, b 903
——, theories of (Christianity), V, a b 600, b 603; 36-line (Typography), XXIII, b 727, a 728, a 738; Wendish (Slavs), XXII, b 163
—— Christians, sect (Methodism), XVI, b 200; (Temperance), XXIII, b 174
Bibles (Guy, Thomas), XI, b 304; (Libraries), XIV, a 516, b 526, *a b* 529, b 532; circulation of (Bible Societies), III, a 563
Biblia Americana (Mather), XV, a 638
—— *Pauperum* (Bibliography), III, b 564-5, note; (Typography), XXIII, b 725, note, a 727, a 733
—— *Polyglotta* (Plantin), XIX, b 187-8
Biblical Altars, I, a 562-3; analogies (Babylonia), III, b 167; Aramaic (Semitic Languages), XXI, b 679-80, a 682; Bracelet, IV, b 169; breadmaking (Baking), III, b 215, a 216; Chaldee (Aramaic Languages), II, b 269, a 270; Commerce, VI, a b 176; cosmogony, b 395
—— criticism (Baur), III, a b 388; (Bleek), b 715-7; (De Wette), VII, b 124-5; (Eadie), a 509; (Eichhorn), a 684; (Grove), XI, b 198; (Hitzig), XII, a b 30; (Hug), a b 350; (Hupfeld), a 415; (Jahn), XIII, b 552; (Morin), XVI, a 851; (Semler), XXI, b 688; (Simon, R.), XXII, a 89, a 90; (Theodore), XXIII, a b 274. See Criticism, Biblical
—— farming (Agriculture), I, a b 260; genealogies, X, b 127-8; interpretation (Descartes), VII, b 109-10; ivory-carving, V, b 146; manuscripts (Palæography), XVIII, b 166, b 167, a 168, a 169; psychology (Theology), XXIII, a 296, note
—— *Repository* (Robinson), XX, a 623; *Researches* (Robinson), *a* b 623
—— theology (Dogmatic), VII, b 289; (Theology), XXIII, a b 282, a b 284, b 295
—— wood-carving, V, b 147
Bibliographical German Periodicals, XVIII, a b 552
Bibliographical Lexicon, Arabic (Hajji Khalfa), XI, b 337
BIBLIOGRAPHY, III, a 563-74
  anonymous books, a 569
  catalogues and dictionaries, b 570-2
  classics, a 567-8
  classification of books, a 572-3
  early printed books, b 564-6
  general remarks, b 573-4
  literary, b 563
  material and editions, a 564
  prohibited books, b 569-70
  rare and curious books, a 566-7

—— (De Morgan), VII, a 59; (Dibdin, T. F.), a b 149; (Index Librorum Prohibitorum), XII, a 768-9; (Libraries), XIV, a 510, a b 541; *de l'Astronomie* (Tides), XXIII, b 378; study of (France), IX, a 577
The Bibliography of each important subject is attached to the various articles in this ENCYCLOPÆDIA, and may be found in this Index in the analysis of each of the longer separate articles.
Bibliomania, Dibdin, III, a 567; (Dibdin), VII, a 149
Biblioteca. See Libraries
—— Alessandrina, Rome (Libraries), XIV, b 528, b 550
—— Ambrogiana (Schools of Painting), XXI, a 468
—— Angelica, Rome (Libraries), XIV, b 528, note, b 550
Biblioteca Italiana (Acerbi), I, a 88; (Periodicals), XVIII, a 553
—— Marciana, Venice (Libraries), XIV, b 529, a 551
—— Palatina, Modena (Libraries), XIV, a 530; (Stradella), XXII, b 612
—— del Senato, Rome (Libraries), XIV, b 528-9, b 550
—— Vallicelliana, Rome (Libraries), XIV, a 529
—— Vaticana (Libraries), XIV, a b 528, b 550
Biblioteka Warszawska (Poland), XIX, a 317
Bibliotheca (Apollodorus), II, b 163
—— (Diodorus), VII, b 213-4
—— *Britannica* (Bibliography), III, a 571
—— *classica* (Long), XIV, *b* 867
—— Corvina (Hungary), XII, b 383, note
—— *Critica* (Wyttenbach), XXIV, b 750, b 751
—— *Hispanica* (Antonio), II, b 123
—— *Hulthemiana* (Libraries), XIV, b 530
—— *Mundi* or *Speculum Majus* (Encyclopædia), VIII, a b 175
—— *Nicotiana* (Tobacco), XXIII, b 455
—— *Pompeiana* (Pompeii), XIX, b 465
—— *Rosenthaliana* (Libraries), XIV, b 531
—— *Spenceriana* (Dibdin), VII, a 149
—— *Universalis* (Gesner, K.), X, *a* 496
Bibliotheque de L'Arsenal, Paris (Libraries), XIV, b 524, b 547
—— Nationale, Paris (Globe), X, b 606, a 607, a 608, *b* 609, b 610; (Libraries), XIV, b 523-4
—— *Orientale* (Herbelot), XI, *b* 644
—— *de la Presse périodique* (Newspapers), XVII, a 449
—— Royale, Brussels (Libraries), XIV, b 530-1; French (Bibliography), III, a 571
—— *Universelle* (Bernard, J.), III, a 521; (Loche), XIV, a 760; (Periodicals), XVIII, a 553
—— *Universelle des Auteurs Ecclesiastiques* (Dupin), VII, a 474
—— *Universelle des Romans* (Romance), XX, b 677
—— de la Ville (Libraries), XIV, a 525
Biblis rupestris, genus (Martin), XV, b 588
Bibron, Gabriel, zoologist (Reptiles), XX, b 449, b 451, a 453
Bibulus, Lucius Calpurnius, soldier, III, a 574; (Cæsar), IV, a 564, a 565
BIBULUS, Marcus Calpurnius, consul, III, a 574
Bicarbonate of potash (Potassium), XIX, a b 606; of soda (Sodium), XXII, b 254, a *b* 257
Bicci, Lorenzo de', sculptor (Robbia), XX, b 605 note
Bicêtre, hospital, Paris (Insanity), XIII, b 116
BICHAT, Marie François Xavier, anatomist, III, a 574-5; (Anatomy), I, b 714, b 715, a 716; (Morphology), XVI, a 867; (Physiology), XIX, a 16; (Zoology), XXIV, a 855
Bicho de pé, insect (Flea), IX, a 263
Bichromate of potash (Dyeing), VII, a 494; (Gelatin), X, a 120; (Leather), XIV, a b 390
Bickell, Gustav Welhelm Hugo, orientalist (Syriac Literature), XXII, b 866, notes, a b 867 notes, *a* b 868, a 869 note, a 870, notes, a b 872, note, a 879
Bickerstaff, Isaac, dramatist (Drama), VII, a 378
Bickerstaffe, Isaac, pseudonym (Steele), XXII, b 555
Bickford's instantaneous fuse (Blasting), III, b 701; (Mining)(Ill.), XVI, b 465, b 468
Bicocca, battle of, 1522 (Winkelried), XXIV, b 645
Bicol *Dictionary*, VII, b 166
Bicuspid or mitral valve (Anatomy), I, a b 791; (Vascular System), XXIV, a 107, a 109, b 110
BICYCLE, III, a 575; (War), XXIV, a 368, b 379, note; time made by (Tricycle), XXIII, a 595
BIDA, town, III, b 575; (Soudan), XXII, b 292
Bidasoa river (Navarra), XVII, a 256; (Pyrénées), XX, *b* 132
Bidder and Jones machine (Coal), VI, a 64
Bidder's lamp (Coal), VI, b 68
BIDDLE or Bidle, John, author, III, b 575-6; (Unitarianism), XXIII, b 773
——, Nicholas, financier (Taney), XXIII, *b* 921
——, Richard, lawyer (Cabot), IV, b 563
Biddle's scarifier (Ill.) (Agriculture), I, a b 278
Biddulph, Major (Kafiristan), XIII, *a b* 831, *a b* 832; (Kashkar), XIV, a b 11
BIDEFORD, town, III, a 576; (Golf), X, a 682
——, grand master. See Gerard de Riderfort
Bideford black, pigment (Coal), VI, a 52
Bidford challenge (Shakespeare), XXI, a 789
Bidone, Giorgio, mathematician (Hydromechanics), XII, *a* 454, a *b* 485, a 492, *a* 529
Bidouze, river (Pyrénées), XX, *b* 132
BIDPAI or Pilpay, fabulist, III, a 576
Bidri, decoration (Inlaying), XIII, a 88; (Niello), XVII, b 508
Bieberite (Mineralogy), XVI, a 418
BIEL or Bienne, town, III, a 576; (Bern), *b* 518; (Switzerland), XXII, b 817, a 825, b 831, a 833
—— lake (Bern), III, b 518; (Lake Dwellings), XIV, *a* 244; (Neuchatel Lake), XVII, b 370-1; (Switzerland), XXII, a 815
—— river (Jura), XIII, a 792
BIEL, Gabriel, theologian, III, b 576; (Scholasticism), XXI, b 448
Biela's Comet, VI, b 172; (Astronomy), II, b 713; (Meteor), XVI, a 116
BIELAU, Langen, village, III, b 576
BIELAYA TSERKOV, town, III, b 576
BIELEFELD, town, III, b 576; (Westphalia), XXIV, b 545
BIELEFF or Byeleff, town, III, a 577
BIELGOROD, town, III, a 577
Bielinski, Wissarion Grigorievitch, critic (Tourguenieff), XXIII, a b 519
BIELITZ, town, III, a 577
BIELLA, town, III, b 577
BIELOPOLI, town, III, b 577
Bielorusses, race (Russia), XXI, b 86, a 87, b 88; literature of (Russia), b 118
BIELOSTOK, town, III, b 577
Bieloviecza forest (Grodno), XI, b 183
Bielowski, August, critic (Poland), XIX, a b 297, a 316, a 317
Bielski, Martin, historian (Poland), XIX, b 312-13
Biencorf (Holland), XII, a 96
BIENHOA, city, III, b 577
Bienne, Swiss geographical name. See BIEL

Biennial herbs (Botany), IV, a 85
Bienville, Jean Baptiste Lemoine de, captain (Louisiana), XV, a 24; (Mississippi), XVI, a 547; (New Orleans), XVII, b 413
Biesbosch, estuary (Meuse), XVI, b 213
Biesenthal, J. H. R. (Hebrews), XI, b 538
Bievre, river (Seine, dep't), XXI, a 655
BIEZHETZ or Byezhetz, town, III, b 577
Biferten Stock, mountain (Glarus), X, b 566
BIGAMY, III, b 577–8; (Divorce), VII, a 262, note
Bigamdet, bishop, orientalist (Buddhism), IV, a 381, b 384, b 388, note, b 392
Bigarade, fruit (Orange), XVII, a b 834, *b* 835
Bigelow, Erastus Brigham, inventor (Patents), XVIII, a 881
——, Jacob, physician (Surgery), XXII, a 717
——, John, diplomatist (Sparks), XXII, a 918
Bigg, grain. See Bere
Biggah, measure (Weights and Measures), XXIV, a 518
Bighini, sect. See FRATRICELLI
Big Horn mountains (America), I, a 592; (United States), XXIII, b 847; (Wyoming), XXIV, *b* 748
Bight or Bay. See specific names
Bigio, Francia, painter (Sarto), XXI, *a* b 330
Biglow Papers (American Literature), I, b 638, a 639, b 643–4
BIGNON, Jerome, jurist, III, b 578
Bignonia, plant (Botany) (Ill.), IV, a 92, b 131, b 139
Bignoniaceæ, plants (Botany), IV, *b* 91, a 131
Bigod, Hugh, justiciar (Henry III., England), XI, a 588
Bigordi, artist. See GHIRLANDAJO
Bigorre, town. See BAGNÈRES DE BIGORRE
Bigotière, Seigneur de la. See VIETA
Bigovat rapids (Syr-Daria), XXII, b 857
Big Sandy river (West Virginia), XXIV, *a* b 546
Bihārī Lāl, poet (Hindūstānī), XI, a 751, *a* 755
Bihsutun or Bisutun mountain (Behistun), III, b 439–40. See BEHISTUN
BIJAINAGAR or Bijanagar, city, III, b 578
BIJAPUR or Bijaipur, city, III, b 578-9; (India), XII, a 833, *b* 834; dynasty (Hindustani Literature), XI, a 757
Bijáyangar or Carnata, kingdom (Deccan), VII, *b* 18. See BIJAINAGAR
BIJNAUR, district, III, a 579
Bijns, Anna, poetess (Holland), XII, b 95–6
BIKANIR, district, III, b 579–80; (Rajputana), XX, b 272; desert of (Hissár), XII, a 4; town, III, a 580
Bikh or bish, drug (Aconite), I, b 92
Bikœcina, genus (Protozoa), XIX, a 881
BILÁSPUR, district, III, a 580-1; (Kahlúr), XIII, b 832; town, III, a 581
Bilateral symmetry (Animal Kingdom), II, b 47; (Mollusca), XVI, a 656, a 657, a 688, a 689, a 710; (Morphology), b 870
BILBAO or Bilboa, city, III, a 581
Bilberries, fruit (Hanover), XI, a 399; (Whortleberry), XXIV, b 587
Bilbey process (Nitrogen), XVII, b 530-1
Bilbeys, ancient town (Egypt), VII, a 667
Bilbilis, city (Celtiberia), V, a 258
Bilboes or iron gauntlets (Torture), XXIII, b 494, b 496
BILDERDIJK, Willem, poet, III, b 581; (Holland), XII, a b 100
Bile, secretion (Jaundice), XIII, b 608-9; (Nutrition), XVII, a b 693, b 694–5, b 696, b 699-700; duct (Digestive Organs), VII, a b 201
BILFINGER, George Bernhard, theologian, III, b 581
Bilge infection (Quarantine), XX, *a* 163
—— keels (Shipbuilding), XXI, *b* 850–51
Bilguer, von, author (Chess), V, a 523, *b* 524
Bilharzia, parasite (Trematoda) (Ill.), XXIII, *b* 572, b 573, a b 574
Bilhaur, town (Cawnpur), V, *b* 241
Bilikh, river (Euphrates), VIII, b 587
Biliktu Khan (Mongols), XVI, a 770
Biling, river (Burmah, British), IV, a 500
Bîlinî, songs (Russia), XXI, a b 111, a b 117, a 118; legend from (Russia), a 97
Bilious attacks (Dyspepsia), VII, a 507; fever, equine (Veterinary Science), XXIV, a 220; relapsing fever (Typhus), XXIII, a 723
Bilirubin, coloring matter (Nutrition), XVII, b 694, b 700
Biliviridin, coloring matter (Nutrition), XVII, b 694
BILL, III, b 581–3
    of attainder, b 46
    in chancery, a 583
    in Parliament, a 581–2
    of exchange, a 582
    of lading, b 582–3
    of sale, a 583
—— of exchange, III, a 582; (Exchange), VIII, a 695–6; (Stamps), XXII, *b* 465; (Sunday), a 691; (Witness), XXIV, a 658
—— of lading, III, b 582-3; (Charter-party), V, *a* 375
—— of mortality (London), XIV, b 829–30, b 836; (Plague), XIX, a b 175, a 176. See Mortality
——, Parliamentary, III, b 581–2; (Parliament), XVIII, b 318; private (Company), V, b 198; (Parliament), XVIII, b 319
—— of Rights (Army), II, a 499; (England), VIII, a 315; (United States), XXIII, b 799, a 804; (Women in the U. S.), XXIV, a 908; New England (Slavery), XXII, *a* 908
—— of sale, III, a 583; (Fixtures), IX, a 240; (Registration), XX, b 356; (Sale), XXI, b 217, note
—— of type (Typography), XXIII, a b 742
Billaud-Varenne, Jacques Nicolas, revolutionist (Collot d' Herbois), VI, *b* 134; (Robespierre), XX, *b* 618, a b 619, *b* 620, a 621
Billcock, bird (Rail), XX, b 229
BILLETING, III, a 583; Act, Scotch (Ballot), b 249; troops in England, II, a 499; British troops in the United States, XXIII, b 785, a b 786, b 787
BILLIARDS, game, III, b 583–6, balls (Ivory), XIII, b 532, a 534
Billing dukes (Saxony), XXI, *b* 367
BILLING, Sigismund, politician, III, a 586
Billings, naturalist (Echinodermata), VII, a *b* 553
Billingsgate (London), XIV, a 839, a 850, a 851; Market (London), b 837, a b 838
Billings's terminal (Building), IV, a 417
BILLINGTON, Elizabeth, singer, III, a b 586
Billiong, axe (Gutta Percha), XI, a 302
BILLITON or Blitong, island, III, b 586; (Indian Archipelago), XII, *b* 855
Billon, base metal (Numismatics), XVII, a 645, a 652, a 662, a 663, *a* 677, b 678
Billroth, Theodor, physician (Pathology), XVIII, a 370, b 371, b 373 note; (Schizomycetes), XXI, b 416, a 423 note
BILMA or Kawar, town, III, b 586; (Oases), XVII, a 715
Bilney, Thomas, martyr (Latimer), XIV, b 325, a b 326; (Norwich), XVII, a 610; (Reformation), XX, b 340, b 342
Bilobation of mid-foot (Mollusca), XVI, a 690
Biloela, port (New South Wales), XVII, b 421
BILSA, town, III, b 586
BILSTON or Bilsreton, town, III, a 587
Bilûchis tribe (Afghânistân), I, b 211, a 214
Bilûchistân. See BALUCHISTAN
Bima, state and town (Sumbawa), XXII, *a* 675
Bima tjandi, temple (Java), XIII, b 619-20
Bimaculated duck (Teal), XXIII, a 113
Bimana, order (Mammalia), XV, a 451
Bimbar, river (Punjab), XX, b 112
Bimbia, country (Cameroons), IV, a b 656
Bimbisāra, rajah (Buddhism) IV, b 382–3, a 385, b 386
Bimetallism in currency (Bullion), IV, b 464–5; (Exchange), VIII, a 691; (Money), XVI, a 750, a 763 *seq.*; (Silver), XXII, a b 80
Binabola mountains (Galway), X, *a* 51
Binalund range (Transcaspian), XXIII, *b* 543
Binary cubic forms (Numbers), XVII, b 636; quadratic forms (Numbers), a 635, a 639; ratio in coins (Money), XVI, b 757
Bin Bir Tepé, plateau (Lydia), XV, a 100
Binchinnin hills (Forfar), IX, a 361
Binck, Jacob, engraver (Engraving), VIII, a 390
Bindháchal hills (Bundelkhand), IV, a 466
BINDING, BOOK, IV, a 34, b 36-40; (Libraries), XIV, b 538–9, b 547; artistic, III, a b 37; (Libraries), XIV, b 523
Bindóe, conspirator (Persia), XVIII, a 625
Binet's theorem (Mechanics), XV, a 741
Bingemma Hills (Malta), XV, b 342, a 344
BINGEN, town, III, a 587
Bingerloch, whirlpool (Bingen), III, a 587
Bingham, Sir Henry, soldier (Castlebar), V, b 173
BINGHAM, Joseph, antiquarian, III, a 587; (Cardinal), V, *b* 85; (Clergy), *b* 722, *a* 723; (Dean), VII, a *b* 14; (Diocese), a 213
BINGLEY, town, III, a 587
Binh dhinh, port (Cochin China), VI, a 86
Biniana, town. See BAENA
BINNEY, Thomas, theologian, III, a b 587
——, Horace, Jr., jurist (Wilde), XXIV, a 898
Binnite (Mineralogy), XVI, a 411
Binns hill (Linlithgow), XIV, a 676
Binocular glass (Galileo), X, a 32; prism (Microscope), XVI, a 284, b 285, a 286
—— stereoscopic Microscopes (Ill.), XVI, a 284–6; non-stereoscopic (Microscope), a 286
—— vision (Stereoscope), XXII, b 565–6
Binomial differentials (Infinitesimal Calculus), XIII, b 41; equations (Algebra), I, a b 455; function (Numbers), XVII, b 631, b 632
—— theorem (Algebra), I, b 454, a 489–90; (Infinitesimal Calculus), XIII, a b 10; coefficients in (Tables), XXIII, a 18
Binothris or Bainnuter, king (Egypt), VII, b 634
BINTANG, islands, III, b 587; (Malay Peninsula), XV, b 323
Bintulu, river (Borneo), IV, b 50
Binturong, species (Mammalia), XV, b 442
Binué or Benue river (Niger), XVII, a 510-1; (Sokoto), XXII, *b* 261, a 262; (Soudan), *b* 290, a 291

Biobio, river (Chili), V, a 536, a 537
Biogenesis (Abiogenesis), I, b 51; (Biology), III, b 595-7
Biogenetic fundamental law (Reproduction), XX, a b 434; (Zoology), XXIV, a 850
Biographers (Germany), XI, a 487
——, classical (Greece), XI, a 129
Biographia Britannica (Kippis), XIV, b 95
Biographia Literaria (Coleridge, S. T.), VI, *a* b 124, a 125
Biographie Moderne (Michaud), XVI, a 237
Biographie Universelle (Cecelia), V, a b 247; (Michaud), XVI, a 237
Biographies (Aikin, Dr. John), I, b 377; (Cornelius Nepos), XVII, b 354; (Forster, John), IX, *b* 369–70; (Nicholas), XVII, a 503; (Walton), XXIV, a b 363
——, German (Adam, M.), I, a 128; (Varnhagen von Ense), XXIV, a 97
——, mediæval (Spain), XXII, b 368; philosophical (Gassendi), X, a 96
Biographies of the Virtuous (Philo), XVIII, b 776, a 777
Biographisch - literarisches Handbuch zur Geschichte der Exacten Wissenschaften (Poggendorff, XIX, b 285
Biography, Arabic, II, a 231; (Ibn Khallikan), XII, b 644
—— *British* (Bale), III, a 239
——, Johnson's theory (Boswell), IV, b 69
——, *Library of American* (Sparks), XXII, a 918
—— Moslem (Mohammedanism), XVI, a b 618
Biological Psychology, XX, a b 44, a 48, b 53, b 55–6, a 72
BIOLOGY, III, 587–602
  abiogenesis or spontaneous generation, b 595-6
  ætiology, b 595-7
  conditions of life, a 588
  cormophyta, b 600–602
  differentiation of cells, a 590
  distribution of forms, b 591-2
  evolution, b 596
  morphology, b 589-91
  nutrition of plant life, a 597–8
  organized forms, a 589
  physiology, b 592–5
  properties of living matter, a 588
  reproduction of forms, b 593
  specialization of plant cells, b 598
  taxonomy, a 591
  thallophyta, a 599–600
  vegetable kingdom classified, a 597–602

—— (Adaptation), I, b 133; (Comte), VI, b 209, a 210; (Descartes), VII, b 103; (Evolution), VIII, a 652-8; (Hunter, J.), XII, a 402, a b 403, b 405, a b 406; (Metamorphosis), XVI, a 85; (Political Economy), XIX, a 104
——, classifications in (Physical Sciences), XIX, b 5-6; contributions to (Treviranus), XXIII, b 588
Biology, Principles of, H. Spencer (Morphology), XVI, b 868
—— application of selection to (Variation), XXIV, a 88; relation to other sciences of (Zoology), b 837–8
BION, poet, III, b 602; (Moschus), XVI, b 882
——, John, historian (Camisards), IV, a 658, a 659
Bionomics (Zoology), XXIV, a 842, a b 856
Biorn of Skardsa, antiquary (Iceland), XII, b 662
Bioschi, sect. See FRATRICELLI
Biot, Edouard Constant, orientalist (Zodiac), XXIV, *a* 833
BIOT, Jean Baptiste, physicist, III, b 602; (Acoustics), I, a 98; (Aëronautics), b 175; (Arago), II, b 263, a b 264, b 265, b 266; (Electricity) (Ill.), VIII, a 10, a b 19, a 22, b 25, a 68; (Gay-Lussac), X, b 109, a 112; (Laplace), XIV, a b 202; (Wave Theory), XXIV, b 476
Biota, tree (Arbor Vitæ), II, *a* 275
Biotite, mineral (Geology), X, a 203; (Granite), XI, a 44; (Mineralogy) (Ill.), XVI, b 430
Bipolar cells (Anatomy), I, *b* 755
Bipontine classics (Deux Ponts), VII, b 116
Biquadratic equations (Algebra), I, a 484-5
BIR or Birejik, town, III, b 602-3; (Mesopotamia), XVI, b 52, *b* 53
—— Eyûb well (Jerusalem), XIII, *b* 647, a 649, a b 654
Biradiate spicules (Sponges) (Ill.), XXII, a b 432
Biran, Maine de. See MAINE DE BIRAN
Biranikonda, mountain (Karnul), XIV, b 7
Birara island (New Britain), XVII, b 381
BIRBHUM, district, III, a 603; town, III, a 603
BIRCH, tree, III, a b 603; (Arboriculture), II, *a* 276, b 278, b 281, b 282; (Botany), IV, a 78, *a* 86, a b 91, a 113; (Forests), IX, *a* b 351; forests (United States) XXIII, b 859-60
BIRCH, Thomas, historian, III, b 603–4; (Tillotson), XXIII, b 417
——, John, mechanician (Graduation), XI, a 26, a 28
——, J. A., geologist (Guernsey), XI, b 219
——, Wilberforce, official (Ellenborough), VIII, *a* 136
BIRD, William, composer, III, a 604
"Birdcatcher," racer (Horse), XII, a 189, a 190
Bird-lice (Insects), XIII, a 159, a 160; (Louse), XV, b 26
Birdlime (Holly), XII, b 105; (Mistletoe), XVI, a 551
Birdoswald, Roman camp (Carlisle), V, b 95
Bird-painting Hondecoeter), XII, b 132
BIRDS (Ill.), III, b 604-75
  ANATOMY, b 604-31
    ægithognathous skull (Ill.), b 619-20
    brain, a b 728
    classification, b 604–5
    desmognathous skull (Ill.), b 616-9
    dromæognathous skull, a b 616
    integument and feathers, b 630-1
    leg and foot (Ill.), a 626-7
    morphological classification, a b 605
    muscles, b 627–8
    organs, b 628-30
    saurognathous skull (Ill.), b 620–1
    skull of fowl (Ill.), a 605-16
    sternum and limb girdles (Ill.), b 623–5
    vertebræ, ribs and sacrum (Ill.), a 622-3
    wing bones (Ill.), b 625-6
  DISTRIBUTION, geographical, a 639–62
    Amazonian sub-region, a b 647
    Antillean sub-region, a 649-50
    Australian region, b 639-44; boundaries and characteristics, a 640-1; sub-region, b 642–3
    Brazilian sub-region, a 647
    British birds, special, a 656–7
    Central American sub-region, b 648–9
    Ethiopian region, a 657–9
    fossils, a 639
    Himalo - Chinese sub-region, a 660–1
    Hindustan sub-region, a b 661
    Indian region, b 659–62
    Madagascarian sub-region, a b 659
    Malayan sub-region, b 661–2
    Nearctic region, b 650–3; boundaries and characteristics of, b 650–1
    Neotropical region, a 644–50; boundaries and characteristics, a 644–6
    New Zealand sub-region, b 643–4
    Palæarctic region, b 653–7; boundaries and divisions, b 653-5
    Papuan sub-region, b 641–2
    Patagonian sub-region, a 646–7
    Polynesian sub-region, a b 643
    Sub-Andean sub-region, b 647-8
BIRDS, *continued*
  EGGS, b 669-72
    color and markings, b 670-1
    discoveries, a b 670
    form and size, a 672
    grain of shell, b 671
    incubation, a b 672
  extirpated species, partially, b 638-9; recently (Ill.), b 634–8
  fossils (Ill.), a 631-4; sub-fossils, a b 634
  INDEX of genera and groups, 673–5
  MIGRATION, a 663-8
    causes of, b 664–5
    chief facts of, b 663–4
    conformity to law b 662–3
    exceptional features, a 667–8
    explanations, a 667
    routes back and forth, a b 666
    statistics, a 666
    wing and weather, b 665
  MOULT, b 672–3
  NIDIFICATION, b 668–9
  SONG, a b 668

—— (Abyssinia), I, b 62; (Afghânistân), b 209; (Africa), b 232; (Alps), b 557; (America), a 601; (Andaman Islands), II, b 13; (Arabia), a 212; (Asia), *b* 607, a 608; (Australia), III, b 97; (Brazil), IV, b 204; (Burmah), a 493; (California), b 623; (Canary Islands), a 704; (Cape Colony), V, a 40; (Ceylon), b 315; (Chili), a 542; (Durham), VII, a 484; (Ecuador), b 561; (Egypt), b 617–8; (Europe), VIII, a b 609; (Galls), X, b 42; (Greenland), XI, a 151; (Guatemala), a 213; (Hainan), a 335; (Himalaya), a b 744; (India), XII, a 781; (Japan), XIII, a b 585, notes; (Louisiana), XV, b 22; (Madagascar), b 171; (Madeira), b 180–1; (Mesopotamia), XVI, a 55; (Minnesota), b 498; (Natal), XVII, a 247; (Nepal), a 350; (Newfoundland), a 393; (New Guinea), a 397; (New South Wales), a 421; (Norway), a b 595; (Ornithology), XVIII, a 6–53; (Orkney), a 872; (Patagonia), a 358; (Philippine Islands), a 764; (Queensland), XX, b 180; (Reptiles), b 450; (Russia), XXI, a *b* 85; (St. Helena), b 179–80; (Sauropsida), a b 338; (Siberia), XXII, *b* 12; (South Australia), a 299; (Spain), b 311-2; (Spitzbergen), b 424-5; (Sweden), b 779; (Texas), XXIII, b 222; (Turkestan), a 676; (Vermont), XXIV, b 181; (Zoology, American), b 923, b 925, b 926
—— *of America* (Audubon), III, a b 62
—— appendicular skeleton of, XXII, a *b* 125, *a* *b* 126
Birds of Aristophanes, II, b 447

Birds, Acclimatization of, I, *a* 81; Anatomy of, b 741-2; III, b 604-31; in art (Japan), XIII, a b 599, b 600, b 601; Auguries of, III, a 64; axial Skeleton of, XXII, *a* b 119, *a* b 120, b 121, a b 122, *a* 123, a 124; brain of (Physiology) (Ill.), XIX, a 38; cretaceous fossil (Geology), X, a 318, b 319; Distribution of, III, a 639-62; VII, a b 234, *a b* 235, *a* b 236, *a* b 237, *a b* 238, *a b* 239, b 245, 246
—— *of Europe*, Sharpe and Dresser (Ornithology), XVIII, b 21
—— Flight of, IX, b 271-9
Bird's eye, Tobacco, XXIII, a 454
—— feeling in (Touch) (Ill.), XXIII, a 509; in Heraldry, XI, b 624-5
—— *History of British* (Yarrell), XXIV, b 768
—— Longevity of, XIV, b 868-9; migration of, III, a 663-8; (Germany), X, b 406; nest caves (Sabah), XXI, a 132
—— nests, III, b 668-9; edible (Nicobars), XVII, a 502; (Swift), XXII, a 799
——, olfactory organs of (Smell), XXII, a 176; ossification in (Skeleton), b 117
BIRDS OF PARADISE (Ill.), III, a 675-6; (Birds), *a b* 642, b 670; (Manucode), XV, b 511-2
——, Parasitism in, XVIII, a 261; (Trematoda), XXIII, b 573
Birds of Passage (Longfellow), XIV, a b 872
——, preserving (Taxidermy), XXIII, a b 96; rest of (Sleep), XXII, b 166; Reproduction of, XX, a b 419, b 421, a 422, a 432; sea (Peru), XVIII, b 684; Sex in, XXI, b 757; talking (Ballads), III, a b 245
Bird of the Wilderness, song (Whitefield), XXIV, a 585
Birdwood, Sir George Christopher Molesworth, orientalist (India), XII, b 835, b 837, b 851
Birejik, town. See BIR
Bireme, Greek vessel (Ship), XXI, *b* 842
Biren of Courland. See Biron
Bir-es-Seba (Beersheba), III, b 435
Biretta, cap (Universities), XXIII, b 890
Birger, king (Sweden), XXII, b 784
——, Brosa, viceroy (Sweden), XXII, a 784
Birgitta, Saint. See BRIDGET
Birgus latro, species (Crustacea), VI, a b 567, b 580, a b 581
Birinus, missionary of Wessex (England), VIII, a 252
Birkarlians, adventurers (Lapland), XIV, a 308
BIRKBECK, George, physician, III, a 676
—— Society, London (Building Societies), IV, b 460
Birkebeinars, adventurers (Norway), XVII, *b* 602
Birken, Sigmund von, historian (Germany), X, b 475
Birkenfeld, principality (Oldenberg), XVII, *a b* 779, a 780
BIRKENHEAD, town, III, b 676-7; (Liverpool), XIV, a 722
——, Sir John, journalist (Newspapers), XVII, b 424, a 425
BIRMINGHAM, city (Map), III, b 677-83
  character of people, b 681-2
  charities, b 679-80
  educational features, a b 680
  government, b 678-9
  history, a 682-3
  manufactures, a b 681
  public buildings, b 680-1
  site and growth, b 677-8
—— (Brass), IV, *b* 195, a 197; (Button), a b 532, b 533; (Gas Lighting), X, b 79; (Jewellery), XIII, *b* 688-9, a 690; (Libraries), XIV, b 520, a 521, b 542; (London), b 841; (Nails), XVII, b 172; (Newspapers), b 432; (Pen), XVIII, a b 494, a 495; (Warwick), XXIV, a *b* 400
—— festival (Mendelssohn), XVI, *b* 12
—— John de, earl of Louth (Ireland), XIII, b 266
—— New Street station (Railway), XX, a 244; School (Money), XVI, b 763; Wire gauge, X, b 99
Birnam, village (Dunkeld), VII, a 469
Birney, James Gillespie, abolitionist (Republican Party), XX, b 905; (Slavery), XXII, a 909
Birni, towns (Bornu), IX, *a* 55
BIRON, Armand de Gontault, marshal, III, a 683
BIRON, Charles de Gontault, duke, III, a 683; of (France), IX, b 498-9
——, E. J., of Courland (Anna Ivanovna), II, a 54
——, Louis Antoine, baron de, maréchal (Rodney), XX, *b* 633
Bironovstchina period (Russia), XXI, b 106-7
Birr, town and castle (Parsonstown), XVIII, b 333
Birs, river (Jura), XIII, a b 791
—— Nimroud, ruin (Architecture), II, b 349; (Babel), III, a 155; (Babylon), b 158
Birsay, town (Orkney), XVII, a b 873
Birsk, district and town (Ufa), XXIII, a *b* 764
Birt, Th., critic (Propertius), XIX, a 835
Birterbuy bay (Galway), X, *a* 51
Birth (Reproduction), XX, a b 422; ceremonies (Totemism), XXIII, b 499, b 501; new (Totemism), b 500
—— rate (Maine), XV, b 302; (Population), XIX, a b 531
Birth of Venus, Botticelli's (Schools of Painting) (Ill.), XXI, a 452
Birthright. See PRIMOGENITURE
Births (Registration), XX, b 356; control of (Communism), VI, b 192, a b 193; tax on (Finance), IX, b 159
Birthwort, plant. See Aristolochia
BISACCIA, city, III, a 683
Bis accusatus, dialogue (Lucian), XV, a 46
Bisálpur, town (Barelí), III, b 321
Bisanthe, town (Rodosto), XX, a 634
Bisaya *Dictionaries*, VII, b 166
Bisbal, count of. See O'DONNELL
Biscay, privileges of (Fuero), IX, a 712
BISCAY or Vizcaya, province, III, a b 683; (Spain), XXII, b 344; privileges of (Fuero), IX, a 712
BISCAY, BAY of, III, b 683
Biscayensis, species (Whale), XXIV, b 552, a 557
BISCEGLIA, city, III, b 683
——, Alphonso, duke of (Alexander VI.), I, a b 432
Bischof, Karl Gustav, chemist (Geology), X, b 230, b 233, a 243; spongy iron Filter, IX, a b 148
——, Theodor Ludwig Wilhelm, biologist (Embryology), VIII, b 153, a 155; (Gelatin), X, *b* 118; (Reproduction), XX, a 430
Bischoff's engine (Steam-Engine), XXII, a 551
BISCHWEILER, town, III, b 683
Biscoe, John, explorer (Geography), X, a 174; (Polar Regions), XIX, a 342
Biscop, Benedict, monk (Bede), III, a 45; (English Literature), VIII, b 362; (Sunderland), XXII, b 691, a 692
Biscuit, manufacture of (Baking) (Ill.), III, b 217-8
—— ware (Pottery and Porcelain) (Ill.), XIX, a b 618, b 622, a 623, a 634, b 636, b 648
"Biscuits" (India-rubber), XII, b 877, b 878
Bicuspid teeth (Dentistry), VII, a b 84; (Digestive Organs) (Ill.), b 202, a b 206
Bisection, continual (Graduation), XI, *b* 25-6
Bisexual flowers (Botany), IV, a 122
Bishári mines (Plate), XIX, a 189
Bisharis, tribes (Africa), I, b 233, b 239
Bishelik mountains (Syr-Daria), XXII, a 859
Bishīr, fish (Polypterus), XIX, a b 443
BISHOP, an ecclesiastic, III, b 683-5; (Abbot), I, *a b* 28; (Advowson), b 162; (Denmark), VII, a 73, a 75; (Durham, county), b 484; (Diocese), *a* 213; (Ireland), XIII, a b 254; (Methodism), XVI, a 195, a 196, a 200; (Peerage), XVIII, a b 469, a b 470, b 471, b 473, a 476, a 477; (Presbyter), XIX, *b* 694, a b 695. See Bishops and EPISCOPACY
——, figure in Chess, V, b 514, b 515, b 521
Bishop, Henry, postmaster (Post-Office), XIX, a 580
BISHOP, Henry Rowley, composer, III, b 685
——, Joel P., jurist (Divorce), VII, a 264, *a* 265; (Marriage), XV, a 572, b 574, *a* 575
Bishop Jon's Table-Talk (Iceland), XII, a 662
BISHOP-AUCKLAND, town, III, b 685-6
Bishopmill, suburb (Elgin), VIII, b 122
Bishopric (Cambray), IV, b 642, a 643; (Germany), X, a 422
Bishop rock (Lighthouse) (Plate VII), XIV, a 621, a 623
BISHOP-STORTFORD, town, III, a 686; (Hertford), XI, *b* 689, a 690
Bishops, authority of (Petau), XVIII, a 707
Bishops' Bible (English Bible), VIII, a b 347
Bishops' curates, Scotch (Presbyterianism), XIX, b 703
Bishops, election of (Investiture), XIII, b 207-8
——, English, appointment of, III, b 684-5; (Congé d'Élire), VI, a b 235; *Catalogue* of (Godwin, F.), X, a 638; incomes of (England), VIII, b 224; reformation (England), a 304, a 306
——, feudal Norman (England), VIII, *a* 269
—— in the Council of Trent, XXIII, b 579, a b 580, *b* 583, a 586 note
——, Irish (Parliament), XVIII, a 314; (Peerage), a 477; foundation of (Ireland), XIII, a 261
——, jurisdiction of (Monachism), XVI, a 733; lay, early (Socrates), XXII, b 252
——, *Lives of Scottish* (Boece), III, b 738
—— organization of (Roman Catholic Church), XX, a 646; origin of (Paul), XVIII, b 429; primitive (Pastoral Epistles), a 354
"Bishops and Regulars," congregation (Roman Catholic Church), XX, a b 645
Bishops' residence (Trent, Council of), XXIII, b 580, a b 584
Bishops, Roman (Popedom), XIX, a 503; Saxon (Parliament), XVIII, a 308; signatures of (Abbreviation), I, a 33 note; subjection of (Columba, St.), VI, a 150; "in temporalibus" (Ireland), XIII, b 268; tulchan (Presbyterianism), XIX, b 700, b 701; turbulence of (Portugal), b 557, a 558
Bishops' wars, Scottish (Henderson), XI, a b 581; (Milton), XVI, b 340. See EPISCOPACY
Bishopsgate (London), XIV, *b* 851, a 852
BISHOP-WEARMOUTH, town, III, a 686; (Sunderland), XXII, *b* 691
Bisitun antiquities (Kurdistan), XIV, a *b* 160, note

BISKARA or Biskra, town, III, a 686
Bismarck, Karl Otto von, Prince (Alsace), I, *b* 560; (Army), II, a 520; (Belgium), III, a 459; (Ewald, H.), VIII, b 677; (France), IX, a 551; (Germany), X, b 457–61; (Hanover), XI, b 400; (Harzburg), a 454; (Hesekiel), a 694; (Kissingen), XIV, b 104; (Lassalle), a 321, a b 322; (Prussia), XX, *b* 16, *a* 17; (Socialism), XXII, a 227; (William I., Emperor), XXIV, *a* 614
Bismite (Mineralogy), XVI, b 404
BISMUTH, metal, III, a 686–8; (Chemistry), V, a 467–9; (Cobalt), VI, b 75, a 76; (Founding), IX, a 423; (Magnetism), XV, b 267, *a* *b* 268, a *b* 269, a 270; (Mexico), XVI, b 909; (Mineralogy), b 387, a 396, b 404, b 407, a b 410, b 411, a 416, b 419, a 421, b 423, b 424, a 429
—— alloys (Lead), XIV, b 378
Bismuthine (Bismuth), III, b 686; (Chemistry), V, a 501; (Mineralogy), XVI, b 410
Bismuthite or Bismutite (Bismuth), III, b 686; (Mineralogy), XVI, a 416
Bismutoferrite (Mineralogy), XVI, a 444
Bismuto-sphærite (Mineralogy), XVI, b 415
BISON, ungulate, III, a 688; (Hunting), XII, a 412; (India), b 780-1; (Yellowstone Park), XXIV, a 774; wallows (Geology), X, a 257
Bisrámpur, town (Chutiá Nágpur), V, b 671
Bissagos, islands (Senegambia), XXI, *a* b 694, a 695
Bissão, town (Senegambia), XXI, a b 694
Bisschop, Simon, theologian (Episcopus, Simon), VIII, b 437
Bissell, Levi, inventor (Steam-Engine), XXII, b 925
Bissel pony truck (Steam-Engine), XXII, b 547
Bissen, Wilhelm, sculptor (Sculpture), XXI, b 597
Bisseni, people (Turks), XXIII, b 701
Bisseur, theatrical (Claque), V, b 700
Bissextile year (Calendar), IV, b 591
Bistám, king (Persia), XVIII, a 625
Bistre, color (Pigments), XIX, a 97
Bistritza, stream (Ipek), XIII, a 217
Bisulphate of potassium, XIX, a 609
Bisulphide of carbon (Optics), XVII, *b* 824, *a* 825; extraction by (Oils), XVII, b 763
Bisutun, inscriptions. See BEHISTUN
Bisztra Mountains (Carpathian Mountains), V, a 112
Bit, boring (Hand Tool), XI, a 392
BITHYNIA, district, III, b 688–9; (Asia Minor), II, *b* 621, b 622; (Numismatics), XVII, a b 662
Bithynians, people (Asia Minor), II, a 622
Bitlis or Bedlis, river (Tigris), XXIII, a 413; town (Betlis), III, b 533
Bitolia, city (Monastir), XVI, b 745
BITONTO, city, III, a b 689
Bits (Horse), XII, b 202
BITSCH or Bitche, town, III, b 689
Billæus or Filyas, river (Bithynia), III, a 689
Bitter almond, flavor (Laurel), XIV, a 349; oil (Liebig), b 569; (Oils), XVII, b 766; (Wöhler), XXIV, a 660
—— apple, fruit (Colocynth), VI, b 135–6
Bitter Lakes (Canal), IV, b 698, a 699; (Egypt), XVII, a 615; (Suez Canal), XXII, b 653
BITTERN, bird, III, b 689; (Birds), a 645; (Heron) (Ill.), XI, b 679, b 680–1; (Japan), XIII, a 585
Bitterne, suburb (Southampton), XXII, a 297
Bitterroot mountains (Idaho), XII, a 736; (United States), XXIII, b 847
BITTERS, beverage, III, b 689; (Liqueurs), XIV, *a* b 693
Bitter springs (Mineral Waters), XVI, a b 455
Bittersweet, plant (Dulcamara), VII, a 449; (Nightshade), XVII, b 512
Bitts defined (Seamanship), XXI, b 632
Bitumen, mineral (Congo), VI, a 236; (Chemistry), V, b 503; (Dead Sea), VII, b 4–5; (Hit), XII, a 27; (Jet), XIII, a b 683; (Mineralogy), XVI, a 447; (Salt), XXI, a b 241; elastic (Mineralogy), XVI, a 447; wells (Zante), XXIV, b 805
Bituminous cements (Building), IV, a b 411
—— Coal, VI, *b* 43, *a* *b* 44; (Anthracite), II, a b 94; (Maryland), XV, b 609; (Mineralogy), XVI, a b 448
—— coal, analyses (Gas and Gas-lighting), X, *a* 80–1; distillation (Coal Tar Colors), XVIII, b 899–900; (Pennsylvania), a b 512; industry (United States), XXIII, a *b* 864, a 865
—— slate, California (United States), XXIII, a 852; stones (Asphalt), II, b 625, a 626
Bitzius, Albert or Jeremias Gotthelf, novelist (Switzerland), XXII, b 838
Bivar. See The CID
Biwa, lake (Japan), XIII, b 581–2
Bixa Orellana, plant (Arnotto), II, b 548
Bixio and Barral (Aëronautics), I, a 176
Biya river (Siberia), XXII, b 9
Biyerre river (Zaire), XXIV, a b 802. See Arawhimi
Biyisk, town (Siberia), XXII, b 16; (Tomsk), XXIII, a b 467
BIZERTA or Benzert, town, III, a 690; (Tunis), XXIII, a b 660
Bizzarria, orange (Hybridism), XII, b 441
Bjarni, explorer. See Bjorn
Bjerregaard, Henrik Anker, author (Norway), XVII, b 604
Bjoreia, river (Norway), XVII, b 589
Björkö or Birca, city (Stockholm), XXII, b 586 note; island (Sweden), b 775
Bjorn, Bjorni or Bjarni, discoverer of America (Geography), X, b 159; and Lief (America), I, a 620; (Greenland), XI, a 153
Björnsen, Björnstjerne, novelist (Norway), XVII, b 605, a 606; (Pastoral), XVIII, a 353
Blaaven, mountain (Skye), XXII, a 135
Blachernæ, quarter (Constantinople), VI, b 270 note, a b 271, a 272
Black, Adam, publisher (Encyclopædia), VIII, a 184
BLACK, Joseph, chemist, III, a b 690; (Aëronautics), I, a 171; (Chemistry), V, a 400; (Graham), XI, a 30; (Potassium), XIX, *b* 606; Blowpipe of, III, b 727
——, W. H., antiquary (London), XIV, b 851
Black Acts (Presbyterianism), XIX, a 701
Black Art (Demonology), VII, b 56, a 57
—— Ash making (Sodium), XXII, a b 256
—— assizes, disease (Pathology), XVIII, b 413; (Typhus), XXIII, b 718
—— ball, fungus (Agriculture), I, b 315
—— band, ore (Iron), XIII, b 291, a 294, b 297; (Metallurgy), XVI, b 65
—— bear, III, a 399
BLACKBIRD, III, a 694; (Grackle), XI, b 24–5; (Ousel), XVIII, a b 78; brain of (Ornithology), XVIII, b 51
"Black bonnets," people (Turkestan), XXIII, b 677
Black Book of the Admiralty (Admiral), I, b 143, a 148; (Navy), XVII, b 287, b 288, b 304, b 306; (Sea Laws), XXI, a 611, *a* 612, a 613
—— *of Carmarthen* (Celtic Literature), V, a 273, a *b* 274, *a* 276, b 277
—— *of the Exchequer* (Knighthood), XIV, b 115; (Records), XX, b 325; (Royal Household), XXI, b 41–2, note
—— *of the Household* (Royal Household), XXI, *a* 42, note
Black-buck, deer (India), XII, b 780
BLACKBURN, town, III, a b 694; (Cotton), VI, *a* 444
—— pendulum (Mechanics), XV, a b 719
Black Canons (Abbey), I, a 25
Blackcap, bird (Whitethroat), XXIV, b 584, note
Black Cart, river (Renfrew), XX, a 407
—— clergy (Monachism), XVI, a 727
BLACKCOCK, bird, III, b 694–5; (Grouse) (Ill.), XI, a 198; (Shooting), XXI, a 874
Black colors (Dyeing), VII, a 495, a b 501; (Pigments), XIX, a 97; aniline- (Calico-printing), IV, a 611, a 612; (Coal Tar Colors), XVIII, b 904; bone- (Pigment), XIX, a 97; chrome- (Calico-printing), IV, a 612; ivory- (Pigments), XIX, a 97; lamp- (Pigments), a 97
—— corals (Ill.), VI, a b 329
Black Death, plague (Edward III. of England), VII, b 593; (England), VIII, a 292; (Knighthood), XIV, a b 123; (Plague), XIX, a b 170, a b 174
—— Dome, mountain (Appalachian Mountains), II, b 175; (United States), XXIII, b 843, b 844
—— Down hills (Somerset), XXII, a b 271
Black-eyed Susan (Jerrold), XIII, b 643
Black-faced sheep (Agriculture), I, b 348, b 349, a 352, a 353
Blackfeet, tribes (Indians), XII, b 865, b 867, a 871
Blackfish (Wrasse), XXIV, a 722
Black flag (Mohammedanism), XVI, b 599, a 606
"Black Flags," rebels (Tongking), XXIII, *b* 469, a b 470
BLACK FOREST, III, b 690; (Baden), *b* 193, a 194; (Forests), IX, *a* 352; (Germany), X, a b 403, b 404; (Würtemberg), XXIV, a *b* 735-6
—— Fox (Marten), XV, b 584
—— Friars (Abbey), I, a b 27; (Dominicans), VII, b 307; Bridge (Bridges), IV, a 300; (London), XIV, *b* 831, *a* b 832, a b 861; theatre (Drama), VII, b 374; (Shakespeare), XXI, *b* 796, *a* 797, a b 802; vespers (London), XIV, b 858
Black Gum, tree (United States), XXIII, b 860
Black Halls, rocks (Durham), VII, b 483
—— Hawk war (Scott, Winfield), XXI, b 576 note, b 577; (Wisconsin), XXIV, a b 652
"Black Hawks," breed (Horse), XII, a 208
Blackheath club (Golf), X, a 682; common (Greenwich), XI, b 155; (London), XIV, a 827, b 833, b 856
—— hellebore (Ill.), XI, b 566–7, a 568
—— Hills (Dakota), VI, b 681; (United States), XXIII, b 847–8
—— Hole (Calcutta), IV, b 582; (India), XII, b 840
Blackie, John Stuart, philologist (Accent), I, a 77, a 78
Black Jack, ore (Zinc), XXIV, b 823
—— Jews (Loango), XIV, a 749
—— lead (Plumbago), XIX, a b 242

Black Letter, type (Typography), XXIII, a 738, a 739, b 743-4
—— list, employers' (United States), XXIII, a b 835
BLACKLOCK, Thomas, poet, III, a 695
Blackmailing (Theft), XXIII, a 253
Blackman propeller fan (Ventilation), XXIV, a 775
—— Monday (Dublin), VII, a 433
BLACKMORE, Sir Richard, author, III, a 695; (Sydenham), XXII, b 844
Black Mountains (Africa), I, a 224
—— Mountains (America), I, b 595; (Appalachian Mountains.), II, b 175; (North Carolina), XVII, b 572
—— Mountains (Brecon), IV, a 218
—— Mountains (New Mexico), XVII, a b 410
Blackness (Light), XIV, b 613
Black Oak, XVII, b 712-3
—— oath (Ireland), XIII, b 272-3; (Presbyterianism), XIX, a 711
—— Opals, XVII, b 799
—— Pepper, XVIII, b 526
—— or Austrian Pine, XIX, a 113
BLACKPOOL, town, III, a 695
Black Poplar, XIX, a 526
BLACK PRINCE, EDWARD the, VII, b 595; (England), VIII, b 286, a 287; (France), IX, *a* b 482, *a* 483; widow of (Chaucer), V, a 393
—— quarter, disease (Murrain), XVII, a 65
—— rat (Mouse), XVII, b 11
—— rod. See Usher of
—— river (Formosa), IX, b 366
—— river (Jamaica), XIII, b 558
—— river (New York), XVII, a 463; (Watertown), XXIV, b 432
—— or Ba fing, river (Senegal), XXI, a 692
—— river (Zaire or Congo), XXIV, a b 802
—— rot, disease (Vine), XXIV, b 258
BLACK SEA, III, b 690–4
  climate, a 692
  coast line, a 691–2
  currents, b 693
  drainage area, b 692
  evaporation, a 693
  Sea of Azoff, b 691
  zoology, a 694
—— (Lake), XIV, a 223; (Russia), XXI, b 79, *a* 85, a 86, a 87; (Sea), *b* 605; ancient outlets of the (Caspian Sea), V, a b 157; river basin (Russia), XXI, b 80–81, *a* 83, *a* 85; Russian vessels in (Turkey), XXIII, a b 688, b 692; steam navigation (Patents), XVIII, b 885, a 886
Black Snake (Zoology), XXIV, b 924
Black-sod bay (Mayo); XV, b 656
Black stone or Kaaba (Mecca), XV, b 678, a *b* 679; (Mohammedanism), XVI, a 609
BLACKSTONE, Sir William, jurist, III, b 695-6; (Action), I, b 122; (Bentham), III, *a* 497; (Common Law), VI, a 186; (Constable), a 263; (Contempt of Court), a 283, a 284; (Copyright), a b 316; (Coroner), b 381; (Court), a b 458; (Deodand), VII, b 87, *a* 88; (Felony), IX, b 60; (Fictions), a 123; (Fine), a 169; (Forgery), b 364; (Harbors and Docks), XI, b 421; (Law), XIV, b 355, a 356, a 362, note, a 363; (Witchcraft), XXIV, a 655; (Writ), b 729; on Magna Charta (Charter), V, a b 374
Black Tea, XXIII, a b 106, a *b* 107
—— Town. See MADRAS
Blackwall, John, naturalist (Arachnida), II, b 255, b 256, b 258, *a* b 259, *a b* 260, b 261, *a* 262
—— dockyard (India), XII, b 838
—— hitch, double (Seamanship) (Ill.), XXI, a b 618
——, suburb (London), XIV, b 840
Black Walnut, tree, XXIV, a 354
Black ware (Etruria), VIII, b 563-4; (Pottery and Porcelain), XIX, a b 637
Blackwater river (Armagh), II, *a* 478; (Cork), VI, b 357; (Kerry), XIV, a 53; (Kildare), a 74; (Meath), XV, a 675; (Tyrone), XXIII, b 759; (Waterford), XXIV, *b* 422
—— river (Essex), VIII, *a* 488
Blackwattle bay (Sydney), XXII, a 846
Blackwell, Thomas, critic (Homer), XII, a 119
Blackwell's weir discharge table (Hydromechanics), XII, 495
Black Whale, XXIV, a 553
—— Witch, bird (Cuckoo), VI, a 608
Blackwood, Adam, jurist (Scotland), XXI, b 568
——, Henry, physician (Scotland), XXI, b 468
Blackwood's Magazine (Aytoun), III, *a* 144; (Hogg), XII, *a* 53; (Lockhart), XIV, *a* b 770; (Moir), XVI, *a* 630; (Periodicals), XVIII, a 548; (Wilson), XXIV, b 623–4
Bladder (Mammalia), XVI, a 369; cells (Tunicata), XXIII, b 648; diseases (Vesical Diseases), XXIV, a 204–7; parasites (Trematoda), XXIII, b 572-3, *a* 574; of Utricularia (Insectivorous Plants), XIII, b 144; worms (Tape-worms), XXIII, b 57, a 58, b 60
—— -nut tree (Arboriculture), II, b 280
Bladé, ethnologist (Iberians), XII, a b 640
Blades, William, printer and author (Typography), XXIII, a 739, *b* 757
Blaeu, William Janson, geographer (Globe), X, b 608, a 609
Blagovyeschensk, town (Siberia), XXII, b 16
—— monastery (Nijni-Novgorod), XVII, a 515
Blagrove, Henry, musician (Music), XVII, a 101
Blain, disease (Murrain), XVII, b 64
Blaina oven (Iron), XIII, b 310
BLAINE, Sir Gilbert, physician, III, b 700
Blaine campaign (Republican Party), XX, a 908; (United States), XXIII, b 833
BLAINVILLE, Henri-Marie Ducrotay de, naturalist, III, b 696-7; (Actinozoa), I, b 119; (Amphibia), b 657; (Arthropoda), II, a 566; (Brachiopoda), IV, b 170, a 174, a 176; (Mammalia), XV, b 373, *a* 378; (Morphology), XVI, b 865; (Ornithology), XVIII, a 12 note, b 19, a b 24, a b 25; (Reptiles), XX, b 448; (Sheathbill), XXI, a 819
BLAIR or Port Blair, town, III, a 697
——, Austin, governor (United States), XXIII, a 822
——, Francis Preston, statesman (Lincoln), XIV, a b 668
BLAIR, Hugh, rhetorician, III, a 697; (Smith, A.), XXII, b 180
——, John, poet (Wallace), XXIV, a 347
——, R. H., philanthropist (Blind), III, a 720
——, Robert, optician (Light), XIV, b 596, a 597
BLAIR, ROBERT, poet, III, a b 697
——, William, historian (Slavery), XXII, b 140, b 141
—— Athol, pedigree (Horse), XII, *a b* 189, 190
Blair's fluid object-glasses (Telescope), XXIII, b 155
Blair's process (Iron), XIII, a 358; spongy metal apparatus (Iron) (Ill.), a 346
Blaise, river (Marne), XV, a 568; (Marne, Haute), XV, b 568
Blaize, St., bishop (Bradford), IV, a 179
Blakan Mati island (Singapore), XXII, *a* 101
Blak-Bulk (Act of Parliament), I, a 114
Blake, Francis, inventor (Telephone), XXIII, a b 140, a 143, a 937; his transmitter (Telephone), b 931
——, Lyman R., inventor (Shoemaking), XXI, a 870
BLAKE, Robert, admiral, III, b 697–8; (Home), XII, a 111; (Taunton), XXIII, a 89; (Tromp), b 624; (Tunis), a 661
Blake steam-pump (Steam-Engine), XXII, a 541
BLAKE, William, artist, III, b 698–700; (Blair), b 697; (Linnell), XIV, b 681; (Palmer), XVIII, a 197
——, William P., geologist (Turquoise), XXIII, a 712
Blake's stone breaker (Ill.), (Mining), XVI, b 484
Blakey, Robert, critic (Psychology), XX, a 90
Blakiston, T., ornithologist (Japan), XIII, a 585 note
BLANC, Mont, III, b 700; (Alps), I, b 545, a *b* 549; (France), IX, a 446
——, Hippolyte, historian (Camisards), IV, b 657, b 658
——, Louis, historian and socialist (Communism), VI, b 190–1, *a* b 192, a 195; (France), IX, *b* 547, b 598; (Socialism), XXII, b 217, b 219, *a* b 220, a 229, a 231; (Talleyrand), XXIII, b 37
Blanca Montaña (Canary Islands), IV, a 705
Blanca Peak (United States), XXIII, b 846
Blanc de fard, pearl-white (Bismuth), III, a 687
—— fixé, color (Pigment), XIX, a 95
Blanchard, Emile, naturalist (Arachnida), II, a 244, a 258; (Parrot), XVIII, b 328; (Ornithology), b 35–6 note; (Siredon), XXII, a 104, a 105
——, Jean Pierre, balloonist (Aëronautics), I, b 171, *a* 172, b 174, a 181
——, Thomas, inventor (Patents), XVIII, b 879, a 880
Blanche of Aragon, heiress of Navarre (Spain), XXII, b 339
—— of Bourbon, queen of Castile (Spain), XXII, b 334–5
—— of Castile, queen of France (France), IX, b 478; (Paris), XVIII, a 294
—— of Navarre, queen of Aragon, 1442 (Spain), XXII, b 338, a 339
—— August Teodor, dramatist (Sweden), XXII, b 796
Blanchemain, Prosper, editor (Ronsard), XX, a 865
Blanchet's hoisting method (Mining), XVI, a–b 478
Blanching coin (Mint), XVI, b 512
Blanco, Guzman, president (Venezuela), XXIV, a 153
Bland Act (Money), XVI, a 759 note, b 762
—— *Papers* (Tucker, St. George), XXIII, a 947
Blandin of Cornwall (Provençal Literature), XIX, a 901
Blane, Saint (Bute), IV, a 517
BLAÑES, city, III, b 700
Blanford, Henry F., physicist (Hygrometry), XII, a 605; (India), a 776; (Meteorology), XVI, a 187–8
——, W. T., traveller (Persia), XVIII, b 632–3, a 635
Blankenburg, circle (Brunswick), IV, b 360, a 361; town (Schwarzburg-Rudolstadt), XXI, b 482
Blankets, fabrics (Flannel), IX, a 255
Blanks, adjusting of (Mint), XVI, b 511, b 512, note; annealing of (Mint), a b 512; cutting of (Mint) (Ill.), b 511
Blank verse (Marlowe), XV, a b 563, a 564, a 565; (Surrey), XXII, a 731
Blanpain's Comet, VI, b 171

Blanquefort, Bertrand de, master (Templars), XXIII, a 176
Blanshard Pontoon, XIX, b 471, a b 472
Blaps mortisaga, species (Coleoptera) (Ill.), VI, b 120
Blarina, genus (Shrew), XXI, a 884
BLARNEY, town, III, b 700; Castle (Cork), VI, b 359
Blasia, mosses (Muscineæ), XVII, a b 74, a 75, b 76
Blasieholmen, district (Stockholm), XXII, b 587
Blasius, Gerard, anatomist (Ornithology), XVIII, b 11
——, J. H., naturalist (Ornithology), XVIII, a 13, a 21, b 29, b 32, b 33, b 41
——, Wilhelm, naturalist (Trumpeter), XXIII, a 632
Blasons (Marot), XV, b 570
BLASPHEMY, III, b 700-1; (Campbell, Lord), IV, a 670; punishment of (Nayler), XVII, b 311
Blast, economy of (Iron), XIII, a 323-6; hot, in basic process (Iron), b 355, a 356, production of (Iron), b 308-10; production in converter of (Iron), a b 354; temperature of (Iron), b 311-2, b 323-4, b 325
—— engines (Bellows), III, b 474-7; (Metallurgy), XVI, a b 65
—— furnace (Iron), XIII, b 298, b 299, a 304-13; (Lead) (Ill.), XIV, b 375-6; (Metallurgy), XVI, *b* 65; chemical reactions of (Iron), XIII, a 317-9; gases in (Iron), a 317-9; heat development in (Iron), b 319-23; manganeisen in (Iron), a 361; slag (Glass), X, a 593
BLASTING, III, a 701-4
  electricity, a 703-4
  engineering works, b 701-2
  explosives, a 702-3
  process, b 701

—— (Dredging) (Ill.), VII, a b 402; (Mining), XVI, a 465, a 466; (Tunnelling), XXIII, b 662 *sq.*; gelatin (Mining), XVI, a 465; (Nitroglycerin), XVII, a b 534-5; powder (Gunpowder), XI, a 285
Blastocheme (Hydrozoa), XII, a 596
Blastocœle, cavity (Animal Kingdom), II, b 46
Blastocolla, secretion (Botany), IV, b 81; (Histology), XII, a 20
Blastoderm, tissue (Embryology), VIII, b 150, a 154, a 156; (Histology), XII, b 6, b 9; (Monster), XVI, a b 792; of ova (Reptiles), XX, a 477
Blastoidea, order (Echinodermata) (Ill.), VII, a 544, b 553, b 555
Blastomeres (Animal Kingdom), II, *b* 46; (Biology), III, b 592, a 594
Blastophaga, insect (Hymenoptera), XII, b 606, a 611
Blastopore, opening (Evolution), VIII, a 654; (Mollusca) (Ill.), XVI, b 659, a b 660, a 661
Blastosphere cells (Sponges) (Ill.), XXII, b 441, a 442
Blastostyles (Hydrozoa), XII, b 587
Blathmac, king (Ireland), XIII, b 256
Blathnad, Abduction of (Celtic Literature), V, a 269
Blatta, parasite of (Protozoa), XIX, a b 878
Blattidæ, insects (Cockroach), VI, a 92; (Insects), XIII, a 159
Blauberg range (Transvaal), XXIII, a 550
Blaxton, William, divine (Boston, U. S.), IV, *b* 64
Blazoning (Heraldry) (Ill.), XI, b 615-30
BLEACHING, III, a 704-15
  bees'-wax, a 715
  chemical processes (Ill.), a 707-9
  cotton (Ill.), b 705-11
  finishing processes (Ill.), b 709-11
  history of processes, b 704-5
  linen, b 712-3
  mechanical preparation (Ill.), b 705-7
  paper material, a 713
  silk, b 714-5
  thread, b 711-2
  wool, a 714

—— (Hair), XI, a 337; (Linen Manufactures), XIV, b 673; (Paper), XVIII, a 224
—— agents (Glass), X, a 585; dyeing and (Glasgow), b 575-6; oil (Linseed), XIV, b 683-4; powder (Chemistry), V, a 416, b 426, a b 428; (Chlorine), b 589-90; sulphurous (Chemistry), b 435, a 436
Bleak fish (Angling), II, b 40
Bleak House (Dickens), VII, a 153
Bleda, chief of Huns (Attila), III, *b* 54; (Huns), V, a 397
Bleddyn, the Bard (Celtic Literature), V, a 278
Bleeding (Alexander of Tralles), I, a 430; (Drowning), VII, b 411; excessive liability to (Pathology), XVIII, b 382
BLEEK, Friedrich, theologian, III, b 715-6; (Colossians), VI, a *b* 148; (Corinthians), b 354, a 356; (Hebrews), XI, b 541; (Jeremiah), XIII, b 638, *a b* 639
BLEEK, Wilhelm Heinrich Immanuel, philologist, III, a 716; (Hottentots), XII, *a* b 326; (Pentateuch), XVIII, b 516, a 519, b 522; (Zululand), XXIV, *a* 867
Bleeker, P., zoologist (Ichthyology), XII, b 671; (Indian Archipelago), *a* 857
Bleekrode, physicist (Electrolysis), VIII, a 101, note
Blegno valley (Ticino), XXIII, *b* 373
Bleiniere, ore (Mineralogy), XVI, b 446
Blekinge, province (Carskrona), V, a b 99; (Sweden), XXII, a 778, b 779, b 780, *b* 784, a b 786, *a* 788
Blemmyes, tribe (Nubia), XVII, *a* 627
Blende (Mineralogy) (Ill.), XVI, b 360, b 363, a 377, b 378, b 383, b 386, *a* 387, b 390, b 408
——, copper (Mineralogy), XVI, a 412; Nickel, XVII, b 500; pitch (Mineralogy), XVI, a 402; Zinc, XXIV, *b* 823, a 824
Blending Wool, XXIV, b 692
Blenheim (Philips), XVIII, a 769
BLENHEIM or Blindheim, town, III, a 716; battle of, 1704 (Addison), I, a 135; (Austria), III, a b 110; (France), IX, b 512; (Marlborough), XV, b 561
BLENHEIM HOUSE, III, b 716; (Vanbrugh), XXIV, a 61, *a* 62; (Woodstock), b 687
Blenniidæ, fishes (Ichthyology), XII, b 698, b 715, a b 716, a 729; (Sea-wolf), XXI, a b 645
Blepharitis, disease (Ophthalmology), XVII, a 808
Blesbok (Antelope), II, a 90
Blesensis. See PETER OF BLOIS
Blessberg, mountain (Saxe-Meiningen), XXI, a 364; (Thuringia), XXIII, a 353
Blessed Thistle, XXIII, b 327, note
Blessedness of the Righteous (Howe), XII, a b 336
"Blessing of the Bay," vessel (United States), XXIII, b 780
BLESSINGTON, Margaret Power, countess of, novelist, III, b 716; (Byron), IV, b 542, *a* 544; (D'Orsay), VII, a *b* 320
BLICHER, Steen Steensen, poet, III, b 716-7; author (Denmark), VII, a 81; poet (Pastoral), XVIII, a 353
BLIDAH, town, III, a 717
BLIGH, William, admiral, III, a 717; (Geography), X, b 169; (Tahiti), XXIII, b 29
Blight. See MILDEW
——, apple (Horticulture), XII, a 279; hop (Agriculture), I, a 339; (Brewing), IV, b 243
Blight-bird (Zosterops), XXIV, b 863
BLIND, defective class, III, b 717-24
  America, a 722-4
  British institutions, b 717-8
  colleges in England for, a 720-1
  general facts, b 717-8
  Paris, b 721-2
  Saxony, a b 721
  types and methods, a 718-20
  vitality tables, 722-3

—— (Bernoulli), III, b 522; (Corea), VI, b 349; (Persia), XVIII, a 650; (Scotland), XXI, a 552; asylum (Paris), XVIII, a 288; feeling in (Touch), XXIII, a 511; printing for, III, a 718-20; (Typography), XXIII, a 741
—— coal (Geology), X, b 275, a 277
—— fish (Ichthyology), XII, b 731
—— Harry, minstrel, XI, b 443; (Ayr), III, b 142; (Scotland), XXI, b 566; (Wallace), XXIV, *a* 347, *a* 348
—— *Man's Buff*, painting (Wilkie), XXIV, a 600
—— roaster, furnace (Sodium), XXII, b 255
—— spot (Eye), VIII, b 719
—— Traveller, pseudonym. See James HOLMAN
"Blink-bonny" (Horse), XII, *b* 189, 190
Blister flies (Cantharides), V, a b 29; (Coleoptera), VI, b 120
—— steel (Iron), XIII, a 349, a 350, a b 352; Copper, VI, a 310
Blisworth cutting (Railway), (Ill.), XX, b 240-1
Blithe, Walter. See Blythe
Blithedale Romance (American Literature), I, b 637
Blitong island. See BILLITON
Blizzard, storms (United States), XXIII, a b 856, b 858-9
Bloaters, fish. See HERRING
Bloch, Carl, printer (Denmark), VII, *a* 82
BLOCH, Mark Eliezer, naturalist, III, a 724; (Ichthyology), XII, a 669
Blochmann, Henry, antiquary (Gaur), X, b 103, a b 104
Block, Maurice, statistician (Population), XIX, a 528, a 529, a b 530, b 531, b 532; (Statistics), XXII, *b* 478, a *b* 479, a b 480, a 482, a 483
BLOCKADE, III, b 725-6; (Contraband), VI, b 284, a 285; (War), XXIV, a b 385
——, American, 1861-5 (Palmerston), XVIII, b 201; (Bahamas), III, a b 205; (United States), XXIII, b 823, a 826, b 827, b 828
—— of Europe, 1806 (France), IX, a 524; (United States), XXIII, a 807
——, law of (International Law), XIII, b 196, a 200, b 202; running, III, a 726; (Contraband), VI, a 286
Block-books (Bibliography), III, b 564; (Physiognomy), XIX, b 8; (Polo), a 423; German (Typography), XXIII, b 726; printers (Typography), a 726
Block coal, VI, a 57
Blocking, process (Hat), XI, *a* 464; course (Building), IV, b 422
BLOCK MACHINERY, III, b 724-5; (Brunel), IV, b 357-8; (Machine Tools), XV, b 153
—— printing (Calico-printing), V, a 607; (Typography), XXIII, b 724, b 725-7
Blocks (Mechanics), XV, b 772-3; stropping (Seamanship) (Ill.), XXI, b 620-1; in violin, XXIV, a b 261
Blocks, volcanic (Geology), X, b 216-7

Block-system signals (Railway), XX, b 247; tramway (Traction), XXIII, b 527, a 528
Block Tin, XXIII, a 428
Blocqueville, M. de, traveller (Persia), XVIII, a 629
Blödite (Mineralogy) (Ill.), XVI, b 418
Bloemfontein, town (Orange River Free State), XVII, a 837
Bloemhoff district (Transvaal), XXIII, b 550, *a* 551
BLOIS, town, III, a 726; (Libraries), XIV, b 523, a 547
——, Guide, count of (Froissart), IX, *b* 702, *b* 703
——. See PETER OF BLOIS
——, House of (Champagne), V, a 335
Blomberg or Blumberger, Barbara, mistress (John, Don), XIII, a b 727
BLOMFIELD, Charles James, bishop, III, b 726
——, Leonard, zoologist (Reproduction), XX, b 424, a 435
Blommaert, Samuel, governor (Borneo), IV, *a* 53
Blomstrandite (Mineralogy), XVI, a 445
BLONDEL, David, writer, III, b 726; (Canon Law), V, a 17, b 21; on French character (Army), II, b 527
——, François, architect, (Building), IV, b 444, b 447
Blood (Anatomy), I, b 741, b 789–90; (Mammalia), XV, b 366–7; (Respiration), XX, a b 488, b 494, a 496–500
BLOOD, Thomas, politician, III, a 727
Blood of Anodon (Mollusca), XVI, b 717
—— -bath of Stockholm (Gustavus I.), XI, b 297
—— cells, migration of (Pathology), XVIII, b 409
Blood circulation (Dropsy), VII, b 407; (Harvey), XI, b 448, b 449–51; (Medicine), XV, a b 819–20; (Pathology), XVIII, b 384; (Physiology), XIX, b 19–20, a b 21; (Vascular System) (Ill.), XXIV, a 106–20
——, circulation in brain (Physiology) (Ill.), XIX, a b 49; duration of (Vascular System), XXIV, b 117–8; mechanical force of (Vascular System), a b 105–6, b 115, b 116, b 117, a 118; pressure of (Vascular System), a 116–7; velocity of (Vascular System), a 117–8, a 119
——, coagulation of (Hunter), XII, b 406
——, composition of (Iron, Therapeutics of), XIII, a b 369
—— corpuscles (Anatomy), I, b 741–3; (Manatee), XV, b 461; (Mollusca), XVI, b 656; colorless (Anatomy), I, a 742–3; (Pathology), XVIII, a b 383; in a cut (Surgery), XXII, a b 717; distribution of (Vascular System), XXIV, a b 118; motion of (Vascular System) (Ill.), a 115, b 117–8
—— - covenant (Sacrifice), XXI, a 146
—— determination, inflammatory (Pathology), XVIII, a 409; diseases of maturity (Pathology), XVIII, a 383–4
—— fertilizers (Abattoir), I, b 14; (Agriculture), b 310–1
—— feud (Abner), I, b 52; (Circassia), V, a 689; (Crime), VI, b 515; (David), b 738, b 739, a 740; (Polynesia), XIX, b 437, note; (Totemism), XXIII, b 501
—— fines (Arabia), II, a 215; (Salic Law), XXI, b 223, a 224; (Somali), XXII, b 269
—— of fishes (Ichthyology), XII, a 696–7
——, formation of (Nutrition), XVII, a b 697–9, a b 700, b 701–2; from connective tissue (Pathology), XVIII, b 370, a 371
Bloodhound (Dog), VII, b 285
Blood of Insects, XIII, a 152
—— -letting (Leech), XIV, b 403; (Medicine), XV, a 818
—— - making in rickets, (Pathology), XVIII, a 381
—— Ordeal, XVII, b 842
—— - poisoning (Septicæmia), XXI, a b 699
—— rain (Geology), X, b 236
Blood's Pontoon, XIX, *a b* 472
Blood of Siphonopoda (Mollusca), XVI, a 704
—— of Solen (Mollusca), XVI, b 717
——, spectrum of (Light) (Ill.), XIV, b 605–6
Blood-Stone (Agate), I, a 248; (Heliotrope), XI, a 556; (Mineralogy), XVI, b 405
Blood-suckers (Lizard), XIV, a 743
——, suprarenal (Pathology), XVIII, a b 392
—— system of Echinodermata (Animal Kingdom), I, a 48; VII, a 546, a 548; of Tunicata, XXIII, b 649, a b 651
—— test (Guaiacum), XI, a 206
——, transfusion of (Vascular System), XXIV, a 105
Blood, Treatise on the (Hunter, J.), XII, b 404, *a b* 406 notes
"Blood tribunal" (Holland), XII, a 78
—— tumors (Pathology), XVIII, a b 376
Blood-vessels of bone (Anatomy), I, a 750; of choroid (Anatomy), a *b* 779; of cornea (Anatomy), b 778; development of (Anatomy), *b* 797; diseases of (Surgery), XXII, b 718–9; in granulation (Pathology) (Ill.), XVIII, a b 370; of heart (Anatomy), I, a b 792; innervation of (Vascular System), XXIV, b 119–20; intestinal (Digestive Organs), VII, a 198, a 199; of the iris (Anatomy), I, b 779; lining of (Anatomy), a 745; of liver (Digestive Organs), VII, a b 200; of lungs (Respiration), XX, a b 489; nerve influence on (Physiology), XIX, b 34–5; physiology of (Vascular System) (Ill.), XXIV, a 112–8; of retina (Anatomy), I, a 780, a 781; of skin (Anatomy), a 788; of tongue (Anatomy), a 787
——, vitality of (Hunter, J.), XII, b 406
Blood and water, John's doctrine of (Gospels), X, a 737–8
Bloodwort, plant (Dock), VII, a 269
Bloody assize (Jeffreys), XIII, b 629
Bloody fields (Dublin), VII, a 433
Bloody flux, disease (Dysentery), VII, b 505–6
Bloody Mary. See MARY, queen of England
Bloody statute (Henry VIII), XI, a 593
Bloom (Iron), XIII, b 327; treatment of (Iron), b 335–7
——, deposit (Leather), XIV, a 385
—— or blume, flavor (Wine), XXIV, b 633, a b 634
Bloomery furnace (Iron), XIII, a 304
Bloomfield, N. Y., town (Gas-Lighting), X, b 79
BLOOMFIELD, Robert, poet, III, a 727
Bloomsbury, district (London), XIV, b 827, *a* b 842, b 845, *b* 846, a 858, b 861; market (London), b 837; square (London), a 850, a b 861
Bloor, Robert, potter (Pottery and Porcelain), XIX, a 662
Blots (Backgammon), III, b 171
Blotting Paper, XVIII, a 223
BLOUNT, Charles, author, III, a 727; (Deism), VII, a b 31–2; (Philostratus), XVIII, a 811
Blount's *Censura* (Bibliography), III, b 563, a 564
BLOW, John, composer, III, a b 727; (Purcell), XX, b 118, a 119
Blow-holes in cliffs (Geology), X, b 253
Blowing Glass, X, a b 588–9, a 593
Blowing Machines (Bellows), III, b 474–7; (Coal), VI, b 66–7; (Iron), XIII, b 296, b 308–10; (Metallurgy), XVI, b 65. See Bellows, Blast, VENTILATION
—— sands (Agriculture), I, b 360–1; (Geology), X, b 211
—— tube (Glass) (Ill.), X, a 588
Blow-line fishing (Angling), II, b 33
BLOWPIPE (Ill.), III, b 727–30; (Copper), VI, b 312. See OXYHYDROGEN Flame
—— analysis (Plattner), XIX, b 224–5; (Potassium Metals), a b 610
Bloxam, J. M., inventor (Clocks), VI, a 17, b 20, a 21; gravity escapement of (Clocks) (Ill.), b 20–1
Blubber (Mammalia), XV, a 351, a 395; (Greenland), XI, b 151; (Whale), XXIV, b 551, a 554, b 555
BLUCHER, Gebhard Lebrecht von, prince, III, b 730; (Austria), *b* 117, a 118; (Napoleon I.), XVII, b 226, a b 227, *a* 228, b 230, a b 231; (War), XXIV, *a* 373; (Wellington), b 524, *a* 525
Bludenz, town and district (Vorarlberg), XXIV, *a* 318
Blue Beard, story (Rais), XX, a 270
Blue-bell (Harebell), XI, b 427; (Hyacinth), XII, a 436
—— billy, refuse (Gas and Gas-Lighting), X, b 84
Blue Books (Insurance), XIII, a 188
"Blue Bulls," breeds (Horse), XII, b 208
—— butterfly (Butterflies and Moths), IV, b 528
—— cap, bird (Titmouse), XXIII, b 446
Blue-coat School, Bristol (Chatterton), V, b 385, a b 386; Dublin, VII, a 431; London, XIV, *b* 844, b 855
Blue colors (Dyeing), VII, a 498–9; (Copper), VI, a 312; aniline- (Coal Tar Colors), XVIII, b 903–4; azure- (Pigments), XIX, b 95; china- (Calico-printing), IV, b 611–2; cobalt- (Cobalt), VI, b 76; (Pigments), XIX, b 95, b 97; indigo - (Calico-printing), IV, b 611; pencil- (Calico-printing), a 612; Prussian- (Calico-printing), IV, a 614; (Pigments), XIX, b 95; (Prussic Acid), XX, b 26, *a* b 29; Thénard's, XXIII, b 271; ultramarine- (Lapis Lazuli), XIV, a 301; verditer (Pigments), XIX, b 95
—— fish (Fisheries), IX, b 233; (Ichthyology), XII, a 728
—— grass (Kentucky), XIV, b 45; region (Kentucky), XIV, a 43, a b 44, b 45, a 46
—— gum, tree (Eucalyptus), VIII, b 570
—— Hills (America), I, a 596; (Massachusetts), XV, *a* 618
Blue-jay, bird (Jay) (Ill.), XIII, a 622
Blue John, fluorspar (Derby), VII, b 93, a 95
—— Laws (Connecticut), VI, a 258
—— lias line (Building), IV, a 452
—— light (Light), XIV, a b 606, a 607
—— metal (Copper), VI, b 309
Blue mountain in British Burmah, IV, b 499; in India, XII, b 769; in St. Croix, XXI, a 169
—— Mountains in Africa, I, b 225; (Nile), XVII, b 518; in America, I, b 595; (Oregon), XVII, *a* 846; (United States), XXIII, b 848, b 855; in Australia, III, a 91, b 93; in Jamaica, XIII, b 558; (New Jersey), XVII, a *b* 406. See Blue Ridge
—— mud (Pacific Ocean), XVIII, b 125, a 128

Blue Nile or Abai river (Egypt), VII, b 611, a 612; (Nile), XVII, b 520, a 521; (Senaar), XXI, *b* 689. See Abai
—— ore, Ohio (Iron), XIII, a 294
—— pill (Mercury), XVI, b 37, a 39, a 40
Blue Ridge mountains (Georgia), X, *b* 390; (North Carolina), XVII, a b 572; (United States), XXIII, a 843, a *b* 844, b 845; (Virginia), XXIV, b 275, a 276, a b 277, *a* 278
Blue river (Kansas), XIII, *a* 852
Blue Sea. See ARAL, sea of
—— Stack, mountain (Ireland), XIII, b 220
Bluethroats, birds (Redstart), XX, a 331
Blue vitriol (Copper), VI, a 312; (Sulphur), XXII, a 671
—— ware (Pottery and Porcelain), XIX, b 654, b 657
—— whale, XXIV, b 553, b 557
Bluff formation (Iowa), XIII, b 213; (Kentucky), XIV, b 44; (Prairie), XIX, a 925
Bluhme, Friedrich, jurist (Salic Law), XXI, *a* b 226, a 227
Blumberger, Barbara. See Blomberg
Blümel, inventor (Ophicleide), XVII, a b 801
Blumenau, colony (Brazil), IV, b 211
BLUMENBACH, Johann Friedrich, physiologist, III, a 731; (Anthropology), II, b 99, a 100, a 101; (Platypus), XIX, a b 225
Blundell's double press (Oils), XVII, a 763
Blundeville, Thomas, mathematician (Veterinary Science), XXIV, a 214; his *Exercises* (Globe), X, a b 608–9
Bluntschli, Johann Kaspar, jurist (Grotius), XI, a 196
Blushing, physiology of (Pathology), XVIII, b 394
Blutbann, right of (Dithmarschen), VII, b 252, note
Blutlaugensalz (Prussic Acid), XX, b 26
Blyth, Edward, naturalist (Ornithology), XVIII, b 13 note, a 20, a b 29, b 30, note, b 32 note, a 33
Blythe or Blithe, Walter (Agriculture), I, b 64, a *b* 265, a b 293, b 294–5
Blytt, Mathias Numsen, botanist (Norway), XVII, b 606
Bne haggola, sect (Israel), XIII, b 427–8
Bo tree (Buddhism), IV, a b 383, a b 390; (Fig), IX, b 135
BOA, snake, III, a 731; (Snakes) (Ill.), XXII, b 206
Boabdil el Chico, king (Alhambra), I, a 503; (Cave), V, b 230; (Tlemcen), XXIII, a 450
Boa Constrictor, snake, XXII, b 206. See PYTHON
Boades, Bernat, chronicler (Spain), XXII, a 378
BOADICEA, queen, III, b 731; (Britannia), IV, b 318
Bo-aire, title (Clan), V, b 698, a 699; (Ireland), XIII, b 261, b 262, a 264
Boali or Bouali, town. See BOVALI
Boanerges, epithet (James), XIII, a 562
BOAR, wild, III, b 731–2; (Heraldry) (Ill.), XI, b 623; (Swine) (Ill.), XXII, a b 811, a 812
Board of Green Cloth (Royal Household), XXI, *b* 42, note
—— of Longitude (Navigation), XVII, a 264–5, note, a 266, a 267, b 268
—— Schools (England), VIII, a 227
BOARD OF TRADE, British, XXIII, a 529-30; (Consul), VI, b 281, a 282; (London), XIV, a 841; (Ministry), XVI, b 496; (Seamen), XXI, *b* 635, *a b* 636, *a* 637; (Shipbuilding), a *b* 854; (Tramway), XXIII, a 538; (United States), a 781, a 784; (Wreck), XXIV, b 722, *a* 723
—— Barometer, III, a b 330
Boarding-houses (Inn-keepers), XIII, a 89
Boards defined (Building), IV, b 435
—— of Health (Medicine), XV, a 808
Boaria, land system (Italy), XIII, b 462
Boassi, disease (Guiana), XI, b 223
Boatbill, bird (Herons)(Ill.), XI, b 679, a 681
Boat-building (Jiddah), XIII, a 703; (Shipbuilding), XXI, a b 864
Boate, Girard, naturalist (Ireland), XIII, a 239
Bo'áth, battle (Mohammedanism), XVI, b 575
BOAT, LIFE, XIV, b 573–77
——, quintain, sport (Rowing), XXI, b 35
—— racing (Rowing), XXI, a 35, a b 36, a 37; (Thames), XXIII, a 239; American (Rowing), XXI, a b 38
Boats (Mining), XVI, b 476; clinker-built (Larch), XIV, b 310; construction of (Rowing), XXI, b 36–7, a b 38; Egyptian (Papyrus), XVIII, b 235; on Euphrates (Mesopotamia), XVI, a 57; (Fisheries), IX, a 214, b 215–6, b 224, note; in India (Basket), III, b 364; navy (Anchor), II, 6; Peruvian (America), I, a 612, a 614; ships' (Shipbuilding), XXI, a 854, a b 864; Torpedo, XXIII, a 480
Boatswain, officer (Navy), XVII, a 302, a 303
——, bird (Tropic-bird), XXIII, a 625 note; (Skua), XXII, a 133, note
Boat-tail, bird (Grackle), XI, b 24
Boa Vista, island (Cape Verde Islands), V, *a b* 46, *a* b 47
——, suburb (Pernambuco), XVIII, a 563
Boaz, patriarch (Ruth), XXI, a 126
Bob, pendulum (Clocks), VI, b 15, a b 16, *a* 17
Bobadilla, Francisco de, governor (Columbus), VI, b 156, *a* 157; (Geography), X, a 162
——, Nicolas Alfonso de, Jesuit (Xavier), XXIV, b 752, a 753
"Bobbies," Police, XIX, b 351
Bobbili, town (Vizagapatam), XXIV, a 287
Bobbin Net, XVII, a 369; (Lace), XIV, b 185–6; (Nottingham), XVII, b 614
Bobbins (Lace) (Ill.), XIV, b 188, b 190–1; (Yarn), XXIV, *b* 766
Bobbio Library, XIV, b 512; monastery (Palæography), XVIII, b 166
Bober river (Silesia), XXII, a 58
Bobolink, bird (Bunting), IV, b 470; (Ortolan), XVIII, a 57
Bobroff, town (Voronezh), XXIV, b 318
BOBRUISK, town, III, a 732
Bobrzynski, Michael, historian (Poland), XIX, a 317
Bob White, bird (Quail), XX, b 153
Boca Costa, district (Guatemala), XI, *b* 212, note
Boca del Monte (Colombia), VI, b 137
Bocage, district (Manche), XV, a 466
——, Manuel Maria de Barbosa, poet (Portugal), XIX, a 573
Bocarus or Bocalia, stream (Salamis), XXI, a 215
Bocasoti, sect (Fratricelli), IX, b 638
Boccaccino, Boccaccio, painter (Schools of Painting), XXI, a 456, a 463
BOCCACCIO, Giovanni, poet, III, a 732–5; (Certaldo), V, a 302; (Chaucer), *b* 391; (France), IX, b 564; (Italy), XIII, b 487, b 514–15; (Petrarch), XVIII, a b 721–2, b 722; (Renaissance), XX, b 396, *a* 397; (Romance), *a* 655, *a* 657, a 676
BOCCALINI, Trajano, satirist, III, b 735–6
Boccanera, Simon, doge (Genoa), X, b 141
Boccapadule, Antonio, musician (Palistrina), XVIII, b 185
Boccardo, Girolamo, economist (Political Economy), XIX, b 400
Bocchi, Achilles, author (Guillotine), XI, b 233
Bocchoris, king (Egypt), VII, a 642, b 643
Bocchus, king of Mauretania (Jugurtha), XIII, b 776, *a* 777
Bocconia (Horticulture), XII, b 257
Bocconio, Marino, conspirator (Venice), XXIV, b 155
Boceno, barrow (Carnac), V, b 104
Boc-fell (Book), IV, a 34
BOCHART, Samuel, orientalist, III, a 736; (Huet), XII, *a* 349; (Michaelis), XVI, b 236; (Ornithology), XVIII, b 8 note; (Phœnicia), XVIII, a 823
Bochat, Charles Guillaume Loys, historian (Switzerland), XXII, *a* 837
BOCHNIA, town, III, a 736
BOCHUM, town, III, a 736
Bockenheim, town (Frankfort), IX, a 622, a 623
Bockhold, Johann (Anabaptists), I, b 690
Boc-land or Bookland (England), VIII, a 249; (Folkland), IX, b 312
Bocskay, Stephen, revolutionary prince (Austria), III, a 109; (Hungary), XII, a 384
Bod, country. See TIBET
——, Peter, historian (Hungary), XII, b 391
Boddaert, Pieter, naturalist (Ornithology), XVIII, a 11; (Sun-bittern), XXII, b 686
BODE, Johann Elert, astronomer, III, b 736; law of (Astronomy), II, a *b* 705
Bode, W., critic (Teniers), XXIII, b 189, a 191
Bodenite (Mineralogy), XVI, b 427
Bodensee. See CONSTANCE, LAKE OF
Bodenstein, Andreas Rudolf, reformer. See CARLSTADT
Bodethal valley (Harz), XI, b 453
Bōdh, itinerant missionary (Syriac Literature), XXII, a b 879, b 894
Bodhidharma, missionary (Tea), XXIII, a 105
Bodices (Costume), VI, b 420, b 421, b 422
Bodies, Physical. See CONSTITUTION OF BODIES
Bodin, Constantine, king (Servia), XXI, b 720–21
BODIN, Jean, politician, III, b 736–7; (France), IX, b 576; (Political Economy), XIX, a 369, a 409
Bodington, bishop (Glasgow), X, a b 569
Bodio, Luigi, statistician (Italy), XIII, b 462, a b 472, b 477; (Population), XIX, b 530, a 531, b 532
Bodisatship, doctrine (Lāmāism), XIV, a b 227, a b 228
Bodjo, town. See Bima
Bodlandor Bod-yul, region (Tibet), XXIII, a b 359, note, a 360, b 361, b 366, b 370
Bodleian Library (Brasses), IV, b 197; (Celtic Literature), V, b 265, a 267, a 281; (Hearne), XI, b 492; (Libraries), XIV, a b 518; (Oxford), XVIII, a b 98; (Paper), a 221 note
BODLEY, Sir Thomas, author, III, b 737; (Libraries), XIV, a 518
Bodmer, Johann Jakob, poet (Germany), X, a 477, b 478; (Nibelungenlied), XVII, b 489; (Switzerland), XXII, a 836; (Wieland), XXIV, *a* 590
Bodmer-process (Brick), IV, b 252
BODMIN, town (Ill.), III, b 737–8
Bodo, genus (Protozoa), XIX, b 880, b 881, a 882, b 883

BODONI, Giambattista, printer, III, a 738; (Typography), XXIII, a 739, b 740
Bodonina, family (Protozoa), XIX, b 881
Bodotria, genus (Crustacea) (Ill.), VI, *b* 571, b 582
Bod-Skad language (Tibet), XXIII, a 368-70
Bödtcher, Ludvig Adolf, poet (Denmark), VII, a 81
Body, corporeal (Leibnitz), XIV, a b 422
"Body" or covering power (Pigments), XIX, a 94
Body of Divinity (Usher), XXIV, a 22
"Body of Liberties," Massachusetts (Slavery), XXII, b 906; (Ward), XXIV, a 883; (Women), b 675 note
Boe, Francis de le (Anatomy), I, a 708, a 711, a 712; (Medicine), XV, a 820
BOECE or Boyce, or Boethius, Hector, historian, III, a 738-9; (Dundee), VII, b 461, b 462; (Capercally), V, a 49; (Scotland), XXI, a 567
Boece's History, translation of (Bellenden), III, b 470
BOECKH, August, philologist, III, a 739-40; (Inscriptions), XIII, a 127, a b 128; (Pindar), XIX, b 110; (Ship), XXI, a 843, b 845; (Weights and Measures), XXIV, a 508, b 509, *b* 510, a 511, b 515
Boeck, Carl Wilhelm, physiologist (Norway), XVII, b 606
——, Christian, Peter Bianco, medical writer (Norway), XVII, b 606
Boecklin, Charlotte de, mystic (Saint-Martin), XXI, a 196
Boedromion, month (Mysteries), XVII, *b* 133, b 134
Boehm, Martin, bishop (United Brethren), XXIII, b 774, a 951
——, Theobald, manufacturer (Music), XVII, a 105; (Oboe), a 727, a 728; (Pianoforte), XIX, b 85; (Transverse Flute), XXIII, a b 554
BOEHME, Jakob, mystic, III, b 740-2; (Alchemy), I, b 407, b 409, a 410; (Evolution), VIII, a b 664; (Germany), X, b 473; (Gichtel), a 525; (Law, W.), XIV, a 370; (Mysticism), XVII, *a* 142; (Theism), XXIII, a 264; (Theosophy), b 298-9
Boehmer, Edward, jurist (Valdes), XXIV, b 38
——, Justus Henning, jurist (Canon Law), V, b 19, a 21
Boendale, Jan van, chronicler (Holland), XII, b 93-4
BŒOTIA, district, III, a b 742; (Dionysius), VII, a 217; (Homer), XII, b 114; (Numismatics), XVII, b 658; (Thebes), XXIII, a b 248
Bœotian bridge (Eubœa), VIII, a b 569; dialect (Greece), XI, a 118
Bœotica (Hellanicus), XI, a 566
BOERHAAVE, Hermann, physician, III, b 742-3; (Chemistry), V, a b 399; (Cullen), VI, b 614; (Embryology), VIII, *b* 151; (Linnæus), XIV, *b* 679, a 680; (Medicine), XV, b 821, b 824; (Parasitism), XVIII, a 262; (Pitcairne), XIX, a 142
Boero or Bouro, island. See BURU
Boers, African Dutch (Cape Colony), V, b 40, *a* 41, b 42; (Hottentots), XII, b 326-7; (Natal), XVII, b 248; (Orange River Free State), b 837; (Transvaal), XXIII, b 550, a b 551-3; (Zululand), XXIV, *a b* 868; mounted infantry of (War), XXIV, b 379
Boethius, philosopher. See BOETIUS
Boethius, historian. See BOECE
Boethos or Butau, king (Egypt), VII, a 634
Boétie, Etienne de la, poet (Montaigne), XVI, b 794
BOETIUS, Anicius Manlius Severinus, philosopher, III, a 743-5; (Alfred the Great), I, b 447, a 448; (Logic), XIV, a 799; (Music), XVII, b 87; (Neoplatonism), b 347, b 348; (Numerals), *a* 642, note; (Pavia), XVIII, b 449, a 450; (Peripatetics), b 557; (Pianoforte, XIX, a 74; (Provençal Literature), *a* b 898; (Scholasticism), XXI, a *b* 437, a b 438; (Stoics), XXII, a 599
——, Flavius, prefect, III, a 743
Boffrand, Germain, architect (Lunéville), XV, b 67
Bog river (Lomza), XIV, *b* 826
Bogaditz, district (Opium), XVII, a *b* 811
Bogaers, Adrianus, poet (Holland), XII, a 101
Bog-butter, mineral (Adipocere), I, b 140; (Mineralogy), XVI, b 447
Bogdan, the One-eyed, voivode Moldavia (Roumania), XXI, a b 24
Bogdan-ata, lakes (Syr-Daria), XXII, b 858
Bogdanoff, A., ethnologist (Russia), XXI, b 85 note, b 88
Bogdanovich, Hippolite Feodorovich, poet (Russia), XXI, b 114
BOGHAZ-KEUY or Boghas-Koel, village, III, b 745; (Phrygia), XVIII, a b 864, note
Boghead coal (Paraffin), XVIII, b 244; (Petroleum), a b 726
Boghra mountains (Cork), VI, b 357
Boghurst, William, physician (Plague), XIX, *b* 175, a 176, note
Bogiah, town (Bougie), IV, a 155
Bogie, apparition (Apparitions), II, b 178
—— or truck, locomotive (Steam-Engine), XXII, a b 547; (Traction), XXIII, b 527
Bog iron-ore (Geology), X, b 207; (Iron), XIII, b 286, a b 292, *a* 293
Bogland (Agriculture), I, a 293, a 294, a 295; reclaiming (Agriculture), b 358-9
Bogle, George, traveller (Tibet), XXIII, b 359, b 361
Bogmoss, plant (Muscineæ) (Ill.), XVII, b 71, *a b* 77, a *b* 78, a 79, a 80
Bognor, town (Sussex), XXII, b 761, a 762
Bog-Oak, XVII, b 710
Bog of Allen. See ALLEN, Bog of
BOGODUKHOFF, town, III, b 745-6
Bogolioubski or Bogolubskiy, Andrew of Suzdal, prince (Russia), XXI, *a b* 98; (Vladimir), XXIV, a b 291
BOGOMILI or Bogomilians, sect, III, a 746; (Herzegovina), XI, b 693; (Templars), XXIII, a 181
Bogong, mountain (Victoria), XXIV, b 232
Bogoris, king, Bulgaria (Nicholas I.), XVII, a 497
Bogoslovsk, town (Perm), XVIII, b 561; (Ural Mountains), XXIV, b 10
—— mountain (Ural Mountains), XXIV, a 8, b 9
Bogoslovskite (Mineralogy), XVI, b 428
BOGOTA, city of Colombia, III, a b 746
BOGRÁ, district and town, III, b 746-7
Bogs, Allen, I, a 513; (Ireland), XIII, b 220, b 223, a 225
Boguslawski, G. von, chemist (Sea Water), XXI, b 641 note, a 643, a 645
Boguslavskiy, N., geographer, (Volga), XXIV, a b 299, note, b 301
BOHADDIN or Boha-Eddyn, author, III, a 747
——, Moktana, fanatic (Druses), VII, b 418
Bohea tea (China), V, a 553; (Tea), XXIII, *a* 104, a b 106, a 109
Boheira, lagoon (Tunis), XXIII, b 661
Bohême, Vie de (Murger), XVII, *b* 60, *a* 61
BOHEMIA or Böhmen, III, a 747-9; (Coal), VI, b 54, a 55, a 62; (Fire), IX, a 201, note; (Glass), X, b 581, a 582; (Henry II., emperor), XI, b 594; (Henry VII., emperor), b 596; (Hungary), XII, a *b* 383; (Huss), b 419-21; (Hussites), b 422-3; (Moravia), XVI, a b 837; (Periodicals), XVIII, a 555; (Reformation), XX, b 332, a 349; (Silesia), XXII, b 57
——, Cambrian system of (Geology), X, b 292; history of (Germany), *b* 431, a 432, a 433, b 435, b 436, a 437, a 440, *a* 444, *a b* 448
——, language (Dictionaries), VII, b 163; (Germany), X, *a* 466
——, literature, III, a 748-9; (Hanka), XI, b 393, a 394; (Schafarik), XXI, *a* 403; (Slavs), XXII, a 160-3
——, Protestants of (Neustadt), XVII, b 374; Silurian system of (Geology), X, a b 301
Bohemian Brethren, sect (Comenius), VI, b 162-3; (Presbyterianism), XIX, a 717; (Zinzendorf), XXIV, b 827. See MORAVIAN BRETHREN
—— Church (Hymns), XII, a b 620
—— Forest (Austria), III, *a* 101; (Germany), X, b 402
Bohemian Girl, opera (Balfe), III, b 241
—— Mission (Moravian Brethren), XVI, a 839; national assembly, 1848 (Austria) III, a b 119
Bohemianism, literary (Moreau), XVI, b 845
Bohemians or Chekhs, race (Slavs), XXII, a *b* 156, *a* b 157; *History of* (Palacky), XVIII, b 146, a b 147. See Chekhs
Bohémiens, people (Gypsies), X, a 546
BOHEMOND, Marc, duke, III, a 749; (Crusades), VI, b 551, *a b* 552, *a* b 553, a 554; (Greece), X, a 106
Boheyret-Maryoot, lake (Egypt), VII, b 614
Böhg, Erik, poet (Denmark), VII, a 82
Böhl von Faber, novelist. See FABER VON BOHL
Böhler, Peter, bishop (Methodism), XVI, b 193, a 194
Böhme, Jakob. See Boehme
——, Johann Eusebius, historian (Goethe), X, b 643
Böhmen, country. See BOHEMIA
Böhmer, Auguste, fiancée (Schelling), XXI, b 407
Böhmeria, plant (Botany), IV, b 75; (Rhea), XX, b 520
Böhmerwald, mountains (Bavaria), III, b 389, b 390
Bōhmischen Sprache, Die ältesten Denkmäler der (Palacky), XVIII, b 146
Böhmischer Wald, forest (Austria), III, *a* 101; (Germany), X, b 402
Bohnenberger's gyroscope, XI, a 314
Bohol, island (Philippine Islands), XVIII, a 766
Bohon, Juan, founder (Serena), XXI, a 707
Bohoric, teacher (Slavs), XXII, b 159
Bohtan Su, river (Tigris), XXIII, a 413
Böhtlingk, Otto, orientalist (Sanskrit), XXI, b 286, a b 299 notes, b 300, a 306 note, b 307 notes; (Ural Altaic), XXIV, b 6, b 7
Bohu, town (Yoruba), XXIV, a 792
Boi, Paolo, il Syracusano, (Chess), V, a 522
BOIARDO, Matteo Maria, count, poet, III, a b 749; (Ariosto), II, a 443; (Drama), VII, b 361, note; (Italy), XIII, a 516, a 518; (Panizzi), XVIII, a 216
Boiars, ascendency of (Roumania), XXI, a 25; (Russia), b 89, b 100, a 101, b 103, a 104
Boidæ, family (Snakes) (Ill.), XXII, a 204, b 206
Boido, tree (Frankincense), IX, b 625
Boie, Friedrich, naturalist (Reptiles), XX, b 452
——, Heinrich, naturalist (Reptiles), XX, b 452

-1; (Holland), XII, a 66, a 67, b 69, a 70
Boie or Boje, Heinrich Christian, critic, IV, *b* 476; (Germany), X, a b 483
BOIELDIEU, François Adrien, composer, III, b 749-50
Boigne or Benoit le Borgne, Count (Chambéry), V, a 331
BOII, Celtic people, III, a 750; (Italy), XIII, b 455; (Moraira), XVI, a 837; (Rome), XX, b 762, a 767; (Umbria), XXIII, a 771
"Boil of Aleppo," I, a 423
Boileau, Étienne, judge (Paris), XVIII, b 294
——, Pierre Prosper, mechanician (Hydromechanics), XII, b 445, b 523; gauging process of (Hydromechanics), b 538-9; velocity, formulæ of (Hydromechanics), b 524-5
BOILEAU-DESPREAUX, Nicolas, poet, III, a b 750; (Academy), I, b 72, note, *a* 74; (Bossu), IV, a 62; (Boursault), b 161; (Chapelain), V, b 343, a 344; (Corneille), VI, b 370, a b 371; (France), IX, *a* 507, b 578, *a* 584; (La Bruyère), XIV, a 178; (La Fontaine), a b 205; (Malherbe), XV, b 336; (Racine), XX, *b* 211, a b 212, a 213, a b 214, a 215, a 216; (Ronsard), *b* 864
Boiled oil (Linseed), XIV, a 684
Boilers (Steam-Engine) (Ill.), XXII, a 517-23; locomotive (Navy), XVII, a 295; (Railway), XX, b 232
——, American inventions in (Steam-Engine), XXII, b 920, b 922; corrosion prevention (Steam-Engine), b 522, a 546; efficiency (Steam-Engine), b 509; fire-box, invention of (Steam-Engine), a 492; fires (Smoke-Abatement), b 191-2; plates for (Steam-Engine), b 518, a 521
—— heating (Horticulture) (Ill.), XII, b 233-6; rag (Paper) (Ill.), XVIII, b 223, a 229; for Soap, XXII, a b 214
Boiling food (Cookery), VI, b 295-6; in steel making (Iron), XIII, a 343; for Sugar, XXII, a 659; wort (Brewing), IV, a 245
—— Mountain (Ecuador), VII, a 560
—— point (Barometer), III, a 334; (Evaporation), VIII, a 638; (Thermodynamics), XXIII, b 307. See PYROMETER
Boineburg, Johann Christian von, statesman (Leibnitz), XIV, *b* 418, *a* 419
Bois, John. See BOYSE
Bois-Brûlés, half-breeds (Red River), XX, *b* 328
Bois de Boulogne, park (Paris), XVIII, b 280
—— de Vincennes, park (Paris), XVIII, b 280
Bois-Chaud, district (Indre), XII, *a* 887
Boisgerais, philosopher (Volney), XXIV, b 302
Boisguillebert, Pierre, publicist (Political Economy), XIX, a 372
BOIS-LE-DUC, city, III, b 750
Boisé City (Idaho), XII, a 737
Bois Noirs, mountains (Loire, department), XIV, b 816
BOISSARD, Jean Jacques, antiquary, III, a 751
Boisserée, Sulpice, architect (Gœthe), X, b 654
Boissier, Gaston, critic (Juvenal), XIII, b 815; (Dictionary), VII, b 156
BOISSONADE, Jean François, classicist, III, b 751
Boisy, Saint. See FRANCIS OF SALES
Boite, valleys, dialect (Italy), XII, *b* 502
Bojan gneiss (Geology), X, a 290
Bojana, river (Scutari), XXI, b 600
Bojanus, Ludwig Heinrich, anatomist (Mollusca), XVI, a 666; (Morphology), a 865; (Reptiles), XX, b 453
Boje, critic. See Boie
Bo Jonsson, jarl (Sweden), XXII, b 784
Bojuk Mender, river (Asia Minor), II, a 619
Bokenranf or Bocchoris, king (Egypt), VII, a 642, b 643
BOKHARA or Bukharia, country, IV, a 3-5; (Oxus), XVIII, b 105
——, town, IV, a b 3, *a* 4, a 5; (Jenghiz), XIII, b 632; (Mohammedanism), XVI, a 590; (Mongols), a b 772, a 776; (Sunnites), XXII, a 696, a 699
Bokárí, Abù Abdallah Mohammed, theologian (Mohammedanism), XVI, a 617
Bokhari, Malay, poet (Jahore), XIII, a 741
Bolags or companies (Liquor Laws), XIV, a 696
Bolan, river and pass (Baluchistan), III, b 260; (Cutch Gundava), VI, a 646; (India), XII, b 770; (Kandahar), XIII, b 844, a 845; (Punjab), XX, a 116
Boland's kneading machine (Baking) (Ill.), III, b 221
Bolang, district (Celebes), V, b 251
Bolaños, missionary (Paraguay), XVIII, a 249
Boláram cantonment (Secunderábád), XXI, a 649
BOLBEC, town, IV, b 5; (Seine Inférieure), XXI, b 657
——, river (Lillebonne), XIV, a 619
Boldensele, William of, traveller (Mandeville), XV, *b* 481, *b* 482
Boldetti, Marc Antonio, antiquary (Catacombs), V, a 181
Boldre, river (Hampshire), XI, b 384
Bole, earth (Mineralogy), XVI, b 443
Bolection mouldings (Building) (Ill.), IV, b 436, b 439
Boleslaus or Boleslaw I., Poland, king (Germany), X, a b 436; (Poland), XIX, a 298
—— II., king (Poland), XIX, b 298; Henry II., emperor, XI, *b* 594
—— III., king (Poland), XIX, b 298-9
—— IV., the Curly (Poland), XIX, a 299
—— V., king (Poland), XIX, a 299
BOLEYN, Anne, queen, IV, b 5-6; (Cranmer), VI, *a* 487; (England), VIII, a b 300, a 302; (Henry VIII.), XI, a 592, a 593; (Mary I.), XV, *b* 599-600; (More, Sir T.), XVI, a 844; (Parker), XVIII, b 304
Bolgar, town (Ibn Batuta), XII, b 642
Bolgrade, town (Bulgaria), IV, a 463
BOLI, town, IV, a 6
Bolides (Meteor), XVI, b 113
Bolina, genus (Actinozoa), I, b 122
BOLINGBROKE, Henry St. John, viscount, IV, a 6-8
  accession of George I., b 7
  literary works, a b 8
  Queen Anne's reign, a b 7
  youth and Parliament, a b 6
—— (Anne), II, a 57; (Booth), IV, b 43-4; (Burke), a *b* 482; (Deism), VII, b 32; (Oxford, Earl of), XVIII, a 104; (Pamphlets), a 209; (Pulteney), XX, *b* 169; (Swift), XXII, *a b* 802, a 803
——, *View of Posthumous Writings of* (Warburton), XXIV, b 389
Bolissus, town (Scio), XXI, *b* 487
Bolivar, state and colony (Venezuela), XXIV, a b 152
BOLIVAR, Simon, liberator, IV, etc., b 8-10
  constitutional efforts, b 9-10
  early life, b 8
  expulsion of Spaniards, b 8-9
—— (Peru), XVIII, b 691
—— point (Galveston), X, a b 49
BOLIVIA, republic (Map), IV, b 10-17
  boundaries and divisions, b 10-11
  geology and minerals, a 13-4
  independent history, b 16-17
  natural productions, a 12-3
  physical features, b 11-2
  political features, b 15-6
  population, b 14-5
  roads and commerce, a 14
  Spanish grievances, a b 16
—— (America), I, *a* b 590, a 591, a 626; (Bolivar), IV, b 9-10; (Guano), XI, a b 208; (Indians), XII, b 868-9; (Mining), XVI, b 493; (Peru), XVIII, a b 692, a b 693
——, boundary of (Argentine Republic), II, a b 429; (Brazil), IV, *a* 199; (Peru), XVIII, a 683
Bolivite (Mineralogy), XVI, b 412
Bolkhoff, town (Orel), XVII, b 849, a 850
Bolland, John, editor, IV, a 18; (Tirlemont), XXIII, b 434
BOLLANDIST FATHERS, the, IV, a 18
Bollman truss (Bridges) (Ill.), IV, b 290
Bollmann's extraction process (Sulphur), XXII, a b 668
BOLOGNA, province, IV, a 18; (States of the Church), XXII, b 477, a 478
——, city (Ill.), IV, a 18-9; (Aldrovandi), I, *b* 420, a 421; (Bulgarus), IV, *a* 463; (Calvart), b 631; (John XXIII., pope), XIII, b 723; (Martini), XV, b 591; (Michel Angelo), XVI, a 238, a 239, a 240; (Schools of Painting), XXI, b 455, a 463, a 465, a b 466, b 467
——, concordat of, 1516 (Monachism), XVI, a 739; (Popedom), XIX, b 517
—— dialect (Italy), XIII, b 503; poetry (Italy), b 511; revolt of, 1249 (Italy), b 485
—— phials (Annealing), II, a 57
——, School of Medicine (Anatomy), I, b 706
—— or Bolognese stone (Light), XIV, a 608; (Mineralogy), XVI, a 417
—— University, IV, b 18; (Doctor), VII, a 277; (Libraries), XIV, b 529-30, a 550; (Observatory), XVII, a 734; (Universities), XXIII, a b 888, *a* b 889, a *b* 891, b 892
BOLOGNE, Jean or Giovanni da Bologna, sculptor, IV, b 18, a 19; (Sculpture), XXI, a b 596
Boloko river (Zaire), XXIV, a 802
Bolor, state (Hindú Kúsh), XI, b 748; (Kashkar), XIV, b 11
Bolsec, Jérôme Hermès, monk (Calvin), IV, b 635
BOLSENA, town, IV, a 19; lake, a 19
Bolshoy Tomak, town (Taurida), XXIII, a 90
Bolson de Mapimi, wilderness (Mexico), XVI, a 225
Bolsover, Thomas, inventor (Sheffield), XXI, a 824
"Bolster" (Seamanship), XXI, a 624
Bolt and shutter (Clocks), VI, b 22
Boltena, genus of (Tunicata), XXIII, b 656
Bolt-hole, drift (Coal), VI, a 62
Bolting machines (Agriculture), I, a 290
BOLTON or Bolton le Moors, borough (Ill.), IV, a b 19
——, Edmund (Academy), I, a 71
Bolton, blacksmith (Forge), IX, a 364
Boltonite (Mineralogy), XVI, b 427
Bolton's process, W. B. (Photography), XVIII, b 840, a 841
Bolt-rope (Sail), XXI, a 163
Bolts of canvas (Sail), XXI, *b* 162

Boltzmann, Ludwig, physicist (Electricity), VIII, b 14, b 35, a b 36, b 50; (Radiation), XX, b 223; equation of (Constitution of Bodies), VI, b 278

Bolus, administering (Veterinary Science), XXIV, a 218

Bolva, river (Kaluga), XIII, b 839; (Orel), XVII, b 849

Bolzano, town. See BOTZEN

BOLZANO, Bernhard, theologian, IV, b 19

Boma, town (Zaire), XXIV, *b* 803

Bomba or Bombæa, harbor (Tripoli), XXIII, a 612

Bomba, sobriquet. See FERDINAND II. of the Sicilies

Bombaceæ, plants (Botany), IV, b 119

Bombardes (Arms and Armor), II, b 488; (Navy), XVII, b 290

Bombardier. See BEETLE

Bomarsund, fortress (Aland Islands), I, b 391

Bombax, tree (Botany), IV, a 90

BOMBAY, presidency, IV, b 19 23

  boundaries and states, b 19–20

  government operations, b 22

  history, b 22–23

  industrial features, b 21 –22

  island and city, a b 21, *a* b 22

  physical features, a 20–1

  population a b 21

———

—— (Army), II, b 516, b 518; (Cotton), VI, a b 433; (India), XII, b 777, b 782, a *b* 783, a b 786, a 787, a 790, *a b* 791, b 792, *a* 797, *a b* 798, a 799, b 800, b 806, a b 810, a b 811, 813, b 814, *a* b 815

——, acquisition of (Hastings,), XI, *b* 459; (India), XII, b 839, a b 842, b 843, a 845

BOMBAY, City (Plan), IV, b 23-4; (Gunny), XI, a 282; (India), XII, *a* 772, a 777, a 783, *a* 784, a 794, a *b* 795, a b 801, a *b* 802, b 813, a b 814; (Jews), XIII, b 695; (Libraries), XIV, a 552; (Meteorology), XVI, b 125, a 128, a b 178, a b 179; (Mint), XVI, b 512; (Tides), XXIII, a 394, note, a b 395; water-supply (Thána), a 239; Weights and Measures, XXIV, a b 518

—— boxes (India), XII, a 802; (Inlaying), XIII, b 88

—— Pearls, XVIII, a 458

Bombazine, cloth (Hierapolis), XI, b 706

Bombelli, R., mathematician (Algebra), I, b 453

Bomberg or Bombergi, Daniel, printer (Bible), III, a 560; publisher (Riph), XX, b 581

Bombilla, plant (Maté), XV, a 634

Bombinator, genus (Amphibia), I, b 658, b 668, a 668, a b 673, *a* 674, a b 675, a 677

Bombon lake (Philippine Islands), XVIII, b 762

Bomb-proofs (Fortification), IX, b 399

Bombs, volcanic (Geology), X, a 217

Bombus, insects (Humble-Bee), XII, *b* 356; (Hymenoptera), b 608, b 609, b 610, b 611

Bombycidæ, insects (Butterflies), IV, a *b* 527, a 529; (Insects), XIII, b 157

Bombycina, moths (Butterflies) (Plate XXX), IV, b 530-1

Bombyx, moth (Coleoptera), VI, b 117; (Silk) (Ill.), XXII, b 61, a 62–3, a 66

Bomvaniland, district (Kaffraria), XIII, a b 826

Bon, religion (Tibet), XXIII, b 365–6

——, Bartolomeo, sculptor (Sculpture), XXI, a 595; (Venice), XXIV, b 165, b 167 note, b 168

Bon Gualtier Ballads (Aytoun), III, a 144

Bona, town. See BONE

Bonacossi, Passerino de, duke (Gonzaga), X, a 687

Bonafede, Paganino, poet (Italy), XIII, a 516

Bona fide actions (Roman Law), XX, *b* 719–20

Bonagratia, friar (Occam), XVII, a b 738

Bonái State (Chutiá Nágpur), V, a 672

Bonajuti family (Galileo), X, b 28

BONALD, Louis, Gabriel Ambroise, vicomte de, philosopher, etc., IV, b 24-5; (Buchez), b 372; (France), IX, *b* 591

Bonanno of Pisa, architect (Monreale), XVI, b 786; (Pisa), XIX, *a* 131; (Pisano), a 133; (Monreale), XVI, b 786

Bonanza (Mining), XVI, a 461; (United States), XXIII, b 867

Bonaparte. See NAPOLEON I. and III.

BONAPARTE family, IV, b 25–7; (Guastalla), XI, b 211; (Napoleon), XVII, a 199, a 201, b 212, b 214, a b 218

——, Carlo Maria, lawyer, IV, b 25

——, Charles Lucien Jules Laurent, prince of Carnino, naturalist, IV, a 27; (France), IX, a b 539, a 540; (Ichthyology), XII, a 671, b 723; (Ornithology), XVIII, a 18, b 20, b 21, b 34-5; (Parrot), a 328; (Quezal), XX, a 186; (Societies), XXII, a 233; (Wilson), XXIV, a 622

——, Charles Marie de, father of Napoleon I., XVII, a b 199

BONAPARTE, Jerome, king of Westphalia, IV, b 27; (Grimm, J. L. C.), XI, a 177

BONAPARTE, Joseph, king of Spain, IV, b 25–6; (Napoleon I.), XVII, *a* 199, b 211, a 220, a 228; (Spain), XXII, a *b* 358; (Wellington), XXIV, *a* b 524

——, Joseph Charles Paul, prince Napoleon, IV, b 27

BONAPARTE, Louis, king of Holland, IV, a 27; (Holland), XII, a 86; (Hortense), a 214; (Troost), XXIII, a b 944

——, Louis Lucien, philologist, IV, b 26; (English Language), VIII, a 358; (Speech-Sounds), XXII, a 405

——, Louis Napoleon. See NAPOLEON III.

BONAPARTE, Lucien, prince of Canino, IV, a b 27; (Beranger), III, a 502; (Frascati), IX, a 638; (Napoleon I.), XVII, *a* 199, b 209, a 231; (Portugal), XIX, b 565, a 566

BONAPARTE, Maria Anne Elisa, princess of Lucca, IV, a 27

BONAPARTE, Marie Annonciade Caroline, wife of Murat, IV, b 27

BONAPARTE, Marie Pauline, duchess of Guastalla, IV, b 27; (Borghese), a 48

Bonaparte, Napoleon. See NAPOLEON I.

——, Napoleon Louis, brother of Napoleon III., IV, a 26, *a* 27

——, Pierre Napoleon, prince, IV, b 26

Bonapartist organs (Newspapers), XVII, b 438

Bonarelli della Rovere, Prospero, poet (Drama), VII, a 361

Bonasa, bird (Grouse), XI, b 198

Bona Sforza, queen (Portugal), XIX, b 302

Bonassieux, Jean Marie, sculptor (Puy), XX, b 124

BONAVENTURA, St., or John of Fidenza, theologian, IV, b 27–8; (Monachism), XVI, b 736, a 737; (Mysticism), XVII, a 139; (Scholasticism), XXI, a *b* 445; interdicts, Roger Bacon, III, b 189

Bonaventure, island (Quebec), XX, a 172

Bonavista bay (Newfoundland), XVII, a 392

Bonchurch, town (Ventnor), XXIV, *a* 176

Bond (Obligation), XVII, a b 724

Bond, Henry, mathematician (Navigation), XVII, *b* 261, *a* b 262, a 263, note

——, W. C., astronomer (Astronomy), II, *b* 710, a 714; (Micrometer), XVI, a 266; (Photometry), XVIII, a b 856; (Telescopic Work), XXIII, b 932

"*Bond anent the True Religion*" (Scotland), XXI, a 530

—— Street (London), XIV, b 827

—— timber in brick work (Building), IV, b 416; in mason work (Building), a 422

Bondar, class (Sweden), XXII, *b* 782

Bondi, village (Sydney), XXII, a 846

Bonding walls (Building) (Plate XX), IV, a b 412, b 420, *a* b 421

Bondone, painter. See GIOTTO

BONDU, kingdom, IV, b 28–9

Bonduca (Beaumont and Fletcher), III, b 407

Bone (Anatomy), I, a 749–52; (Histology), XII, a 10; (Horn), XII, a 171; (Mammalia), XV, a 358, a b 381; composition of (Distillation), VII, b 228; (Phosphorus), XVIII, a b 828; diseases of (Rickets), XX, b 562-3; (Surgery), XXII, b 719-20; growth of (Duhamel), VII, a 448; (Hunter), XII, a b 402; repair of (Pathology) (Ill.), XVIII, b 372–3; rickets, growth in (Pathology), a 380-1; tumors (Pathology), b 376–8. See SKELETON

BONE, or Bona, town, IV, a 29; (Algeria), I, a b 498, b 499, *a* 500

BONE, Henry, enamel painter, IV, b 29; (Enamel), VIII, *a* 169

—— bed; Axmouth (Coprolites), VI, a 313; Ludlow (Geology), X, b 297; (Ichthyology), XII, a 706; South Carolina, XXII, a 302; deep sea deposits (Pacific Ocean), XVIII, a 130, a 131; triassic (Geology), X, a 313

—— black (Charcoal), V, b 346–7; (Phosphorus), XVIII, a 828

—— fishes (Ichthyology), XII, a 677–86

—— food in (Gelatin), X, a 118; glue in (Gelatin), b 119

—— Lace, XIV, b 188

—— Manure, XV, a b 519; (Agriculture), I, b 271, a 309-10; (Horticulture), XII, b 238; Ash of (Agriculture), I, a 311. See Phosphates

—— oil (Naphtha), XVII, b 181

Bonellia, entozoon (Annelida), II, a b 63; (Parasitism), XVIII, b 265; (Reproduction), XX, a 426; (Sex), XXI, b 756

Boner, bishop. See BONNER

Bones of heroes (Pelops), XVIII, a 491

Bo'ness, town. See BORROWSTOUNESS

Bonet, Juan Pablo, philanthropist (Deaf and Dumb), VII, b 7

——, Théophile, physician (Morgagni), XVI, a 849

BONFIGLI, Benedetto, painter, IV, b 29

Bonfini, Antonio, historian (Hungary), XII, b 390

Bonga, African town (Kaffa), XIII, a b 825

——, station (Tibet), XXIII, *b* 362, a 366

BONGO, race, IV, b 29; (Negro), XVII, a 326 note

—— mountains (Saráwak), XXI, a b 321

Bonheur, Rosa, painter (Legion of Honor), XIV, b 417

Bonhomme Richard, ship (Jones, J. P.), XIII, a 749

BONI, kingdom, IV, b 29–30; bay (Celebes), V, b 249; town, IV, a 30

Boni, Bernardo di Francesco del, artist (Glass), X, *b* 597, a 599

——, Giacomo, antiquary (Venice), XXIV, b 167 note, b 170

BONIFACE, ST., or Winfred, archbishop, IV, a b 30; (English Literature), VIII, b 360; (France), IX, b 469; (Fritzlar), a 694; (Fulda), b 713; (Germany), X, *b* 429; (Holland), XII, a 73; (Ireland), XIII, b 255; (Missions), XVI, b 535; (Monachism), b 733; (Pilgrimage), XIX, a 103; (Popedom), *a* b 509
BONIFACE, popes, IV, b 30
—— I., pope, IV, b 30; (Popedom), XIX, a 506, b 523
——, pope, IV, b 30; (Popedom), XIX, a 507, b 523
—— III., pope, IV, b 30; (Popedom), XIX, b 508, b 523
—— IV., pope, IV, b 30
—— V., pope, IV, b 30
—— VI., pope, IV, b 30
—— VII., pope, IV, b 30; (John XIV., pope), XIII, a 722; (Popedom), XIX, a 512, a 524
—— VIII., pope, IV, b 30; (Albert I.), I, a 399; (Celestine V.), V, b 253; (France), IX, a *b* 480; (Giotto), X, *b* 544; (Hungary), XII, a 383; (Italy), XIII, b 486; (Jubilee Year), a 770; (Popedom), XIX, b 513, b 515, b 524; (Renaissance), XX, a 395; (Rimini), *a* 571; (Rome), b 815; (Scotland), XXI, a 510; (Templars), XXIII, b 179; (Universities), b 892, b 894; *Decretals of* (Canon Law), V, b 18
—— IX., pope, IV, b 30; (Carthusians), V, a 144; (Mary), XV, b 598; (Rome), XX, b 820-21
Boniface, Count of Africa (Genseric), X, a 143; (Rome), XX, b 798; (Vandals), XXIV, *a* 65
——, count of Savoy, XXI, a 356
—— of Montferrat, king of Thessalonica (Crusades), VI, b 555, a 556
BONIFACIO, town, IV, b 30
——, strait of (Corsica), VI, a 389; (Sardinia), XXI, b 322
Bonifacios, painters (Schools of Painting), XXI, a 463
Bonifazio, Francesco, painter (Titian), XXIII, b 443
Boni homines, magistrates (Rome), XX, *a* 815, a 816
—— mores, customs (Roman Law), XX, b 688
Bonin islands (Japan), XIII, a 578, a 580, a 583; (Micronesia), XVI, a 267; (Pacific Ocean), XVIII, b 132
Bonis, tribe (Mythology), XVII, a 152
Bonito, fish (Ichthyology), XII, b 728; (Maldive Islands), XV, *a* 334
——, pueblo (Pueblo Indians), XX, *a* 888
Bonjean, drug (Ergot), VIII, b 461
Bon mots, clever speeches (Ana), I, b 687
BONN, town, IV, b 30-a 31
—— observatory (Micrometer), XVI, b 263
—— university (Libraries), XIV, a 548; (Observatory), XVII, b 732; (Universities), XXIII, b 904, a b 905
Bonn, Andrew (Anatomy), I, b 714
Bonnat, M. M. J., traveller (Gold Coast), X, b 672
Bonnaterre, Jean Pierre, naturalist (Ornithology), XVIII, b 10
BONNER or BONER, Edmund, bishop, IV, a b 31; (England), VIII, b 303, a 305
Bonnet, headgear (Costume), VI, b 422; Highland (Costume), b 424; ship's (Seamanship), XXI, b 632
——, river (Leitrim), XIV, a 433
BONNET, Charles, naturalist, IV, b 31-2; (Ant), II, b 84, b 85; (Bee), III, b 418, b 425; (Evolution), VIII, b 652-653, a *b* 656, b 665; (Switzerland), XXII, b 837
——, Bourdelot Jacques, musical writer (Stradella) XXII, *b* 612
—— pepper (Cayenne Pepper), V, a 244
Bonnette (Fortification), IX, a b 376
BONNEVAL, Claude Alexandre, comte de, adventurer, IV, b 32
Bonneville, lake (Utah), XXIV, b 24
Bonnington falls (Lanark), XIV, b 250-1
BONNIVARD, François de, patriot, IV, a 33; (Switzerland), XXII, b 835
"Bonny Lass" (Horse), XII, a 207
Bonnyn, dramatist (Drama), VII, a 366, note
Bonnytoun-hill (Linlithgow), XIV, b 675
Bono of Ferrara, painter (Mantegna), XV, b 508 note
Bononia, town (Boulogne sur Mer), IV, a 157
——, town (Italy), XIII, b 455. See BOLOGNA
—— in Bulgaria, town (Widdin), XXIV, b 589
Bonosus of Sardica, heretic (Mary), XV, a 597
Bonpa, religion (Tibet), XXIII, b 365-6
Bon Pays, district (Nièvre), XVII, a 509
BONPLAND, Aimé, botanist, IV, a 33
—— mountain (United States), XXIII, b 848
Bonsdorfite (Mineralogy), XVI, a 436
Bon Sens, a system of nature (Holbach), XII, b 55
"Bonshommes, Les" (Grandimontanes), XI, a 43
BONSTETTEN, Charles Victor de, author, IV, a b 33
Bontebok, mammal (Antelope), II, a 90
Bontemps, George, optician (Glass), X, a 593, a 594, b 595; (Telescope), XXIII, *b* 150
Bonthain, department (Celebes), V, b 250, a 251; peak of (Celebes), b 250, a 251
Bonuses, life policies (Insurance), XIII, a 183, b 184-5, a 190
Bonvicino, Alessandro, painter (Moretto), XVI, b 847
Bonxie, bird (Skua), XXII, a 133
Boobies, birds (Gannet), X, a 65
BOOK, IV, b 336
Book of Armagh (Ireland), XIII, a 253; (Palæography), XVIII, b 162; (Patrick, St.), b 422
BOOK-BINDING, IV, b 36-40
    casing, a 39-44
    famous bindings, a b 37
    finishing, a 39
    forwarding, b 38-9
    manuscript books, a 37
—— (Libraries), XIV, b 538-9; artistic, IV, a b 37; (Libraries), XIV, b 523
Book of Canons (Presbyterianism), XIX, a 702, b 706; (Scotland), XXI, b 533, b 534. See CANONS
Bookcases (Libraries), XIV, a 537
Book catalogues (Bibliography), III, b 570-4; (Libraries), XIV, a 510, b 512-3, a b 515, b 523-4, b 532, a 539-40
Book of Changes (China), V, a b 573; (Confucius), VI, b 233
—— *of Common Order* (Scotland), XXI, b 564
—— *of Common Prayer* (Baptism), III, b 303; (Confirmation), VI, b 229; (Convocation), a b 291; (Copyright), a 321; (Cranmer), a 488; (England), VIII, b 303-4, b 305-6, b 307, a 337, b 339-40
—— *of the Conquest* (Greece), XI, a 107
—— *of the Consulate*, VI, *b* 282
—— *of the Covenant* (Pentateuch), XVIII, a 520
—— *of the Dead* (Circumcision), V, a 691; (Deluge), VII, b 49; (Hermes Trismegistus), XI, a 671; (Mummy), XVII, a 28; (Mythology), a 158
—— *of Deer* (Gaelic), X, *a* b 12
Book, definition of (Copyright), VI, b 324
—— *of Dimma* (Palæography), XVIII, b 162
—— *of Discipline* (Scotland), XXI, a 525, a 529
—— *of the Duchess* (Chaucer), V, a b 391, *a* 393
—— Exchange, International (Libraries), XIV, b 541
—— of gold (Goldbeating), X, a b 670
Book-hand, writing (Typography), XXIII, a 725
—— *of Historical Documents* (China), V, b 557, a 558, b 575-6; (Confucius), VI, b 233
—— *of History* (China), V, a 572, b 573-4, a b 575, a 580
—— *of Homilies* (England, Church of), VIII, a 337, a 340; XII, b 129. See HOMILY
—— *of the Hours* (Liturgy), XIV, a 716; manuscript (Miniature), XVI, b 458, b 459
—— *of Howth* (Ireland), XIII, a 276
BOOK-KEEPING (Ill.), IV, a 40-2
    double entry, a 41-2
    history, a 40
    mixed method, a 42
    single entry, b 40
—— (Stevinus), XXII, a 574
Book of Kells (Illumination), XII, a 746
—— *of Kings* (Persia), XVIII, a 669, a 671
Bookland. See Boc-land
Book of Leinster (Ireland), XIII, b 251
—— *of Lismore*, XIV, b 700
Book-louse (Insects), XIII, a 159
Book-making (Betting), III, a 534
Book of Martyrs (Foxe, J.), IX, b 443, note
—— *of Mormon, The* (Mormons), XVI, a 852
—— *of Odes* (China), V, b 573, a 574, a b 575, a 577-8
Book plateau (United States), XXIII, b 849
Book of rates (Finance), IX, *b* 156, a 157
—— *of Rites* (China), V, b 573, a 574; (Confucius), VI, b 233
—— *of the Seasons* (Howitt), XII, b 338
Booksellers (Copyright), VI, a b 317, *b* 318
Bookselling, IV, a 35-6; in Paris, III, b 572
Book of Settlements (Iceland), XII, b 660
—— *of Songs* by Abu Faraj (Arabia), II, a 231, a 232
—— *of Sothis* (Manetho), XV, b 485-6
—— *of Sports*, James I. (Sunday), XXII, b 689-90
Book-trade (Berlin), III, a 516; (Germany), X, b 424; (Leipsic), XIV, b 430-1; (Protection), XIX, a b 932; early European (Typography), XXIII, b 724
—— *of the Wars of the Lord* (Israel), XIII, b 418
Book-work font (Typography), XXIII, a b 742
Bookworms (Libraries), XIV, a 539
Bookit Barisan. See BUKIT BARISAN
Books (Burmah), IV, a 496; (France), IX, b 460-1
——, ancient (Libraries), XIV, a b 509, a b 510; (Palæography), XVIII, b 148-9; destruction of (China), V, *b* 559, b 573, a b 575; (Palæography), XVIII, b 166
Books, block- (Bibliography), III, b 564; cleaning (Bleaching), b 713-4; curious (Bibliography), III, a 566-7; early printed (Typography), XXIII, b 729-30; image (Bibliography), III, b 564; Italy (Libraries), XIV, a b 527; material of (Bibliography), III, a 564; mediæval (Libraries), XIV, a b 513; Mexican Indian (America), I, b 610; prohibited (Index Librorum Prohibitorum), XII, a 768-9; rare (Bibliography), III, b 566; sizes of (Typography), XXIII, a 746. See BIBLIOGRAPHY and LIBRARIES
Books of Axum, III, b 140
Boolak, town, See Bulak
BOOLE, George, mathematician, IV, b 42-3; (Logic), XIV, b 809, *a* b 810, note
BOOM, town, IV, b 43

Boom in Harbors and Docks, XI, a 414, b 417
Boomah Nut, XVII, b 683
BOOMERANG, weapon, IV, b 43; (Australia), III, b 98
—— propeller (Mitchell), XVI, a 552
Boompjes, quay (Rotterdam), XXI, b 13
Boondee, state. See BUNDI
Boondelas, History of the (Hindustani Literature), XI, a 753
BOONE, Daniel (Kentucky), XIV, b 46; (United States), XXIII, b 836
Boops, species (Whale) (Ill.), XXIV, a 553
Boot, foot-cover (Costume), VI, *a* 402, a 410, a *b* 412, a b 413, b 414, b 415, b 417, *b* 419, a *b* 420; top (Shoemaking) (Ill.), XXI, a b 869; tight (Surgery), XXII, a 718
——, instrument (Torture), XXIII, a b 495, note
——, Arnold de, physician (Medicine), XV, b 819
BOOTH, Barton, tragedian, IV, *b* 43-4
——, John Wilkes, assassin (Lincoln), XIV, a 669
——, William, evangelist (Salvation Army), XXI, b 899
Bootham Bar (York), XXIV, *b* 787
BOOTHIA FELIX, peninsula, IV, a 44; (America), I, b 588; (Geography), X, a b 172; (Polar Regions), XIX, a 332
Booths, feast of (Tabernacles, Feast of), XXIII, a b 10
Booty of war (Prize), XIX, a 786, a 787
BOPP, Franz, philologist, IV, a 44-5; (Philology), XVIII, b 779, b 794-5, a b 798, a 802
Bopyridæ, family (Crustacea), VI, a 580, a 583, a 590
Bopyrus, genus (Crustacea) (Ill.), VI, *a b* 572
Boque river (Canton), V, a 34
Bora, wind (Croatia), VI, b 523; (Herzegovina), XI, a 693
Bora, Catherine von, wife of Luther, XV, b 80
Bora-bora or Bola-bola, island (Tahiti), XXIII, a 27
Boracic or boric acid (Borax), IV, a *b* 45; (Chemistry), V, *b* 450, a 451; (Davy), VI, b 744; (Glass), X, b 583, a 584; (Homberg), XII, b 110; (Preserved Food), XIX, b 727; springs (Water), XXIV, b 420
Boracite (Mineralogy) (Ill.), XVI, a b 367, a *b* 391, b 412; (Polarity) (Ill.), XIX, a 325, note
Borage, herb (Horticulture), XII, a 302
Boraginaceæ, plants (Botany), IV, a 106, b 107, b 130, b 137
Borahs, class (India), XII, b 784
Boraitho (Mishnah), XVI, a 531
Borang, cape (Kei Islands), XIV, b 29
Boraston, W., chemist (Guyton de Morveau), XI, a 307, note
BORAX, IV, a 45-6; (California), a 623; (Mineralogy) (Ill.), XVI, a 413; flux (Blowpipe), III, a b 728; manufacture (Gannal), X, b 63
—— Lake, California, IV, a 45; (Sulphur), XXII, a 668
Borbonius, Matthew, epigrammatist (Owen), XVIII, b 88
Borcette, town. See BURTSCHEID
BORDA, Jean Charles, mathematician, IV, a b 46; (Tables), XXIII, b 15
Borda and Delambre's *Tables Trigonometriques* (Tables), XXIII, b 15, a 17
Borda mouthpiece (Hydromechanics), XII, a 491-2
BORDEAUX, city, plan, IV, a 46-7; (France), IX, a 458; (Molière), XVI, b 648; (Montaigne), a b 794, a b 797
——, assembly of, 1871 (France), IX, b 552; Parliament of (Condé the Great), VI, *b* 219
—— Turpentine, XXIII, a 711
—— Wine. See Medoc
Borden, Gail, inventor (Milk), XVI, b 317
Border, the (Heraldry), XI, b 620-1
Borderers, poem (Wordsworth), XXIV, b 704, note
Bordigné, Charles de, satirist (Rabelais), XX, a b 201
Bording, Anders, poet (Denmark), VII, b 79
Bordö, island (Faroe Islands), IX, a 36
Bordone, Paris, painter (Titian), XXIII, b 443
Bordoni, Faustina, singer. See Hasse
Bords, openings (Coal) (Plate III, IV), VI, b 60, b 61
Bore, gun (Shooting), XXI, a b 872; (Gunmaking), XI, b 248-9
Bore, tidal wave (Geology), X, a 251; in the Amazon, I, *b* 575; (America), b 592; in the Brahmaputra, IV, b 190; in the Hooghly, XII, a 151; in the Humber river (Lincoln), XIV, a 661
Borealis, species (Whale), XXIV, b 553, b 557
BOREAS, in Greek mythology, IV, b 47; (Attica), III, a 52
Borecole or Kale, vegetable (Horticulture), XII, b 290
Boreida, town ('Oneiza), XVII, b 795, a 796
Borel, count of Barcelona (Silvester), XXII, *b* 81
——, Peter, physician (Telescope), XXIII, a 147; (France), IX, b 595
——, William, diplomatist (Telescope), XXIII, a b 147
BORELLI, Giovanni Alfonso, founder of a medical sect, IV, b 47; (Aëronautics), I, b 168; (Apollonius), II, b 164; (Descartes), VII, a 111; (Ichthyology), XII, a 668; (Medicine), XV, a 820; (Vascular System), XXIV, *a* 105
Borelli's bird (Flight) (Ill.), IX, *a b* 278
Borero, president (Ecuador), VII, b 562, b 563
Borers, beetles (Coleoptera), VI, a 120, a 121; (Insects), XIII, b 154, a 156; stone (Annelida), II, b 64
Borez, fish (Hag-fish), XI, b 330
BORGA or Borgo, town, IV, b 47-8
Borgard, Albert, artillerist, II, b 574
BORGERHOUT, town, IV, a 48
Bor-Ghát pass (India), XII, a 772
BORGHESE, family, IV, a 48; (Frascati), IX, b 637, a 638
Borghese, Camillo. See pope Paul V.
—— gallery (Schools of Painting), XXI, a 467
—— villa (Cenci), V, a 290; statuary (Ares), II, b 427
Borghesi, Count Bartolomeo, archæologist (Inscriptions), XIII, b 130, b 134, note
——, Scipione, author (Siena), XXII, a 49
Borgholm, town (Oland), XVII, a 774
Borgia, popes. See ALEXANDER VI. and CALIXTUS III.
BORGIA, Cæsar and Lucretia, IV, a 48
——, Cæsar (Alexander VI.), I, a *b* 431, *a b* 432, *a* 433; (Leonardo), XIV, b 459; (Machiavelli), XV, b 147, *a b* 148
——, St. Francis, duke of Gandia, IX, b 611; (Gandia), X, b 61; (Jesuits), XIII, b 658, a 660, b 663, a 664
——, Giofré, prince (Alexander VI.), I, b 431
——, Lucretia, IV, a 48; (Este) VIII, b 493; (Alexander VI.), I, a b 431, a *b* 432
Borgia map (Geography) (Plate II), X, b 161
Borgie river (Sutherland), XXII, b 764
Borgne, lake (Louisiana), XV, a 22
Borgo, town. See BORGA
——, Lucas di, monk (Bookkeeping), IV, a 40
Borgognone, Ambrogio, Il, painter, (Fossano), IX, b 417; (Schools of Painting) (Ill.), XXI, a 456, a 463, a 465
BORGO SAN DONNINO, town, IV, a b 48
Borgs or Brochs, fortresses (Orkney), XVII, b 872
BORGU or Barba, district, IV, b 48
Boric acid. See Boracic
Boriés's Hydrometer, XII, b 572
Borinage, district (Mons), XVI, b 788
Boring Hand Tools (Ill.), XI, a b 392
—— in mines (Coal) (Ill.), VI, *a* b 58; machines (Diamond), VII, b 144; (Machine Tools), XV, b 156-7; (Mining), XVI, b 462-3, a 464
Borinquen, island. See PORTO RICO
Boris, king of Bulgaria (Methodius), XVI, b 202
—— Godunoff, Czar (Archangel), II, b 322; (Moscow), XVI, b 887; (Russia), XXI, b 101-3, b 111
Borisoff, town (Minsk), XVI, b 501
BORISSOGLIEBSK or Borisoglyebsk, town, IV, b 48; town (Tamboff), XXIII, b 45, a 46
Börjesson, Johan, dramatist (Sweden), XXII, b 796
Borkhausen, Moritz Balthazar, naturalist (Ornithology), XVIII, a 13
BORKU or Borgu, country, IV, b 48-9
Borkhut, mountains (Transcaspian), XXIII, a 545
BORLASE, William, antiquary, IV, a 49; ornithologist, XVIII, a b 13
Bormida, river (Italy), XIII, a 445
Bormio valleys and town (Valtellina), XXIV, *b* 51, a 52; dialect (Italy), XIII, b 502
Born, Bertran de, troubadour (Provençal Literature), XIX, b 899, a b 900
BORN, Ignatius, baron von, mineralogist, IV, a b 49
Bornabi, Bonabe or Bonibet (Caroline Islands), V, b 111
BORNE, Ludwig, satirist, IV, b 49; (Germany), X, b 487; (Heine), XI, b 559, a 560
Borneil, Guirant de, troubadour (Provençal Literature), XIX, b 899
Bornemann, engineer (Hydromechanics), XII, b 454, b 485
BORNEO, island (Ill.), IV, b 49-55
  bibliography, b 53-4
  climate and health, b 50-1
  history, a b 53
  inhabitants, b 51-3
  physical features, b 49-50
  productions, a b 51
  territorial division, a 53
—— island (Asia), II, b 600; (Brooke, Rajah), IV, a b 333; (Camphor), b 672; (Coal), VI, a 56; (Diamond), VII, a 142; (Distribution), b 232; (Forests), IX, b 356; (Indian Archipelago), XII, a *b* 855, a *b* 856, a b 857; (Mining), XVI, b 491; (Missions), b 539; (Ordeal), XVII, a 842
BORNEO, British North, district, XXI, b 131-2
——, avifauna of (Birds), III, a 662; gum (India-Rubber), XII, a b 880; organic forms in (Asia), II, *a* b 607
—— Coral Islands (Keeling Islands), XIV, b 28
Bornhardt's frictional battery (Blasting), III, b 703
Bornhauser, T., poet (Switzerland), XXII, b 838
BORNHOLM, island, IV, a 54; (Coal), VI, b 52; (Denmark), VII, *b* 70, a b 71, a 72, a b 73; (Zeeland), XXIV, a 810 note
Bornite (Mineralogy), XVI, b 409
BORNU or Bornou, kingdom, IV, a 54-5; (Africa), I, a 223, a 243; (Soudan), XXII, *a* b 292-293

Borocalcite (Mineralogy), XVI, a 413
Borodino, battle of, 1812 (Fortification), IX, b 380; (Napoleon I.), XVII, b 223–4
Boroim Laigen, tribute (Ireland), XIII, a 251, b 256
Boron and its compounds (Chemistry), V, b 450–1, a 454, b 461, a 498; (Wöhler), XXIV, b 660
——, Robert de, poet (Grail, the Holy), XI, a *b* 32, *a* 33
Boronatrocalcite (Borax), IV, b 45
Borough, IV, b 55–7; (Finance), IX, b 154; (Government), XI, b 19; (London), XIV, b 829; (Municipality), XVII, b 33–34, a b 35–7
——, corrupt (Bribery), IV, a 249; court (Quarter Sessions), XX, a 166; franchise (Registration), *a b* 357–8; Market (London), XIV, b 838; members of Parliament (Montfort), XVI, b 814; reform (Parliament), XVIII, b 314, a 315; rotten (Derby, Earl of), VII, a 95, a 96
——, Stephen, explorer (Chatham), V, b 380
Borough-English, law-custom, IV, b 57; (Middlesex), XVI, b 293; (Primogeniture), XIX, b 752; (Sussex), XXII, b 762
Borovichi, town, IV, b 57
Borovsk, town, IV, b 57
Bòrozàno, civilians (Madagascar), XV, b 172
Borradale Series, rocks (Westmorland), XXIV, a 543, a 544
Borrell, historian (Presbyterianism), XIX, a b 713 note, a 715, note
Borrelly's Comet, VI, a 165, b 170
Borromean Islands, IV, b 57; (Schwyz), XXI, b 486
Borromeo, Carlo, cardinal, IV, b 57–8; (Jesuits), XIII, b 660; (Milan), XVI, b 303; (Palestine), XVIII, b 184, a 185; (Switzerland), XXII, b 829, a 830; statue of (Arona), II, a 549
Borromini, Francesco, architect, IV, b 58
Borron, Hélie de, trouvère (Romance), XX, a b 660, a 661, b 663, note, *a* 664
—— or Bouron, Robert de, trouvère (Romance), XX, *b* 660, *a* b 661, a b 662, note, a b 665
Borrow, George, philologist (Gipsies), X, a 550, *b* 551
Borrowdale (Cumberland), VI, *a b* 616, b 617; graphite mine (Pencil), XVIII, b 500
Borrowing, ancient (Usury), XXIV, b 22; calendar days (March), XV, a b 540
Borrowstounness or Bo'ness, town, IV, b 58; (Coal), VI, b 50, a 51
Borsippa, ruins (Babylon), III, *b* 158; (Babylonia), *a b* 159
Borso of Modena, duke. See Este
Borthwick, river (Roxburgh), XXI, b 39
Borulwaski, Dwarf, VII, b 490
Borussians, race (Lithuanians), XIV, *b* 707, a 708
Bory de Saint-Vincent, Jean Baptiste, naturalist, IV, b 58
Borysthenes, river (Dneiper), VII, a 266
Borysthenis, colony (Olbia), XVII, *b* 774
Borzna, town (Tchernigoff), XXIII, a 103
Bos, mammal (Cattle), V, *a* b 213–4
Bosa, city, IV, b 58
Bosanquet, John Bernard, economist (Ricardo), XX, a 548
Bosc, Louis Augustine Guillaume, naturalist, IV, b 58-9
Boscan, Juan, poet, IV, a 59; (Spain), XXII, a 371, b 377
——-Almogaver, Juan, poet (Garcèlaso de la Vega), X, *b* 67
Boscawen, Edward, admiral, IV, a b 59
Bosch, Johannes van den, governor (Indian Archipelago), XII, *b* 859; (Java), XIII, *a* 614
——, Veld, bush tract (Transvaal), XXIII, a 551
Boschetto, architect (Pisa), XIX, a 131
Bosco or Gurin, village (Ticino), XXIII, b 373
Boscovich, Roger Joseph, mathematician, IV, b 59, a 60; (Atom), III, a b 34, a 41; (Microscope), XVI, b 277; (Molecule), a 632
Boselaphus, genus (Nylghau), XVII, b 707
Bos grunniens, species (Yak) (Ill.), XXIV, a b 761
Boshes of furnaces (Iron), XIII, b 304
Bosheth. See Baal
Bosio, Antonio, antiquary (Catacombs), V, a 181, b 183, a 186
——, Giacomo, historian (St. John of Jerusalem), XXI, *a* 184
——, Joseph, sculptor (Sculpture), XXI, a b 590
Bosjesmans, bushmen (Bushmen), IV, b 512-3
Bosna Serai, city, IV, a b 60
Bosnia, province, IV, b 60–1
Bosnia (Herzegovina), XI, b 692, *b* 693, *a* 694; (Turkey), XXIII, b 693
Boson, duke of Lombardy and Provence (Burgundy), IV, a 479; (John VIII., pope), XIII, b 721
Bosphorus or Bosporus, strait (Ill.), IV, a b 61; (Caspian Sea), V, *a* b 157, a 158; (Black Sea), III, b 690, a 692, b 693
—— Cimmerius, sea (Azoff), III, b 146
——, country (Numismatics), XVII, a 662
Bosquet, physician (Vaccination), XXIV, *a* 29, a *b* 30, *a* 31, a 36
Boss, ornament (Architecture), II, b 404
Bosscha, J., physicist (Electricity), VIII, a *b* 86, note
Bosse, Abraham, etcher (Engraving), VIII, b 394, b 396–7
Bosset, Major de (Cephalonia), V, a 299
Bossi, Giuseppe, painter, IV, b 61
Bossi, Giuseppe Carlo Aurelio, baron de, poet, IV, b 61–2
—— of Coire, bishop (Glarus), X, b 567
Bossu, René le, critic, IV, a 62
Bossuet, Jacques Bénigne, theologian, IV, a 62–4; (Bourdaloue), b 159; (Canticles), V, b 30, a 31; (Church History), a 669; (Condé the Great), VI, b 220; (Fénelon), IX, b 64, a b 65; (France), a 510, b 582; bishop (Guyon), XI, b 306, a 307; (History), XII, a 24; (Isocrates), XIII, b 402; (La Bruyère), XIV, a b 178; (Macaulay), XV, b 130; (Meaux), a 676; (Reformation), XX, a 334; (Simon, R.), XXII, b 89, *a* 90; (Trappists), XXIII, b 556
Bossut, Charles, geometer (Hydromechanics), XII, a b 453, b 499; (Pascal), XVIII, a 343
Boston in Lincolnshire (Ill.), IV, a b 64; (Lincoln), XIV, a b 661, *a* 662
Boston, Mass. (Ill.), IV, b 64–8
    charities, a 68
    fires, b 66
    history, b 64–6
    public works and buildings, b 66–7
    schools and educational institutions, a b 67, a 68
    statistics, b 66
—— (Cambridge), IV, b 647; (Canada), *b* 677; (Garrison), X, *b* 77, a 78; (Hancock), XI, *b* 387; (Libraries), XIV, b 533, a b 535, b 540, b 552-3; (Newspapers), XVII, a 444–5; (Schools), XXI, a 908
Boston, colonial disorders in (United States), XXIII, *a b* 786, *a* 787; commerce (Leather), XIV, a b 391; (United States), XXIII, b 880, a 881
——, siege of, 1775 (United States), XXIII, *b* 788, b 789, b 790; (Washington), XXIV, a 410
—— Society of Natural History (Societies), XXII, a 235
—— *Atlas*, newspaper (Hildreth, R.), XI, b 729
—— *Gazette* (Newspapers), XVII, a 423, b 444
—— port bill (Jefferson), XIII, a 625; (United States), XXIII, *b* 787
—— *Sentinel* (Newspapers), XVII, a 445
"Boston Blue" (Horse), XII, a 208
—— Plantation (Pittsfield), XIX, a 162
Boston, Thomas, theologian, IV, b 68
Boström, Kristofer Jakob, philosopher (Sweden), XXII a 796
Boswell, James, biographer, IV, b 68–70; (Johnson, S.), XIII, a b 737, b 740; (Piozzi), XIX, *a* 119; (Rousseau, J. J.), XXI, b 31; (Savage), XXI, b 339
Boswell's *Life of Samuel Johnson* (Ana), I, b 689; (Croker), VI, b 526
Boswellia, trees (Frankincense), IX, b 624
Bosworth field, battle of, 1485 (Shakespeare), XXI, *a* 777; (York), XXIV, b 790
Botanical gardens (Botany), IV, a 71; (Edinburgh), VII, b 576–7; (Ghent), X, a b 504; (Hamburg), XI, a b 362; (Kew), XIV, a 57; (London), XIV, a 833, b 845; (Michaux), XVI, *b* 237; (Oxford), XVIII, b 98; (Paris), b 280, a 287; (St. Louis), XXI, b 193
—— Societies, XXII, a b 237
—— nomenclature (Bauhin), III, b 386
—— regions (Distribution), VII, b 248–52
Botany (Ill.) (Plates I–XVI), IV, a 70–149
    explanation of plates, 148 9
    history, ancient, a 70–3
        of classification, a 70–2
        of physiology, a 72–3
    index, 148
    NUTRITIVE ORGANS, a 83 107
        abnormal leaves, b 102–3
        acotyledons, leaf, b 103
            stem of (Ill.), a 94–6
        bark, b 90–1
        branches (Ill.), a 86-7
        cambium, a 90–1
        compound leaves (Ill.) (Plates V, VII, XV), b 100-1
        dicotyledons, leaves, b 103
            stems (Ill.), b 88-92
        function and fall of leaf, b 106–7
        leaf-buds (Ill.) (Plates XV, VI), a b 85
        leaf-structure (Ill.), b 96
        leaves (Ill.), b 96–107
        medullary structure (Ill.), b 88, a 91–2
        monocotyledons, leaf, b 103
            stem (Ill.) (Plate XVI), a 92-4
        petiole (Ill.) (Plate VII.), b 101–2
        phyllotaxis (Ill.), b 103–6
        root (Ill.) (Plate X), a 83–4
        simple leaves (Ill.) (Plates I, IV, VI, VIII, IX), a 99–100
        stem (Ill.), b 84–96; modifications (Ill.), a 87–8
        stipules, a 102
        thallogens, stem, b 95–6
        venation (Ill.), b 97–8
        vernation (Ill.), a b 106
        wood, b 89-90

BOTANY, *continued*
NUTRITIVE ORGANS
organs of plants (Ill.), b 81-3
REPRODUCTIVE ORGANS, 107-147
alternation of generations (Ill.), b 145-7
anther (Ill.) (Plate IX), b 123-6
asexual reproduction (Ill.), a 145-7
bracts (Ill.) (Plates VII, IX, XVI), b 107-8
calyx (Ill.) (Plates I, III, VII, IX, XI), a 118-9
conjugation, b 144
connective, the (Ill.), a 124
corolla (Ill.) (Plates I, V, VIII, XI), a 119-21
cotyledons (Ill.), b 141-3
cryptogams, female organs (Ill.), a 143-7; male organs (Ill.), b 126-7
dehiscence (Ill.) (Plate XI), b 124; of fruits (Ill.) (Plates I, II, III, XIII), a 135-7
disk (Ill.), b 126
embryo (Ill.), a 141-3
essential organs, b 121-47
fertilization (Ill.), b 133 4
filament (Ill.) (Plate III), a 123
floral formulæ (Ill.), a 117
flower, the (Ill.) (Plates I, XV), b 113-34
flower-bud (Plates I, V), a 118
fruit (Ill.), a 134-9; forms (Ill.) (Plates I-VII, IX-XIII), a 137-9
inflorescence (Ill.), b 109-13
axillary (Ill.), b 109-11
definite (Ill.), 111-2; mixed (Ill.), b 112-3
modifications of symmetry (Ill.), a 116-7
nectaries, b 121, b 126
ovule (Ill.) (Plates XIII, XV), b 131-3
peduncle (Ill.) (Plates II, IV, XVI), b 108-9
phanerogams, female organs (Ill.), b 127-34; male organs (Ill.), a 122-6
pistil (Ill.) (Plates I, III, V, VII, XI, XIII, XV), b 127-134
placenta (Ill.), a 129-30
pollen (Ill.), a 125-6
protective organs, a 118-21
seed (Ill.) (Plates II, VIII, XII.), b 139-43
stamens (Ill.) (Plates IX, XV), a 122-4

BOTANY, *continued*
REPRODUCTIVE ORGANS
stigma (Ill.) (Plates I, IX), a b 131
style (Ill.) (Plate XI), b 130-1
symmetry, floral (Ill.), b 114-6
teratology, a 116-7
thallogens, female organs (Ill.), a 144
transformations of pistil, b 131
STRUCTURAL ELEMENTS (Ill.), b 73-81
cells (Ill.), b 73-5
cellular tissues (Ill.), a 75-6
contents of cells, a 75, b 77-8
epidermis (Ill.), b 78-9
glands (Ill.), b 80-1
intercellular spaces, a 77
laticiferous vessels (Ill.), a 77
trichomes (Ill.), a 80

—— (Adanson), I, a 133; (Bonnet), IV, a 32; (Brown), a b 347; (Cæsalpinus), a 562; (De Candolle), VII, a 18; (Distribution), a 249-52; (Dillen), b 209; (Gaudichaud-Beaupré), X, a 99; (Geology), X, b 306, a 310, a 312, a 319, a 322, b 323, a 324; (Goethe), a b 650; (Herbarium), XI, b 639-42; (Hooker, W. J.), XII, a b 156; (Jussieu), XIII, b 797-8; (Lichens), XIV, a 555-6; (Lindley), b 669-70; (Linnæus), b 677-81; (Martius), XV, a b 593; (Malpighi), a b 340; (Physiology), XIX, a 50-72; (Ray), XX, *b* 313-4; (Reproduction), XX, a 435-44; (Sprengel), XXII, b 449; (Theophrastus), XXIII, a b 297; (Vegetable Kingdom), XXIV, a 136-43; (Zoology), a b 836. See Flora
——, African, I, a b 231
——, American, I, a 601-2; (Michaux), XVI, *b* 237; (Nuttall), XVII, a 706; Asiatic, II, a 605-7; Australian III, a b 96; (Ceylon), V, b 314-5; European, VIII, b 605-8; Himalayan, XI, b 742-4; (India), XII, a 778-9; marine (Sea), XXI, a 606; reform of (Schleiden), a 427; Siberian, XXII, a 11-2; Swiss (Haller), XI, a b 354; treatises on Shakespeare's, XXI, a 806
BOTANY BAY, IV, a 149; (Australia), III, a 96; (Sydney), XXII, *b* 845, *a* 847
Botaurus, genus (Birds), III, b 617-8, b 689; (Bittern), b 689; (Heron), XI, b 680
Boteler, Sir William, ancestor (Warrington), XXIV, a 395
Botella, Federico de, geologist (Spain), XXII, b 319
Botero, Giovanni, Benisius, political writer (London), XIV, b 829
Botetourt, Baron de, governor (Jefferson), XIII, b 624
Bot Fly (Diptera), VII, b 223; (Veterinary Science), XXIV, b 222
Both, Jan, painter (Heusch), XI, b 699, *a* 700
——, Pieter, governor (Indian Archipelago), XII, b 859
Botham, Mary, poetess (Howitt), XII, b 338
Bothie of Tober-na-Vuolich (Clough), VI, b 37
Bothies, huts (Agriculture), I, a 363, b 364
Bothkamp Observatory, XVII, b 732
BOTHNIA, gulf of, IV, b 149; (Baltic), III, *a* b 254, b 255, a b 256, a 257; (Sweden), XXII, *a* 774, a 775, a 776, a 777
BOTHNIA, province, IV, a b 149
Bothrenchyma (Botany) (Ill.), IV, b 76
Bothriocephalus, entozoon (Parasitism), XVIII, a b 262; (Tape Worms) (Ill.), XXIII, b 54, *b* 59-60
BOTHWELL, village, IV, b 149; bridge, battle, 1679 (Lanark), XIV, b 252; (Scotland), XXI, b 538
BOTHWELL, James Hepburn, earl of, IV, b 149-50; (Mary Stuart), XV, *a b* 602, *a b* 603, *a b* 604, *a b* 605, a 606; (Scotland), XXI, a 525, b 526-7, a 529
Botley Hill (Surrey), XXII, a 729
Botocudos, Indians (Brazil), IV, a 211
Botolph, St. (Boston, Eng.), IV, a 64
Botrida, genus (Protozoa), XIX, b 873
Botrydium, plant (Reproduction), XX, b 437, b 439, *a* 442, b 443, a 444
Botryllus, ascidiozooid (Tunicata), XXIII, a 647, a 657
Botryogene (Mineralogy), XVI, a 419
Botryolite (Mineralogy), XVI, b 426, a 427
BOTTA, Carlo Giuseppe Guglielmo, historian, IV, a b 150; (Italy), XIII, b 524; his *History of Italy* (Thucydides), XXIII, a 347
——, Paule Émile, traveller, IV, b 150
Böttcher's method of purifying Phosphorus, XVIII, b 828, note
Botten-Hansen, Paul, author (Norway), XVII, b 606
Böttger, Frederick, chemist (Pottery and Porcelain), XIX, a b 659
Bottia, town (Antioch), II, b 115
BOTTICELLI, Sandro, painter, IV, b 150-2; (Fine Arts), IX, b 183; (Schools of Painting) (Ill.), XXI, a 451, a b 452, a 462, a 466, *b* 467
BOTTIGER, Karl August, archæologist, IV, a b 152
——, Karl Wilhelm, historian, IV, b 152
——, Karl Vilhelm, poet (Sweden), XXII, b 796; (Tegnér), XXIII, *b* 118
BOTTLE (Ill.), IV, b 152-3; (France), IX, b 460; manufacture (Glass), X, b 592-3
Bottle, comedy (Cratinus), VI, a 491
——, gourd, XI, a 6
—— house (Glass) (Ill.), X, b 592
Bottle-nose, bird (Puffin), XX, a 107
—— or Bottlehead, dolphin, VII, b 300; (Mammalia), XV, b 403
—— nosed or Hyperoodon Whale (Mammalia), XV, a 400; (Whale), XXIV, b 551, a b 554, b 557-8
—— Titmouse, bird, XXIII, a 447
Bottom fishing (Angling), II, a 30-1
—— -heat (Horticulture), XII, a 216, a b 217, a b 228, b 229, a b 230-1, b 236
—— ice (Baltic), III, b 254
—— lands (Louisiana), XV, b 21-2, a 23; (Mississippi), XVI, a b 542, 543, b 544-5, a 546; (Nebraska), XVII, b 315, a 318
Bottomley, J. T., physicist (Elasticity), VII, a b 691, b 709; (Heat), XI, b 516
BOTTOMRY, contract, IV, a b 153; (Average), III, a 129
Boty's lamp (Coal), VI, a 68
BOTZEN, Bozen, town, IV, b 153-4; (Tyrol), XXIII, *b* 758
Bouali, town. See BOVALI
Boucans, settlements (Buccaneers), IV, a 367
Bouchard or Burchard I. Sire de Montmorency, XVI, b 817
——, Alain, jurist (Rabelais), XX, b 200, a 201
Bouchardia, genus (Brachiopoda), IV, a 172, b 176
Boucher de Perthes, Jacques (Anthropology), II, a 102
BOUCHES-DU-RHONE, department, IV, a 154
Bouchet, lake (Loire, Haute-), XIV, a 817
——, Jean, poet (Rabelais), XX, a 201
Bouchette, Joseph, surveyor-general (Toronto), XXIII, b 477
Boucicault, Dion, dramatist (Reade), XX, a 316
——, Jean le Meingre, Sire de, marshal (France), IX, a 567
Boucnemia, disease (Elephantiasis,), VIII, a 119
Boucquoy, count (Foundling Hospitals), IX, *b* 426
Boudet, Charles Ernest, physician (Embalming), VIII, b 146
Bouet, general (Tong-king), XXIII, a 470
Bouetville, town (St. Louis), XXI, a 192
BOUFARIK, town, IV, a b 154
Bouffes Parisiens, theatre (Offenbach), XVII, a 753
BOUFLERS, Louis François, duc de, IV, b 154; (Eugene, Prince), VIII, b 580
Bougainville, island (Solomon Islands), XXII, b 265 note, a b 266, note
BOUGAINVILLE, Louis Antoine de, navigator, IV, b 154-5; (Geography), X, a 169; (Tahiti), XXIII, a 27, b 29

Bougainvillia, genus (Hydrozoa) (Ill.), XII, b 580, b 586, *b* 594
Boughton, Gabriel, surgeon (Bengal), III, a 492
BOUGIE, town, IV, a 155
Bougot, A., scholar (Philostratus), XVIII, b 810, a 811
BOUGUER, Pierre, mathematician, IV, a b 155; (Astronomy), II, b 661, b 693, b 701; (Earth), VII, *b* 516-7; (Micrometer), XVI, b 259, a 261; (Navigation), XVII, a b 264; (Photometry), XVIII, a b 856; gauge of (Anemometer), II, b 23
BOUHOURS, Dominique, critic, IV, b 155
Bouillaud, bibliophile (Bibliography), III, *b* 572
Bouillaud, Jean Baptiste, physician (Heart), XI, a 493
Bouillé, François Claude Amour, Marquis de, general (Mirabeau), XVI, b 519
BOUILLON, Godfrey de, IV, b 155-6; (Crusades), VI, b 551, a 552, a b 553; (Matilda), XV, a 639
——, Henri de la Tour d'Auvergne, duc de, soldier (Condé the Great), VI, b 219, a 220
——, duchess de (Racine), XX, *a* 214
BOULAINVILLIERS, Henri de, historian, IV, a 156; (France), IX, a 587
Boulangerite (Mineralogy), XVI, b 411
Boulder Bank (Nelson), XVII, b 330
—— clay (Geology), X, a b 326, a 328; (Russia), XXI, a 82
—— drift (United States), XXIII, a 853
Boule, council (Greece), XI, a 77, a 84, b 87, a 88
Boule, André Charles, inventor (Buhlwork), IV, a *b* 399; (Furniture), IX, a 746; (Inlaying), XIII, b 88
Boulengé chronograph and Telemeter. See Le Boulengé
Boulenger, G. A., naturalist (Reptiles), XX, *a b* 452, note, a 480 note; (Siredon), XXII, a b 104, note, a 105; (Triton), XXIII, a b 614
Bouleuterion, temple (Games), X, a 58
Boulevards (Paris), XVIII, b 298
Boulinikon, fabric (Floor Cloth), IX, a 289
Boullay, Pierre François Guillaume, chemist (Liebig), XIV, b 569-70
BOULOGNE SUR MER, town (Plan), IV, a 156-7; (Henry II., France), XI, a 597; (Montmorency), XVI, a 818; (Nelson), XVII, a b 332; (Pas de Calais), XVIII, b 344, a 345
—— sur Seine, XXI, b 655
—— river (Vendée), XXIV, b 149
BOULTER, Hugh, archbishop (Philips), XVIII, a b 768
BOULTON, Matthew, manufacturer, IV, a b 157; (Button), a 532; (Steam-Engine), XXII, a b 494, a 495, a 496; (Watt), XXIV, a 435, a 436
Boulton and Watt, engineers (Shipbuilding), XXI, *a* 862
Boulton's system (Heating), XI, b 529
Boundaries (Brehon Law), IV, a b 227; (Italy), XIII, a 457; stones, Roman (Inscriptions), XIII, b 135-6
Bounty (Commerce), VI, a 182; (Corn Laws), b 363, *a b* 364
—— Bay (Pitcairn), XIX, b 141
——, ship, mutiny (Bligh), III, a 717; (Bread-fruit), IV, *a* 217; (Pitcairn), XIX, *b* 141; (Tahiti), XXIII, b 29
Bouquet, produced by voyage (Wine), XXIV, a 642
Bouquets, tinctures (Perfumery), XVIII, a 537
BOURBON or Reunion island, IV, b 158; (Africa), I, a 237, b 243. See REUNION
BOURBON, family, IV, b 157-8
    Neapolitan branch, a b 158
    Spanish branch, a 158
——(Capet), V, a 50; (Condé), VI, b 217; (Conti), a 284; (France), IX, a 496, a 498, a b 520; (Spain), XXII, b 349, a b 352, a 355, *b* 360
——, Blanche de, queen (Pedro), XVIII, b 461
——, Charles de Montpensier, duc de, constable (Bourbon), IV, b 157-6; (Cellini), V, b 255; (France), IX, b 490
——, Louis Auguste de, prince of Dombes (Periodicals), XVIII, b 549
——, Louis Henry, duke of Enghien, premier (Condé, Princes), VI, a 218; (France), IX, b 515
—— princes (Naples), XVII, b 198; tyrannies (Italy), XIII, a b 495-6, a b 498-500
BOURBON L'ARCHAMBAULT, town, IV, b 158
Bourbonism, Italian (Fra Diavolo), IX, b 444-5; (Ferdinand VII.), IX, a 74
BOURBONNE-LES-BAINS, town, IV, b 158
BOURBON-VENDÉE, town, IV, b 158. See ROCHE-SUR-YON, XX, b 630
Bourboule, spa. See La Bourboule
Bourbourg, Brasseur de, Charles Etienne, traveller (America), I, b 617, b 619; (Guatemala), XI, a b 214; (Mexico), XVI, a b 216, b 222; (Yucatan), XXIV, b 797, *a* 798
BOURCHIER, John, translator, IV, b 158
BOURDALOUE, Louis, orator, IV, b 158-9; (Bossuet), b 62; (Condé the Great), VI, b 220; (France), IX, a 583; (Luxembourg), XV, a 88; (Massillon), b 624
Bourdeilles, historian. See BRANTOME
Bourdelot, Edme, physician (Christina), V, *b* 610
Bourdon, stop (Organ), XVII, a 854, a 856, *a b* 857
Bourdon's manometer (Ill.), XV, b 503
—— pressure-gauge (Steam-Engine), XXII, a 519
Bordu, J., artisan (Pottery), XIX, b 649
Bourette Silk, XXII, a 70
BOURG, town, IV, b 159-60; (Châtillon-sur-Seine), V, a 385
—— de Four, castle (Geneva), X, *b* 133
BOURGAS or Borgas, town, IV, a 160; (Black Sea), III, a 691
BOURGELAT, Claude, farrier, IV, a 160; (Veterinary Science), XXIV, b 214, a 217
Bourgeois, type (Typography), XXIII, a 743
Bourgeoisie, ascendancy of (Italy), XIII, a 487-8; (Socialism), XXII, a 220, a 224
Bourgeoisies (Borough), IV, b 55
Bourgery, Marc J., physician (Anatomy), I, a 716
BOURGES, city, IV, a b 160; (Universities), XXIII, b 897
Bourget, lake (Lake Dwellings), XIV, a 224; (Savoie), XXI, b 347
Bourgneuf, bay (Loire-Inférieure), XIV, b 817
Bourgogne, country. See BURGUNDY
——, Bibliotheque de, Brussels (Libraries), XIV, b 530
——, *Histoire des Ducs* (Barante), III, a 308
Bourguet, Louis, editor (Switzerland), XXII, a 837
Bourignianism (Bourignon), IV, a 161
BOURIGNON, Antoinette, sectary, IV, b 160-1
Bourmont, L. A. V. de Ghaisne, comte de (Algeria), I, b 499-500
Bourne, spring (Croydon), VI, a 549
BOURNE, Hugh, enthusiast (Methodism), XVI, b 200
——, Nicholas, editor (Newspapers), XVII, *b* 424
BOURNE, Vincent, author, IV, a 161
BOURNEMOUTH, watering-place, IV, a 161
Bournonite, ore (Lead), XIV, a 375; (Metallurgy), XVI, a 66; (Mineralogy) (Ill.), b 411
Bouro, island. See BURU
Bouron, cape (New Guinea), XVII, *a* 396
BOURRIENNE, Louis Antoine Fauvelet de, biographer, IV, b 161
BOURSAULT, Edmund, dramatist, IV, b 161; (Vanbrugh), XXIV, b 61
Bourse, The (Paris), XVIII, b 291, b 299; (Stock Exchange), XXII, b 585-6
Bour tree. See ELDER
Bourseul, Charles, physicist (Telephone), XXIII, a 138
Bousmard, Henry Jean Baptiste, engineer (Fortification), IX, b 408-9
BOUSSA, town, IV, b 161
Boussard, André Joseph, general (Rosetta Stone), XX, b 874
Boussinesq, engineer (Hydromechanics), XII, b 479, b 526 note
Boussingault, Jean Baptiste Joseph Dieudonné, chemist (Gelatin), X, b 118; (Physiology), XIX, b 52, *b* 55
Boustrophedon, writing (Phrygia), XVIII, a 864
Boutargue, condiment (Martigues), XV, b 587
BOUTERWEK, Friedrich, author, IV, b 161-2; (Cædmon), 559
Boutères, mountains (Loire, Haute-), XIV, *a* 817
Bouthillier, abbot. See Rancé
Bouts, Dierick, painter (Massy's), XV, *b* 626
Boutteville, François de Montmorenci, Seigneur de, duellist (Duel), VII, a 413
Bouty, Edmond, physicist (Magnetism), XV, a 259
Bouvardia, plants (Horticulture), XII, b 274
Bouvines, town (Nord), XVII, b 548
——, battle of, 1214 (France), IX, b 478; (Frederick II., emp.), b 643; (Germany), X, b 440; (Otho III.), XVIII, b 70
Bouvray, battle of, 1429 (France), IX, a 485
BOVALI or Bouali, town, IV, a 162
Bove, Lieut., explorer (Tierra del Fuego), XXIII, b 410, a 411
Boverius, Zachariah, monk (Capuchins), V, a 72
BOVES, township, IV, a 162
Bovey Tracy, town (Devonshire), VII, a b 121, a 122
Bovianum or Bojano, town (Samnites), XXI, b 261
Bovidæ, family (Mammalia), XV, a 435, b 436, *b* 437, b 438; fossil (Archæology), II, *b* 294
Bovillæ, town (Latium), XIV, b 344, a 345
Bovine tubercle (Pathology), XVIII, a b 416
BOVINO, town, IV, a 162
Bow or Stratford-le-Bow, town (London), XIV, a 827, a b 831, b 834, a 852; ware of (Pottery), XIX, b 661, a 664
Bow, fiddler's (Violin), XXIV, b 260-1, b 264
——, weapon (Heraldry), XI, a 628; (Laburnum), XIV, b 179; manufacture of (Archery), II, a 239, b 325
Bow and arrow lancet (Ethnography), VIII, b 542
—— Bells (London), XIV, a b 848
—— Church (Arches Court), II, b 331
Bowden Hill (Linlithgow), XIV, b 675, a 677
BOWDICH, Thomas Edward, traveller, IV, a 162
BOWDITCH, Nathaniel, mathematician, IV, a 162
——, H. P., physician (Pleurisy), XIX, a 235
Bowdler, John, poet (Hymns), XII, b 629
Bowdoin College (Libraries), XIV, a 553; (Maine), XV, b 302
Bowdon, suburb (Cheshire), V, b 512
Boweds (Cotton), VI, b 428
Bowels, viscera (Digestive Organs) (Ill.), VII, a 196-9

Bowen, Francis, professor (Steuben), XXII, b 927
"Bowenite" (Jade), XIII, a 550
Bower, Archibald, editor (Periodicals), XVIII, a 545, note
—— or Bowmaker, Walter, chronicler (Fordun), IX, a 349; (Scotland), XXI, a 566
Bower anchors, Lloyd's rules for (Ill.), II, *a* 5, note 6, a 7, b 8
—— birds, Chlamydera, III, b 642
Bowerbankia, plant (Polyzoa) (Ill.), XIX, b 444, b 446, a 452
Bower's protective process (Iron), XIII, a b 367
Bowery, New York street (Stuyvesant), XXII, a 932
Bows of Gibside, politician (Eldon), VII, *a* 720
Bowes' Museum (Barnard Castle), III, a 326
Bow Fell, hill (Westmorland), XXIV, b 541
Bowing, salute (Hat), XI, a b 463; (Salutations), XXI, b 248–9
Bowking, process (Bleaching) (Ill.), III, b 707–8
Bowle, John, divine (Cervantes), V, *b* 309
Bowleg, disease (Surgery), XXII, a b 727
Bowler (Cricket), VI, a b 512, *a b* 513
Bowles, mountain (Colorado), VI, b 145
——, Caroline Ann. See SOUTHEY
BOWLES, William Lisle, poet, IV, b 162
Bowline knot (Ill.), XIV, a b 129; (Seamanship), XXI, a 618
BOWLS, game of, IV, b 162–4; (Skittles), XXII, b 132
——, rollers (Calender), IV, a b 605
Bowman, Sir William, physiologist (Nutrition), XVII, a b 703
Bowman's capsules (Physiology), XIX, b 396; glands (Smell), XXII, a 177
BOWRING, Sir John, linguist, IV, a b 164; (Bentham), III, *a* 497, a 498; (Hungary), XII, b 393; (Siam), XXI, *b* 894
Bow's method of lettering, R. H. (Bridges), IV, a 283, a 284
Bowsmen, disappearance of (Arms, etc.), II, a 488
Bowsprit, rigging (Seamanship), XXI, a b 623
Bow street (London), XIV, b 843
Bowstring girder (Bridges) (Ill.), IV, *a* 286, b 288, b 303, a 307
Bow-ware (Pottery), XIX, b 661, a 664
Bowyer, Wm., printer (Nichols), XVII, a 500
Boxer shrapnell shell (Ammunition) (Ill.), I, b 652, a b 653
Box-hauling defined (Seamanship), XXI, b 632
BOXING and WRESTLING, XXIV, b 725–6; (Games), X, b 58
Box rail (Tramway), XXIII, b 538
——, Tortoise, XXIII, b 486-7
—— tunnel, England (Railway), XX, b 241
BOXWOOD, IV, b 164–5; engraving (Kertch), XIV, a 55; (Wood-carving), XXIV, a 679
Boxes (Matches), XV, a 633
Boxgrove priory, Sussex (Seals) (Ill.), XXI, b 614–15
BOYACA, village, IV, a 165
Boyars, nobles (Moscow), XVI, b 885, a b 887
Boyce, Hector. See BOECE
BOYCE, William, musician, IV, a 165; (Tallis), XXIII, b 38, note
Boycott, labor use of (United States), XXIII, a b 835
Boyd, Robert, lord, regent (James III., Scotland), XIII, b 566
—— of Kilmarnock, Robert, regent (Scotland), XXI, a 517
BOYD, Zachary, theologian, IV, a b 165
BOYDELL, John, engraver, IV, b 165; (Fuseli, H.), IX, *a* 749
Boyden, Hugh, engineer (Hydromechanics), XII, a 500
——, Uriah A., observatory-founder (Telescopic Work), XXIII, a 933 note
BOYER, Abel, historian, IV, b 165
BOYER, Alexis, surgeon, b IV, 165–6
BOYER, Jean Baptiste, physician, IV, a 166
BOYER, Jean Pierre, general, IV, a 166; (Hayti), XI, a 487
Boyle, town (Roscommon Co.), XX, *a* 873; plains of (Roscommon), b 872
BOYLE, Charles, Earl of Orrery, IV, a 166; (Atterbury), III, *b* 47–8; (Bentley), b 499; (Phalaris), XVIII, a 744
BOYLE, John, Earl of Cork and Orrery, IV, a b 166
BOYLE, Richard, Earl of Burlington and Cork, IV, b 166
BOYLE, Richard, Great Earl of Cork, IV, b 166
——, Richard, third earl of Burlington (Architecture), II, a 388
BOYLE, Robert, physicist, IV, b 166–7; (Chemistry), V, b 398–9, a 400; (Crystallography), VI, a 595; (Electricity), VIII, a 5; (Hobbes), XII, a 40; (Hooke), a 153; (Hydrometer), a b 568; (Missions), XVI, b 537; (Papin), XVIII, b 232; (Water), XXIV, b 421; (Witchcraft), b 654
——, Air pump of, I, a 381; (Pneumatics), XIX, a 258
——, Law of (Atom), III, *b* 35; (Barometer), b 332; (Chemistry), V, b 405; (Elasticity), VII, b 697, a b 706, a 707; (Heat), XI, *a* 513, b 514; (Hydromechanics), XII, b 455; (Mariotte), XV, b 554; (Molecule), XVI, b 633, a 636, a 643, a 644, b 645; (Pneumatics), XIX, a *b* 253, b 254; (Regnault), XX, a 360; (Steam-Engine), XXII, b 497; (Thermodynamics), XXIII, a 307
BOYLE, Roger, Earl of Orrery, IV, a 166, b 167–8; (Drama), VII, a 376
Boyle-Lectures, IV, b 167
Boyl-ya, magical power (Magic), XV, *b* 200
BOYNE, river, IV, b 168; (Kildare), XIV, a 74; (Meath), XV, a b 675, a 676
——, battle of the, 1690 (Drogheda), VII, a 407; (France), IX, b 510-11; (James II., Eng.), XIII, a 570; (Schomberg), XXI, b 449; (William III.), XXIV, b 611
Boys (Navy), XVII, a 304, a 305; in coal mines, VI, b 64
BOYSE or Bois, John, theologian, IV, b 168
——, Samuel, poet (Johnson, S.), XIII, a 733
Boz, pseudonym (Dickens, C.), VII, a 151
Boz Dagh, mountain (Caria), V, *b* 90; (Asia Minor), II, a 617
Boze, Gros de, archæologist (Barthélemy), III, b 346
Boze, professor, physicist (Electricity), VIII, a 6, *a* 7
Bozeman, town (Montana), XVI, a 800
Bozen, town. See BOTZEN
BOZRAH, cities, IV, b 168
BOZZARIS, Marcos, general, IV, b 168–9
BRA, town, Italy, IV, a 169
BRABANT, district, IV, a b 169
——, North, province, IV, a 169; (Holland), XII, *a* 62, *a b* 64, a 66, *a* b 67, a 68, b 69, a 70, *a* 73, a 75, *a b* 76, a 79, a 87
——, South, IV, a b 169
——, Wenceslaus, duke of (Louvain), XV, a 28
Brabantsche Yeesten, chronicle (Holland), XII, b 93
Bracara Augusta, town (Braga), IV, b 180
Braccæ, breeches (Costume), VI, a 404, b 418, b 419-21, a 422; (Ireland), XIII, b 263
Bracciano, Paolo Giordano Orsini, Duke of (Accoramborci), I, a 86
Braccio da Montone, free captain (Rome), XX, a b 822
BRACCIOLINI, Francesco, poet, IV, b 169
——, Gian Francesco Poggio. See POGGIO
Brace, tool (Hand Tools), XI, a 392
Brace, Charles Loring, philanthropist (Reformatories), XX, b 901
Bracegirdle, Anne, actress (Congreve), VI, a 241
BRACELET (Ill.), IV, b 169–70; (Filigree), IX, b 143
Brachelli, Hugo Franz, statistician (Roman Catholic Church), XX, a 644
Brachelytra, beetles (Coleoptera) (Plate VII), VI, a 115, b 118
Brachial appendages (Brachiopoda) (Ill.), IV, a 173–4; artery (Anatomy), I, b 793, a 794; plexus (Anatomy), a b 762; veins (Anatomy), b 795
Brachinus, beetle (Coleoptera) (Ill.), VI, b 117
Brachionus, animalcule (Rotifera) (Ill.), XXI, a 8, *b* 10, a *b* 11, a 12
BRACHIOPODA, invertebrates (Ill.), IV, a 170-8
  anatomy (Ill.), b 172–5
  classification, a 176–7
  fossils, b 177–8
  habitat, b 175–6
  labial appendages (Ill.), a 173–4
  mantle, b 172-3
  muscles (Ill.), a 174–5
  nomenclature, b 170–1
  position defined, a 170
  shell and its structure (Ill.), b 171–2
—— (Animal Kingdom), II, b 46, *a* 48; (Mollusca), XVI, b 654, a 655; (Polyzoa), XIX, b 455–6; (Zoology), XXIV, *b* 848, b 852; larva of (Touch), XXIII, b 508
Brachistochrone, curve (Maxima and Minima), XV, b 650; (Mechanics), b 717–18
Brachium (Anatomy), I, 724; (Mammalia), XV, b 361
Brachycera, insects (Diptera), VII, b 222, a 223; (Insects), XIII, b 156, a 157
Brachycephalus, frog (Amphibia), I, a 674, *a* 675, a 677
Brachydome, crystal-form (Mineralogy) (Ill.), XVI, b 373
BRACHYLOGUS, Roman law-book, IV, a 178; (Roman Law), XX, a 735
Brachylophus, reptile (Iguana), XII, b 739
Brachymystax, fish (Salmonidæ), XXI, a 232
Brachyodont, form of teeth (Horse), XII, b 177
Brachypteracias (Birds), III, a 659; (Roller), XX, a 643
Brachytarsomys, rodent (Mouse), XVII, a 12
Brachyura, sub-order (Crustacea), VI, a b 566, a 570, b 573 notes, b 578, b 579, b 580, a 582, *b* 584; (Distribution), VII, *a* 242, a b 246
Brachyurus, genus (Ape), II, a 135, a 137, a 138, a b 140, b 141, a 142
Brackenbury, H. (Gunpowder), XI, b 283
Brackenridge, Hugh H. (American Literature), I, b 633
Bracket, drink (Honey), XII, a 141
——, ornament (Architecture), II, b 404
Brackish-water fishes (Ichthyology), XII, a b 715
Braconidæ, insects (Hymenoptera) (Ill.), XII, a 606, *b* 608, a 611, a 612; (Ichneumon-fly), *a b* 666
Bracquemond, Joseph Félix, etcher (Méryon), XVI, a 50
Bract (Botany) (Ill.) (Plates VII, IX, XVI), IV, b 107–8; (Grasses), XI, *a b* 49, *a* 50, *b* 51
Bracteates, coin (Numismatics), XVII, b 672, a 673, *b* 676

BRACTON, Henry de, justiciary, IV, a 178; (Britton), a 321; (Game Laws), X, a 56; (Theft), XXIII, a 250; (Wreck), XXIV, a *b* 722
Brada Head, promontory (Man), XV, b 457, *a* 458
Bradamante, tragi-comedy (France), IX, b 573
Bradano or Bradanus, river (Italy), XIII, a 449; (Lucania), XV, a *b* 39
Braddock, Edward, general (Franklin), IX, b 627; (United States), XXIII, b 782; (Washington), XXIV, a 409
Braddock's field (Pittsburgh), XIX, a 161
BRADFORD, borough, IV, b 178-9; (Libraries), XIV, b 520, b 542; (York), XXIV, b 785, *a* b 786
—— on Avon, town (Wilts), XXIV, b 625, *a* b 626
—— oil-field, Pa. (Petroleum), XVIII, b 726, a 727, a 728, b 731, a b 887; (United States), XXIII, a 865
BRADFORD, John, theologian, IV, a b 179
——, William, printer (Philadelphia), XVIII, b 754; (Typography), XXIII, b 729 note
Bradlaugh, Charles, politician (Oath), XVII, a 721; (Thomson), XXIII, b 332
Bradley and Craven's machine (Brick), IV, a 252
Bradley, George Granville, theologian (Isaiah), XIII, a 393 note
BRADLEY, James, astronomer, IV, b 179; (Aberration), I, a b 50; (Astronomy), II, a 661, a 695; (Navigation), XVII, *b* 266; (Parallax), XVIII, a 257; (Telescope), XXIII, a 148
Bradley's velocity measurement (Light), XIV, b 588-9
BRADSHAW, Henry, poet, IV, b 179
BRADSHAW, John, judge, IV, b 179–80; (Charles I.), V, *a* 353
——, William, reformer (Presbyterianism), XIX, b 707
BRADWARDIN, Thomas, archbishop, IV, a b 180; (Predestination), XIX, a 690
Brady, Henry Bowman, naturalist (Distribution), VII, a 241; (Protozoa), XIX, b 868
BRADY, Nicholas, psalmodist, IV, b 180; (Hymns), XII, a b 625
Bradypodidæ, edentate mammals (Mammalia), XV, b 350, a 360, *a* b 387, a 388; (Sloth), XXII, a b 171
Braemar, district (Aberdeenshire), I, *b* 46, *b* 47; Pine, XIX, a 112
Braes of Angus (Forfar), IX, a 361
Braes of Yarrow (Hamilton, W.), XI, *b* 376
BRAGA, city, IV, b 180; (Portugal), XIX, a 552, a b 554
——, Theophilo, poet (Camœns), IV, b 662; (Portugal), XIX, b 573, a 574
BRAGANÇA or Braganza, district and town, IV, b 180; (Tras-os-montes), XXIII, b 558
——, House of (Columbus), VI, a 158; (Lisbon), XIV, b 697, a 699; (Portugal), XIX, a b 562, a b 563, b 566
——, Constantinho de, governor (Camœns), IV, a 661
——, Ferdinand, duke of (Portugal), XIX, a b 560
Bragernäs or Bragnäs, town (Drammen), VII, a 384
BRAGG, Braxton, general (Georgia), X, a 394; (United States), XXIII, *b* 826, a 827, b 836–837
Bragi, god (Æsir), I, a 190
BRAHAM, John, singer, IV, b 180-1
BRAHE, Tycho, astronomer, IV, a b 181; (Astrology), II, a 648, a 649; (Astronomy), b 657, a 699; (Gravitation), XI, b 68; (Kepler), XIV, *a* 48; (Libraries), b 531; (Longomontanus), b 877; (Micrometer), XVI, a 251; (Moon), a–b 826; (Napier), XVII, *a* 189; (Observatory), a b 729; (Roemer), XX, b 635; (William IV., Hesse), XXIV, a 614; system of (Astronomy) (Ill.), II, b 679-80
Brahea, palm (Horticulture), XII, b 276
Brahmā, god (Adam), I, a 126, a 127; (India), XII, a b 820; figure of (Elephanta Isle), VIII, a 119; gunas of (Caste), V, a 164; legend of (Gayá), X, a 109
Bráhmă or Brahman, principle (Brahmanism), IV, a *b* 186, a 187, a 188; nature of (Vedanta), XXIV, b 129-31
Brahma fowls (Poultry), XIX, a 665
BRÁHMA SAMÁJ or Brahmaism, sect, IV, b 181–2; (Missions), XVI, b 541; (Roy), XXI, b 40, a 41; (Theism), XXIII, a 268
Brahmakunda valley (Brahmaputra), IV, b 190
Brahman rites (Jesuits), XIII, a 662
Brāhmanas (Brahmanism), IV, *b* 182, a 183, a 184, a *b* 186; (Mythology), XVII, b 158–60, b 163, a 164; (Sanskrit), XXI, b 284, b 286, *a* 287, b 289, a *b* 291, a b 292, b 293
Brahmanaspati, deity (Brahmanism), IV, a b 183
Bráhmánbária, town (Tipperah), XXIII, a 432
Bráhmaní river (Cattack), V, *b* 211; (Chutiá, Nágpur), *b* 672; (Orissa), XVII, a 869
BRAHMANISM, IV, a 182-90
  Buddhism in India, a b 189
  caste legislation, primitive, a b 184
  gods of this world, a 188
  growth of sects, b 188-9
  nature worship, pantheistic, b 182
  personal religious duties, a b 185–a 186
  popular theology, b 186–8
  present aspects, b 189–190
BRAHMANISM, *continued*
  priestly caste, rise of, a b 183
  rites and customs, a 185–6, a 190
  sacred writings, early, a 182
  speculative dogmas, a b 186–9
——
—— (Demonology), VII, *a* 57; (Hindūstānī), XI, b 750; (Mysticism), XVII, a 137; (Pessimism), XVIII, a 699; (Sanskrit), XXI, a b 286, b 295, a b 303; (Theism), XXIII, a 257
——, Buddhist influence on (India), XII, b 824-5; opposition to (Tamils), XXIII, b 48; relation to Lamaism, XIV, b 227
Brahmans, caste (Alchemy), I, b 407; (Benares), III, b 479; (Brahmanism), IV, *a b* 183, *a b* 184, *a* b 185, b 186, *b* 189-90; (Caste), V, *a b* 164, *a b* 165 note, *a* b 166, *a* 167; (Fasting), IX, b 40, note; (India), XII, *a* 784, b 813, b 818, b 819, b 820, a *b* 821-3, a b 827; (Kanauj), XIII, b 814; (Mahrattas), XV, *b* 291, b 292; (Persia), XVIII, b 595; (Priest), XIX, b 745; (Sanskrit), XXI, b 286, a 287; (Siam), XXI, a 893
BRAHMAPUTRA, river, IV, a b 190; (Assam), II, b 628–9; (Bengal), III, a 485, a 486; (Bográ), b 746; (Himalaya), XI, a b 734; (India), XII, b 770, *a* b 776, b 794, a 795; (Kamrup), XIII, a 843; (Lakhimpur), XIV, b 225; (Lhasa), b 496, b 501; (Maimansinh), XV, *a* 297; (Sibságar), XXII, *a* b 18; (Tibet), XXIII, b 360, a 362
Brahmaveda (Sanskrit), XXI, b 286
Brahmegupta, mathematician (Algebra), I, *a* 456
Brahminy duck (Sheldrake), XXI, b 825, note
Brahms, Johannes, composer (Music), XVII, b 104
Brahoes, race (Baluchistan), III, *a* 259, *b* 261, a 262
Braid, James, surgeon (Magnetism, Animal), XV, b 280, a 285
Braidwood, Thomas, teacher (Deaf and Dumb), VII, *a* 8
Braila or Brahilow, town (Ibraila), XII, b 645
Braille system for the Blind, III, a 718, *b* 719–20
Brain (Ape), II, a b 144; (Arachnida), a 250, b 253; (Birds), III, a 628; (Ichthyology) (Ill.), XII, a b 688; (Insects), XIII, a 151; (Mammalia), XV, a 393; (Ornithology), XVIII, b 51, b 52; (Reptiles) (Ill.), XX, a b 473; -lobes (Nemertines) (Ill.), XVII, b 337, a b 338; -registration (Instinct), XIII, a b 166
——, Human (Anatomy), I, b 758–60, b 763–73; (Anthropology), II, *a* b 96; (Bell, Sir Charles), III, b 466-7; (Dream), VII, b 395; (Malpighi), XV, b 340; (Pathology), XVIII, a b 403; (Physiology), XIX, a 36-50; (Women), XXIV, b 908
——, cranial protection of (Surgery), XXII, a 724; development of (Anatomy), I, a 758
—— disease (Aphasia), II, b 150-1; (Apoplexy), a b 169; (Hydrocephalus), XII, b 447-9; (Insanity), XIII, a 102, b 105, a 106-9, a 114; (Meningitis), XVI, a b 15; (Paralysis), XVIII, a b 260
——, functional areas of (Surgery), XXII, b 724; growth of (Phrenology), XVIII, b 860–1; History of (Anatomy), I, b 703, a 705, a b 707, a 710, b 711, b 712, a 713; membranes of (Anatomy), b 758–60; physiology of (Sleep), XXII, a 165–6; sand (Anatomy), I, a 770; softening of (Insanity), XIII, a 114; weight and size (Phrenology), XVIII, b 860; (Physiology), XIX, b 38–9
—— work (Dietetics), VII, b 177; (Longevity), XIV, b 869; worms in (Tapeworm), XXIII, b 58–9
BRAINERD, David, missionary, IV, b 190
Brainless monster, XVI, a 790
BRAINTREE, town, IV, 191
Braj Bhākhā or Bāsha, dialect (Hindūstānī), XI, a 750, a 751; (Hindustani Literature), b 753, *a* 755
Braj-bilas (Hindustani Literature), XI, *b* 754–5
Braj-Mandal, locality (Muttra), XVII, b 120
BRAKE, town, IV, a 191
BRAKE, instrument (Ill.), IV, a 191–2; friction (Mechanics), XV, b 777, a b 780; hydraulic weir (River Engineering), XX, b 589; (Railway), a 259–60; recoil (Gunnery), XI, b 280
Brake, common, plant (Botany) (Ill.), IV, a 128
BRAMAH, Joseph, mechanic IV, a b 192; (Pen), XVIII, a b 494
Bramah's lock (Ill.), XIV, b 750, b 751–2, a 755
Bramah water-closet (Sewerage) (Ill.), XXI, b 752
BRAMANTE, Lazzari, architect, IV, b 192-3; (Architecture), II, b 383; (Michel Angelo), XVI, a 240; (Milan), b 303; (Raphael), XX, *b* 289, *a* 293, a 295; (Rome), a 858
Bramantino. See SUARDI
BRAMBANÁN, village, IV, a b 193
Bramber, borough (Sussex), XXII, *a* 762
Brambling, bird (Finch), IX, a 168
Bramhall, John, bishop (Hobbes), XII, a *b* 38; (Ireland), XIII, b 272, a 274
Bran (Flour), IX, b 301, *b* 302, b 303; (Horse), XII, b 197
Bran and molasses vat (Dyeing), VII, b 498–9
Branas, Alexis, general (Isaac II.), XIII, a [illegible]
——, Demetrius, general (Manuel), XV, a 512

Branca, Giovanni, inventor (Steam-Engine), XXII, a 491
Brancacci chapel, Florence (Lippi), XIV, a 691; (Masaccio), XV, *a b* 612
Brancacciana Biblioteca, Naples (Libraries), XIV, a 530, b 550
Brancaleone degli Andalò, senator (Rome), XX, b 813, a b 814
Brancardiers (Ambulance), I, b 584
Branch (Curve), VI, a 638
Branchellion (Leech), XIV, a b 404
Branches (Botany) (Ill.), IV, a 86–7, b 95
Branchiæ, organs (Annelida), II, b 59, b 63; (Arachnida), a 239, b 249, *a* 258; (Crustacea) (Ill.), VI, a b 566, a 569; (Cuttle-fish) (Ill.), a b 650; (Ichthyology), XII, b 693–4; (Insects), XIII, b 151
Branchial aperture (Tunicata) (Ill.), XXIII, a b 648, b 649, a 650, a b 654, b 655; apparatus (Amphibia) (Ill.), I, a 664, a b 665, *a* b 666, a 667, a 668, b 674; arches (Ichthyology) (Ill.), XII, b 679–80, b 683, b 684; (Skeleton), XXII, b 122, a b 124; heart of Nautilus (Mollusca), XVI, a 704; lamellæ (Ichthyology) (Ill.), XII, b 694
Branchidæ, sculptures (Alexander the Great), I, b 427; (Archæology), II, a 306
Branching, provision for (Botany), IV, a 83
Branchiobdellidæ, family (Leech), XIV, b 405
Branchiopoda, division (Crustacea), VI, b 563, a 579, b 586–7
Branchio-stegals, rays (Ichthyology), XII, b 673
Branchiostoma, genus (Ichthyology) (Ill.), XII, b 671, b 680, a 682, a b 687, *a b* 689, a 690, b 692, b 693, a 694, b 696, *a* b 697, a 698, a 717, a b 718, b 733; (Lancelet), XIV, b 259; brain of (Physiology), XIX, b 37
Branchipus, genus (Crustacea) (Ill.), VI, a 575, *b* 586, a b 587
Brancovan, Constantine, voivode (Roumania), XXI, b 22–3
Braud, Georg, chemist (Metals), XVI, b 68
Brandanes, men of (Bute), IV, b 517
Brandáo, Diogo, poet (Portugal), XIX, *a* 571
BRANDE, William Thomas, chemist, IV, b 193
BRANDENBURG, Prussian province, IV, b 193–a 194; (Prussia), XX, *a* b 18, a b 19, b 20, a 21; electorate of (Hohenzollern), XII, b 54, a 55; House of (Germany), X, *a* b 444, a 451; (Prussia), XX, a 6–9
——, town, IV, a 194; (Terra-cotta), XXIII, a b 211
——, Albert of, archbishop (Luther), XV, b 77, b 80
—— branch (St. John of Jerusalem), XXI, a 184
Brandenburgh Company (St. Thomas), XXI, b 210
Brandes, Géorg, critic (Denmark), VII, a b 82
——, Heinrich Wilhelm, mathematician (Micrometer), XVI, a 261 note
Branding, servile (Stigmatization), XXII, b 576–7
BRANDIS, Christian August, historian, IV, a b 194; (Numismatics), XVII, *b* 646, a 647, note, b 650
——, Dietrich, inspector (Forests), IX, b 355, b 356
Brandishing, ornament (Architecture), II, b 404
Brandisite (Mineralogy), XVI, a 431
Brandon, Mount (Kerry), XIV, b 52, a 53
——, river (Suffolk), XXII, a 654
Brands (Gunpowder), XI, b 293
Brandschiefer stone (Geology), X, a 213
Brandt, Count (Denmark), VII, b 76
—— of Hamburg, alchemist (Chemistry), V, a 446; (Phosphorus), XVIII, b 827
——, Caroline, vocalist (Weber), XXIV, b 495–6
——, Geeraerdt, biographer (Holland), XII, b 98
——, Johann Friedrich, naturalist (Ornithology), XVIII, b 29, b 45; (Parasitism), b 273
BRANDT, Sebastian, satirist a IV, b 194; (Barclay), III, 318; (Germany), X, a 472
Brandt's rotary drill (Mining), XVI, a 468, a 469
BRANDY, IV, b 194–5; (Cognac), VI, a 106; (Distillation), VII, a 230; (Gustavus III.), XI, b 299; Armagnac (Gers), X, b 490; cognac (Wine), XXIV, a 639
Brandywine or Chadd's Ford, battle of, 1777; (La Fayette), XIV, b 202; (United States), XXIII, a 792
Brangian, nurse (Romance), XX, b 663–4
Brankovich, George, despot (Servia), XXI, b 721
Branks, disease (Mumps), XVII, b 28
Bran-mash (Horse), XII, b 197; (Veterinary Science), XXIV, b 217
Bransfield, strait (New South Shetland), XVII, a 418
Brant, Joseph, warrior (Sullivan), XXII, *b* 932
Brantas, river (Java), XIII, b 611
Branteghem collection (Terra-cotta), XXIII, b 209, a 210
BRANTFORD, town, IV, a 195
BRANTOME, Pierre de Bourdeilles, Seigneur de, historian, IV, a 195; (Chastelard), V, *a* 378; (France), IX, b 575; (Mary Stuart), XV, a b 601
Branxholm castle (Roxburgh), XXI, a 40
Brasavolus, Flemish physician (Sweating Sickness), XXII, b 772
Braschi, Giovanni Angelo (Pius VI.), XIX, b 164
Bras-de-fer, sobriquet (La Noue), XIV, b 289
Bras d'Or, lake (Cape Breton), V, b 36, a 37; (Nova Scotia), XVII, b 616, b 617
Brasenose College (Oxford), XVIII, a 100; (Libraries), XIV, b 518, b 545; (Sculpture), XXI, b 596
Brashear's reflectors (Telescopic Work), XXIII, b 933–4
BRASIDAS, general, IV, a b 195; (Cleon), V, b 721; (Games), X, a 59; (Greece), XI, a b 92; (Illyria), XII, a 748
Brasideia, games (Brasidas), IV, b 195
BRASS, IV, b 195–7; (Alloy), I, a b 517; (Copper), VI, b 310, b 311; (Elasticity), VII, a b 707, 708; (Founding), IX, a 423; (India), XII, b 801; (Numismatics), XVII, a 645, b 646; (Metal-work), XVI, a 77, a 83, a 84; (Strength of Materials), XXII, b 634; (Waterbury), XXIV, a 422; (Zinc), a 823
—— instruments (Music), XVII, b 105
Brass, biologist (Reproduction), XX, *b* 427–8, a 435
Brassac, town (Puy de Dôme), XX, a 126
Brassage (Money), XVI, b 751
Brasses, bearings (Steam-Engine), XXII, a 538
BRASSES, monumental, IV, a 197–8; (Effigies), VII, a 602, a 603; (Essex), VIII, b 489; (Metal-work), XVI, b 82–3
Brasseur de Bourbourg, Charles Étienne, Abbé, archæologist (America), I, b 617, b 619; (Guatemala), XI, a b 214; (Mexico), XVI, a b 216, b 222; (Yucatan), XXIV, b 797, *a* 798
BRASSEY, Thomas, contractor, IV, a b 198
——, Sir Thomas, naval author (Navy), XVII, a b 299, b 307
Brassica, plants (Cabbage), IV, b 548–9; (Horticulture), XII, *b* 290, *a* b 291, b 292, b 295, a 297, a 300, a 301; (Mustard), XVII, *b* 119; (Rape Oil), XX, *b* 285
Brat, shawl (Ireland), XIII, a 263
Brata Yudu (Java), XIII, a 619
Bratski, block-house (Buriats), IV, a 481
Bratslaff, town (Podolia), XIX, b 266
Brattelid, settlement (Greenland), XI, a 153
Brattice, partitions (Coal), VI, a b 67; (Mining), XVI, a 482
Brattishing, ornament (Architecture), II, b 404
Brattleboro, town (Vermont), XXIV, b 181
Braulieve, mountains (Roscommon), XX, b 872
Braun, Alexander, botanist (Morphology), XVI, a 868
——, Vilhelm August von, humorist (Sweden), XXII, b 796
Braune, W., philologist (Germany), X, b 464 note
Braunite (Manganese), XV, a 487; (Mineralogy), XVI, a 403
Braunkohle, mineral (Phosphorus), XVIII, a 831. See Brown Coal
BRAUNSBERG, town, IV, b 198
Braunschweig. See BRUNSWICK
Braut von Messina, play (Schiller), XXI, b 414
Brava (Cape Verd Islands), V, a 48
——, station (Zanzibar), XXIV, a 806
Bravado (Cannibalism), IV, a 713
Bravaisite (Mineralogy), XVI, b 443
Bravalla, battle of (Denmark), VII, a 74
Bravo, Gonzales, politician (Newspapers), XVII, b 442
Bravo del Norte, river. See RIO GRANDE
Bravo of Venice (Lewis, M. G.), XIV, b 493
Bravos, Indians (Mexico), XVI, a 228, note; (Nicaragua), XVII, b 492
Brawling in church (Nonconformity), XVII, b 546
Brawne, Miss Fanny (Keats), XIV, a 25, *a* 26
Bray district (Seine Inférieure), XXI, a 657
BRAY, town, IV, b 198; (Wicklow), XXIV, a 589
——, vicar of (Perne), XVIII, b 563
BRAY, Sir Reginald, architect, IV, b 198
BRAY, Dr. Thomas, commissary, IV, b 198; (Missions), XVI, b 537, a 538
Bray's fish-tail burner (Gas Lighting), X, a 90
Braye port (Alderney), I, a 419
Brayer, physician (Kousso), XIV, b 146
Brayley, Edward Nedlake, antiquary (Britton, John), IV, a *b* 321
Braynford. See BRENTFORD
Brayton, gas-engine (Steam-Engine), XXII, b 550
Brazen bull of Phalaris, XVIII, b 743
—— House of Athene (Sparta), XXII, a 384
Brazier, utensil (Stoves), XXII, b 607
BRAZIL (Map-Plate XVII), IV, b 198–216
- animals, a b 204
- army and navy, b 213
- boundaries, a b 199
- climate, b 202–3
- colonies, a b 211
- constitutional laws, b 211–3
- finance, a b 213
- geology, b 200–1
- history, b 204–10
  - Bragança house of, a b 207–8
  - governors - general, first period of, a b 206
  - Pedro I., emperor, a b 209
  - Pedro II., emperor, b 209–10
  - royal family of Portugal takes refuge in, a 208–9
  - settlements, early, a 205–6
- industrial features, a b 215
- literature, art, b 214–5

BRAZIL, *continued*
  minerals, b 201-2
  national character, a 215
  population, b 210-1
  religion and education, a b 214
  rivers, b 199 200
  surface, b 200
  vegetation, a 203-4

—— (Agassiz), I, a 245, b 247; (America), a 616, a b 623, b 624, a b 625; (Coffee), VI, b 101; (Copal), a 304; (Cotton), b 430; (Diamond), VII, a 142; (Dundonald), a 467
—— (Fernando de Noronha), IX, a 88; (Forests), b 357-8; (Foundling Hospitals), a 427; (Gold), X, a 660, a b 662; (Guiana), XI, a b 221; (Ipecacuanha), XIII, a 216; (John VI., Portugal), a 726; (Libraries), XIV, a 536, b 554; (Marlius), XV, *a* b 593
—— (Mining), XVI, b 493; (National Debt), XVII, a b 254; (Negro), a 329; (Newspapers), a 449; (Observatory), b 736; (Patents), XVIII, b 362, b 363; (Press Laws), XIX, a 732, a 733; (Prison Discipline), b 778; (Railway) XX, a b 263; (Savings Banks), XXI, b 346; (Slavery), XXII, a b 151; (Yaws), XXIV, b 768, a b 769; (Yellow Fever), b 771, *a* 773
——, climate of (America), I, a 595; geology of (America), b 590; plateaux (America), b 589; sub-region (Distribution), VII, a 238
——, wars with (Argentine Republic), II, a *b* 432; (Paraguay), XVIII, b 249
—— company of Portugal (Brazil), IV, a b 207; current (Atlantic Ocean), III, *b* 19
BRAZIL, island of, IV, a 216
BRAZIL NUTS, IV, b 216; oil (Oils), XVII, a 765, b 767
BRAZIL WOOD, IV, b 216; (Brazil), IV, b 203; (Dyeing), VII, b 497; (Ink), XIII, b 87
Brazilian agates (Onyx), XVII, b 798; Birds, III, a 647, b 651; cotton, VI, b 428, a 429, b 430; flora (America), I, a 602; works on (Saint-Hilaire), XXI, b 180
—— Indians (America), I, b 602, a b 603, a 617; (Anthropology), II, b 106; (Indians), XII, a 869; (Religions), XX, a 377
—— literature (Durao), VII. a 478; ruby and sapphire (Topaz), XXIII, a 475
Brazilin (Brazil Wood), IV, b 216
Brazos river (Texas), XXIII, b 220, a 223
BRAZZA or Brattia island, IV, b 216
Brazzaville, station (Zaire), XXIV, a 803
Brea, mineral (United States), XXIII, a 852
Breach of agreement (Trade Unions), XXIII, a 532
—— of contract, VI, a 288; (Conspiracy), b 262; remedies (Sale), XXI, b 218
—— of promise of marriage (Women), XXIV, a 677
Breaching (Gunnery) (Ill.), XI, b 276-7
Bread (Adulteration), I, a 152, a 153, a b 155; (Baking), III, a 218-9, b 222-3; (Millet), XVI, a 333; aërated (Baking), III, a 220-1; black- (Rye), XXI, a 126; unfermented (Baking), III, a 221; unleavened (Passover), XVIII, a 348-9; (Pentateuch), a 522
"Bread and cheese" war (Holland), XII, b 76
Bread and salt (Sacrifice), XXI, a 143
Breadalbane, Lord (Eagle), VII, b 509 note
BREAD-FRUIT, plant, IV, b 216-7; (Botany) (Plate XIV), b 134, a 139; (Polynesia), XIX, a 433, b 437 note
Breadnut (Nut), XVII, a b 683
Breadstuffs (Baking), III, b 216-7
Bread-tree (Australia), III, b 96
Break lathe (Machine Tools) (Ill.), XV, b 154, a 155
Breakers, beach (Wave), XXIV, a 441
Breakers, coal (Pennsylvania), XVIII, b 511
Breaking (Horse), XII, a b 192
Breaking down (Gunpowder), (Ill.), XI, a 291
Breaking engine (Paper) (Ill.), XVIII, a 224
Breakspeare, Nicholas, pope (Adrian IV.), I, b 150-1; (Sweden), XXII, b 783
BREAKWATERS, IV, a b 217; (Harbors and Docks) (Plates VIII, IX), XI, b 406, a 410-11, a b 415; Alexandria (Egypt), VII, a 681; Cherbourg, V, *b* 508; Holyhead, XII, a 108; destruction of (Tunnelling), XXIII, b 662
Bréal, Michel Jules Alfred, philologist (Ethnography) VIII, a 548; (Eugubine Tables), *b* 582, *a* 583; (Greece), XI, b 115
Bréam, fish (Angling) (Ill.), II, b 39; (Ichthyology), XII, b 731
Breast (Milk), XVI, b 314-5; cancer of the (Pathology), XVIII, b 391-2
Breast-plate. See CUIRASS
——, high-priest's (Gems) (Ill.), X, b 123, a 124; (Onyx), XVII, b 798
Breast-plough (Agriculture), I, a 285, b 325
Breast stroke (Swimming), XXII, b 806
Breast-wheel (Hydromechanics), XII, b 553-4
Breastwork (Fortification), IX, a b 371
Breath of Perfume, The (Makkari), XV, a 314
Breathing (Anatomy), I, a b 733; (Arachnida), II, a 239; (Asthma), b 643-4, (Hunter, J.), XII, b 406; (Respiration), XX, a 488-500; (Swimming), XXII, b 806-7; restoration of (Drowning), VII, b 410-1
Breathings and accents, Greek (Palæography), XVIII, b 169
Brebung, convent (Lhasa), XIV, a 500, a 501
Breccán, pirate saint (Celtic Literature), V, a 269
Breccia (Geology), X, a 212, a 214
Brecciated rock (Geology), X, b 204
BRECHIN, town, IV, b 217
BRECKINRIDGE, John Cabell, vice-president (United States), XXIII, a 821, a 823, a 837
Breckinridge and Lane ticket (United States), XXIII, *a* 821
Breckling, Frederick, mystic (Gichtel), X, a 525
Brecknock, town (Brecon), IV, b 218-9
Brecknock Peninsula (Tierra del Fuego), XXIII, a 410
Brecknockshire (Brecon), IV, a 218
BRECON, county, IV, a b 218; (United Kingdom), XXIII, a 775; town, IV, b 218-9
BREDA, town, IV, a 219; (Fortification), IX, b 407; (Holland), XII, a 67, b 69, a 79, a *b* 81, a 82; declaration of (Monk), XVI, b 779
BREDA, Jan Van, painter, IV, a 219
——, fowl (Poultry), XIX, b 665
Bredal, Niel Krog, dramatist (Norway), XVII, a b 604
Brède, La, chateau (Montesquieu), XVI, b 808, b 809, a b 811
Brederode, Hendrik, Count (Holland), XII, *b* 77
Brederôo, Gerbrand Adriaanssen, dramatist (Holland), XII, a b 97
Bredow, town (Stettin), XXII, b 571
BREDOW, Gabriel Gottfried, historian, IV, a 219
Breeches (Costume), VI, a 404, b 418, b 419, *a b* 420, a *b* 421, *a* 422
"Breeches" Bible (English Bible), VIII, a 347 note
Breech-closing (Gunmaking) (Ill.), XI, b 257
Breech-loaders (Gunnery) (Ill.), XI, a b 273, a 274, a 279-81; sporting (Gunmaking) (Ill.), a 248-9
—— loading arms and armor, II, b 488, a 489; ordnance (Gunmaking), XI, a 258-9; rifles in Prussian Army, II, b 521; small arms (Patents), XVIII, a 880; in War, XXIV, a *b* 364, *b* 366, a 367
Breede river (Cape Colony), V, b 38
Breeding (Acclimatization), I, a b 83; (Canary), IV, a 702; cattle (Agriculture), I, a b 314, b 345-6; (Eels), VII, b 601; (Goat), X, a 633; hogs (Agriculture), I, b 355
—— horse (Agriculture), I, a 342-3; Arabian, II, a b 210; English (Horse), XII, a b 185, a b 186, b 188, b 191, a 192; in United States (Horse), b 207, a b 208
—— (Hound), XII, b 328-9; (Mule), XVII, b 19-20; Oysters, XVIII, b 113-114; poultry (Agriculture), I, a 356; (Poultry), XIX, *b* 666, a 668; sheep (Agriculture), I, a *b* 349-50, *b* 352-3
—— coat (Squirrel), XXII, a 455; habits (Stickleback), XXII, *a b* 576; places (Birds), III, a 664, a b 665, a b 668-9; reversion in, IV, b 221-2; (Sheldrake), XXI, b 825. See PISCICULTURE.
BREEDS AND BREEDING, IV, a 219-25
  crossing, a 224-5
  definition of subject, a b 219
  heredity, b 219-222
  individual differences, a 223
  man, influence of, a b 225
  pairing, b 223
  prepotency of sex, a 221
  reversion, b 221-2
  selection, a 223-4
  variability, a 222-3

Breeking hoggets (Agriculture), I, b 352
Breeze, fuel (Brick), IV, b 249, *b* 250
Brefeld, biologist (Schizomycetes), XXI, a 417, a 420 note, b 423, a b 424 notes
Breffny or Brenny, territory (Cavan), V, a b 230; (Leitrim), XIV, b 433
Bregalnitza, river (Istib), XIII, a 443
Brege, river (Danube), VI, a 721
BREGENTZ or Bregenz, city, IV, b 225; (Vorarlberg), XXIV, a 318
Bregmaceros, fish (Ichthyology), XII, b 718, a 730
Breguet's exploder (Blasting), III, a 704; (Pyrometer), XX, b 139
BREHON LAW, IV, b 225-8
  contracts and trade, b 226-7
  courts, a 227-8
  penal customs, a 227
  process of courts, b 227-8
  social structure, b 225-6

—— (Ireland), XIII, a b 225, a 268; (Women), XXIV, a 673
Breidden Hills (Shropshire), XXI, b 886
Breidenbach, traveller (Ornithology), XVIII, b 7
Breiôifjörôur, bay (Iceland), XII, *a* 651
Breislacite (Mineralogy), XVI, a 432
BREISLAK, Scipione, geologist, IV, a 228
Breitenfeld, battle of, 1631 (Germany), X, a 449
Breithaupt, Johann A. F. (Mineralogy), XVI, a 393
Breithauptite (Mineralogy), XVI, a 409
Breitheam, judge (Celtic Literature), V, *a* 263
Breitinger, Johann Jakob, critic (Germany), X, a 477; (Switzerland), XXII, *a* 836
Brellington. See BRIDLINGTON

Bremangerland, island (Norway), XVII, b 590
Brembo, river (Italy), XIII, b 445
BREMEN, city (Plan), IV, b 228-9; (Adalbert), I, a 124; (Adam of Bremen), a 123; (Hanseatic League), XI, a 404; (Vaccination), XXIV, b 31
——, archbishopric (Dithmarschen), VII, *b* 252; (Hamburg), XI, a 365; commerce (Germany), X, b 414, b 416
BREMER, Fredrika, novelist, IV, a 229-30; (Sweden), XXII, a 796
Bremer Beiträge (Germany), X, a 477
BREMERHAVEN, town, IV, a 230; (Bremen), b 228, *b* 229
Bremiker, mathematician (Tables), XXIII, b 15, *b* 16, a b 17
Bremme's valve-gear (Steam-Engine) (Ill.), XXII, a 527
Bremmer extra-color machine (Typography) (Ill.), XXIII, a b 752
Bremontier, Nicolas-Theodor, naturalist (Landes), XIV, a 273
Breudan, St., monk (Bute), IV, b 517; (Celtic Literature), V, a 264, *b* 269, *b* 282, a 283; (Ireland), XIII, a 255, a 256
Brendon hills (Somerset), XXII, a b 271
Brenleyre, mountain (Freiburg), IX, b 670
Brennan Torpedo, XXIII, b 479
Brenner, Genovefa von, singer (Weber), XXIV, a b 494
Brenner pass (Alps), I, a 546, b 551, b 553, a 554
BRENNUS, Celtic kings, IV, a b 230
Brenny district (Cavan), V, a b 230; (Leitrim), XIV, b 433
Brent, river (Middlesex), XVI, b 291
Brenta, river (Italy), XIII, a 446
Brentano, philosopher (Category), V, a 195
BRENTANO, Clemens, dramatist, IV, b 230; (Arnim), II, a b 545; (Germany), X, a 485
——, Lorenz, author (Company), VI, a b 199; (Guild), XI, *b* 230, *b* 231, a b 232
BRENTFORD, town, IV, b 230-a 231; (Middlesex), XVI, *b* 292
Brent-goose (Goose), X, a b 692
Brenthidæ, family (Weevil), XXIV, a b 685
Brenton sound (Falkland Islands), IX, b 14
Brenva, La, Glacier, X, b 561
Brenz, John, theologian (Presbyterianism), XIX, a 696
Breogan or Bregan, chief (Ireland), XIII, b 249, *a* 250
Brera gallery (Milan), XVI, a 304; (Moroni), b 862; (Perugino), XVIII, a 696; (Schools of Painting), XXI, b 467; (Titian), XXIII, a 444
—— Library, XIV, a b 530, note
—— royal Observatory, XVII, a 734
BRESCIA or BRESCIANO, province, IV, a 231
——, town, IV, a b 231; (Schools of Painting), XXI, b 455, a 463, b 467; siege of, 1509 (Bayard), III, b 395
BRESLAU, city (Plan), IV, b 231-2; (Libraries), XIV, a 548; (Prussia), XX, a 21; (Silesia), XXII, *a* 59; (Universities), XXIII, a 902, a b 905
Bresle river (Seine Inférieure), XXI, b 656, b 657; (Somme), XXII, a b 274
Bressay, island (Orkney etc.), XVII, *b* 870, a 871
Bresse, plain (Jura), XIII, b 792
BREST, town (Plan), IV, b 232-3
——, town (Labrador), XIV, b 177
BREST-LITOVSK, town, IV, a 233
Bretagne, province. See BRITTANY
Brethren, sect (Plymouth Brethren), XIX, a 250-1
——, sect (Dunkers), VII, a b 469
—— of the Common Life, sect (Education), VII, a b 583; (Groot), XI, a b 185; (Monachism), XVI, b 737, a 742; (Mysticism), XVII, a 141
—— of the Free Spirit (Eckhart), VII, b 556, b 557; (Mysticism), XVII, b 139-40, a 141
—— of Penitence (Francis, St.), IX, a 611
Bretigny, treaty of, 1306 (France), IX, b 482
Bretislaus I. of Bohemia, duke (Germany), X, *a* 437; (Henry III., emperor), XI, b 594
Breton, cape, harbor of (Landes), XIV, a 273
—— *Dictionaries*, VII, a 163; language and literature (Celtic Literature), V, a 281-2, a 285
——, John le, bishop (Britton), IV, a 321
——, Jules, painter (Millet, J. F.), XVI, b 334
——, Nicholas, poet (Pastoral), XVIII, a 352
——, P., mathematician (Prism), XIX, *a* 535
Breton de los Herreros, dramatist (Spain), XXII, b 375
Bretone or *Bretoun*, law-book (Bracton), IV, a 178. See BRITTON
Bretonne, author. See RESTIF
Bretonneau, Pierre, physician (Diphtheria), VII, b 217
Bretons, people (Labrador), XIV, b 177; character of (Brittany), IV, a b 320
Bretschneider, mathematician (Tables), XXIII, a 12, *b* 18, b 19
BRETSCHNEIDER, Carl Gottlieb, theologian, IV, a 233-4; *Probabilia of* (Gospels), X, a 749
Brett, Sir William Baliol, Justice (Conspiracy), VI, b 262
Bretwalda, the, king (England), VIII, a 245, note
Breughel family, painters (Schools of Painting), XXI, b 458, *b* 463
BREUGHEL, Jan, painter, IV, b 234
BREUGHEL, Peter, painter, IV, b 234; (Caricature), V, a 92
Breunnerite (Mineralogy), XVI, a 414
Breve or *brevis*, commission (Writ), XXIV, a *b* 728
Brevet rank, British, II, b 503
Breviari d'Amor (Provençal Literature, XIX, b 901
Breviaries (Hymns), XII, a b 616
BREVIARIUM ALARICANUM, IV, b 234-5; (Alaric II.), I, a 393; (Roman Law), XX, b 731, b 734; (Salic Law), XXI, b 226-7; (Spain), XXII, *b* 323
—— *Historicum* (Nicephorus Patriarcha), XVII, a 496
BREVIARY, IV, a 235-6; (England, Church of), VIII, b 339; manuscripts (Miniature), XVI, b 459; *Mozarabic* (Hymns), XII, a 613, b 615, a b 616, a 617; Parisian (Hymns), b 619; Roman (Hymns), a 619; (Liturgy), XIV, b 714; (Urban I.), XXIV, b 12
Brevier type (Typography), XXIII, a 743
Brevissima Institutio (Lilye), XIV, *b* 650
Brevoortia, species (Menhaden), XVI, b 14
Brewers, female (Women), XXIV, a 676
BREWING, IV, a 236-46
  barley, b 237-8
  bibliography, a b 237
  brewing, b 244-6
  excise duties, b 238, a b 239, a 240, b 241, a b 242
  history, a 236-7
  hops, b 242-4
  kiln-drying, a b 240
  malting, a 239-41
  materials for malt, a b 242
  saccharometers, b 237
  varieties of malt, a b 241
  water, a b 244

—— (Burton-on-Trent), IV, b 509-10; (Famines), IX, b 24; (Grains of Paradise), XI, b 33; (Hops), XII, a 160, a 161; Hungary), a 381; (India), b 802-3, b 811; (Ireland), XIII, b 238; (Lichens), XIV, b 563; (London), b 841; (Malt), XV, a 341-2; (Scotland), XXI, a b 558
—— process (Wine), XXIV, b 634-5
BREWSTER, Sir David, physicist, IV, a 246-7; (Apparitions), II, a 180; (Crystallography), VI, a b 597, b 598; (Electricity), VIII, b 4 note, a 9, a 11; (Forbes, J. D.), IX, *a b* 343; (Glass), X, a 593; (Kaleidoscope), XIII, a 836, a b 837; (Light), XIV, a 616, a 617, *b* 618; (Lighthouse), b 624; (Meteorology), XVI, b 122; (Micrometer), a 262; (Microscope), a b 270, note; (Mineralogy), a 389, b 390; (Opal), XVII, a b 799; (Optics), b 825; (Pearl), XVIII, a 457; (Perpetual Motion), a 567; (Stereoscope), XXII, *b* 565, a 566 notes, b 567-8; (Topaz), XXIII, b 474; (Wave Theory), XXIV, a 446, a 449, b 465, a 473, a 476; law of Polarization (Wave Theory), a 470
——, William, Pilgrim Father (Independents), XII, a 764
Brewsterite (Mineralogy) (Ill.), XVI, b 440
Brewster's evaporation Anemometer, II, a 24; staktometer (Hydrometer), XII, a 571
Breyne, Johann Philip, naturalist (Ivory), XIII, a 532
Brezové, Vavrinec Z., historian (Slavs), XXII, a 161
Brian Boroimhé or Boruma, king (Celtic Literature), V, a 268; (Clare), a b 702; (Ireland), XIII, a 251, b 258, a 259-60
Brianchon's theorem (Geometry), X, a b 355, *a* 357
BRIANÇON, town, IV, a b 247
BRIANSK, town, IV, b 247
Briare, town (Loiret), XIV, a b 818
BRIAREUS, a legendary deity, IV, b 247
Briar-wood (Pipes), XIX, b 120
Briasson, publisher (Encyclopædia), VIII, a b 180
Briati, Guiseppe, manufacturer (Glass), X, b 581
BRIBERY, IV, b 247-9; (Bacon), III, b 179-80; (Cæsar), IV, a 564, a 565; (Contempt of Court), VI, b 283; (Liguori), XIV, b 645 note; electoral (Parliament), XVIII, b 313, a b 314; (Sheridan), XXI, a 8[illegible]6; laws against (Rome), XX, a 775 note
Bribsun, princess (Lāmāism), XIV, b 229
BRICK (Ill.), IV, a 249-53
  ancient brick, a 249
  earths, b 249-50
  kilns, b 252
  machines, b 251-2
  manufacture, a 250-1
  tiles, b 252-3

—— (Philadelphia), XVIII, a 751, a 753; adamantine clinker (Lincoln), XIV, a 662; ancient (Rome), XX, b 825, a 827 note, b 828 note, b 835, b 843, note; arches (Bridges), IV, *b* 278; and ashlar walls (Building), IV, b 416; backing (Building), b 416, b 421; beam (Building) (Ill.), b 402-3; cinder (Iron), XIII, b 314; Dinas (Metallurgy), XVI, a 65; Filter, IX, a 149; Gothic Architecture, II, a 378, b 379, b 381; laying (Building) (Plate XX), IV, b 411-4; paving (Building), IV, a b 417; royalty (Gaur), X, a 103; stability of (Building), IV, a 401, a 404; wall-facings (Rome) (Ill.), XX, b 827, a b 828; work (Building) (Plates XX, XXI), IV, b 406, a 408, a 409-18

Brick church, mediæval (Toulouse), XXIII, a 516
—— clay (Geology), X, b 212
——, decorated (Pottery), XIX, a 622, b 637; (Mural Decoration), XVII, b 41-2
—— earth (Geology), X, b 211
——, fire (Iron), XIII, a b 301, b 305-6; (Metallurgy), XVI, a 65; lining for converters (Iron), XIII, b 356; in precipitation furnace (Iron), b 347
Bricklayers' Association, Manchester (Communism), VI, b 194
Brick stoves (Heating), XI, a 528
Brick Tea, XXIII, b 106
Bricole, game (Billiards), III, b 584
BRIDAINE, Jacques, missionary, IV, a 253
Bride. See St. BRIDGET
Bride (Fire), IX, b 200 note; myths (Mythology), XVII, b 164, *a b* 165; sale of (Zululand), XXIV, b 867. See MARRIAGE and Wives
Bride of Genoa (Sargent), XXI, a 906
"Bride of the Nile," sacrifice (Egypt), VII, b 623 note, b 630
Brides or links (Lace) (Ill.), XIV, *a* b 186, *a* 187
Bridewell Hospital, industrial school (England), VIII, a b 230
—— prison (London), XIV, a 844, *a* 849, b 857
Bridge building (Arch), II, b 288, a b 289-90; IV, a b 401; (Diving), VII, a 257, a b 259, b 260. See BRIDGES
—— conduits (Aqueduct), II, a 200
—— head (Fortification) (Ill.), IX, a b 384
Bridgeman, Sir Orlando, lord-keeper Cumberland), VI, b 618, a 619
——, method of working (Telegraph) (Ill.), XXIII, b 132-3
Bridgend, town (Glamorgan), X, a b 565
BRIDGENORTH, town, IV, a b 253; (Shropshire), XXI, *b* 887
Bridge of Sighs (Venice), XXIV, a 166; song of (Hood), XII, a 149
BRIDGEPORT, Conn., town, IV, b 253
Bridger basin and fort (United States), XXIII, *a* 847
Bridge Street Market (London), XIV, a 837
BRIDGES (Plates XVIII, XIX) (Ill.), IV, b 253-309
  ARCH (Ill.), a 273-82
    centres (Ill.), b 278-9
    designing rib, b 281-2
    equilibrium of voussoirs (Ill.), b 273-5
    general description, a b 273
    linear arch, method of finding (Ill.), b 277-8
    masonry and metal compared, a b 279

BRIDGES, *continued*
  ARCH
    practical details, b 278-9, a b 282
    rupture, joint of (Ill.), b 276-7
    stability of voussoirs demonstrated, a 275-7
    thrust of metal arch (Ill.), b 279-81
    wooden, a 282
  BEAMS OR GIRDERS (Ill.), b 257-69
    bending moment (Ill.), a 259-62
    continuous, a 267-9
    deflection (Ill.), b 265-9
    design and weight of, a b 265
    elastic forces, moment of (Ill.), a 262-3
    external forces, b 257-8
    graphic finding of deflection (Ill.), a 367
    internal forces (Ill.), a 258-9
    neutral axis, a b 263
    rupture, modulus of, b 260
    safety, factor of, b 264-5
    shearing stress (Ill.), b 263-4
    span, limiting, a 269
  compound structures (Ill.), a 290-1
  definitions and general observations, b 253-4
  EXAMPLES (Plates XVIII, XIX) (Ill.), b 295-308
    American (Plates XVIII, XIX), b 304-6
    Britannia tubular bridge (Ill.), a 301-3
    fourteenth to eighteenth centuries (Ill.), a 298-300
    London and Waterloo bridges (Plate XVIII), b 300-1
    mediæval (Ill.), a 297-8
    Newcastle, Newark and Crumlin (Ill.), b 303-4
    Roman (Ill.), b 295-7
    statistics, b 307-8
    suspension bridges, introduction of, a b 301
    Tay bridge (Ill.), b 306-7
  FRAMES (Ill.), b 282-90
    classes of truss, b 282-3
    external forces, a 283
    forms of girder (Ill.), a b 286
    reciprocal figures (Ill.), b 283-6
    struts and pillars, b 288-90
    suspension bridges and arches (Ill.), b 286-8
    Warren girders (Ill.), b 284-6
    weight of trusses, b 288
  INDEXES, a 308-9

BRIDGES, *continued*
  STRENGTH OF MATERIALS (Ill.), b 254-7
    crushing, resistance of, a 255, b 256-7
    elasticity, a b 256
    inertia, moment of, a b 257
    shearing (Ill.), a 255-6
    specific gravity, b 257
    temperature, b 257
    tensile, b 254-5, b 256-7
  SUBSTRUCTURE (Ill.), b 291-5
    foundations (Ill.), b 292-4
    piles (Ill.), b 294-5
    site (Ill.), b 292
    stability, b 291-2
    wells, b 295
  SUSPENSION BRIDGES (Ill.), a 269-73
    form of loaded chain (Ill.), a 270-1
    merits and defects of, a b 272
    modified designs, b 272-3
    practical details (Ill.), b 271-2
    span, a 273

—— (Aberdeen), I, b 44, a 46; (Adana), b 132; (Alcantara), b 405; Arno (Ammanati), b 648; Brooklyn (Caisson), IV, b 574; (New York), XVII, a b 478; (Burton-on-Trent), IV, a 510; (Calcutta), b 584; (Chester), V, b 524, a 525; (Constantinople), VI, a 274; Devorgilla's (Dumfries), VII, *a* 456; (Dirschau), a 224; (Florence), IX, a b 290; (Forth), b 370-1; (France), a 457; (Frankfort), b 621; (Freiburg), b 671; (Glasgow), X, a 573
—— (Hamburg), XI, b 364; (Herat), a 637; (Highways), b 724; (Hissar), XII, a 5; (Ispahan), XIII, b 404; (Kieff), XIV, b 71; (Krementchug), XIV, a 148; London (Ill.), IV, a 297-8; (London), XIV, a 827, *b* 831, *a* b 832; (Louisville), XV, a 25; (Lucerne), b 42; (Mostar), XVI, b 895; (Newcastle), XVII, b 386; Omaha (Pacific Railways), XIX, b 915
—— (Orense), XVII, a 851; (Paris), XVIII, a 280; (Piacenza), XIX, b 72; (Pontoon), XIX, b 470-3; (Pontypridd), b 474; (Prague), b 677; Quebec (St. Lawrence), XXI, a 191
——, St. Louis (Plate XVIII), IV, b 305-6; XXI, b 132-3; steel tests in (Iron), XIII, b 364
—— (St. Petersburg), XXI, *b* 200; Severn (Gloucester), X, a 615; Tay (Ill.), IV, b 306-7; (Tay), XXIII, a 97; (Venice), XXIV, a 160; Victoria, IV, a 293, a b 305; (Montreal), XVI, b 820
——, Chinese (Kalgan), XIII, a 838; destruction of (Fortification), IX, a b 385; Guiers Mort (Chartreuse), V, b 376; Peruvian Indian (America), I, a 612, a 614
—— (Railway) (Ill.), XX, a 242-3, b 264; (Stephenson), XXII, a 565; (Strength of Materials), b 633, note; rail of (Railway), XX, b 231-2
——, Roman, IV, b 295-6; Caligula's (Rome), XX, a 837, a 842, a 843; (Inscriptions), XIII, *a* 135; (Merida), XVI, a 41; (Rome), XX, b 852-3; St. Angelo (Sculpture), XXI, a 597; (Salamanca), b 213, note; (Treves), XXIII, b 587
——, rope (Ecuador), VII, a b 562
——, suspension (Plate XIX), IV, b 269-73, b 290-1, a b 301; (Cincinnati), V, b 683; (Clifton), VI, a 3; (Mechanics), XV, a 748; Niagara (Bridges), IV, b 304-5; (Roebling), XX, b 635; (St. Lawrence), XXI, b 189
——, tubular (Plate XIX), IV, a 301-3; (Anglesea), II, *b* 28; Victoria (Bridges), IV, a 293, a b 305; (Montreal), XVI, b 820
Bridge's theorem (Wave Theory), XXIV, a 453
BRIDGET, Bride or Brigit, St., of Ireland, IV, a 309; (Celtic Literature), V, b 264, b 271, b 273; (Ireland), XIII, a 254, b 255
—— of Kildare, St., abbess (Scotland), XXI, a 497, b 498
BRIDGET of Sweden, St., IV, a 309; (Monachism), XVI, b 737, note, a 742; (Sweden), XXII, b 791
Bridgetown (Barbados), III, b 309, a 311, *a* 312; (Yellow Fever), XXIV, b 771
BRIDGEWATER, town (Ill.), IV, a 309; (Somerset), XXII, b 271, *a* 272
BRIDGEWATER, Francis Egerton, duke of, IV, a 309
BRIDGEWATER, Francis Henry, Earl of, IV, b 309
——, Thomas Egerton, Earl of (Milton, John), XVI, a b 338
—— canals, IV, b 692
—— *Treatises*, IV, *b* 309; (Buckland), b 377
Bridgman, E. C., orientalist (Williams), XXIV, a 900
Bridgnorth. See BRIDGENORTH
Bridle (Horse), XII, b 202
BRIDLINGTON or Burlington, town, IV, b 309; Quay, watering-place, b 309
BRIDPORT, town (Ill.), IV, b 309-10
Bridson's washer (Bleaching), III, a 709
Brie, district (Champagne), V, *b* 334; (Seine-et-Marne), XXI, *b* 655, a 656
Briefs, apostolic (Bulls, etc.), IV, b 465
——, commissions (Writ), XXIV, *b* 728
——, block-prints (Typography), XXIII, b 725
BRIEG, Prussian town, IV, a 310

BRIEL or Brielle, town, IV, a 310
Brienne, Etienne Charles Loménie de, cardinal (France), IX, *b* 524, a 525
——, Jean de, king of Jerusalem (Egypt), VII, *b* 654
——, Walter de, duke of Athens (Florence), IX, a 293
Brienz, Lake, XIV, a 219, a 221; (Switzerland), XXII, *a* 815
Brier, Sweet, plant (Rose), XX, b 873, a 874
Briere de l'Isle, general (Tong-king), XXIII, a b 470
Brieve, law-term (Writ), XXIV, b 732-3
Brig o' Balgownie (Aberdeen), I, b 44, a 46
Brigach, river (Danube), VI, a 721
BRIGADE, military unit, IV, a 310; British (Artillery), II, b 580; district (Army), II, a 508, a b 509
BRIGADE-MAJOR, officer, IV, a 310
BRIGADIER, officer, IV, a 310
Brigandage (Arabia), II, a 215; (Fra Diavolo), IX, b 444; (Genoa), X, a 142; (Greece), XI, b 75, b 77, a 111
Brigandine jacket (Cuirass), VI, b 612
Brigantes, clan (Ireland), XIII, a 250; (York), XXIV, a 786
Brigantia, town. See BREGENTZ
Brigantium, town. See BRIANÇON
Briggian logarithms (Tables), XXIII, a 14-5
BRIGGS, Henry, mathematician, IV, a b 310; (Gunter), XI, *b* 295; (Logarithms), XIV, a 780-2, b 784-5, a 786, a 787; (Napier), XVII, b 185, a b 187, note, *a b* 188, a 192; (Tables), XXIII, a 11, a 14
Bright, John, statesman, *b.* 1811, *d.* 1889 (Cobden), VI, b 79, *a* 81, a 82; (Landlord and Tenant), XIV, b 277
——, Richard, physician (Medicine), XV, *a* 826
Brightmore, H. W., engineer (Steam-Engine), XXII, a 511 note
Brightness. See Intensity of Light
BRIGHTON or Brighthelmstone, watering-place (Ill.), IV, b 310-2; (Aquarium) (Ill.), II, *a* b 190; (Sussex), XXII, b 761, *a* 762, *a* b 763; beach road (Traction), XXIII, b 526
——, Mass., town (Boston, U. S.), IV, b 65; (Cambridge, U. S.), b 647
Bright's bell-sounder (Telegraph), XXIII, b 128
BRIGHT'S DISEASE, IV, a b 312; (Dietetics), VII, b 179; (Iron), XIII, a 370; (Ophthalmology), XVII, a 806; (Pathology), XVIII, a 395, a b 396, a 397, b 417; (Pellagra), b 487
——system, Timothy (Shorthand), XXI, a 875 note
Brigit, goddess, (Celtic Literature), V, b 260, b 279
BRIGNOLES, town, IV, b 312
Brihad-devatá (Sanskrit), XXI, a b 290
Brihtnoth, Earl of Essex (England), VIII, b 259
Brihtric, king of Wessex (Egbert), VII, a 603
Bril, town. See BRIEL
——, Matthew, painter, IV, b 312
BRIL, Paul, painter, IV, b 312
Brill, fish (Ichthyology), XII, b 730
Brilliant, barque (Yachting), XXIV, a 759
—— cutting (Diamond) (Ill.), VII, a b 143; (Lapidary), XIV, b 298-300. See GEM
——, type (Typography), XXIII, b 743
Brimstone. See SULPHUR
Brimstone Butterflies, IV, b 529
Brindaban, town (Muttra), XVII, a b 120
BRINDISI, city, IV, b 312-3; (Adriatic Sea), I, b 151
BRINDLEY, James, engineer, IV, a b 313; (Aqueduct), II, a 200; (Canal), IV, *a* 692
Brine, pumping (Salt), XXI, b 242; springs (Geology), X, b 240; wells (Petroleum), XVIII, a b 726
Briniates, tribe (Liguria), XIV, b 646
Brinjaris, tribes (Madras), XV, b 186
Brink, Reinier Cornelis Bakhuisen van den, critic (Holland), XII, b 101
Brinkerhoff, R., banker (Reformatories), XX, b 903
Brinkley, John, astronomer (Hamilton, Sir W. R.), XI, *a* 377
Brinsley, John, divine (Shakespeare), XXI, b 787, *a* 788
Brinton, Daniel G., ethnologist (Religions), XX, a 377
Brinvilliers, Marie Marguerite D'Aubray de, marchioness (Glaser), X, b 568
Brinz, jurist (Roman Law), XX, b 711 note, a 712 note, b 723 note
Briocus, St., missionary (St. Brieuc), XXI, a 168
Brion, de. See pope MARTIN IV.
Brion, Frederike, inamorata (Goethe), X, b 644, a b 645
Brionnais, district (Saône), XXI, a 316
Briony, plant (Yam), XXIV, b 763
Briot, François, silversmith (Plate), XIX, b 195
BRIOUDE, town, IV, b 313; bridge of (Ill.), a 299
Briovira, town. See ST. LO
Briquettes, fuel (Coal), VI, b 72
BRISBANE, town and river, IV, b 313; (Queensland), XX, *a* b 178, *a b* 181, a 182
——, Albert, journalist (Greeley), XI, a 144
BRISBANE, Sir Thomas Makdougall, astronomer, IV, *b* 313-4; (Observatory), XVII, b 737
Brisingidæ, family (Echinodermata), VII, b 547, a 549
BRISSON, Mathurin Jacques, naturalist, IV, a 314; (Ornithology), XVIII, b 9; (Owl), b 92
Brissot, Jean, physician (Medicine), XV, a 818
BRISSOT de Warville, Jean Pierre, journalist, IV, a b 314; (Robespierre), XX, a b 618
Bristles (Brushes), IV, b 362; (Hair), XI, b 336; (Mammalia), XV, b 350, a 351
BRISTOL, city (Ill.) (Map), IV, b 314-7; (Colston), VI, a b 149; (Libraries), XIV, a 518, b 520, a 521, b 542-3; (Newspapers), XVII, b 432; St. Augustine's Abbey at (Ill.), I, b 25; ware (Pottery), XIX, a b 662, a 664
—— channel (Harbors and Docks), XI, a 417; (Tides), XXIII, a 376, a 398
BRISTOL, R. I., town, IV, b 317
——, John Digby, earl of (Charles I., Eng.), V, *a* 351
Britain, Ancient (Agricola, Cnæus Julius), I, b 258; (Brewing), IV, a b 236; (Cæsar), b 565; (Druidism), VII, b 412; (Numismatics), XVII, a 652; church of (Easter), VII, a 532; (England), VIII, a b 332; definition of (England), VIII, a b 238; dialects of (Celtic Literature), V, *b* 258-9, b 261; ethnographic elements in 11th century of (Romance), XX, a 658-9; intercourse with (France), IX, a 466; invasion of (Ireland), XIII, b 251-3; (Itius Portus), a 528; Roman occupation of (Scotland), XXI, a 495; tribes (Ireland), XIII, a b 249, b 250 note. See Great Britain
BRITANNIA, country, IV, b 317-9. See Britain, Ancient
—— bridge (Bridges) (Plate XIX), IV, a 290, a 301-3, a 308
Britannia, Camden's, IV, *b* 649-50
——, metal (Antimony), II, a 114; (Pewter), XVIII, b 738; ware (Meriden), XVI, b 41
Britannia Romana (Horsley, J.), XII, *a* 213
BRITANNICUS, Claudius Tiberius, prince, IV, b 319-20; (Nero), XVII, a b 357, *a* 358; (Titus), XXIII, b 447
Britannicus, play (Molière), XVI, a 652; (Racine), XX, b 213
Brithford church, Wiltshire (Architecture), II, b 372
British administration in Bengal, III, b 487-8
—— African settlements, I, a 237, b 240, *a* b 241, b 243
—— aggressions (Abyssinia), I, b 65-6; (Afghânistân), I, a 215-6; (Ashantee), II, b 595-6; (Assam), a 628; (Baluchistan), III, b 259-60; in Bengal (India), XII, b 840-1; (Burmah), IV, a 497-9; in China (Opium), XVII, a 812, a b 813; (China), V, a b 565, a b 566; in Corsica (Paoli), XVIII, a b 502; (Cochin China), VI, a 85; (Cutch), a 646; (Egypt), VII, b 682; (Ghazni), X, a b 502; (India), XII, a 839-51; (Hawaiian Islands), XI, a 472; (Kaffraria), XIII, b 826-7; (Nepāl), XVII, *b* 353-4; (North West Provinces), XVII, a b 587; (Orange Free State), b 837; (Oudh), XVIII, a 77; (Parga), a 278; (Sambalpur), XXI, a 260; at Sea (Army), II, a 515; (Sokoto), XXII, a 260; (Transvaal), XXIII, *a* 552; (Venezuela), XXIV, a 152. See names of heathen and minor states
—— aliens, disfranchisement of, I, *a* 507
British Almanac, I, b 520-1
British America, I, b 624; (Fire), IX, a 204; (Fisheries), a 232-3; American population in the United States, XXIII, a *b* 874, a 875
—— antiquarian remains (Archæology), II, *a b* 293, b 296
—— army, history of, II, a 497-501
British Association for the Advancement of Science (Aëronautics), I, a 176; (Brewster), IV, a 247; (Forbes, James), IX, b 343; (Phillips), XVIII, *b* 772; (Societies), XXII, *a* 233, a 234
—— birds, books on (Ornithology), XVIII, a 13-4, a b 22; Bewick's (Ornithology), b 13-4, note
—— BURMAH, IV, b 499-501; (India), XII, a 773, b 777-8, b 779, a b 780, b 782, a b 783, a b 785, a 786, b 789, a *b* 791, b 793, b 797, b 800, b 811, b 814, a 815
—— coal-fields, VI, b 47-52
—— colonies, VI, a 143, b 144; (America), I, a b 621, b 624, b 627, a 628; (Hankow), XI, a 394; arrogance of officials in (United States), XXIII, *a b* 786, b 788; law of (Patents), XVIII, a b 361-2, b 874, a 875; Periodicals of, b 549
—— Columbia, VI, b 151; Indians of, XII, b 866; (Totemism), XXIII, b 497, a 499
—— cotton, statistical tables, VI, 447-9
—— cultivated trees (Arboriculture), II, a b 276
—— diplomacy (Persia), XVIII, a 627-30, a b 659, a 661, a 662, b 664
—— and Foreign Bible Society, III, b 561-2
—— and Foreign Blind Association, III, a 718
—— garden calendar (Horticulture), XII, a 302-6
—— Guiana, XI, a 221-3
—— Hill Forts (Castle), V, b 171
—— HONDURAS, XII, a 136-8
—— India (Asia), II, b 595, rule in (India), XII, a 839-51

British iron and steel trade (Iron), XIII, b 367, a b 368; decay of (Iron), a b 340, a 341
—— Islands (Climate), VI, a b 7, *a* 8; flora (Distribution), VII, a 251; (Fisheries), IX, a 212, b 214–32; (Meteorology), XVI, a b 141, b 142, a b 143, a 146–7, a 150, a 151, a b 154, a 160, a b 163; Isobars (Meteorology) (Ill.), a 145, b 146; isotherms (Atlantic Ocean), III, b 21; platform of (Atlantic Ocean), III, b 16–7; rainfall of (Meteorology), XVI, a b 157; storm tracks (Meteorology), a 161. See Britain, Great Britain, England, Scotland, Ireland, and Wales
—— *Jungermanniæ* (Hooker), XII, b 156
—— Kaffraria, larceny of, XIII, a 826–7
—— Learned Societies, XXII, *a* b 233–4, *b* 236, *a b* 237, *a* 238, *a* b 239, b 240
—— Linen Company (Banking), III, b 287–8
—— *Mariner's Guide* (Navigation), XVII, a 267
—— Missionary Societies, XVI, a 538
British Museum (Archæology), II, *a* b 302, b 303, a 304, *a* b 306, a 307, a 308, a 309, *b* 310, *a* b 311, a *b* 312, a 313, b 314, a 315, a b 316, b 319, b 320; (Archelaus), a 325; (Architecture), a 335, b 338, b 339, *b* 349, b 356, b 361, a 362; (Bellini), III, b 472; (Bronze), IV, *a* 332; (Burney), b 504; (China), V, a 576; (Drawing), VII, a 390; (Fellows), IX, *a* 60; (Gems), X, b 122, a *b* 123, a b 124, *a b* 125, *a* 126; (Horne, T. H.), XII, b 174; (Hungary), b 390 notes, *a* b 391 notes
—— (Inscriptions), XIII, b 129; (Ivan IV.), *b* 529; (Ivory) (Plate VII), a b 533; (Lamp), XIV, a b 248, a 249; (London), b 846; (Miniature), XVI, a 458, b 459; (Müller, W. J.), XVII, a 24; (Ornithology), XVIII, b 10 note, a 11 note, a 13 note, a b 18; (Phidias), b 747, a b 748; (Phigalia), a b 749; (Paper), a b 222; (Pottery and Porcelain), XIX, a 664; (Press Laws), a 731; (Schongauer), XXI, a 450, note; (Sculpture), a 592; (Seals), b 613, a b 614, a 615; (Sloane), XXII, b 170; (Terra-cotta) (Ill.), XXIII, b 209 note, *b* 210, note, *a* 211, a b 212; (Ward), XXIV, a 390
——, Library of (Celtic Literature), V, *b* 265, a 281; (Illumination), XII, *a* b 746, b 747; (Libraries), XIV, a 509, a 514–5, b 516, a 537, a b 538, b 539; manuscripts of (Palæography), XVIII, b 150, a 151, a b 152, a 153, b 154, a 155, b 169; (Panizzi), a b 216
British navy, discomfiture of (Stewart), XXII, b 928–9; *History of* (Nicolas), XVII, a 503
—— neutrality doctrines (United States), XXIII, a 807; samples of (United States), b 823, a b 826
—— nobility (Genealogy), X, a b 130; (Peerage), XVIII, a 468–79; (Titles), XXIII, a 446. See NOBILITY
—— North Borneo Company (Sabah), XXI, b 132
—— Oak, tree, XVII, a 709, b 711
—— Periodicals, XVIII, a 546–9
—— *Pharmacopœia*, XVIII, b 744–5
British Poets (Gilfillan), X, a 532; *Annotated Edition of the* (Bell, R.), III, *b* 469
—— Police System, XIX, a 351–4
—— political system (Malay Peninsula), XV, a 325
—— population in the United States, XXIII, *a b* 874
—— Post-Office, XIX, a 578–95; (Pneumatic Dispatch), a b 251
—— protective system (Newfoundland), XVII, a 395
—— *Sacramentaries* (Liturgy), XIV, b 714–7
—— School of Painting (Ill.), XXI, b 460–61, a b 464, *b* 465, a 465–6, a 468, a 469; (Van Dyck), XXIV, a b 71
—— Seas (Tides), XXIII, a 397–8
—— sepulchral barrows (Pottery and Porcelain), XIX, b 619, a 620
—— *Spy* (Wirt), XXIV, a 906
British sugar (Adulteration), I, a 156
—— Weights and Measures, XXIV, b 507, *a b* 517
—— Whale fisheries, XXIV, a 556–7
British Zoology (Pennant), XVIII, b 503
Brito, port (Nicaragua), XVII, b 490
——, Bernardo de, historian (Portugal), XIX, *b* 572
Britons, race (Britannia), IV, a 318–9; (Celtic Literature), V, a 261–2; (England), VIII, b 238–9; (Scotland), XXI, a *b* 495, a 496 note, a 498; character of ancient (Arthur), II, a 571
Britonum Historia (Nennius), XVII, a b 341
BRITTANY or Bretagne (map), IV, a 320–1; (Fountain), IX, b 428; (France), a 470; (Gaelic), X, a 8; ducal line (Rennes), XX, b 413; (Rude Stone Monuments), XXI, *a* 57, b 58
Brittleness (Elasticity), VII, b 691
Brittle-stars (Echinodermata) (Ill.), VII, a 549–50
BRITTON, law-book, IV, a 321; (Bracton), IV, a 178
BRITTON, John, antiquary, IV, a 321; (Architecture), II, b 370, b 400
Briugu, title (Ireland), XIII, a 264
Briva Isaræ, town. See PONTOISE
BRIVES-LA-GAILLARDE, town, IV, b 321
BRIXEN, town, IV, b 321
BRIXHAM, town, IV, b 321–2; (Fisheries), IX, *b* 216, note, *a* b 217; Cave, V, a 231, b 232; (Archæology), II, b 294; port (Fisheries), IX, *b* 216, note, *a* b 217
Brixia, town. See BRESCIA
Briza, genus (Grasses) (Ill.), XI, *a* 53
BROACH or Bharuch, district and town, IV, a 322; (Bombay), b 20, a 22, a 23; (Nerbudda), XVII, a 365
Broadbills, birds (Ornithology), XVIII, a 44
"Broad-bottom" ministry (Chatham), V, b 381; (Chesterfield), b 527; (Grey), XI, b 170
—— Churchmanship (Maurice), XV, a b 645; (English Literature), VIII, b 386
Broadfirth (Iceland), XII, a 651
Broad Haven (Mayo), XV, b 656
—— Law, hill (Peebles), XVIII, a 462; (Scotland), XXI, b 547
Broadshare ploughs (Agriculture), I, b 277–8
Broadsides and ballads (Pamphlets), XVIII, b 208, b 210
BROADSTAIRS, town, IV, a b 322
Broadway (New York), XVII, b 470, *a* 471
Broadwell ring (Gunmaking), XI, b 258
Broadwood, Henry Fowler, manufacturer (Pianoforte), XIX, *b* 84, a 85, a 87
——, James, manufacturer (Pianoforte), XIX, b 84, a 87
——, John, manufacturer (Pianoforte), XIX, b 81, a b 82, a 87
Broca, Dr. Paul (Aphasia), II, b 150–1; (Ethnography), VIII, b 550; (Surgery), XXII, b 724, *a* 725
Brocades, fabric (Burgundy), IV, b 479; (Gold Lace), X, b 671; (India), XII, a 801; (Lucknow), XV, b 51
Brocage contracts (Marriage), XV, a 573
BROCCHI, Giovanni Battista, mineralogist, IV, b 322
Broccoli, plant (Cabbage), IV, *a* 549; (Horticulture), XII, b 290–1
Brochantite (Mineralogy) (Ill.) XVI, b 418
Bröchner, Hans, philosopher (Denmark), VII, a 82
Brochs, towers (Round Towers), XXI, a 28
Brock Engine (Steam-Engine), XXII, a 546
——, Samuel, fisherman (Swimming), XXII, b 810
Brockedon graphite process (Pencil), XVIII, b 500
Brocken, mountain (Harz), XI, *a b* 453; (Saxony), XXI, b 375; spectre (Halo), XI, b 356
Brockes, Barthold Heinrich, poet (Germany), X, a 476; (Pessimism), XVIII, b 700
Brockhaus family, editors (Encyclopædia), VIII, a b 185
BROCKHAUS, Frederick Arnold, publisher, IV, b 322–3; (Schopenhauer), XXI, b 471, b 475
——, Herman, editor, (Háfiz), XI, b 329
BROCKLESBY, Richard, physician, IV, a 323
"Brockram" rock (Geology), X, a 311
Brodeau, Victor, poet (Marguerite Valow), XV, b 545
BRODERIP, William John, zoologist, IV, a 323
Brodiæa, plants (Horticulture), XII, b 257
Brodick, village (Arran), II, a 550
BRODIE, Sir Benjamin Collins, physician, IV, a 323–4; (Chemistry), V, *a* b 417, a 418; (Carbon), b 77, a b 78; (Iodine), XIII, a 209
Brodir, leader (Ireland), XIII, a 260
BRODY, town, IV, a 324
Brodzinski, Casimir, poet (Poland), XIX, b 315
Broekhuizen. See BROUKHUSIUS
Broggia, Antonio, publicist (Political Economy), XIX, a 375
Broghill, baron. See BOYLE
BROGLIE, Achille Léonce Victor Charles, duc de, statesman, IV, a 324–5
——, Albert de, statesman, IV, a 325; prince (France), IX, a 553
——, Charles Jacques Victor Albert, duc de, statesman (Thiers), XXIII, *a* 325
——, Claude Victor, general, IV, b 324
——, François Marie, duc de, chevalier, IV, a 324
——, Victor François, duc de, prince, IV, a 324; (France), IX, b 519, a 520
——, Victor Maurice, Comte de, marshal, IV, a 324
Broiling (Cookery), VI, a 295
Broken Heart, The (Ford, J.), IX, *a* 347, a b 348
BROKER, IV, a b 325; (Stock Exchange), XXII, a 585
——, Nicholas, goldsmith (Sculpture), XXI, a 586
Bromal, drug (Alcohol), I, a 416
BROMBERG, town, IV, b 325
BROME, Alexander, poet, IV, b 325
BROME, Richard, dramatist, IV, *b* 325
Bromelia, plants (Horticulture), XII, a 285
Bromic acid (Chemistry), V, b 429, *a* 430, b 431
Bromide, boron (Chemistry), V, *b* 450
Bromide of Potassium, XIX, a 609; (Bromine), IV, *a* 325
—— of Silver, XXII, a 79; (Bromine), IV, a 326
Bromides (Chemistry), V, b 414; gold (Chemistry), b 458, a b 459; phosphorus (Chemistry), *b* 447, b 449, a 450; silicon (Chemistry), *a b* 452, b 453; sulphur group (Chemistry), b 434; thallium (Chemistry), a 460
Bromidrosis (Skin Diseases), XXII, b 128
BROMINE, halogen, IV, b 325–6; (Distillation), VII, a 227; (Iodine), XIII, b 208, a 209; (Ohio), XVII, a 755, note; (Poisons), XIX,

BROMINE, *continued*
a 291; and its compounds (Chemistry), V, b 424–8, b 429–30; heat in combinations (Chemistry), a b 411; vapor, use of (Photography), XVIII, b 836
Bromite (Mineralogy), XVI, a 400
BROMLEY, town, IV, b 326; (London), XIV, a b 831
Bromoform (Chemistry), V, a 491
Brompton, village (Chatham), V, b 380, *a* 381; (London), XIV, a 836
—— stock (Horticulture), XII, *a* 256
BROMSGROVE, town, IV, b 326
Bromus, genus (Grasses) (Ill.), XI, a 49, b 50, a 53
Bromyard, town (Hereford), XI, *b* 652, a b 653
Bronchi (Respiration), XX, *a* 489
Bronchial arteries (Anatomy), I, a 793; blood-vessels (Respiration), XX, a b 489; catarrh (Pathology), XVIII, b 386
BRONCHITIS, IV, b 326–8; (Asthma), II, a 644; (Drowning), VII, b 409; (London), XIV, b 836
Bronchiole (Respiration), XX, *a* 489
Bronchocele, disease (Goitre), X, a 658
Bronchorrhœa (Bronchitis), IV, b 327, a 328
BRONDSTED, Peter Oluf, archæologist, IV, a b 328
BRONGNIART, Alexandre, mineralogist, IV, b 328; (Amphibia), I, b 657, a 658; (Pottery and Porcelain), XIX, a 657, a 659; (Reptiles), XX, a b 447
Brongniartine (Mineralogy) (Ill.), XVI, a 417
Bron le Roy Pêcheour, of Round Table (Romance), XX, *b* 661, *a* 662
Bronner, Xaver, poet (Germany), X, b 477
Brönner burner (Gas Lighting), X, *a* 90
BRONTE, city, IV, b 328
——, Anne, novelist, IV, b 328, *a* b 329, *a* 330
BRONTE, Charlotte, novelist, IV, b 328–30; (Gaskell), X, *b* 94, b 95
——, Emily, novelist, IV, b 328, *a* b 329, *a* 330
——, Patrick Branwell, IV, b 328, a 329
Brontotheridæ, fossils (Zoology), XXIV, b 926
Brontozoum (Birds), III, a b 631
BRONZE, in art, IV, a 330–2; (Æs), I, b 187; (Copper), VI, a 308, b 311; (Etruria) (Ill.), VIII, b 564–5; (Founding), IX, a 423; (Herculaneum), XI, b 647; (Inlaying), XIII, a 88; (Japan), b 582, b 598, b 601; (Metal Work), XVI, a 77, b 78, a b 79, b 80, *b* 81, a b 82, a b 83, b 84; (Mirror), b 524; (Pisano), XIX, b 131; (Sicyon), XXII, b 37; (Tiles), XXIII, b 414–5, notes; (Venice), XXIV, *b* 169
Bronze age (Anthropology), II, b 108; (Archæology), b 292, a 293, a b 297; (Arms and Armor) (Ill.), a b 485; (Barrows), III, a 343; (Bracelet), IV, a 170; (Brooch), b 332; (Cave), V, b 234; (Gipsies), X, a b 551; (Lake Dwellings), XIV, b 224–5; (Metal-work), XVI, a 77; (Russia), XXI, a 86; (Sword), XXII, b 839–40
—— aluminium (Metals), XVI, b 70, b 73
—— brown, color (Dyeing), VII, a 501
—— cannon (Gunnery), XI, b 272
—— casting, origin of (Archæology), II, a 305
—— coin (Adulteration), I, a 160; (London), XIV, b 841; (Mint), XVI, a b 505; (Money), b 749; Italian (Numismatics), XVII, *b* 652, *a* 653
—— doors (Metal-work), XVI, b 80, a 83
—— lamps, ancient (Lamp) (Ill.), XIV, a b 248–9
——, manganese (Iron), XIII, a b 362
——, phosphor (Metals), XVI, a 75; (Phosphorus), XVIII, a 830
—— powders (Bronze), IV, a 331
—— statuary (Sculpture) (Ill.), XXI, a 583, note, a b 585, a b 586, a b 587, a b 588, a 591, a b 592, *a* 593, a b 596, a 598
—— tablets, Roman (Inscriptions), XIII, a 127, b 137–8; Greek (Inscriptions), a 427, note
—— wires (Telephone), XXIII, b 143
Bronzing (Bronze), IV, a 331
Bronzino, Angelo, painter (Pontormo), XIX, a 473
Bronzite (Mineralogy), XVI, a 433, a 434; (Pacific Ocean) (Ill.), XVIII, b 130–1
BROOCH or Broach, ornament, IV, b 332; (Cave), V, a 235; (Ireland), XIII, a 263; (Jewellery), a b 687
Brook and Wilson's producer (Iron) (Ill.), XIII, a 302
Brooke, Charlotte, poetess (Celtic Literature), V, b 283
BROOKE, Frances, novelist, IV, b 332–3
BROOKE, Henry, novelist, IV, a 333
BROOKE, Sir James, rajah, IV, a b 333; (Borneo), b 53; (Sarawak), XXI, a 322
——, Robert Greville, lord (Warwick), XXIV, b 401
——, Sir Victor, naturalist (Muntjak), XVII, b 38
Brooker, William, editor (Newspapers), XVII, b 444
Brooke's apparatus (Sounding), XXII, b 294
BROOKES, Joshua, anatomist, IV, b 333–4
Brook Farm (Greeley), XI, a 144; (Hawthorne), b 480; (Massachusetts), XV, b 620; (Ripley), XX, a b 582; (Socialism), XXII, a 220
Brookite (Mineralogy) (Ill.), XVI, b 394, b 402
BROOKLYN, city (Ill.), IV, a b 334; (Libraries), XIV, b 534, a 553; (Long Island), b 876, a 877
Brook market (London), XIV, b 837
BROOKS, Charles Shirley, novelist, IV, b 334–5
——, James, journalist (Pacific Railroads), XIX, b 918
——, Maria (American Literature), I, a 641
——, Preston S., assailant (Sumner), XXII, a 677, a 934 note
——, W. K., zoologist (Tunicata), XXIII, a 648, b 655, b 658
Broom, plant (Botany), (Plate V), IV, a 128; (Brushes), b 362–3
Broom-rape, plant (Botany) (Plate V), IV, a 84; (Parasitism), XVIII, b 269
BROOME, William, translator, IV, a b 335
Brora, loch and town (Sutherland), XXII, a b 764, *a* 765; (Coal), VI, b 50, b 52
Brorsen, astronomer (Zodiacal Light), XXIV, b 835, a 837
——, Hans Adol, poet (Denmark), VII, b 79
Brorsen's Comet, VI, a 172, b 173
Broschi, Carlo, singer (Farinelli), IX, b 31
BROSELEY, town, IV, b 335; (Shropshire), XXI, b 887; (Tiles), XXIII, a 415
Brosna, river (Kings Co., Ireland), XIV, a 89
BROSSES, Charles de, author IV, b 335; (Mythology), XVII, b 144
Brotherhood, court of (Cinque Ports), V, b 687
Brotherhood Engine (Steam-Engine) (Ill.), XXII, a b 540
Brotherhood in arms (Knighthood), XIV, a 118
Brotherhood of man (Jesus Christ), XIII, b 680
"Brother Jonathan," origin of term (Connecticut), VI, a 258; (Trumbull), XXIII, b 629, a 945
Brothers of Charity (Monachism), XVI, b 738
—— of the Common Life (Typography), XXIII, a 729
—— of Humility (Borromeo), IV, a 58
—— of Purity, authors (Arabian Philosophy), II, b 234; (Mohammedanism), XVI, a 615
—— of the Sword, knights (Livonia), XIV, a 731 (Teutonic Order), XXIII, b 218
Brotula, genus (Ichthyology), XII, b 712
Brotulina, group (Ichthyology), XII, b 730
BROUGHAM, Henry, statesman, IV, b 335–43
  ancestry, a b 336
  Canning and the Tories in power, a 340
  Earl Grey's administration, b 340–1
  Edinburgh Review, b 337–8
  educational period, b 336–7
  impressions of, b 335–6
  later years, a b 342
  literary activity, a 343
  Peel and Melbourne, b 341–2
BROUGHAM, *continued*
  political life, early, a b 338
  princess of Wales and Queen Caroline, b 338–9
—— (Bee), III, a 422, b 424; (Cannes), IV, b 712; (Copyright), VI, a 321; (Free Trade), IX, b 664; Lord (Grey), XI, *a* b 171; (Hallam), b 351, note; (Lyndhurst), XV, b 107; (Miller, Hugh), XVI, a 331; (Panizzi), XVIII, b 215, a 216; (Political Economy), XIX, b 389; (Protection), a 839; (Slavery), XXII, a b 148, b 149; (Women), XXIV, a 674
Broughton bay (Corea), VI, a 347
——, Gabriel, physician (India), XII, b 838
BROUGHTON, Hugh, theologian, IV, a b 343
BROUGHTON, John Cam Hobhouse, Lord, IV, b 343–4
BROUGHTON, Thomas, theologian, IV, b 343
Broughty Ferry, town (Dundee), VII, a 463
BROUKHUSIUS or Broekhuizen, Jan, scholar, IV, a 344
Broun, John Allan (Meteorology), XVI, a 168, *a* b 174, b 175, a 178, b 181, *b* 183, *a* 186, a 190, b 191
Brounker, Lord, mathematician (Trigonometry), XXIII, b 609
BROUSSA, Brussa or Bursa, city, IV, a b 344; (Bithynia), III, a 689; (Greece), XI, b 107
——, province (Phrygia), XVIII, b 866
BROUSSAIS, François Joseph Victor, physician, IV, b 344; (Medicine), XV, a 825
Broussel, Pierre, counsellor (Mazarin), XV, b 659
BROUSSONET, Pierre Marie Auguste, naturalist, IV, a 345
Broussonetia, genus (Mulberry), XVII, a 19
BROUWER, Adrian, painter, IV, a 345; (Ostade), XVIII, a b 61; (Teniers), XXIII, b 189
Brouwershaven inlet (Holland), XII, a b 63
Brouzet, physician (Dietetics), VII, a 174
Brow-ague (Neuralgia), XVII, a 373
Brown, mount (America), I, b 595
Brown, Andrew, physician (Sydenham), XXII, b 844
——, Baker, physician (Surgery), XXII, a b 726
BROWN, Charles Brockden, novelist, IV, a b 345; (American Literature), I, b 636; (Periodicals), XVIII, a 555
——, C. B., surveyor (Guiana), XI, a 222, a 223
——, David Paul, lawyer (Rawle), XX, a 896
——, Ford Madox, painter (Rossetti), XX, b 881–2
BROWN, John, abolitionist, IV, b 346; (Slavery), XXII, b 150; (Stuart), a 931; (United States), XXIII, b 820

BROWN, John, clergyman and dramatist, IV, b 315
BROWN, John, of Edinburgh, expositor, IV, a b 346
BROWN, John, of Haddington, theologian, IV, b 345–6; (Haddington), XI, b 324
BROWN John, physician. IV, a 346; (Medicine), XV, a b 823
——, John, physician and essayist (Syme), XXII, b 849
BROWN, Robert, botanist, IV, a 347–8; (Australia), III, a 96; (Botany), IV, b 71; (Embryology), VIII, a 153; (Grasses), XI, a *b* 49, b 51, a 52, b 53; (Morphology), XVI, b 864–5, a 867; (Zoology), XXIV, a 855
——, Robert, naturalist (Polar Regions), XIX, a 336
BROWN or Browne, Robert, controversialist, IV, b 346–7; (Brownists), b 352; (Independents), XII, b 761–2, note
BROWN, Samuel, chemist, IV, a 348
——, Thomas, naturalist (Taxidermy), XXIII, b 95
BROWN, Thomas, psychologist, IV, a 348–9; (Association of Ideas), II, b 640, a 641; (Encyclopædia), VIII, b 183; (Smith), XXII, *a* b 181
BROWN, Thomas, wit, IV, a 348
BROWN, Ulysses Maximilian, general, IV, b 349
BROWN, William Laurence, theologian, IV, b 349
Brown bear, III, a 399
—— coal, VI, b 43–5; (Geology), X, a 213; (Mineralogy), XVI, b 418
—— colors (Dyeing), VII, b 497, b 500, a 501; (Pigments), XIX, b 96–7; cappagh (Pigments), a 97; Vandyke (Pigments), a 97
—— ore (Iron), XIII, a 292
BROWNE, Charles Farrar, humorist, IV, b 349–50; (American Literature), I, b 638, a 639
Browne, George, archbishop (Ireland), XIII, a b 269
BROWNE, Isaac Hawkins, poet, IV, a 350
BROWNE, James, editor, IV, a 350
——, Montagu, naturalist (Taxidermy), XXIII, *a* 96
BROWNE, Peter, bishop, IV, a b 350; (Berkeley), III, b 508
BROWNE, Sir Thomas, physican and essayist, IV, b 350–1; (Birds), III, b 670; (Cremation), VI, b 501; (Echinodermata), VII, b 546; (Ornithology), XVIII, a 13 note; (Pelican), b 485 note; (Titmouse), XXIII, a 447 note; (Turnstone), b 710 note; (Witchcraft), XXIV, b 654, a 655 note
BROWNE, William, poet, IV, a 351; (Epitaphs), VIII, a 439; (Pastoral), XVIII, a 352
BROWNE, William George, traveller, IV, a b 351
Brownies (Apparitions), II, a b 178
BROWNING, Elizabeth Barrett, poet, IV, b 351–2; (Napoleon III.), XVII, b 234; (Poetry), XIX, a 269, *b* 271
——, Robert, poet, IV, a 352; (Innocent XI.), XIII, b 92; (John, Epistles of), a 719
BROWNISTS, sect, IV, b 352–3; (Ainsworth, Henry), I, b 378; (Brown, Robert), IV, b 346
Brownrigg, Ralph, bishop (Gauden), X, b 98
Brown's process for chromeisen (Iron), XIII, a 362
—— rotary squeezer (Iron) (Ill.), XIII, a 336
—— valve-gear (Steam-Engine), XXII, a 527
Brownsea island (Poole), XIX, a 475
Brown-Sequard, Charles Edward, physician (Abortion), I, b 53; (Breeds), IV, b 220; (Epilepsy), VIII, a 427; (Ergot), b 461; (Pathology), XVIII, b 400; (Physiology), XIX, *b* 40, b 42, b 47
Brownson, W. H., explorer (Surveys), XXII, a 939, a 940
Brown University (Libraries), XIV, b 553; (Providence), XIX, a b 909; (Rhode Island), XX, *a* 539
Broye river (Freiburg), IX, b 670
Bruang or Malayan Bear, III, a 399; (Malay Peninsula), XV, b 324
Bruce, The, of Barbour, III, *a* 314, a b 315
Bruce, Christian, princess (Mar), XV, a 532
——, David, king. See David II., Scotland
——, Edward, soldier (Dublin), VII, b 433; (England), VIII, b 281; (Ireland), XIII, a b 266; (Robert), XX, b 609, *a b* 610
——, Sir Frederick, diplomatist (China), V, a b 566
BRUCE, James, explorer, IV, a b 353; (Geography), X, b 168; (Hyæna), XII, b 436; (Nile), XVII, b 521
——, John Collingwood, antiquary (Hadrian, Wall of), XI, b 326, a *b* 327
BRUCE, Michael, poet, IV, b 353–4; (Hymns), XII, *b* 628
BRUCE, Robert, king of Scotland (Robert the Bruce), XX, a 608–11; (Arran), II, a 550; (Bannockburn), III, a 299; (Carlisle), V, a 96; (Dog), VII, *b* 285; (Dumfries), *a* b 456; (Dunfermline), a b 468; (England), VIII, a b 281; (Hartlepool), XI, a 445; (Melrose), XV, a 851; (Scotland), XXI, b 509, a b 510–11, a 512
——, Robert, lord of Annandale (Scotland), XXI, a *b* 508
——, Robert, reformer (Scotland), XXI, b 530, a b 531
Bruce family, Earls of Elgin. See ELGIN
Bruch, Margaret, of Endringen (Stigmatization), XXII, b 577
Brüche, marsh (Germany), X, b 403
Bruchidæ, family (Insects), XIII, b 155–6; (Weevil), XXIV, a b 504
Bruchium (Alexandria), I, a 436; (Libraries), XIV, a b 510
BRUCHSAL, town, IV, a 354
Bruchus pisi, beetle (Coleoptera) (Ill.), VI, a 121
Brucia, alkaloid (Nux Vomica), XVII, b 706
Brucine (Poisons), XIX, b 290
Brucite (Mineralogy), XVI, b 393, a 404
BRUCK on the Leytha, town IV, a 354; on the Mur, town, a 354
Brücke, E., optician (Stereoscope), XXII, a b 566; (Wave Theory), XXIV, b 479
BRUCKENAU, town, IV, a 354
BRUCKER, James, historian, IV, a 354–5
Brude of Fortren, king (Scotland), XXI, b 498
Brude, Mailochon, Pictish king (Scotland), XXI, b 496, b 498
Brudenell, James Thomas, Lord (Cardigan), V, a b 85
Brüderkrieg, war (Saxony), XXI, a 369
Bruder's *Concordance* (Gospels), X, a 748
Brue river (Somerset), XXII, a b 271
Brueys d'Aigalliers, François Paul, admiral (France), IX, a 538; (Nelson), XVII, b 331
——, Peter de. See Bruys
BRUGES, city, IV, b 355–6; (France), IX, b 480; (Hanseatic League), XI, *a b* 402; (London), XIV, *a* 839; (Memling), XV, a 854; (Michel Angelo), XVI, b 239; (Newspapers), XVII, a 441
Brugsch Bey, Heinrich Karl, Egyptologist (Egypt), VII, *a* 607 notes, *a* b 608, b 611, a b 620, b 621, note, *a b* 622, *a* 625, *b* 631, *a* b 732, notes, *a* b 633, a b 634, a b 635, *a* 638, b 641, a 642, a 671; (Hieroglyphics), XI, a b 709, note, *a* 713, b 716, b 722, *a* 723; (Hittites), XII, *b* 28, *a b* 29, a 30
Brühl, Heinrich von, Graf, minister (Saxony), XXI, *b* 370
—— terrace (Dresden), VII, b 404, a 405
Brühl's method (Mercury), XVI, a 37
Bruhns, Heinrich, astronomer (Tables), XXIII, b 15, a 17
Bruises (Horse), XII, a 199
"Bruit de diable" (Vascular System), XXIV, a 116
Brulée Island weir, river Yonne (River Engineering), XX, b 589
BRUMATH or Brumpt, town, IV, b 356
Brun, archbishop of Cologne (Lorraine), XV, a 7
——, Johan, tragedian (Norway), XVII, b 604
——, Malte Conrad, geographer (Denmark), VII, b 80
——, Nordahl, poet (Denmark), VII, a 80
——, Rudolph, chief (Switzerland), XXII, *b* 822; (Zurich), XXIV, *b* 870
Brunanburh, battle of, 937 (Athelstan), II, a 727; (Burnley), IV, b 504; (England), VIII, a 257; (Ireland), XIII, b 258; (Northumberland), XVII, b 584; (Scotland), XXI, a 501
BRUNCK, Richard François Philippe, classical editor, IV, b 356
Brundisium or Brundusium, town (Brindisi), IV, a 313; (Rome), XX, a 770, note
Brune, Guillaume Marie Anne, marshal (Switzerland), XXII, *b* 831
Brunehart's castle (Arcis sur Aube), II, b 420
Brunehaut, queen (Columbanus), VI, b 150
Brunei bay and district (Sabah), XXI, b 131, b 132
BRUNEL, Isambard Kingdom, engineer, IV, b 356–7; (Clifton), VI, a 3; (Shipbuilding), XXI, *b* 852, *a* 862
BRUNEL, Sir Marc Isambard, engineer, IV, *b* 356, b 357–8; (Block Machinery), III, b 724; (Hosiery), XII, b 313; (Tunnelling), XXIII, b 663
BRUNELLESCHI, Filippo, architect, IV, b 358; (Architecture), II, a 382, b 383; (Donatello), VII, *b* 310; (Ghiberti), X, a 506; (Glass), *b* 597
BRUNET, Jacques Charles, bibliographer, IV, b 358
Brunetti's process (Cremation), VI, *b* 50
Brunetto Latini, encyclopædist (Dante), VI, b 712, a 713; (Encyclopædia), VIII, b 175–6; (Italy), XIII, b 511
Brunfels, Otto, physician (Botany), IV, a 70
Brunhild queen (France), IX, b 468
Brunhild of Iceland, heroine (Nibelungenlied), XVII, b 488, *a* 489
Bruni, district and town (Borneo), IV, a 51, *b* 52, *a* *b* 53
BRUNI, Leonardo, historian, IV, b 358–9
BRUNN, city, IV, a 358; (Moravia), XVI, a 837
Brunn, H. (Archæology), II, b 301, a b 303, *b* 304, *a* b 305, b 307, a 309, a 310, b 320
Brunne, Robert of, chronicler (English Language), VIII, b 354; (English Literature), b 365, b 366
Brunnen, Johann, grammarian. See Fons
Brunnenberg, peak (Riesengebirge), XX, b 566
Brunner, John Conrad (Anatomy), I, b 712, b 742
Brunner, glands of (Digestive Organs) (Ill.), VII, a 196, a b 197
Brunner's process (Potassium), XIX, a b 607, a 610
Brünnich, naturalist (Ornithology), XVIII, a 13

BRUNO, Giordano, philosopher, IV, a 359-60; (Evolution), VIII, a 664; (Renaissance), XX, a 398; (Vanini), XXIV, a 74
BRUNO, archbishop of Cologne, IV, a 359
——, missionary to Prussia, IV, a 359
——, St., monk, IV, a 359; (Abbey), I, b 25-6; (Carthusians), V, a *b* 143
Bruno of Lorraine, duke (Germany), X, *b* 434
Brunonian system (Medicine), XV, a b 823; (Brown, John), IV, a 346
Bruns, jurist (Roman Law), XX, b 697 note, a 700 note
Bruns, orientalist (Syriac Literature), XXII, b 875, note, a 876
Brunsmann, Johan, hymnwriter (Norway), XVII, a 604
BRUNSWICK, city, IV, b 361-2; (Hanseatic League), XI, *a* 403
BRUNSWICK, duchy, IV, b 360-1; (Hanover), XI, b 399-400
——, town (Georgia), X, a 391, a *b* 392, a 394
BRUNSWICK, Maine, town, IV, a 362; (Libraries), XIV, a 553
Brunswick peninsula (Patagonia), XVIII, b 357
——, Anton Ulrich, duke of (Germany), X, b 475
——, Charles, duke of, IV, b 361; (Minden), XVI, b 358
——, Charles Frederick, duke of, IV, *b* 361, a 362
——, Ernest the Confessor, duke of, IV, b 361
——, Henry, duke of (Luther), XV, b 80, a 81
——, Henry Julius, duke of (Drama), VII, b 380; (Germany), X, a 474
——, Wilhelm, duke of, IV, b 361
Brunswick Family Group (Rembrandt), XX, b 389
Brunswick-Lüneburg, duchy (Hanover), XI, *a* 400; (Leibnitz), XIV, *b* 419-20
—— ——, Karl Wilhelm Ferdinand, duke of, IV, b 361; (France), IX, b 531, a 532. See FERDINAND, duke
Brunswick - Wolfenbüttel, duchy (Hanover), XI, *a* 400
Brunsword, John, teacher (Shakespeare), XXI, a 788
BRUNTON, Mrs. Mary, novelist, IV, a 362
Bruong Hills (Malacca), XV, b 315
Brus, Robert de, judge (Justice), XIII, b 798
Brusa or Broussa, city, IV, a b 344; (Turkey), XXIII, b 681, a b 682
Brush discharge (Electricity), VIII, b 59
BRUSHES and BROOMS, IV, a 362-3
Brushes (Feathers), IX, a 54; (Fibres, Textile), *b* 116; (Painting), XVIII, a 142, a b 144
Brushite (Mineralogy), XVI, a 421
Brush-Turkey (Megapode), XV, b 836
Brussa, city. See BROUSSA and Brusa
BRUSSELS, city (Ill.), IV, b 363-5; (Academy), I, b 73; (Libraries), XIV, b 530-1, a 551; (Newspapers), XVII, a b 441; (Observatory), b 735; (Police), XIX, b 356
——, Conference of, 1874 (International Law), XIII, a 201
—— Gallery (Crayer), VI, b 491, a 492
——, revolution of, 1830 (Belgium), III, b 455, *a* 456; (Holland), XII, b 86
——, union of (Holland), XII, b 79
Brussels carpets, V, b 114, a 116
—— lace (Ill.), XIV, b 187, a b 189
Brussels-sprouts (Cabbage), IV, *a* 549; (Horticulture), XII, a b 291
Bruston, critic (Revelation), XX, b 513 note, a 514 note, b 515
Brut, chronicle (Layamon), XIV, a 374; (Madden), XV, a b 177
—— *d'Angleterre* (English Literature), VIII, *a* 364; (Grail), XI, a 32
Bruta, Linnæan order (Mammalia), XV, b 386
Brute, The, poem (Barbour), III, a b 314
BRUTON, town, IV, a 365
Bruts, The, chronicles (Celtic Literature), V, a 274, b 284
Bruttians or Bruttii, tribe (Græcia Magna), XI, b 28; (Italy), XIII, *a* 455, b 456; (Numismatics), XVII, b 653; (Rome), XX, a 764, a 770
BRUTUS or Brute, British hero, IV, b 365; (Barbour), III, b 314
Brutus, play (Voltaire), XXIV, *b* 307
BRUTUS, Decimus Junius, general, IV, b 365
——, Decius, consul, 136 B.C. (Spain), XXII, a 321
——, Decius Junius, consul, IV, b 365
BRUTUS, Lucius Junius, consul, IV, a b 365; (Valerius), XXIV, b 47
BRUTUS, Marcus Junius, assassin, IV, b 365; (Augustus), III, b 69; (Cæsar), IV, b 567; (Persia), XVIII, a 578 note
BRUTUS, Marcus Junius, jurist, IV, b 365
Bruun of Odessa, antiquary (Prester John), XIX, a 736
BRUX, city, IV, b 365
——, river (Freiburg), IX, b 670
Bruxelles, city. See BRUSSELS
Bruyère, Jean de la. See LA BRUYÈRE
Bruys or Brueys, Peter de, sectary (Languedoc), XIV, a 288; (Waldenses), XXIV, a 344
Bry, Jean Theodore de, engraver (Dodo), VII, b 278; (Plate), XIX, a 195
Brya Ebenus, tree (Ebony), VII, a 536
Bryanites, sect (Methodism), XVI, b 200
Bryansk, town (Orel), XVII, b 849, a 850
BRYANT, Jacob, author, IV, b 365-6; (Mythology), XVII, a 144
Bryant, William Cullen, poet and journalist, *b.* 1794, *d.* 1878 (American Literature), I, a b 642
BRYAXIS, sculptor, IV, a 366; (Archæology), II, a 315, a 316
Bryce, James, historian (Theophilus), XXIII, b 296, a 297
Brychan, chief (Celtic Literature), V, a 262, a 269
BRYDGES, Sir Samuel Egerton, poet, IV, a 366
Brydydd, Phylip, poet (Celtic Literature), V, b 277
Bryennius, Manuel, musician (Greece), XI, a 131
Bryennius, Nicephorus, general (Byzantine Historians), IV, a 545
Bryher island (Scilly Islands), XXI, a 487
Bryineæ, mosses (Muscineæ), XVII, a 79, *b* 80
Brynglas, battle of, 1402 (Glendower), X, a 605
Bryniulf or Brynjulf, Sveinsson, bishop (Edda), VII, b 563, a 564, a 565; (Iceland), XII, b 662
Bryony, plant (Botany), IV, b 84, b 86, a 124; (Yam), XXIV, b 763
Bryophyllum, plant (Botany) (Ill.), IV, a 87, a 103
Bryophyta, sub-kingdom (Biology), III, b 600, a b 601; (Vegetable Kingdom), XXIV, a 136, a b 140
Bryozoa or Polyzoa, class (Mollusca), XVI, a 655
Brython or Briton, race (Celtic Literature), V, *a* b 261
BRZEZANY, town, IV, a b 366
Bual Wine, XXIV, b 641, a 642
Buam gorge (Syr-Daria), XXII, a 858
Bubalus (Buffalo), IV, a 396
Bubasteia, festival (Bubastis), IV, b 366
BUBASTIS, goddess, IV, b 366; (Egypt), VII, b 622, a 667; city, IV, b 366; (Egypt), VII, a b 634, a 667
BUBBLE, IV, b 366-7; soap (Capillary Action), V, a 51, b 56, b 59-60
—— Act (Company), VI, a b 197
BUBENDORF, village, IV, a 367
Buber, Salomon, Hebraist (Midrash), XVI, a b 299, a 300
BUBNA UND LITTIZ, Ferdinand, count of, general, IV, a 367
Bubo, disease (Surgery), XXII, a 721; (Plague), XIX, b 169, a 170, *a* b 174
Bubo, genus (Owl), XVIII, a 93, a 94
BUBULCUS, Caius Junius, general, IV, a 367
BUC, Sir George, historian, IV, a 367
Bucardus, Joannes (Alexander VI.), I, b 432, a b 433
Buccal ganglia (Mollusca), XVI, a 705; glands (Nutrition), XVII, a 691; nerve (Anatomy), I, b 774
BUCCANEERS, IV, a 367-9; (Geography), X, a 169; (Jamaica), XIII, b 560; (Piracy), XIX, b 126; (West Indies), XXIV, a 538; Morgan's (Panamá), XVIII, b 212
BUCCARI, town, IV, b 369
Bucchu, plant (Hottentots), XII, a 324
Buccina, Roman Trumpet, XXIII, a 630
Buccinator muscle (Anatomy), I, b 734, a 735
BUCCINO, town, IV, b 369
Buccleuch, dukes of (Dumfries), VII, a 454, a 455; (Scotland), XXI, a 516 note; (Selkirk), a 670
——, Sir Walter Scott, earl of (Carlisle), V, b 96
Bucconidæ, family (Puff-bird), XX, *b* 106
Bucellas hock (Wine), XXIV, b 641
Bucephalia, town (India), XII, a 826
Bucephalus, horse (Alexander the Great), I, a 428; (Philippi), XVIII, b 760
——, parasite (Trematoda) (Ill.), XXIII, b 574
BUCER, Martin, reformer, IV, b 369-70; (Luther), XV, b 74, b 84; (Parker), XVIII, a 305; (Sleidanus), XXII, b 168; his wife (Oecolampadius), XVII, b 750
Buceros, genus (Hornbill), XII, b 172, *a b* 173; (Ornithology), XVIII, b 30, note
BUCH, Leopold von, geologist, etc., IV, a b 370; (Gay Lussac), X, b 109-10; (Geology), a 216 note, b 220
Buchan, district (Aberdeenshire), I, b 46, b 47
Buchan, Alexander Stuart, earl of, Wolf of Badenock, (Dunkeld), VII, a 469; (Scotland), XXI, b 512, a b 513; (Stuart), XXII, a 642
——, David, Captain, explorer (Polar Regions), XIX, a 331
——, Isabella, countess of (Berwick), III, b 528; (Robert Bruce), XX, *b* 609
Buchanan, Francis, physician (Gaur), X, b 102 note, a *b* 103, a b 104
BUCHANAN, George, historian, IV, b 370-1; (James I., Eng.), XIII, a 567, (Latin Language), XIV, a 343; (Major), XV, *b* 313; (Montaigne), XVI, a 794; (Ruddiman), XXI, a 56, (Scotland), b 519, a b 521, *b* 527, a 528, a 529, b 567
BUCHANAN, James, president, IV, a b 371; (Foster, S. C.), IX, b 419; (Protection), XIX, b 939; (United States), XXIII, *a* b 820, a b 822; (Walker), XXIV, b 880; his cabinet (Stanton), XXII, b 919
Buchanan, J. Y., physicist, (Geology), X, b 197, a 198, b 255; (Pacific Ocean), XVIII, b 123, b 128; (Sea Water), XXI, a 641 note, a *b* 642, *b* 643, *b* 644, a 645, note; (Sounding), XXII, b 294

Buchanan, Robert, poet (Gray, D.), XI, a 69
Buchan's exhaust cowl (Ventilation) (Ill.), XXIV, a 174
—— trap (Sewerage) (Ill.), XXI, a b 750
BUCHAREST, city, IV, b 371–2; (Roumania), XXI, a *b* 20, b 22, *a* 23, *a* 26
——, peace of, 1812 (Turkey), XXIII, a 690
BUCHEZ, Philippe Joseph Benjamin, author, IV, b 372–3
Büchner, Friedrich Carl Christian Ludwig, materialist (Evolution), VIII, b 671
Buchner, biologist (Schizomycetes), XXI, b 417, note, a 423 note
Bucholzite (Mineralogy), XVI, a 426
BUCHU or Buka leaves, IV, a 373
Bucida, plant (Sandalwood), XXI, b 268
BUCKERBURG, city, IV, a 373; (Lippe), XIV, *a* 690
Bucket dredging, VII, b 400
Bucket-pumps (Hydromechanics), XII, b 565
Buckets (Hydromechanics), XII, b 553–5; (Mining), XVI, a 477
Buckett's gas-engine (Steam-Engine) (Ill.), XXII, b 550
Buckeye, shrub (California), IV, a 624; tree (Horse-Chestnut), XII, b 210
—— engine (Steam-Engine), XXII, a b 922
Buckhurst, Lord. See Dorset, earl of
Buckie boats (Fisheries), IX, b 224
BUCKINGHAM, county, IV, a 373–4
——, town, IV, a 374
——, Edward Stafford, duke of (England), VIII, a 298
BUCKINGHAM, George Villiers, 1st duke of, IV, b 374–6; (Bacon), III, a b 178, *a b* 179, a 180; (Charles I., England), V, b 350–1; (Eliot), VIII, a *b* 129; (France), IX, a b 501; (Henrietta Maria), XI, b 584; (Ormus), XVII, b 882; tomb of (Sculpture), XXI, b 586, note, a 587, note
BUCKINGHAM, George Villiers, 2d duke of, IV, b 376; (Butler), *a* 524; (Dryden), VII, b 423, a 425; (Ireland), XIII, a 274; (Ormonde), XVII, *a* 880; (Wycherley), XXIV, b 741
——, Henry Stafford, duke of (Brecon), IV, b 218, a 219
——, Silk, journalist (Newspapers), XVII, b 443
BUCKINGHAM, William Alfred, governor (United States), XXIII, *a* 822, a 837
BUCKINGHAMSHIRE, John Sheffield, duke of, IV, b 376–7
Bucking-iron, hammer (Mining), XVI, b 484
Buckland, Francis Trevelyan, naturalist (Salmonidæ), XXI, a 237
BUCKLAND, William, dean of Westminster, geologist, IV, a b 377; (Agassiz), I, a 247; (Cave), V, b 232; (Coprolites), VI, a b 313; (Miller, Hugh), XVI, a 332
Buckland church yard (Yew), XXIV, a 782
BUCKLE, Henry Thomas, historian, IV, b 377–80; (Chess), V, b 522; (Ethnography), VIII, a 550; (Pathology), XVIII, a b 367; (Political Economy), XIX, *a* 379; (Smith, A.), XXII, *a* 181
Buckles (Costume), VI, b 420, a b 421, *a* 422
Buckley, Samuel, editor (Thou), XXIII, b 336
Buck mountain coal (Pennsylvania), XVIII, b 511
Buckram, cloth (Textiles), XXIII, b 228
Bucks, county (Buckingham), IV, a 373–4
Buckskin (Gloves), X, a 618
BUCKWHEAT, grain, IV, a 380; (France), IX, *b* 458; (Honey), XII, a 142; (Physiology), XIX, *a* 56; (United States), XXIII, b 877, a b 878
Bucolic poetry (Sicily), XXII, b 26
Bucorvus, bird (Hornbill), XII, a 173
BUCZACZ, town, IV, a 380
Bud, as plant-individual (Morphology), XVI, a 868, a 870
BUDA, town, IV, a b 380; (Hungary), XII, a b 377, *b* 383, *a* 384, a 385, b 387
BUDÆUS or Budé, Guillaume, classicist, IV, b 380; (Erasmus), VIII, b 457; (Rabelais), XX, *b* 200
Budan, mathematician (Algebra), I, b 455
Budantsar, chief (Mongols), XVI, a 767
Buda-Pesth, city (Hungary), XII, *a* b 377, b 379, note, a b 380, a b 381, *a b* 386, b 387, b 388; (Libraries), XIV, a 549; (Newspapers), XVII, b 440, note; (Observatory), b 733; (Pesth), XVIII, b 704, a 705; seminary (Jews), XIII, a 696; university (Universities), XXIII, a 908
BUDAUN, district and town, IV, b 380
Buddaghosha apostle (Burmah), IV, a 494
Buddai, Papuan god (Australia), III, a 99
BUDDÆUS, John Francis, theologian, IV, a 381; (Dogmatic), VII, b 288, a 297
Buddh Gayá, town (Gayá), X, b 108
Buddha Gautama, founder of Buddhism, IV, a 381, b 382 note; (Fig), IX, b 135; (India), XII, a 822 note, b 823, a 828
—— images (Bamian), III, a 265; (Java), XIII, a b 619; (Nara), XVII, b 235–6; (Pearl), XVIII, a 459
Buddha's foot-print (Adam's Peak), I, a 129
Buddhavansa (Buddhism), IV, b 381
BUDDHISM, IV, a 381–2
    Abhidharma or philosophy, b 387–9
BUDDHISM, *continued*
    Benares region, 6th century B.C., b 381
    birth and youth of Gautama, a b 382
    conversion of Gautama's family, a b 385
    councils, early Buddhist, a b 387
    death of Gautama, b 386–7
    Gautama's preaching, b 384–5
    Gautama's religious development, b 382–3
    later extension and history, a 391–2
    lay duty, b 390–1
    legends of Gautama, a b 386
    literature of, b 392
    rules of the Sangha, a 389–90
    Sangha or mendicant order, a 389–90
    sources of information, a b 381
    way of salvation, Buddha's, b 383–4

—— (Afghânistân), I, b 214, b 218; (Asia), II, b 610; (Brahmanism), IV, a 189; (Burmah), a 496; (Cambodia), *b* 640; (Ceylon), V, a 317, b 318; (China), a 560, a b 561, *a* 563, *b* 582; (Christianity), a 601; (Cochin China), VI, a 88; (Corea), *a* 349; (Europe), VIII, a 626; (Evolution), b 667; (Gorakhpur), X, b 694; (Hindūstānī), XI, b 750; (India), XII, b 823–5, a b 829; (Japan), XIII, b 590; (Kashmír) XIV, a 15
—— (Lamaism), XIV, a 227–31; (Lhasa), a b 499, b 501; (Magic), XV, *b* 204; (Manichæism), a 493; (Missions), XVI, a 539; (Mongols), b 770, a 771; (Muttra), XVII, b 120; (Mysticism), a 137; (Oudh), XVIII, b 76; (Oxus), b 104; (Persia), a 610, a 617; (Peshawar), a 699; (Pilgrimage), XIX, a b 101; (Religions), XX, 372, b 380, *a b* 381, a 382, a b 383; (Sanskrit), XXI, a 294, a 296; (Shans), a 810; (Siam), a 893, a b 894; (Tibet), XXIII, b 365, b 366, *a* b 367; (Turks), b 701; (Turkestan), b 680
——, Hindu (Caste), V, a b 166; Tibetan (Kublai Khan), XIV, b 152
Buddhist convents (Balkh), III, a 244; ethics (Cartesianism), V, a 139; Festivals, IX, b 103; law (Pâli), XVIII, b 189; literature (Mongols), XVI, a 778; origin of chess, V, a b 520; Pessimism, XVIII, a b 699, a 702, b 704
—— pilgrimages (Hwen T'sang), XII, a 434–5; printing, early (Typography), XXIII, b 724; remains (Himalaya), XI, b 745
—— Scripture (Buddhism), IV, a 381, b 382, b 388, a 391, b 392; (Pâli), XVIII, a b 189; temples, China (Architecture), II, a b 392; (Java), XIII, a b 619–20
Buddhists (Buriats), IV, a 481; (Hami), XI, a 366; (Incense), XII, b 758; (Jains), XIII, a *b* 553, *a* 554; literary language of (Pâli), XVIII, a 187–90
Budding of plants (Horticulture) (Ill.), XII, a b 217, b 242–3
Budding, reproductive (Actinozoa), I, b 120; (Anatomy), a 741; (Annelida), II, a 62; (Corals), VI, a 327, b 330–1, a b 338; (Polyzoa), XIX, a 449, *a* b 450, a 454. See Gemmation
Buddington, Captain, explorer (Hall, C. F.), XI, *a* 347
Buddle, ore-separator (Mining) (Ill.), XVI, a 487
Buddleia, plant (Peru), XVIII, b 686
Budé, Guillaume. See BUDÆUS
Budenz, Joseph, lexicographer (Hungary), XII, a 390, b 395
Budge, E. A. W., orientalist (Syriac Literature), XXII, a 900
BUDGELL, Eustace, critic, IV, b 392–3
BUDGET, financial statement, IV, a b 393; (Parliament), XVIII, a 319
Budini, tribes (Scythia), XXI, a 602, note; (Slavs), XXII, b 154
Budissin, district (Lusatia), XV, *b* 70
Budjak, district (Bessarabia), III, a 532
Budrum, city (Caria), V, a 91
Buds of Doliolum (Tunicata), XXIII, b 654
—— of plants (Horticulture), XII, a b 217; Endogenous (Botany), IV, b 95; flower- (Botany), b 107; leaf (Botany), a b 85–6; on edges of leaf (Botany) (Ill), a 87; proliferous, propagation by (Horticulture), XII, a 241
BUDWEIS, city, IV, b 393
Buée, Adrien Quentin, abbé (Quaternions), XX, b 167, a b 168
Buell, Don Carlos, general (Thomas), XXIII, *a* 825, *b* 938
Buena Vista, battle of 1847, (Taylor), XXIII, b 102, note, *b* 928; lake (California), IV, b 618
BUENOS AYRES, province, IV, b 393–4; (Argentine Republic), II, a b 436; wars of (Argentine Republic), a 433–4; vice-royalty (Argentine Republic), b 431
—— ——, lake (Patagonia), XVIII, a 358
BUENOS AYRES, city, plan, IV, b 393, a 394–5; (America), I, a 595, b 622; (Argentine Republic), II, a 429, b 430, *a b* 431, *a b* 432–3, a b 435, a 436; (Libraries), XIV, b 535–6, a 554; (Newspapers), XVII, a 449
Buen-Retino gardens (Pottery and Porcelain), XIX, b 560

- Buff, physicist (Electricity), VIII, b 79, a b 83; (Electrolysis), a b 101, b 103, a 105
- Buff, Lotte, inamorata (Goethe), X, *a b* 646, a 656
- BUFFALO, mammal, IV, b 395–6; (Arabia), II, b 211; (Bison), III, a 688; (Egypt), VII, a 617; (Fur), IX, b 735, a 736; (Italy), XIII, a 461; Indian (Ceylon), V, b 315; (India), XII, a 781, a 791; (Java), XIII, a 614 note; (Tiger), XXIII, b 412
- —— bayou (Houston city), XII, *a* 332
- —— river (Transvaal), XXIII, b 549, a 550
- BUFFALO, city, IV, b 396–7; (Horse), XII, b 208–9; (St. Lawrence), XXI, a b 188
- Buff-Dunlop process (Sodium), XXII, b 256
- Buffel-headed duck (Golden-eye), X, a 675
- Buffer, hydraulic (Gunnery), XI, b 278
- BUFFIER, Claude, psychologist, IV, a b 397; (Æsthetics), I, b 198
- BUFFON, George Louis Leclerc, comte de, naturalist, IV, b 397–8; (Bee), III, b 423; (Crystallography), VI, a 595; (Daubenton), a 732; (Evolution), VIII, a 653, b 665; (France), IX, a b 522, b 590; (Franklin, B.), a 627; (Hornbill), XII, b 173 note; (Lamarck), XIV, b 232; (Lighthouse), b 624; (Malesherbes), XV, b 335, a 336; (Monster), XVI, a 789; (Ornithology), XVIII, a 10; (Parrot), b 328; (Sun-bittern), XXII, *b* 686; (Variation and Selection), XXIV, a b 83; (Zoology), *a* 856
- Buffon's problem (Probability), XIX, b 804, a 806
- Buffoon (Fool), IX, a 320; German (Drama), VII, b 380, a 381; Hinder (Drama), b 345
- Buffum (Linseed), XIV, b 683
- Bufo, genus (Amphibia), I, a 668, *b* 673, *b* 675 a 677; (Toad), XXIII, b 450–1
- Buford's militia, slaughter of (Tarleton), XXIII, a 923
- Bufos, players (Minstrel), XVI, a 502
- BUG, cimicidæ family, IV, b 398–9; (Hemiptera), XI, b 576; (Insects), XIII, b 150–60
- "Bug" Bible (English Bible), VIII, a 347 note
- Bug or Bog river (Black Sea), III, a 691, b 692; (Nikolaieff), XVII, *b* 516; (Podolia), XIX, a 266; (Poland), b 318; (Scythia), XXI, b 602, note; (Siedlce), XXII, *a* 42; west, river (Russia), XXI, a 81
- Bugaitae, race (Nubia), XVII, a 627
- Bugat, Paul, naturalist (Hungary), XII, b 395
- Bugeaud de la Piconnerie, Thomas Robert, duc d' Isly, marshal (Abd-el-Kadar), I, a 35; (Algeria), b 500, a 501; (France), IX, a 547; (Guizot), XI, b 240, a 241; (Pelissier), XVIII, a 486
- BUGENHAGEN, Johann or Pomeranus, reformer, IV, a 399; (Episcopacy), VIII, a 436; (Luther), XV, b 77
- Bugey, district (Jura), XIII, b 791, a 792
- Bugge, Elseus Sophus, philologist (Edda), VII, a 564, a 565; (Norway), XVII, b 606; (Scandinavian Languages), XXI, a b 382 notes, b 386 notes, a 387 note, a 388, note
- Buginese language (Celebes), V, *b* 250, *a* 251; (Indian Archipelago), XII, b 857
- Bugis, inhabitants of Boni, IV, a 30; dictionaries, VII, b 166
- Bugle, wind-instrument (Zincken), XXIV, a 827
- Bugle-horn . (Ophicleide) (Ill.), XVII, b 800-1
- Bugles (Bead), III, a 398
- Buglioni, Benedetto, sculptor (Robbia), XX, b 607 note
- BUGULMA, town, IV, a 399
- Bugun, river (Syr-Daria), XXII, a 858
- BUGURUSLAN, town, IV, a 399
- BUHL-WORK or Boulle-work, IV, a 399-400; (Furniture), IX, a 746; (Tortoise-shell), XXIII, b 489
- BUHLE, Johann Gottlieb, historian, IV, a 399
- Bühler, G., orientalist (Sanskrit), XXI, a 290, note, b 291 note, b 292, notes, a 298, note, a b 301 notes, a 306 note
- Buhr-stone (Flour), IX, a 302; (Geology), X, a 212
- BUILDING (Ill., and Plates XX–XXVI), IV, 400–459
    - architecture, a 400
    - brickwork, a 409–18
        - arches (Ill.) (Plate XX), b 415, a b 416
        - ashlar and brick, b 416
        - bonds (Plate XX), a b 412
        - cements, a 410–1
        - chimneys, b 416–7
        - coping and cornices, b 414–5
        - drains (Plate XXI), b 417–8
        - joints and beds, a 413
        - laying walls, b 411–4
        - mortar making, b 411
        - mortar material, b 409-10
        - partition walls, a 414
        - paving, a b 417
        - pointing, a 415
        - rod of brickwork, a 414
        - scaffolding, a b 409
        - tile-roofing, a b 414
        - weather protection of walls, b 413, a 415
        - wood and iron in walls, a b 416
    - cabinet-making, b 447–8
    - carpentry (Plate XXII, XXV), a 426–33
        - beams, building up (Plate XXII), a 427–8
        - floors (Ill.) (Plate XXV), a 431–33
        - girders, a b 432
        - joints Plates XXII, XXIV), b 426-31
        - joints, various forms of (Plate XXIII), a 429
        - mortise and tenon (Plate XXIII, XXIV), b 428, b 430–1
        - partitions, etc., a b 433
        - tying joints (Plate XXIV), b 429–30, a 431
    - general principles of construction, a 400–9
        - abutting struts and beams, b 402
        - ceilings, a 407
        - civic structures, a 404–5
        - completeness of parts, a b 401
        - cuttings (Ill.), a 402–3
        - excavator, a 409
        - flooring, a 404–7
        - foundations, a 405, a b 408
        - partitions, a b 406, b 407
        - protection against fire, b 405-8
        - retaining walls (Ill.), a 402–3
        - stability, b 400–1
        - stairs, b 406–7
        - timber in civic buildings, a 408
    - glazing, b 455–6
    - house-painting, a 457–8
    - index, a b 459
    - joinery (Plate XXVI), b 433-47
        - angle joints (Ill.), b 436–8
        - bending wood, a 438
        - casements (Ill.), b 442–3
        - doors (Ill.), b 439–40
        - fixing work, b 440–2
        - flooring, a b 441
        - framing (Plate XXVI), b 438-9
        - glue, b 437–8
        - joining plain and moulded work (Ill.), b 440
        - materials, b 434–5
        - mortise and tenons (Ill.), a b 439
        - mouldings (Ill.), b 435–6
        - progress of, a b 434
        - sashes, b 442–4
        - skirting, b 441–2
        - stairs (Ill.), b 444–7
        - window shutters, a b 444
    - literature of, b 418, b 425, b 433, a b 447, a 448, a 451, *b* 456–7, b 459
    - mason work, b 418–26
        - decorative masonry (Ill.), b, 423–5
        - landings, b 422–3
        - laying wall, b 420–2
        - paving, a 423
        - scaffolding, a 419
        - steps and stairs, a 423
        - stone in walls not of masonry (Ill.) (Plate XXI), a b 422
        - stones, a 419–20
        - varieties of wall, a b 421
    - modelling, carving and gilding, a b 455
    - paper hanging, a b 459
    - plaster-work, a 451–5
        - artificial marbles, a 455
        - decorative work, b 453
        - lathing, b 451–2
        - materials, b 451–2
        - outside work, a 454–5
        - plastering, b 452-3
        - stucco, b 453
        - walls, plastering on, a b 453
    - plumber-work (Ill.), b 449–51
    - slater-work (Ill.), a 448–9
    - sawyer-work, a 426
    - smith-work and gas-fitting, b 456–7
    - tools, a 409, a 419, b 426, a b 434, a 448, b 449, a b 451, b 455, a 457

- —— (Fir), IX, a 194; (Theatre), XXIII, a 247
- —— acts, English (Building), IV, a 406, a 416; corporations (Freemasonry), IX, b 657, a 658, a 659
- Building materials (Japan), XIII, a 583; durability of (Teak), XXIII, a 111, note; Rome (Architecture), II, a 364; (Rome), XX, b 825–6; Venice, XXIV, a 161–2
- BUILDING SOCIETIES, IV, a 459–61; (Birmingham), III, a 682; (Protection), XIX, a 934; (Working-men, U. S.), XXIV, a 918, b 920
- —— stone, cinder (Iron), XIII, b 314
- —— stones (Devonshire), VII, b 121; (Westmorland), XXIV, *a* 544; expansion of (Geology), X, b 235
- Buildings (Dairy) (Ill.), VI, a b 678; (Libraries), XIV, a 536–7; (Railway), XX, a 243–6; Roman (Fresco), IX, b 676; (Rome) (Ill.), XX, b 826-9
- Buildwas abbey (Shropshire), XXI, b 887
- Buile Mor, village (Iona), XIII, b 209
- Built-up guns (Gunmaking) (Ill.), XI, a 256–7
- BUITENZORG, city, IV, a 461; (Batavia), III, b 373
- BUJALANCE, town, IV, a 461
- Buká'a valley (Lebanon), XIV, *b* 392, b 393, a *b* 394, a 395
- Bukeeff, race (Russia), XXI, a 87
- Bukhara or BOKHARA, IV, a 3–5
- Bukhtarma, river (Tomsk), XXIII, a b 466, a 467
- Bukit Tinggi, town (Sumatra), XXII, b 672
- Bukken Fjord (Norway), XVII, a 590
- BUKOWINA, duchy, IV, a b 461; (Roumania), XXI, b 25

Bulacan, town, IV, b 461
Bulæus or Du Boulay, author, XXIII, b 914
Bulak, Boolak or Boulak, town (Cairo), IV, *b* 572, a *b* 573; (Egypt), VII, b 667, b 680
— Museum (Jewellery), XIII, b 686; (Mariette), XV, *a* 550; (Mummy), XVII, b 26, b 27, a 28
Bulandshahr, district and town, IV, b 461–2
Bulanes, people (Poland), XIX, a 296
Bularchus, painter (Archæology), II, a 309
Bulbar paralysis (Pathology), XVIII, b 401
Bulbhouders Bank, mountain (Cape Colony), V, a 38
Bulbils of plants (Botany), IV, a 88; (Lichens), XIV, b 556; (Reproduction), XX, b 435–6
Bulbocodium, plants (Horticulture), XII, b 257
Bulbous plants (Grasses), XI, b 48; (Horticulture), XII, b 240, a 246, *b* 256; (Reproduction), XX, a 436; propagation of (Horticulture), XII, b 240
Bulbs (Botany), IV, a 88; potting (Horticulture), XII, a 246
Bulbuls, Ixidæ (Birds), III, b 640–50
Bulbus aortæ (Ichthyology) (Ill.), XII, b 696, a 697
Bulecomba department (Celebes), V, b 250, a 251
Bulgar-dagh, mountains (Asia Minor), II, a 616
Bulgari, sect (Paulicians), XVIII, a 445
Bulgaria, country, IV, a 462–3; (Mœsia), XVI, a 566; (Opium), XVII, a 812; (Roumelia), XXI, b 27, note; (Russia), XXI, *b* 110; autonomy of (Turkey), XXIII, a b 693, a 694
Bulgarian Church (Greek Church), XI, a 141; Dictionaries, VII, b 163; language (Slavs), XXII, a 158–9
— massacres, 1876 (Turkey), XXIII, a 693; Romanists (Roman Catholic Church), XX, b 646; villages (Land), XIV, a 263; wars (Greece), XI, b 103
Bulgarians, people (Crusades), VI, a 556; (Huns), XII, b 397; (Isaac II.), XIII, a 385; (Michael I. and IV.), XVI, b 234, a 235; (Russia), XXI, *a* 86, a 87, b 88; (Slavs), XXII, a b 153, a *b* 156, b 157
Bulgarin, Thaddaus, author, IV, a 463
Bulgaris, Eugenios, philosopher (Greece), XI, b 131
Bulgaro-Vlach or Bulgaro-Wallachian empire (Greece), XI, a 106, a 107; (Vlachs), XXIV, a b 289
Bulgars, tribe (Mongols), XVI, b 767
Bulgarus or Bulgarinus, jurist, IV, a 463
Bulgurlu, mountain (Scutari), XXI, b 600
Bulibani, town (Bondu), IV, a 29
Buliminina (Protozoa), XIX, b 870
Bulk (Elasticity), VII, a 692, a 699, a 707
Bulkheads (Navy), XVII, b 292–3, b 298; (Shipbuilding), XXI, a b 853, *b* 854–5
Bull in primitive religions (Cattle), V, a 213, b 215; sacred (Apis), II, a 152–3; (Egypt), VII, b 620
— baiting (London), XIV, a 858; breeding (Agriculture), I, a 344, a 346; fights (Goya y Lucientes), XI, a b 21; (Poseidon), XIX, a 574
—, brazen (Phalaris), XVIII, b 743
Bull, papal. See Bulls, papal
Bull, Edward, inventor (Steam-Engine), XXII, b 494; (Watt), XXIV, b 435
Bull, George, bishop, IV, b 463
Bull, John, composer, IV, b 463
Bull, W. T., physician (Surgery), XXII, a 727
Bulla, genus (Mollusca) (Ill.), XVI, a b 679
Bulla, ornament and seal, IV, b 463; (Bulls and Briefs), a b 465; (Costume), VI, a 403; (Seals), XXI, b 613, b 616
Bullæ circumscriptionis, edicts (Concordat), VI, a 216
Bullaria (Bulls, etc.), IV, b 465
Bull-dog, VII, a 287
"Bull-dog," cinder (Iron), XIII, b 328
Bulle, town (Gruyère), XI, b 200
Bullen, Anne. See Boleyn
Buller, Charles, politician (Grote), XI, a 190, a 191
—, Sir Walter, naturalist (Honey-Eater), XII, a 143 note; (Kiwi), XIV, a 108; (Ornithology), XVIII, a 20; (Zosterops), XXIV, *b* 863 note
Bullers of Buchan (Aberdeenshire), I, b 46
"Bullet, the seventh," legend (Weber), XXIV, b 495
Bullets, rifle (Gunmaking) (Ill.), XI, b 249–50
Bullfinch, bird, IV, b 463–4; (Birds), III, a 653, b 655, a 660; (Finch), IX, b 167
Bullfrog, Rana pipiens (Amphibia), I, a b 670, a 671; (Frog), IX, a 699, a 700
Bull-head, fish (Ichthyology), XII, b 728; (Miller's Thumb), XVI, a 333
— rails (Railway) (Ill.), XX, a 251, a 252–3
Bullidæ, family (Mollusca), XVI, b 679
Bullinger, Heinrich, reformer, IV, a 464; (Socinus), XXII, *a* 241
Bullion, IV, a 464–5; (Mint), XVI, a b 508; exports and imports, effects of (Banking), III, a 280
Bullom country (Sierra Leone), XXII, b 49; Dictionary, VII, b 167
Bull-pine, forests (United States), XXIII, b 860
Bull-Run or Manassas, battle of, 1861 (Stuart), XXII, a 931; (United States), XXIII, a b 823; second battle, 1862 (United States), a 826
Bulls and Bears (Account), I, a 87
Bulls and Briefs, papal, IV, a 465; (Diplomacy), VII, *a b* 221; (Huss), XII, a *b* 420; (Hussites), b 422; (Jansenism), XIII, a 576–7; (Jesuits), *b* 663, a 664, a b 665, *b* 666; (Seals), XXI, b 616 note; (Wycliffe), XXIV, *b* 745 note, a 746; burning of (Luther), XV, a 76; *Unigenitus* (Clement XI.), V, a 719
Bull's process (Iron), XIII, b 355
Bull's-eyes (Mirror), XVI, a 523
Bull steam-engine (Mining), XVI, a 480
Bull-terrier (Dog), VII, b 287
Bully Cashtel, town (Castletown), V, b 173
"Bully Rock" (Horse), XII, a 207
Bülow, Cosima von, widow (Wagner), XXIV, a 337
Bulow, Friedrich Wilhelm, general, IV, b 465
Buloz, François, editor (Periodicals), XVIII, a 551, note
Bulrush, plant (Reed), XX, a 332
Bulsar, town (Surat), XXII, b 701
Bulungan, river (Borneo), IV, b 50
Bulusan, volcano (Philippine Islands), XVIII, a 763
Bulwer, Sir Henry Lytton Earle, Baron Dalling, diplomat, IV, b 465; (Dalling and Bulwer), VI, b 687–90; (Palmerston), XVIII, b 199, a 202; (Talleyrand), XXIII, b 35, b 37
Bulwer, John, physician (Deaf and Dumb), VII, *b* 7
Bulwer-Lytton, Sir Edward George Earle, novelist, IV, b 465; (Derby), VII, b 96
Bum, Great, river (Sierra Leone), XXII, a 51
Bunárbashi, village (Troad), XXIII, a 616, b 617, a 618, a b 619
Bünau, Henry von, historian (Winckelmann), XXIV, a 629
Bunbury, William, satirist (Caricature), V, b 92
Buncal, weight (Weights and Measures), XXIV, a 518
Bunch grass (Idaho), XII, a 736
Bunda or Angola Dictionary, VII, b 167
Bundehish (Pahlavi), XVIII, b 140, note
Bundela chiefs (Lalitpur), XIV, b 226
Bundelás, race (Bundelkhand), IV, a *b* 466; (Hamírpur), XI, a b 378; (Jaláun), XIII, b 557
Bundelkhand or Bundelcund, IV, b 465–6; (Hamírpur), XI, *a* b 378; (Jaláun), XIII, b 557; (N. W. Provinces), XVII, b 585, *a b* 586, a 587
Bundeslieder (Hymns), XII, a 622
Bundesrath, council (Germany), X, *b* 416–7; (Switzerland), XXII, a 834
Bundes-Rathhaus (Bern), III, b 518
Bundi, state, IV, b 466
Bundle sheath (Botany) (Ill.), IV, a 83
Bungarus, species (Snakes), XXII, b 207
Buniva, Michele, physician (Pinerolo), XIX, b 115
Bun-jel, god (Mythology), XVII, *b* 153
Bunker Hill, battle, 1775, IV, b 466–7; (Prescott), XIX, a 926; (United States), XXIII, b 789, a 790; (Warren), XXIV, a *b* 885; monument (Webster), XXIV, b 498
Bunnoo, district (Edwards), VII, a 596
Bunodonta, fossils (Mammalia), XV, *b* 435
Bunotheria, fossils (Mammalia), XV, b 448
Bun-raj (Fibres, Textile), IX, a 116
Bunsberg, hill (Schleswig-Holstein), XXI, a 432
Bunsen, Christian Charles Josias, Baron von, scientist, IV, a 467–70
    English mission, b 468–9
    literary retirement, b 469–70
    Prussian politics, a b 469
    Roman legation, b 467–8
    youth and school days, a 467

— (Gnosticism), X, *b* 627; (Hare, J. C.), XI, a 427; (Hymns), XII, a 623; (Thirlwall), XXIII, a 326
—, Robert Wilhelm Eberhard, chemist (Chemistry), V, a 408, b 418, b 472, a 473; (Electrolysis), VIII, b 103, b 105; (Filter), IX, b 149; (Flame), *b* 248; (Geology), X, *a* 224, b 230; (Geysers), *b* 497, a *b* 498; (Gunpowder), XI, a b 288, a 295; (Lithium), XIV, b 703; (Methyl), XVI, b 205; (Oxyhydrogen Flame), XVIII, a 190; (Potassium), XIX, *b* 609
Bunsenite (Mineralogy), XVI, a 401
Bunsen's batteries (Electricity), VIII, *b* 13, a 88; burners (Furnace), IX, b 744; calorimeter (Heat), XI, b 496; photometer (Gas and Gas-lighting), X, b 90; (Light), XIV, a 588
Bunt, parasite (Agriculture), I, b 315
Bunter, group (Geology), X, *b* 312, b 313
Bunting, Jabez, theologian, IV, b 470; (Methodism), XVI, b 197, b 198
Bunting, bird, IV, a b 470; (Birds), III, a 648, a 649, a 655, b 664; (Ortolan), XVIII, a 57; eggs of (Birds), III, a 671
Bunya-bunya tree (Queensland), XX, a b 180
Bunyan, John, IV, b 470–4
    allegories, a b 473
    Bedford jail, a b 472
    conversion, b 471–2
    imitations and criticisms of, a 474
    last years, b 473–4
    youth, b 470–1

— (English Literature), VIII, a 378; (Mandeville), XV, a 482
Bunzlau, Bohemia, town, IV, b 474

BUNZLAU, Silesia, town, IV, a b 474
Buochsersee, lake (Lucerne), XV, a b 43
Buonacorsi, Blaisio, historian (Poland), XIX, b 301
——, Piero, painter (Vaga), XXIV, a 36
BUONAFEDE, Appiano, economist, IV, b 474
Buonaparte. See BONAPARTE and NAPOLEON
Buonarroti, Ludovico. See MICHEL ANGELO, XVI, b 237, b 238
Buoncompagno, Ugo. See pope GREGORY XIII.
Buondelmonti, family (Dante), VI, a b 713
Buon fresco (Ghirlandajo), X, a 508
Buoni Uomini government (Rome), XX, b 812
Buononcini, Giovanni Battista, composer (Handel), XI, *a* 389; (Music), XVII, a 100; (Rondeau), XX, b 863
——, Mark Antonio (Music), XVII, a 100
Buonvicini, Domenico, monk (Savonarola), XXI, b 325, *a b* 353, *a* 354
BUOY, float, IV, b 474–5; (Lighthouse) (Ill.), XIV, a b 632
Buoyancy (Lifeboat), XIV, a 574; centre of (Shipbuilding), XXI, a b 849; curves (Hydromechanics), XII, b 460, note
BUPALUS and ATHENIS, sculptors, IV, a 475; (Archæology), II, a 305
BUPHONIA, festival, IV, a 475
Buphthalum, plants (Horticulture), XII, b 257
Bupleurum, plant (Botany) (Ill.), IV, a b 102, a 103, a 108
Buprestidæ, beetles (Coleoptera) (Ill.), VI, b 113, a 117, a 120
Burábalang, river (Balasor), III, b 235
Buræch, town. See BHARAICH
Buræus, Johannes, antiquary (Scandinavian Languages), XXI, a 388; (Sweden), XXII, a b 792
Bu Rakrak, river (Rabat), XX, *b* 198
Burano, island (Lace), XIV, b 185, b 187
Burans or snow-storms (Siberia), XXII, a 11
Burbage, James, actor (Shakespeare), XXI, *b* 796, a 797; (Theatre), XXIII, *a* 243, note
——, Richard, actor (Shakespeare), XXI, a 787, a 792, a 797, a 802
——, F. W., traveller (Indian Archipelago), XII, a b 856, note; (India-rubber), a b 880
Burbot, fish (Ichthyology) (Ill.), XII, a 675, a 688, a 704, a 714, a 730
Burcardus, Joannes (Alexander VI.), I, b 432, a b 433
Burchard of Worms, bishop (Canon Law), V, b 17
Burchell's Zebra, XXIV, *b* 810–1
Burckhardt, Johann Karl, mathematician (Tables), XXIII, *b* 11, a 12, a 18; Comet of, VI, b 171
BURCKHARDT, John Ludwig, traveller, IV, a b 475; (Arabia), II, b 204, b 214; (Ouseley), XVIII, a 79; (Petra), b 719
Burdeana, Jacob. See Baradæus
Burdekin, river (Queensland), XX, a 178, a 180
BURDER, George, divine, IV, b 475
BURDETT, Sir Francis, politician, IV, b, 475–6; (Cobbett), VI, a 78; (Dundonald), VII, a b 466
Burdett-Coutts, Angela Georgina, Baroness, philanthropist (Coutts), VI, a 470; (London), XIV, a b 838
Burdie House limestone (Geology), X, b 307, b 308
Burdigala, town. See BORDEAUX
Burdigalense Itinerarium, XIII, b 527
Burdock, plant (Thistle), XXIII, b 327
Burdon, Rowland, engineer (Bridges), IV, b 300
Burdon-Sanderson on electrical energy of plants (Physiology), XIX, a 64
Burdwan, district. See BARDWAN
Bureau, Louis, naturalist (Puffin), XX, a b 107
—— de Bienfaisance (Paris), XVIII, b 287
—— of Labor Statistics (Workingmen in U. S.), XXIV, a 919
Buren, Idelette van (Calvin), IV, a 635
Bureya, mountains (Maritime Province), XV, a 555; (Russia), XXI, a 74; (Siberia), XXII, a 8, a 9
BURG, town, IV, a 476
BURGAGE, property tenure, IV, a 476
Burgberg, mountain (Harzburg), XI, a 454
BURGDORF, town, IV, a 476
Burgee dynasty (Egypt), VII, b 656–7
BURGER, Gottfried August, poet, IV, a 476–7; (Germany), X, b 483; (Munchausen), XVII, *a* 29
Bürgergeneral (Goethe), X, b 651
Burgers, president (Transvaal), XXIII, a 552
Bürgerschulen (Prussia), XX, b 21–2
BURGERSDYK or Burgersdicius, Francis, logician, IV, a 477
Burges-les-Bains (Bourbon-l' Archambault), IV, b 158
Burgess, citizen (Municipality), XVII, b 33, a 34, a *b* 36; (Parliament), XVIII, b 310, a 311, a 312, b 313; English (Borough), IV, *a* 56; franchises of (Burgage), a 476; Scotch (Borough), b 56
BURGESS, Daniel, preacher IV, a 477
——, Ebenezer, orientalist (Trigonometry), XXIII, b 596
BURGESS, Thomas, bishop, IV, a b 477
Burgesses, House of, Virginia (Jefferson), XIII, *b* 624, *a* 625
Burgh, Hubert de, Earl of Kent (Scotland), XXI, *a* 507
Burghaz or Bourgas, bay (Black Sea), III, a 691
Burghers, citizens (Spain), XXII, b 340; Swiss (Switzerland), XXII, a 831, b 832
Burghers, sect (Brown), IV, *a* 346; (Erskine), VIII, b 467, a b 468; (McCrie), XV, b 133; (Presbyterianism), XIX, b 718; (United Presbyterian Church), XXIII, a b 776
Burghley or Burleigh, William Cecil, lord, V, a 246–7; (Bacon), III, a 173, *a* b 174, note; (Elizabeth), VIII, b 134
Burghs (Scotland), XXI, a b 561; of regality and barony (Borough), IV, a 57; rise of royal (Scotland), XXI, b 505, *b* 506, note
Burghi, Justus. See Byrgius
BURGKMAIR, Hans or John, engraver, IV, b 477
BURGLARY, crime, IV, b 477; (Sacrilege), XXI, b 148
Burgo, Lucas de, mathematician (Algebra), I, a 451, *b* 452
Burgomaster, title (Holland), XII, a 75; (Poland), XIX, b 323
Burgon, archæologist (Numismatics), XVII, b 647, b 648; Amphora of (Pottery and Porcelain) (Ill.), XIX, b 629, a 630
BURGOS, city, IV, b 477–8; province (Spain), XXII, b 307, a 310, b 312, b 315, b 318. See Cathedral of Burgos
BURGOYNE, John, general, IV, b 478; (Clive), VI, b 12; (Drama), VII, b 378, note; (Portugal), XIX, a 565; (Stark), XXII, b 920; (United States), XXIII, a 792; (Warner), XXIV, a 884
——, Sir John, general (Junius), XIII, a 787
BURGOYNE, Sir John Fox, general, IV, b 478
Burgum, Henry, pewterer (Chatterton), V, b 386, a b 387, b 388
Burgundian crown (Coronation), VI, a 380; type (Typography), XXIII, a 739; war (Switzerland), XXII, a b 825–826
Burgundians, people (France), IX, b 466; (Germany), X, b 427; (Valentine), XXIV, b 42
——, political party (France), IX, b 483, a 484
BURGUNDIO, jurist, IV, b 478
Burgundionum Lex (Salic Law), XXI, a 226; (Roman Law), XX, b 731, b 734
BURGUNDY, duchy (Map), IV, b 478–9; (Dauphiné), VI, b 734; (France), IX, b 468; (Germany), X, a 437, a 440, a b 445; (Ghent), b 504–5; (Henry II., emp.), XI, b 594; (Heraldry), b 623, b 624; (Wines), XXIV, b 638–9; literary activity in (Typography), XXIII, a 725. See Bourgogne
Burgundy, House of (Belgium), III, a 454; (Barante), a 308; (Capet), V, a 50; (Fénelon), IX, b 64, a 65; (France), b 483; (Franche Comté), b 605; (Holland), XII, a b 76; (Ivrea), XIII, b 535; (Paris), XVIII, a b 296
——, Philip of, bastard (Gossart), X, b 749, *a* b 750
—— pitch, medicament (Fir), IX, b 194, b 195; (Frankincense), IX, a 626
BURHÁNPUR, town, IV, b 479–80; (Gwalior), XI, b 308
Burhon, island (Channel Islands), V, a 340
Buria Gandak basin (Tibet), XXIII, a 362
BURIAL and BURIAL ACTS, IV, a b 480
—— (Andaman Islands) II, b 12; (Barrows), III, a 344; (Catacombs), V, b 185–6; (Cremation), VI, a b 501; (Copts), b 314; (Friendly Societies), IX, a b 685; (Funeral Rites), a b 724; (India), XII, a b 816, a 820, a 828; (Mordvinians), XVI, a 840; (Mummy), XVII, b 26; (New Guinea), a b 398; (Nonconformity), b 546; (Parish), XVIII, a b 302; (Paris), b 289; (Parsis), b 331, a b 332; (Registration), XX, b 356; (Scythia), XXI, b 603; (Siam), XXI, a *b* 893; (Tibet), XXIII, b 365. See FUNERAL RITES, Tombs
—— customs, Greek (Charon), V, b 372; Indian (America), I, b 606; Neolithic (Cave), V, a b 234; pollution from (Cemetery), V, a b 286–7; Roman (Acerra), I, a 88
—— Service, English (Hymns), XII, a 618
—— tax (Finance), IX, b 159
Burial of Sir John Moore (Wolfe), XXIV, b 663–4
Burias, island (Philippines), XVIII, a 766
BURIATS, Mongolian race, IV, b 480–1; (Irkutsk), XIII, a b 283; (Mongols), XVI, b 772, a b 776; (Siberia), XXII, b 13, *a* 14; (Transbaikalia), XXIII, b 542, *a* 543
——, language of (Dictionary), VII, a 167; (Mongols), XVI, a b 777, b 778; (Ural Altaic), XXIV, b 5, a 7
BURIDAN, Jean, philosopher, IV, a b 481; (Scholasticism), XXI, b 448
Burigangá, river (Dacca), VI, a 667, *a* 668
Burí Lohit, river (Assam), II, *b* 628
Burin, tool (Engraving), VIII, b 391
Burj-i-'Alam Khan, town (Sistán), XXII, a 108, a 109
Burke, Sir Bernard, antiquary (Precedence), XIX, b 680 note, *b* 682 notes, *b* 683 notes, a 684 note
BURKE, Edmund, IV, b 481–91
    Fox and North coalition, b 486–7
    French revolution, b 487–90
    Hastings, impeachment of, a b 487

BURKE, *continued*
  literary career, early, a 482-3
  North's administration, b 485-6
  origin and education, b 481-2
  policy of George III., a b 483, a b 485
  resources and associates, a b 484
  retirement, years of, a 491
  rhetorical and literary gifts, b 484-5
  Richard Burke, b 490
  rupture of Fox and Burke, a b 489-90
  secretaryships, a b 483
  Temple terms, a 482

—— (Æsthetics), I, b 200; (Barry), III, *a* 345; (Bristol), IV, b 316; (Brocklesby), *a* 323; (Chatham, Earl of), V, *b* 383, b 384; (Corn Laws), VI, *a* 364; (Crabbe), *b* 478; (Demosthenes) VII, a 64; (England) VIII, a b 320, *a b* 321 *a* b 323; (Franklin, B.), IX, a 628, a 629; (Goldsmith), X, a 678, *b* 679, *a* 680; (Gray), XI, a 170; (Hastings), *b* 460; (Johnson, S.), XIII, a 737, a 740; (Junius), a b 785, b 786; (Knighthood), XIV, b 127; (Milton, John), XVI, b 350; (North), XVII, b 567; (Paine), XVIII, a 141; (Pitt), XIX, a b 146, a b 147, b 148, b 149, a 153, a 154; (Rockingham), XX, b 631; (Trade), XXIII, a 529
——, Richard, son of Edmund, IV, *b* 490
BURKE, Robert O'Hara, explorer, IV, a b 491
——, William (Burke, Edmund), IV, b 482, b 484, a 487, b 490
Burke and Wills, explorations of (Australia), III, b 91, a *b* 92
Burkes or De Burghs of Connaught (Ireland), XIII, b 265, a b 266
Burkhan-Budha mountains (Tibet), XXIII, a 363
Burkhard, bishop (Würzburg), XXIV, a 740
Burkhardt I., count (Swabia), XXII, a 767
——, George. See Spalatin
Bürkli, K., historian (Winkelreid), XXIV, b 645
Burlador de Sevilla (Don Juan), VII, b 309
Burlaki, laborers (Volga), XXIV, a 301
Burlamacchi, Francesco, patriot (Lucca), XV, a 41; (Medici), b 800
——, Philip, postmaster (Post-Office), XIX, a b 579
BURLAMAQUI, Jean Jacques, jurist, IV, b 491
Burleigh, lord. See CECIL
Burleigh rock-drill (Blasting), III, a 702
Burlesque (A'Beckett), I, a 37; (Drama), VII, a 376, a b 378, a 379; (Philips), XVIII, a 768; (Phrenology), b 858, note; modern (Italy), XIII, a 518, a 520
Burling, William, abolitionist (Slavery), XXII, b 908
Burlington, town. See BRIDLINGTON
BURLINGTON, Iowa, IV, b 491-2
BURLINGTON, New Jersey, IV, b 491
BURLINGTON, Vermont, IV, b 491; XXIV, a b 181, *a b* 182
Burlington and Missouri railroad (Nebraska), XVII, a 318, a 319
—— bay (Hamilton, Canada), XI, b 367
—— House (London), XIV, a 845, b 846, a 861; (Schools of Painting), XXI, b 465
——, Richard Boyle, Earl of. See BOYLE
BURMAH (Map), IV, a 492-9
  bibliography, b 499
  boundaries and rivers, a b 492
  British wars, a 497-8
  explorations, b 498-9
  history, b 496-9
  industrial features, a b 495
  inhabitants, b 493
  language and literature, b 495-6
  money, weights and calendar, b 495
  political features, b 493-5
  productions, natural, b 492-3
  religion and education, a 496

—— (Alompra), I, b 525; (Birds), III, b 660; (Chess), V, b 519; (India), XII, a b 769, a 773, a 777, b 779, b 780, *a* b 781, *a* 784, b 785, b 791, a *b* 798, a *b* 800, *b* 804, a b 805, a 808, b 813; (Missions), XVI, a 541; (Ordeal), XVII, a 842; (Pâli), XVIII, a b 187, a 188, b 189; (Shans), XXI *a* 810; (Teak), XXIII, a *b* 111, *a* b 112; Weights and Measures, IV, b 495-6; XXIV, a 518
——, Buddhist conversion of (India), XII, a b 824
——, language of (Dictionary), VII, a 166; (Judson), XIII, a 776; (Tibet), XXIII, a 368 note; Catholic missions in (Propaganda), XIX, a 883; monarchy of (Umbrella), XXIII, a 770; mines (Ruby), XXI, a 54; pagoda of Shoëmadoo (Architecture) (Ill.), II, b 348; people of (Burmah), IV, b 493; wars (Assam), II, a 628; (Henzada), XI, b 604; (India), XII, a 845, b 847, a 848; (Kublai Khan), XIV, b 152; (Thún-Khwa), XXIII, b 351
BURMAH, BRITISH, IV, b 499-501; (Dalhousie), VI, a 685; spoliation of (India), XII, a *b* 845, a 848
BURMANN, Pieter, editor, IV, a b 501; (Anthology), II, b 93, a 94
Burmeister, Karl Hermann Konrad, naturalist (Insects), XIII, b 153, b 160; (Mollusca), XVI, a 655; (Ornithology), XVIII, a b 30, note, a 31; (Seriema), XXI, *b* 709, note
Burn, Richard, jurist (Ecclesiastical Law), VII, a 543, note; (Poor Laws), XIX, b 484-5, b 488, b 495, a 496
Burnaby, Sir William, governor (Honduras, British), XII, b 137
Burnell, A. C., philologist (Sanskrit), XXI, a 291, note, b 301 note, a b 302, notes, a 306 note, a 307 note
Burnens, François, naturalist (Huber), XII, b 341
Burners (Gas and Gas-lighting), X, b 88-90; (Lamp), XIV, b 245-7; (Lighthouse) (Ill.), b 623, a b 625, b 632-3
BURNES, Sir Alexander, traveller, IV, b 501; (Afghânistân), I, a 207, a 210, b 212, a *b* 215, a 219; (India), XII, *b* 846; (Persia), XVIII, a 629
Burness, William, peasant (Burns), IV, a b 505
Burnet, herb (Horticulture), XII, a 302
BURNET, Gilbert, bishop, IV, b 501-3; (English Literature), VIII, a 379; (Gardiner), X, b 70; (Leighton), XIV, a 428, a 429; (Records), XX, a 327; (Russell), XXI, *a* b 72; (Scotland), *b* 538; (Sharp), a 817; (Tillotson), XXIII, *a* 417
——, Gilbert, Jr. (Hutcheson), XII, a 424, a 427
——, John, engraver (Wilkie), XXIV, b 599, b 600, b 601
BURNET, THOMAS, divine, IV, a b 503
——, Sir Thomas, judge, IV, a 503
——, William, governor (Oswego), XVIII, a 68
Burnett river (Queensland), XX, *a* 178
——, James. See MONBODDO
Burnett's uranium process (Photography), XVIII, b 844
BURNEY, CHARLES, essayist, IV, b 504
BURNEY, Charles, doctor of music, IV, b 503-4; (D'Arblay), VI, a b 723; (Hawkins), XI, b 478; (Organ), XVII, a 862; (Palestrina), XVIII, b 183; (Pianoforte), XIX, b 80, b 81, a 87
——, Frances. See D'ARBLAY
——, James, admiral, IV, a 504
Burnham, Sherburne Wesley, astronomer (Telescopic Works), XXIII, a b 935
Burning of brick, IV, b 250
Burning glasses (Anthemius), II, b 91; ancient (Light), XIV, b 581; mirrors (Archimedes), II, b 332
—— of the vanities (Savonarola), XXI, b 351-2
—— well, Kentucky (Natural Gas), XVIII, b 894
Burnishers (Hand Tools), XI, b 392
Burnishing (Brass), IV, a 197
BURNLEY, town, IV, b 504; (Coal), VI, a b 49
BURNOUF, Eugène, orientalist, IV, b 504-5; (Buddhism), IV, b 381, b 384 note, a b 388, note, b 392; (Inscriptions), XIII, a 125
BURNOUF, Jean Louis, philologist, IV, a 505
Burns, injury (Surgery), XXII, a 716
BURNS, Robert, poet, IV, a 505-9
  critical estimate, b 506-8
  Edinburgh episode, a 506
  editions of, b 508-9
  Ellisland farm, b 506
  lyric character of, b 508
  peasant life, a b 505

—— (Chambers), V, b 330; (Currie), VI, a 632; (Dumfries), VII, a b 454, b 455, a 456; (English Literature), VIII, b 382; (Fergusson, R.), IX, a b 77, a 78; (Gross), XI, b 186, a 187; (James I., Scotland), XIII, a 566; (Mackenzie), XV, a 160; (Nairne), XVII, a 174; (Poetry), XIX, b 284; monuments to (Ayr), III, a 143; (Edinburgh), VII, b 579; (Kilmarnock), XIV, a 79
Burns well, Butler Co. (Natural Gas), XVIII, a 897
BURNSIDE, Ambrose Everett, senator (United States), XXIII, a 826, a 837; (Lincoln), XIV, a 667
Burnt clay (Horticulture), XII, b 238
—— Iron, XIII, b 365
BURNTISLAND, town, IV, a 509
Burnt offerings (Altar), I, b 562
—— river (Oregon), XVII, a 846
Burnt Umber, color (Pigment), XIX, a 97
BURR, Aaron, politician (United States), XXIII, a 805, b 806, a b 837; (Hamilton), XI, b 369; (Jefferson), XIII, a b 627; (Tammany Society), XXIII, *a* 920; (Vanderlyn), XXIV, a 876; (Wilkinson), a 898
Burra islands (Orkney), XVII, b 870
Burra-Burra mines (South Australia), XXII, b 298
Burren, barony (Clare), V, *b* 701, a b 702
Burring Wool, XXIV, a 692
Burrisal, town. See BARISAL
Burr-Oak, XVII, b 712
Burro Peak (Utah), XXIV, b 24
Burros, mules (Mexico), XVI, b 904, a 907
Burrough, Stephen, explorer (Polar Regions), XIX, b 328
Burrow, Reuben (Algebra), I, a 456
Burrowing beetles (Coleoptera), VI, a b 115
—— process (Teredo), XXIII, a 202
—— Snakes, XXII, b 199, *b* 202, b 204
Burrows (Hamster), XI, a 387; (Platypus), XIX, a 226
Burrus, Afranius (Nero), XVII, b 357, a b 358
Bursa, city. See BROUSA
Bursaries (Belgium), III, a b 449

Burschenthum clubs (Universities), XXIII, a 904
Burse, Exchange (London), XIV, a 858
Bursee, town. See BARSI
Bursell, Major, editor (Newspapers), XVII, a 445
BURSLEM, town, IV, a 509; (Stafford), XXII, a 460
Bursting of cylinders or spheres (Strength of Materials), XXII, a b 639
Burtaases, people (Saratoff), XXI, a 320
Burton, Decimus, architect (London), XIV, a 833
——, Hezekiah, bishop (Cumberland), VI, b 618
——, John Hill, historian (Ireland), XIII, a 255; (Scotland), XXI, b 509 note, a 514 note, b 522 note, a 533 note
——, Richard Francis, traveller (Cameroons), IV, b 656; (Gaboon), X, b 4, *a* b 5; (Gipsies), a 546, *a* 551; (Harar), XI, *a* *b* 406; (Tanganyika), XXIII, a b 50; (Thousand and One Nights), b 338
BURTON, Robert, author, IV, a b 509; (Tobacco), XXIII, a 455
—— Dassett Hills (Warwick), XXIV, b 399
—— Head, peak (York), XXIV, a 784
Burton and Speke (Africa), I, b 221
BURTON-ON-TRENT, town, IV, b 509–10; (Brewing), *a* 237, a 244, a 246; (Stafford), XXII, b 459, *a* 460; (Bridges), IV, a 298
BURTSCHEID, town, IV, b 510
BURU, island, IV, b 510–1
Burullos, town (Buto), IV, b 525
Búrúns, tribes (Senaar), XXI, a 690
Buruts, people (Ferghana), IX, a b 75. See Buriats
BURY, town and borough, IV, a 511
——, Richard de, bishop (Aungervyle), III, a 75
BURY ST. EDMUNDS, town and borough, IV, a b 511; (Edmund, king), VII, b 580; (Suffolk), XXII, *b* 655
Burzil, pass (Kashmir), XIV, b 12
BUSBECQ, Augier Ghislen de, diplomatist, IV, b 511; (Goths), X, b 757–8, note; (Persia), XVIII, a 648
BUSBY, Richard, teacher, IV, b 511; (Pell), XVIII, b 486
BUSCA, town, IV, b 511
Buscapie, El (Cervantes), V, b 306
Busch, Julius Hermann M., biographer (Hesekiel), XI, a 694
BUSCHING, Anton Friedrich, geographer, IV, b 511–2
Buseirah, El-, town (Bozrah); IV, *b* 168
Busenbaum, Hermann, theologian (Casuistry), V, b 177
Bushahr, town. See BUSHIRE
Bush colubrides (Snakes), XXII, a 203
Bushell, J. W., orientalist (Tibet), XXIII, b 369, b 370
Bushey, village (Watford), XXIV, b 432
BUSHIRE or Bushahr, town, IV, a b 512
BUSHMEN, nomadic tribes, IV, b 512–3; (Africa), I, b 236; (Dance), VI, a 703, a 704; (Guiana), XI, a b 224; (Hottentots), XII, b 326, a 327; (Mythology), XVII, a b 143, a 151, b 152, a 154, a 163; (Religions), XX, a b 375
——, language (Philology), XVIII, a 792; land (Cape Colony), V, *a* 38, *a* 40
BUSHNELL, Horace, theologian, IV, b 513; (Tappan), XXIII, b 922
Bush-rope, Bauhinia, plant (Botany) (Ill.), IV, a 91
Büsingen, enclave (Schaffhausen), XXI, b 403
BUSIRIS, mythical king, IV, b 513–4
——, Egyptian town, IV, a 514; (Egypt), VII, a 667
Busiris (Isocrates), XIII, b 402, a 403
Busk, G., palæontologist (Gibraltar), X, *b* 521
Busrâh or Bostra, city (Bashan), III, a 354
Busse, island (Polar Regions), XIX, b 328
Bussone, Francesco, soldier (Carmagnola), V, a 101
BUSSORAH, Balsora, Bassorah or Basra, city, IV, a b 514–5; (Arabian Philosophy), II, b 234; (Euphrates), VIII, b 588, a b 589; (Harírí), XI, *a* 429; (Mesopotamia), XVI, a b 56; (Mohammedanism), b 585, a 587, a b 589, a b 594, a 595, a 598, a 606
—— gum, XI, b 244
Bussy-Rabutin, Roger de. See RABUTIN
Bustamente, Anastasio, president (Santa Ana), XXI, a 905
Bustamite (Mineralogy), XVI, b 434
Bústán, poem (Persia), XVIII, b 671; (Sa'di), XXI, a *b* 151
Bustar, state. See BASTAR
BUSTARD, land-fowl, IV, a 515–6; (Birds), III, b 633, b 638, a 643; (Mammalia), XV, b 368; (Ornithology), XVIII, a b 49
Busti, Agostino, architect (Milan), XVI, a 304
BUSTO ARSIZIO, town, IV, a 516
Busts (Houdon), XII, a 328; (Numismatics), XVII, *b*. 645
Bustuarii (Gladiators), X, a 563
Busum Prah, river (Gold Coast), X, b 672
BUTADES, modeller in clay, IV, a 516; (Archæology), II, a 304
Butan or Boethos, king (Egypt), VII, a 634
Butane or tetrane (Chemistry), V, a b 483, b 484
BUTCHER-BIRD, IV, a 516; (Shrike), XXI, a 885
Butchers (London), XIV, b 837, *a* 838; Roman (Abattoir), I, a 13
BUTE, county of, IV, a 516–7
——, island, IV, *a* *b* 516–7; acquisition of (Scotland), XXI, a 506
Bute, family (Cardiff), V, b 82, *a* 83
BUTE, John Stuart, marquis of, premier, IV, b 517–8; (Chatham), V, a 383; (Johnson, S.), XIII, a 736; (Lansdowne), XIV, *a* 290; (United States), XXIII, *a* 785; (Wedderburn), XXIV, *a* 502; (Wilkes), *b* 597
——, John Patrick Crichton Stuart, marquis of (Glasgow), X, a 574
Bute Docks (Harbors and Docks), XI, a b 416, a b 419
Butea, plants (Kino), XIV, a 93
Buteo, bird (Buzzard), IV, b 536–7
Buthrotum, town (Butrinto), IV, b 525
Buti, Lucrezia, mistress (Lippi), XIV, b 690
Butilin, chief (Narses), XVII, *a* 240
BUTLER, Alban, hagiologist, IV, b 518
——, Arthur G., naturalist (Arachnida), II, b 245, a 247, a 253, a b 254
——, Benjamin Franklin, general (United States), XXIII, b 825, b 827
BUTLER, Charles, author, IV, b 518; (Fox, C. J.), IV, b 440, a 441
——, James. See Ormonde
——, James, of Tipperary, lord palatine (Thurles), XXIII, b 353
——, John, British assassin (Sullivan), XXII, b 932
BUTLER, Joseph, bishop, IV, b 518–23
    Analogy, The, b 519–21
    bibliography, a 523
    biographical sketch, b 518–9
    deism, English, a b 521
    ethics, a 522–3

—— (Analogy), I, b 695; (Balaam), III, b 224; (English Literature), VIII, a b 384; (Ethics), a 528–9; (Hume), XII, a 362; (Hutcheson), *a* 425, *a* 426, a 427; (Independents), *b* 766; (Mencius), XVI, *b* 9; (Pessimism), XVIII, b 700
BUTLER, Samuel, poet, IV, a 523–5; (English Literature), VIII, a 378; (Wycherley), XXIV, b 741
——, Sir Thomas, navigator (Hudson, H.), XII, a 347
——, Walter, colonel (Tavernier), XXIII, a 90
BUTLER, William Archer, historian, IV, a b 525
——, colonel, assassin (Wallenstein), XXIV, *b* 350
BUTO, goddess and town, IV, b 525; (Egypt), VII, a 623
Butomus, plant (Botany) (Ill.), IV, b 122, a b 123, b 137
BUTRINTO, town, IV, b 525
Butschetje or Butshetsh, mountain (Carpathian Mountains), V, a 112; (Transylvania), XXIII, a 555
Bütschli, O., naturalist (Protozoa), XIX, b 859, b 860, *b* 877, *a* b 879, *b* 880 note, a b 881, a b 883, b 884, b 885, a b 888, a *b* 891
Butt, Isaac, lawyer (Landlord and Tenant), XIV, a b 277, note
Buttafuoco, Matteo, traitor (Napoleon I.), XVII, *a* *b* 200
Buttauf, basin (Galilee), X, *a* 26
Butte City, Montana (United States), XXIII, b 869
BUTTER IV, b 525–7; (Adulteration), I, b 155–6; (Cork), VI, b 360; (Dairy), a b 679–80; (Ghee), X, b 502; (Milk), XVI, b 316, a 317, a 318; (Oils), XVII, a b 761, b 764; (Oleomargarine), a b 782; tests (Glycerine), X, a 622
Butter, Nathaniel, editor (Newspaper), XVII, b 424, note
Butter-Ball, duck (Golden Eye), X, a 675
Butterbur, plant (Heliotrope), XI, a 566
Butter Cocoa, XI, a b 93
Buttercup, plant (Ranunculus), XX, b 284–5
Butter Cross (Leominster), XIV, b 454; figures (Lhasa), a 501
BUTTERFLIES AND MOTHS (Ill. and Plates XXVII-XXXI), IV, a 527–32
    cabinet collection, b 531–2
    classification of butterflies, b 529–30
    of moths, a 530–1
    distribution and food, a b 529
    metamorphoses, a b 528–9
    protective mimicry, b 527–8
    structure, a b 527

—— (Acclimatization), I, b 82; (Insects), XIII, a 148, b 157; (Himalaya), XI, a 745; (Malay Peninsula), XV, b 324; (Mimicry), XVI, a 353, a 354, a 356; (Turkestan), XXIII, a 676; (Microscope) (Ill.), XVI, a 274; wings, color of (Light), XIV, a 614
Butterfly head-dress (Costume) (Ill.), VI, b 416, a 417
Butterine (Butter), IV, b 526
Butterjungfer, statue (Zerbst), XXIV, b 820
Buttermilk (Milk), XVI, a 317
Butter Nut, XVII, a b 683; forests (United States), XXIII, a 860
Butter Towers (Rouen), XXI, *a* 17
Butterwort (Insectivorous Plants) (Ill.), XIII, a b 144
BUTTMANN, Philipp Karl, philologist, IV, a 532
BUTTON, IV, a 532–3; brass (Gilding), X, a 531; -holes (Sewing-Machines), XXI, b 920; mandarins' (China), V, b 580; manufacture of (Glass), X, a 594
——, Sir Thomas, explorer (Polar Regions), XIX, b 329
Buttresses (Architecture), II, b 404, b 408, b 413; (Building), IV, *b* 400, b 401, a 402; Gothic (Architecture), II, a 374; Norman (Architecture), II, b 373

Butt-slings (Seamanship) (Ill.), XXI, b 621
Butyric acid (Chemistry), V, *a* 494; (Nutrition), XVII, b 696
Butwardesley, town (Broseley), IV, b 335
BUXAR or Baxar, town, III, a 393
Buxine, alkaloid (Bibirine), III, b 547
Buxtehude, Deitrich, composer (Music), XVII, b.104
BUXTON, town (Ill.), IV, b 533-4
BUXTON, Jedediah, prodigy, IV, b 534
BUXTON, Sir Thomas Fowell, philanthropist, IV, b 534-5; (Garrison), X, *a* 78; (Prison Discipline), XIX, b 768; (Slavery), XXII, *b* 149, b 152, b 153
BUXTORF, John, Hebraist, IV, a b 535, *a b* 536; (Targum), XXIII, b 70
BUXTORF, John, Jr., Hebraist, IV, *b* 535-6
——, 3d John James, Hebraist, IV, a 535
Buxus, plant (Boxwood), IV, b 164-5
Buyantu Khan (Mongols), XVI, a-b 769
Búyid dynasty (Mohammedanism), XVI, a-b 610; (Seljuks), XXI, b 666; (Shi'ıtes), XXII, a 698
Buys-Ballot's law of the winds (Atmosphere), III, a 27, a 31; (Meteorology), XVI, a 152, a 153, a 160
Buzareingues, Giron de, physiologist (Dream), VII, a 395
Buzrah or Bostra, city. See BOZRAH
BUZZARD, bird, IV, b 536-7; (Birds), III, b 648; (Hawk), XI, a 477
"Buzzard" (Horse), XII, a *b* 188
Buzzard's bay (Massachusetts), XV, *a* 618
Buzzes, glides to and from (Speech-Sounds), XXII, b 397
Byadeit, council (Burmah), IV, b 493-4
Byblis, plant (Insectivorous Plants), XIII, a b 140, a 144
Byblos or Byblus, city (Jebeil), XIII, b 623-4; (Numismatics), XVII, a 667; (Phœnicia), XVIII, b 815, a b 816, a 817, a 821, a b 822; (Temple), XXIII, a b 182; inscription (Semitic Languages), XXI, a 676, note, a 679
—— or papyrus, plant (Egypt), VII, b 616; (Papyrus), XVIII, b 235, a 236
Byelaya river (Ufa), XXIII, a *b* 764
Byeleff or Bieleff, town, III, a 577; (Tula), XXIII, b 642
Byelo-ozero, lake (Novgorod), XVII, b 621
Byelovyesh Pushcha, forest (Lithuanians), XIV, b 707
Byelukha peak (Tomsk), XXIII, a b 466
Byelyi, town (Smolensk), XXII, a 193
—— Gorod, suburb (Moscow), XVI, b 883, a 885
"Byerly Turk" (Horse), XII, a *b* 186, a b 188
Byers, painter (Raeburn), XX, b 225
Bye-wash or waste channel (Hydromechanics), XII, b 493-5, b 549
Byezhestsk, town. See BIEZHETZ
Byington, C., philologist (Choctaws), V, b 591
By-laws (Corporation), VI, a 384
Byles, J. B., judge (Protection), XIX, a 938, a 941
Byllinge, Edward, Quaker (Penn), XVIII, b 504; (Quakers), XX, b 158
Bylot, Robert, explorer (Polar Regions), XIX, b 329
BYNG, George, viscount of Tarrington, admiral, IV, a 537
BYNG, John, admiral, IV, a b 537; (France), IX, a 518; (George III.), X, a 380
Byngovskiy iron works (Neviansk), XVII, b 378
RYNKERSHOEK, Cornelius van, jurist, IV, b 537; (International law), XIII, b 197, b 200, a 202
Byrd, William, colonel (Petersburg), XVIII, a 716
——, William, composer (Tallis), XXIII, a b 39
Byrgius, Justus, mathematician (Logarithms), XIV, a 782; (William IV. of Hesse), XXIV, *b* 307
Byrichrite (Mineralogy), XVI, b 407
Byrne or O'Brien, giant (Hunter), XII, b 403, note
——, Nicholas, editor (Newspapers), XVII, a 428
——, Oliver, mathematician (Tables), XXIII, b 17
——, philologist (Ural Altaic), XXIV, a 6
Byrne's objective (Telescopic Work), XXIII, a 934
BYROM, John, poet, IV, b 537; (Hymns), XII, a 629; (Shorthand), XXI, b 876
Byron, Anna Isabella, Lady (Byron), IV, b 541-2
BYRON, George Noel Gordon, Lord, poet, IV, b 537-44
  ancestors, b 537-8
  appearance, personal, a 544
  Cambridge University, b 538
  Childe Harold period, a 539-41
  childhood, a b 538
  critical estimate, b 542-4
  Edinburgh Review, a 539
  Italian life, a b 542
  marriage, b 541-2
  Thyrza, a 540
—— (Broughton), IV, b 343, a 344; (Cambridge), a 646; (Copyright), VI, b 319; (D'Orsay), VII, a 320; (Drama), a 379; (English Literature), VIII, b 385, a 386; (Finden), IX, b 168; (Foscari), a 416; (Goethe), X, a 655; (Grattan), XI, b 56; (Greece), b 111, a *b* 135; (Hunt), XII, *a* 399; (Luddites), XV, a b 59; (Missolonghi), XVI, b 547; (Moore, Dr. J.), a 830; (Pessimism), XVIII, b 698; (Poetry), XIX, a b 269; (Rogers), XX, b 636, a b 637; (Rousseau), XXI, b 32; (Schopenhauer), b 473; (Shelley), *a* 826, b 828, *a b* 829
——, *Life of Lord* (Moore), XVI, a 834; Countess Guiccioli's *Recollections of Lord* (Stowe), XXII, b 930
BYRON, John, admiral, IV, a 544; (Byron, Lord), a 538; (Falkland Islands), IX, a 15; (Micronesia), XVI, b 268
——, William, Lord, duellist, IV, *a* 538
Byrranga mountains (Yeniseisk), XXIV, a b 779
Byrrhidæ, beetles (Coleoptera), VI, a 119
Byrsa, citadel (Carthage), V, b 142
Byssacci (Lichens), XIV, a 556
Bysshe Vanolis, pseudonym (Thomson), XXIII; a 333, note
Byssolite (Mineralogy), XVI, b 435
Byssus gland (Mollusca), XVI, b 713; (Mollusca), b 710; (Mussel), XVII, a 117
BYSTROM, Johann Nicolaus, sculptor, IV, b 544
Bytown (Ottawa), XVIII, b 72
Byzantine Architecture, II, b 369, a b 376, b 380-1; (Venice) (Ill.), XXIV, b 160, a b 167
—— art (Glass), X, b 579-80; (Illumination), XII, a 746; (Meteora), XVI, b 119; (Mural Decoration), XVII, b 49-50; (Sculpture) (Ill.), XXI, a 583-4
—— chronicles (Agathias), I, b 248
—— coins (Numismatics), XVII, a 646, a b 672
—— empire (Greece), XI, b 95-6, a 102-8; (Italy), XIII, b 477-8; (Malatia), XV, a 323; (Miniature), XVI, a b 457; (Mohammedanism), a 585, a 590, b 596; (Monachism), b 734; (Monreale), a b 786; (Mosque), a b 892; (Neoplatonism), XVII, *b* 343; (Rome), XX, b 800; (Vlachs), XXIV, a b 289
BYZANTINE HISTORIANS, IV, b 544-6; (Ducas), VII, a 436
—— influence (Schools of Painting), XXI, a 451
—— jewellery (Filigree), IX, a 144
—— literature (Greece), XI, b 106, b 129-31; (Libraries), XIV, b 513
—— (Metal-work), XVI, *a b* 80
—— mosaics, XVI, a 879, a 881
—— painting (Tempera), XXIII, b 173
—— Plate, XIX, a 194
—— School of Medicine, XV, a b 814; (Surgery), XXII, b 709
—— Schools of Painting, XXI, a 468
—— weaving (Textiles), XXIII, a b 226
BYZANTIUM, city, IV, b 546-7; (Enamelling), VIII, a 168; (Numismatics), XVII, b 656; (Phocion), XVIII, b 812, a 813; (Thrace), XXIII, a 339; conquest of (Venice), XXIV, b 154-5
Bwàr, Rodrigo Diaz de. See Cid
Bwool, district (Celebes), V, a 250, b 251, a 252

C, the letter, IV, a b 547; pronunciation of (Latin), XIV, a 331, note
Caa, plant (Maté), XV, a 634, note
Caaba, stone. See Kaaba
Cab or cabriolet (Carriage), V, b 119-20; (London), XIV, b 832
CABAGAN, town, IV, b 547
Cabal (Acrostic), I, a 113; (Buckingham, 2d Duke of), IV, b 376; (Cabinet), a 550 note; of Naples (Domenichino), VII, b 302
Cabala (Alchemy), I, a b 407, b 408; (Evolution), VIII, a 659, b 663
Cabale und Liebe, play (Schiller), XXI, *a* 413
Cabalistics (Alabaster, William), I, a 390
Caballarius, title (Knighthood), XIV, a *b* 113, a 114
Caballarias or Book of Chivalry (Spain), XXII, a 369
Caballero, Fernan, novelist. See FABER
——, Josef Antonio, marquis, politician (Spain), XXII, a 357
Caballo, mountains (New Mexico) XVII, a b 410
Cabalus, bird (Ocydrome), XVII, b 743
Cabanis, J. L., naturalist (Ornithology), XVIII, b 20, a 21 note, b 33, note, b 34, note; (Woodpecker), XXIV, a 687
CABANIS, Pierre Jean George, physiologist, IV, b 547-8; (Mirabeau), XVI, a 520; (Tracy), XXIII, *b* 528, a 529
Cabaños, president (Honduras), XII, a 136
CABARRUS, François, financier, IV, b 548
CABATUAN, town, IV, b 548
CABAZERA, town, IV, b 548
CABBAGE, plant, IV, b 548-9; (Agricultural), I, a 327, b 328-9; (Botany), IV, b 102, a 103, b 138; (Channel Islands), V, a 340; (Horticulture), XII, b 291; (Kerguelen's Land), XIV, a 51
—— Butterfly, IV, a *b* 528, b 529
—— of the Palm, XVIII, b 194, a 195
——, preservation of (Horticulture), XII, b 308
Cabbala, book. See KABBALAH
CABENDA, Cabinda or Kabinda, town, IV, b 549
Cabernet Wines, XXIV, b 636
CABET, Étienne, communist, IV, b 549
Cabetes, Indians (Brazil), IV, b 205
CABEZA DEL BUEY, town, IV, b 549
Cabeza de Vaca, explorer (Narvaez), XVII, a 241; (New Mexico), b 411. See Vaca

Cabeza de Valle, region (Bolivia), IV, *a* 12
Cabiadis on the Plague, XIX, a 170, a 171, a b 172
CABINET, ministry, IV, b, 549-51; (England), VIII, b 234-5, a 268, b 315-6; (France), IX, a 450; (Government), XI, b 12-3; (Mansfield), XV, b 506; (Ministry), XVI, b 494, a 495; (Pitt), XIX, b 146; (Prussia), XX, b 22; (Spain), XXII, b 318; (United States), XXIII, b 798, a 803
Cabinet collections (Arachnida), II, b 262-3; (Butterflies), IV, b 531-2; (Coleoptera), VI, b 121-2; (Dragon-Fly), VII, b 636
Cabinet-making, furniture (Building), IV, b 447-8; (Furniture), IX, a b 747; (Olive), XVII, b 783, b 784; (Orange), b 835-6; (Riesner), XX, a b 566
—— of Proteus (Magic), XV, a 208
CABIRI, in Mythology, IV, b 551-2; (Hermes), XI, a 670; (Phœnicia), XVIII, a b 816; (Samothrace), XXI, a 263
Cabirus, myth (Hephæstus), XI, *a b* 605
CABLE (Ill.), IV, a b 552; (Anchor), II, b 5-6; (Anjengo), II, b 52; (Cane), IV, a 711; (Rope), XX, a 866, a b 867; (Seamanship), XXI, b 625, b 626
—— cars (Tramway) (Ill.), XXIII, b 540-1; holder (Capstan), V, b 70; laid rope defined (Seamanship), XXI, b 632; laid twine (Rope), XX, b 867
—— length, nautical, IV, a 552; slipping (Seamanship), XXI, b 627; guarranty of (Warranty), XXIV, b 393
Cable, George W., novelist (Reformatories), XX, b 901-2
—— elevator (Lifts), XIV, a b 578
Cables, telegraph, Atlantic (Morse), XVI, b 874; diffusion through, (Heat), XI, *b* 519, b 523, b 525; insulated (Telegraph), XXIII, b 121-2, *b* 123, b 131, a 133; testing (Telegraph), XXIII, b 125-6, b 126-7; working of (Telegraph) (Ill.), XXIII, a 134-5
Caboche, Jean, assassin (Paris), XVIII, a 296
Cabochians, party (France), IX, b 484
Cabo Corso, town (Cape Coast Castle), V, b 37
—— de Honduras, cape (Honduras), XII, a 136
Cabot, John, IV, b 552, *a* 553; navigator (Labrador), XIV, b 177; (Vespucci), XXIV, b 208, a 209
Cabot, John and Sebastian (Geography), X, 163-4
CABOT, Sebastian, navigator, IV, b 552-3; (Argentine Rep.), II, *b* 430, b 431; (Plate), XIX, a 199; (Prince Edward Island), b 760
Cabotville (Chicopee), V, a 534
CABRA, town, IV, b 553
Cabral, Gonzalo Velho, navigator (Azores), III, a 147
——, Pedro Alvarez, navigator (Brazil), IV, b 204-5; (Gama), X, *a* 53; (Geography), a 162; (India), XII, b 835
Cabras, town (Canary Islands), IV, b 706
Cabrera, island. See CAPRERA
—— or Goat Island (Balearic Islands), III, b 240
Cabrillo, João, navigator (California), IV, b 615
Cabrit (Antelope), II, a 91
CABUL or Kabul (*q.v.*), city, IV, b 553-4; province, b 554; river (Indus), XII, b 888; (Punjab), XX, b 112; route to India (Kandahar), XIII, a 845
Caburet, mongrels (Negro), XVII, a 329
Cacao. See COCOA
Caçapava, town (Brazil), IV, *a* 202
Cacatuidæ, family (Cockatoo), VI, b 90
Cacatuinæ, birds (Parrot), XVIII, a 329
Caccabis, bird (Partridge), XVIII, b 338, notes
Caccia del Falcone (Medici), XV, a 797
Caccianimici. See pope LUCIUS II.
Cacciatore's seismometer (Earthquake), VII, a 529
Caccini, Giulio, composer (Music), XVII, b 93-4
Caccio-cavallo, cheese (Italy), XIII, b 461
Caceres, province (Spain), XXII, b 312, *a* b 315, a 317
CACERES, city, IV, b 554
Cachalot, whale (Mammalia), XV, b 399; (Whale) (Ill.), XXIV, a b 554
CACHAO, city, IV, b 554-5
Cácháris, tribe (Nowgong), XVII, b 624
CACHEO or Cachao, town, IV, a 555
Cachexia, disease (Malaria), XV, a b 320, b 322; (Parasitism), XVIII, b 275; (Pathology), a 405
Cachina, Zuni dance (Pueblo Indians), XX, b 889
CACHOEIRA, town, IV, a 555
Cacholong, mineral (Mineralogy), XVI, a 406
Cacimbo, season (Congo), VI, a 236
Caci Scala or stairs (Rome), XX, a 831, note
Cacodyl, arsenical derivative (Chemistry), V, a 501
CACONGA or Kakongo, kingdom, IV, a 555
Cacoxene (Mineralogy), XVI, b 422
Cactaceæ, plants (Botany), IV, b 84; (Cactus), a b 555; (United States), XXIII, b 862
CACTUS, plant, IV, a 555-6; (America), I, b 601; (Bolivia), IV, b 12; (Botany), a b 75, a 76, b 78; (Horticulture), XII, b 274-5; (Mexico), XVI, a 217, b 226, b 230
CADAHALSO, Jose de, poet, IV, b 556
Cadamosto, Alvise, navigator (Geography), X, a 161
Cadastral surveys (Italy), XIII, a 457, note
Cadaval, Duke of, 1687 (Portugal), XIX, *b* 564
Caddis-fly (Insects), XIII, a 158
—— worms (Hymenoptera), XII, b 609
Caddos, tribes (Indians), XII, a 873
"Cade" (Horse), XII, *a* 187
——, Jack, rebel (England), VIII, a 294; (Ireland), XIII, b 267; (London), XIV, b 852
Cadency marks (Heraldry), XI, b 628-9
Cader Idris, mountain (Merioneth), XVI, *b* 43
Cadets (Navy), XVII, a 303; (West Point), XXIV, a 892
Cadi or Kádí, judge (Mohammedanism), XVI, b 612, b 613-a 614; (Sunnites), XXII, b 696, a 699
Cadibona, Coldi (Alps), I, a b 545, a 548
Cadiz, province (Spain), XXII, b 309, a 310, b 312, a 314
CADIZ, city (Plan), IV, b 556-8; (Observatory), XVII, a 734; (Wellington), XXIV, *b* 523, *a* 524
Cadmea, citadel (Thebes), XXIII, a b 248
Cadmilus, hero (Cadmus), IV, a b 559
CADMIUM, metal, IV, a 558-9; (Chemistry), V, a b 456, *b* 457; (Mineralogy), XVI, b 408; (Zinc), XXIV, *a* 825; spectrum (Spectroscopy), XXII, b 390
Cadmus, mount (Asia Minor), II, a 617; (Caria), V, *b* 90; (Laodicea), XIV, b 293
CADMUS, hero, IV, a b 559; (Alphabet), I, b 535; (Greece), XI, b 82, a 83; (Harmonia), a 430; (Illyria), XII, b 747; (Phœnicia), XVIII, a 819; (Thebes), XXIII, *a* b 249; (Thera), b 300
Cadoor, district. See KÁDUR
Cadore, district (Titian), XXIII, a 441, a b 442, a 443
——, Da, painter. See TITIAN
Ca'd'Oro, palace (Venice) (Ill.), XXIV, b 167, a 168
Cadoudal, Georges, insurgent (Chouans), V, a 597
Cadres (Army), II, b 496; German (Army), II, a 521
CADUCEUS, symbol, IV, b 559; (Mercury), XVI, b 36
Caduciary laws (Roman Law), XX, b 722-3, b 729
Cadusian expedition of Artaxerxes II. (Persia), XVIII, a 590
Cadwaladyr, king (Celtic Literature), V, a b 275
Cadwallawn, king (Celtic Literature), V, *a* b 275
Cadwgan, prince (Eisteddfod), VII, b 686
Cadzow forest (Cattle), V, *b* 213
Cæciliæ, order (Amphibia), I, b 657, a b 658, a 660, a 675, b 677; (Reptiles), XX, a b 447
Cæcilian, bishop of Carthage (Donatists), VII, a b 311
Cæcilius Africanus, Sextus, jurist (Roman Law), XX, a 702
——, Statius, dramatist (Drama), VII, b 355; (Terence), XXIII, a 204
Cæcius or Tzetzes, poet (Greece), XI, a *b* 130
Cæcuban wine (Fondi), IX, a 316
Cæcum (Digestive Organs), VII, a b 198; (Horse), XII, b 183; (Mammalia), XV, b 365; of Nautilus (Mollusca), XVI, b 701; (Nemertines), XVII, *a* b 339
CÆDMON, poet, IV, b 559-61; (England), VIII, b 253; (English Language), b 351, 359; (English Literature), a 362; (Scotland), XXI, *a* 498; paraphrase of (Bible), III, a 560; (English Bible), VIII, a 342
Cædwalla, king (England), VIII, b 251, a 252
Cælestium Revolutionibus Libri VI., De Orbium (Copernicus), VI, b 307
Cælian Hill (Rome), XX, a 750
Cælius, Antipater, annalist (Livy), XIV, a 735-6
——, Sedulius, poet (Ireland), XIII, a 253
CAEN or Cadon, town, IV, a b 561; (Corday D'Armans), VI, *a* 345
—— academy (Huet), XII, *a* 349; stone (Building), IV, a 420
Caepio, Lucius Servilius, consul (Cimbri), V, b 681
Caer dyke (Canal), IV, *b* 691
—— Isc, stronghold (Exeter), VIII, b 700
—— Sidi, heaven (Celtic Literature), V, *a* 279
CÆRE, city, IV, b 561; (Etruria), VIII, b 557-8. See AGYLLA
—— alphabet (X), XXIV, b 751, a 752
Cærebidæ, family (Birds), III, b 648, a b 650, a 651, b 652
Caer-Ebroc, city. See YORK
Caerlavrock roll (Heraldry), XI, b 609, b 611, b 615
CAERLEON, city, IV, b 561-2; (Monmouth), XVI, a 781
Caermathen, town and county. See CARMATHEN
Caernarvon, town and county. See CARNARVON
Caerphilly, town (Cardiff), V, b 82
Cærulescens, species (Zosterops), XXIV, a *b* 863
Cæruleum, color (Pigments), XIX, b 95
Caerwys, town (Eisteddfod), VII, a *b* 686
Cæsalpinia, plant (Dividivi), VII, a 254
CÆSALPINUS, Andreas, naturalist, IV, a 562; (Anatomy), I, *b* 710; (Botany), IV, a 70, a 72; (Harvey), XI, b 449, a 450, note; (Morphology), XVI, a 864; (Vascular System), XXIV, a 104, note
Cæsar, title (Rome), XX, a 791, b 795, note
CÆSAR, CAIUS JULIUS, dictator, IV, b 562-8
authorities, b 567-8

CÆSAR, *continued*
  civil life, early, a 563–4
  civil war and triumphs, a b 566
  conquest of Gaul, a 565–6
  dictatorship, b 566-7
  Latin language, b 567
  state of Roman government, a 563
  triumvirate, b 564–6

—— (Acta Diurna, Acta Senatus), I, *b* 119; (Antonius), II, *a* 124; (Augustus), III, b 69, a 70; (Bibulus), a 574; (Brindisi), IV, a 313; (Britannia), *a* b 318; (Calendar), a b 591; (Catullus), V, b 215, a 218; (Cicero), *a* b 674; (Circus), b 691; (Cleopatra), b 721, a 722; (Como), VI, a 196; (Consul), b 280; (Cordova), b 346; (Corinth), a 354; (Cryptography), a 593; (Dolabella), VII, b 297, a 298; (Drama), a 355; (Egypt), b 647; (France), IX, b 465-6; (Games), X, a 60; (Germany), b 426; (Gladiators), a 563; (Grammar), XI, a 39; (Hirtius), XII, a 4; (Inscriptions), XIII, b 134; (Israel), b 434, b 439, note; (Italy), a b 456; (Itius Portus), a 528; (Laberius), XIV, b 165; (Labienus), b 165–6; (Land), *a* 262; (Latin), a 334; (Middlesex), XVI, a 293; (Naumachia), XVII, a 255; (Nicomedes III.), b 503; (Ostia), XVIII, b 64; (Paris), b 292; (Pearl), b 458; (Pompey), XIX, *a* *b* 466; (Rimini), XX, b 570, note; (Roman Literature), a 740; (Rome), b 773, a 775, b 776, a 780, b 781, a 782-7, b 789, b 836 note; (Sallust), XXII, *b* 229, a 230; (Sosigenes), *b* 289; (Spain), b 321-2; (Sumptuary Laws), a 678; (Varro), XXIV, *b* 100
——, bridge of (Bridges) (Ill.), IV, a 296; camp (Wimbledon), XXIV, a 627
CÆSAR, Sir Julius, writer, IV, a 568
Cæsar Borgia. See Borgia
CÆSAREA in Cappadocia, IV, a b 568; (Alp Arslan), I, b 526; (Basil the Great), III, b 355; (Cappadocia), V, b 67, *b* 69
——, exarchate (Greek Church), XI, a 138
—— ad Libanum, city (Numismatics), XVII, a b 667
CÆSAREA PALESTINA, town, IV, a 568; (Herod), XI, b 674
CÆSAREA PHILIPPI, town, IV, a 568
Cæsarean section (Surgery), XXII, b 707, a 727
—— Era of Antioch (Chronology), V, a b 621; Indiction (Chronology), V, a 622; Visigothic era (Chronology), V, b 621
Cæsarins, friars (Franciscans), IX, a 615
Cæsarion or Ptolemy XIII., Cæsar (Egypt), VII, b 647–8
Cæsarism (Government), XI, b 11–2
Cæsarius of Arles, bishop (Giles, St.), X, b 531; (Monachism), XVI, b 729
Cæsarodunum, town. See Tours
Cæsars, the (Apotheosis), II, a 175; *Lives of* (Suetonius), XXII, *a* 652; as Titles of Honor, XXIII, b 445, a 446
Cæsar's Commentaries (Clarke), V, a 709; (Druidism), VII, a b 412; (Gaul), X, b 100
Cæsar's Head, mountain (South Carolina), XXII, a 301
—— Tower (Chester), V, a 525, a 526; (Cleves), a 725
Cæsena, town. See CESENA
Cæsium, metal (Chemistry), V, b 454-5, b 456; (Mineralogy), XVI, b 439; (Potassium), XIX, b 609-10
Cafaggiolo ware (Pottery and Porcelain), XIX, b 645, b 647
Café, El, comedy (Moratin), XVI, b 835
Café de la Régence (Chess), V, a 522
Cafetales, coffee estates (Cuba), VI, a 602
Caffa, city (Ibn Batuta), XII, b 642
Caffeine, drug (Coffee), VI, b 102, *a* 103, a 104; (Guarana), XI, a 209; (Touch), XXIII, a 511
Caffeone, oil (Coffee), VI, *a* 103
Caffiso in Weights and Measures, XXIV, a 518
Caffraria. See KAFFRARIA
Caffres, Plaine des (Réunion), XX, a 506
Cafuso, hybrids (Negro), XVII, a 329
Cage (Coal), VI, a b 69; (Mining) (Ill.), XVI, b 477–a 478, b 483
—— method (Electricity) (Ill.), VIII, a 18, b 21
CAGLI or Calles, town, IV, b 568
CAGLIARI, city, IV, b 568-9; also gulf, province and town (Sardinia), XXI, b 322, b 323, *a* *b* 324, note
——, Benedetto, painter (Veronese), XXIV, a b 188
——, Carlo Carletto, painter (Veronese), XXIV, a b 188
——, Gabriele, painter (Veronese), XXIV, a b 188
—— Paolo. See VERONESE
CAGLIOSTRO, Alessandro, count, IV, a b 569; (De Loutherbourg), VII, a 47; (Freemasonry), IX, a 660; (Saint-Germain), XXI, b 178
Cagn, god (Mythology), XVII, a b 143, a 154, a 163
Cagniardelle for blasting (Metallurgy) (Ill.), XVI, b 65
Cagniard-Latour, Charles, Baron, physician (Metallurgy), XVI, b 65; (Pneumatics), XIX, a 257
CAGNOLA, Luigi, architect, IV, b 569
Cagnoli, Antonio, astronomer (Trigonometry), XXIII, b 602
CAGOTS, people, IV, b 569–70
Cahier, Pere (Physiologus), XIX, *a* 10
Cahoon palm (Honduras, British), XII, b 136, a 137
CAHORS, town, IV, a 570; (Universities), XXIII, b 894
Cahroc Indians (Mythology), XVII, b 155
Caicos, islands (Jamaica), XIII, b 558
Caïcus, river (Asia Minor), II, b 618; (Mysia), XVII, a 130; (Troad), XXIII, a 615
Caieta, town. See GAETA
Cailleau, Andre Charles, bibliographer, III, a 566, a 567, a 571
Cailletets's liquefying apparatus (Hydrogen) (Ill.), XII, a b 449; (Pneumatics), XIX, a 257
CAILLIÉ or Caillé, René, explorer, IV, a b 570; (Niger), XVII, a 510, b 511
Caiman. See Cayman
CAIN, legendary assassin, IV, b 570; (Adam), I, b 127; (Lamech), XIV, a 239
Cáin Admanain, law (Ireland), XIII, b 256
—— Pátraicc (Ireland), XIII, a 257
Caine, T. Hall, critic (Sonnet), XXII, *a* 276
Ca'ing Whale, XXIV, b 554
Cainites, sect (Cain), IV, b 570; (Gnosticism), X, a 627
Cainozoic fauna (Distribution), VII, b 245, 246; period (Geology), X, b 319-24
Cain-winds (Jew, Wandering), XIII, a 685
Caipha, town (Carmel), V, b 102
Caird, Sir James, economist (Agriculture), I, b 272, a b 318, b 335, a b 366; (Tithes), XXIII, b 439
——, John, theologian (Theism), XXIII, b 268 note; (Theology), a 289
Cairiri or Kiriri, race (Indians,), XII, b 869
CAIRN, mound, IV, b 570; (Antrim), II, a 126; (Down), VII, a 332; Drumlawhinnie (Kirkcudbright), XIV, b 100
—— -a-vain (Kinross), XIV, a 94
CAIRNES, John Elliott, economist, IV, b 570–2; (Political Economy), XIX, b 382, a 389, a 394–5, b 409, a 410; (Value), XXIV, b 54, b 56, a 58; (Wages), *b* 328
CAIRNGORM or Cairngorum, crystal, IV, a b 572; (Farfar), IX, b 361; (Mineralogy), XVI, a 405; (Topaz), XXIII, a 475
—— mountain (Aberdeenshire), I, b 46; (Inverness), XIII, a 205
Cairnpaple or Cairnnaple, hill (Linlithgow), XIV, b 675, a 677
Cairns, Hugh M'Calmont, Earl, chancellor (Copyright), VI, b 321
Cairnsmore of Carsphairn, mountain (Scotland), XXI, a 546; of Fleet, mountain (Scotland), XXI, a 546
CAIRO, city (Plan), IV, b 572-4; (Africa), I, a 239; (Egypt), VII, a 607, b 609, *a* b 610, b 615, a 616, a b 617, a 618, a 627, *a* 628, *a* b 629, *a* *b* 630, a 631, a 650, a 651, note, a b 652, a 653, a 654, b 655, *a* b 656, a 657, a 658, a 660, *a* b 661, a 662, a 663, b 667–8, *b* 680; (Fountain), IX, b 429; (Mural Decoration), XVII, a 42, a 43; (Násir Khosrau), *b* 243; (Libraries), XIV, a 552
——, town (Illinois), XII, a 745
——, Mosque Al-Azhar, XVI, b 892; of 'Amr (Ill.), a 891, a 892; of Ibn Tulun, b 892; of Ibrahim Agha, a 891; of Sultan Káit-Bey, a b 893; of Sultan Hasan (Ill.), a 893
Cairpre Musc, king (Ireland), XIII, a b 252
Caisse d'Epargne, savings bank (Paris), XVIII, a 289
CAISSON, IV, a b 574; (Bridges) (Ill.), a 293, b 306–7; (Cofferdams), VI, a 105; (Harbors and Docks) (Plate XII), XI, a 420, a b 421; carriage (Canal) IV, b 693
CAITHNESS, county, IV, b 574–5; (Archæology), II, a b 294; (Scotland), XXI, b 543, b 544, a 545, *b* 549, a b 551, b 557
—— flagstones (Geology), X, a 305
CAIUS, Kaye or Keye, Dr. John, IV, b 575; (Cambridge), b 646; (Ornithology), XVIII, b 7; (Pope), XIX, b 496; (Sweating Sickness), XXII, *b* 772, *a* 773, a b 774; college of (Cambridge), IV, *b* 646
Caius of Rome, presbyter (Cerinthus), V, *a* b 301
Caius Cæsar. See CALIGULA
Cajamarca city. See CAXAMARCA
Cajatambo, town. See CAXATAMBO
CAJAZZO or Caiazzo, town, IV, b 575
CAJEPUT OIL, IV, b 575-6; (Buru), b 510
Cajetan, Benedict. See pope BONIFACE VIII.
——, Constantine, monk (Kempis), XIV, *a* b 34
CAJETAN, Thomas de Vio, cardinal, IV, a 576; (Luther), XV, *b* 74
Cajetanus de Thienis (Averroes), III, b 131
Cake, food (Kaluga), XIII, a 840
——, Mastic, XV, a 628
—— Tobacco, XXIII, a 454
Cakes and Ale (Jerrold), XIII, a 644
Caking (Coals), VI, a 45. See COKE
Cakuntalá, drama (Kálidása), XIII, a 838
CALABAR, district, IV, a 576–7; (Demonology), VII, b 55; river, Old (Africa), I, b 227
CALABAR BEAN, IV, a 577; (Botany), b 131, a 140; antidote (Chloral), V, a 589
Calabash, utensil (Gourd), XI, a 6
Calaber, poet. See QUINTUS SMYRNÆUS
CALABOZO or Calaboso, town, IV, a 577; (Venezuela), XXIV, a 151, a 152
CALABRIA, peninsula, IV, a 577–8; (Italy), XIII, b 443, b 444, a 449, b 450-1, b 456; dialect (Italy), XIII, b 505

Calabrian Pine, XIX, b 113
Caladium, plant (Horticulture), XII, a 275
Calænas, bird (Pigeon), XIX, b 93
Calafate, plant (Patagonia), XVIII, b 357
Calah, town (Nineveh), XVII, b 525, *a* 526
Calahan's stock telegraph, XXIII, b 130
Calahonda, village (Motril), XVII, a 10
CALAHORRA, city, IV, a 578
CALAIS, town (Plan), IV, a b 578; (Finance), IX, b 156; (France), a 458, a 482, a 493; (Guise), XI, b 236; (Mary I.), XV, a 601; (Pas de Calais), XVIII, b 344, a 345
Calais Pier, painting (Turner), XXIII, b 706
Calaite (Mineralogy), XVI, b 422; (Turquoise), XXIII, b 712
Calalou, plant (Gumbo), XI, b 244
Calamahue, mount (California), IV, b 616
Calamander, wood (Ebony), VII, a 536
Calamaries (Cuttle Fish), VI, b 651, a b 652
Calamariidæ, family (Snakes), XXII, b 202
Calamianes, islands (Philippines), XVIII, a 766
Calamine (Mineralogy), XVI, a 367, a 385, a *b* 391, b 414; (Mining), b 490, a 491; (Polarity) (Ill.), XIX, b 324-5; (Zinc), XXIV, a *b* 823; mines (Iserlohn), XIII, a 396
Calamis of Athens, sculptor (Archæology), II, a 310
Calamistrum (Arachnida), II, a b 256, a b 260
Calamites, fossil (Botany), IV, b 95
Calamoichthys, fish (Ichthyology), XII, *b* 725; (Polypterus), XIX, b 443
Calamus, plant (Cane), IV, a 711; (Flag), IX, b 244; (Horticulture), XII, b 276; (Incense), b 756
—— draco, plant (Benzoic Acid), III, a 501; (Dragon's Blood), VII, b 336-7; Palm, XVIII, a b 194, a 195; reed (Pen), a 494
CALAMY, Edmund, Presbyterian, IV, b 578-9
CALAMY, Edmund, Nonconformist, IV, a 579; (Baxter), III, a 395
Calandra, genus (Coleoptera) (Ill.), VI, b 120-1; (Wheat), XXIV, a 566
Calandrella, genus (Lark) (Ill.), XIV, a b 316
Calandrinia, plants (Horticulture), XII, b 257
CALAS, Jean, merchant, IV, a b 579; (Voltaire), XXIV, a 311, a 312
Calasanza, Joseph, priest (Piarists), XIX, a 87
CALASIO, Mario de, Hebraist, IV, b 579
CALATAFIMI, town, IV, b 579
CALATAYUD, town, IV, b 579; (Zaragoza), XXIV, a 808
Calatia, town (Cajazzo), IV, b 575
Calatrava, Knights of (Martos), XV, b 593
Calauria, island (Amphictyony), I, a 679; (Demosthenes), VII, b 63; (Poros), XIX, b 535, note
Calaveras Mammoth Grove (Sequoia), XXI, a 706
Calaverite, mineral (Gold), X, b 660
Calbe, town. See KALBE
Calcaire grossier (Foraminifera), IX, b 340; (Geology), X, b 321
Calcar, organ (Rotifera) (Ill.), XXI, *b* 8, *b* 9, a 11
CALCAR or Kalcker, John de, painter, IV, b 579
—— arch, furnace (Glass), X, a 585
Calcarea, class (Sponges), XXII, a 434, a *b* 437, b 438-9, b 442, *a* b 444, a 445
Calcareous degeneration of protoplasm (Pathology), XVIII, a 399
—— fluxes (Iron), XIII, a 303; Manures, XV, a 519; rocks (Cave), V, a b 231; soils (Horticulture), XII, a 222; springs (Geology), X, b 240; submarine deposits (Geology), a b 257
Calcarina, genus (Foraminifera) (Ill.), IX, b 333, a 334; (Protozoa) (Ill.), XIX, a b 870, a 871
Calcarone, kiln (Sulphur), XXII, a 668
Calcedon, town. See CHALCEDON
Calcedony (Agate), I, *a* 248; (Mineralogy), XVI, a b 385, b 405; (Sardonyx), XXI, b 325
Calceola, genus (Corals), VI, b 338, b 340
——, rocks, group (Geology), X, b 302
Calceolaria, plants (Botany), IV, a 121, b 122; (Horticulture), XII, a 271
CALCHAS, soothsayer, IV, a 580
Calciferous glands (Worm), XXIV, b 715
Calcination (Copper), VI, a b 309, a 311; (Iron), XIII, b 297-8
Calcined Ivory, XIII, a 534
Calciners (Furnace), IX, b 740
Calcite, mineral (Geology), X, b 203; (Luray Cavern), XV, a 69; (Mineralogy) (Ill.), XVI, b 361, a 366, a b 377, a 379, b 381, a b 383, b 384, a 386, a b 387, b 392, a 393, a 413, a 414
Calcium, metal (Chemistry), V, a 455-6; (Iron), XIII, b 295
—— chloride tube (Chemistry) (Ill.), V, a *b* 472; citrate (Citric acid), V, *a* b 694; glass (Glass), X, b 584; oxalate (Histology), XII, a 14, a 15, a 18; oxide (Lime), XIV, *b* 653; phosphide of (Phosphorus), XVIII, b 830; plant absorption of (Physiology), XIX, a 56; spectrum (Spectroscopy), XXII, a 390. See FLUOR SPAR
CALC-SPAR or Calcareous spar, IV, b 579-80; (Lime), XIV, b 653; (Mineralogy) (Ill.), XVI, a 359, a 373, b 384, b 385, b 386, b 388, b 390, a 391, b 392, b 393, a b 394, a 413
CALCULATING MACHINES, IV, a 580-2; (Babbage), III, b 154-5; (Leibnitz), XIV, b 419
Calculation of Logarithms, XIV, b 784-7
Calculus, disease (Colic), VI, a 127; (Vesical Diseases), XXIV, a b 205
CALCULUS, DIFFERENTIAL, XIII, b 14-36
Calculus of Finite Differences (Boole), IV, b 42; (Taylor), XXIII, a b 98
—— of functions (Function), IX, b 723-4; (Lagrange), XIV, b 209-10
CALCULUS, INFINITESIMAL, XIII, a 6-79; (Agnesi, Maria G.), I, b 253; (Mensuration), XVI, a b 23; notations of (Peacock), XVIII, a 455
CALCULUS, INTEGRAL, XIII, b 36-79; (D'Alembert), VI, b 682-3; (Legendre), XIV, a 414
—— of variations (Lagrange), XIV, b 208, b 210, a 211; (Maxima and Minima), XV, b 650; (Variable, Complex), XXIV, b 76-83
CALCUTTA, city (Plan), IV, a 582-5; (Clive), VI, a b 10, b 11; (Hastings), XI, b 458, a 461; (Hindustani Literature), *a* b 758, *b* 759; (Hooghly), XII, b 150, *a* 151; (Howrah), a b 339; (India), a 769, a 777, a 783, a 784, *b* 786, *a* 788, b 790, a *b* 795, a b 798, *b* 802, b 803, a 805, b 813, a b 814; (Jute), XIII, b 809, a 810, a 811; (Libraries), XIV, a 533, a 552; (Meteorology), XVI, b 122, a 133; (Newspapers), XVII, b 443; history of (India), XII, *a b* 840, a b 842
—— *Review* (Lawrence, H. M.), XIV, a 373
Caldai, people. See Chaldeans
CADANI, Leopold Marco Antonio, anatomist, IV, a 585; (Morgagni), XVI, b 848
Caldas, village (Brazil), IV, a 201
Caldeira, Fernando, Soares da, insurrectionist (Portugal), XIX, b 568
Caldeiras, fountains (Azores), III, b 148
Calder, river (Wakefield), XXIV, b 338, a 339
CALDER, Sir Robert, vice admiral, IV, a 585; (Nelson), XVII, b 332
—— foundry iron (Iron), XIII, a 314; pipe, stove (Iron) (Ill.), a b 310
Caldera, crater (Canary Islands), IV, a 706
——, port (Atacama), II, a 723
Calderari, smiths (Gipsies), X, b 551
Calderon, Francisco Garcia, president (Peru), XVIII, a 689
——, Serafin Estébanez, satirist (Spain), XXII, b 375
CALDERON DE LA BARCA, Pedro, dramatist, IV, b 585-7; (Drama), VII, a 364, a 365; dramatist (Spain), XXII, a 373; (Vega Carpio), XXIV, a 136
CALDERWOOD, David, historian, IV, a b 587
Caldew, river (Cumberland), VI, b 616
Caldiero, battle of, 1796 (Austria), III, b 115
Caldron Snout, cascade (Westmorland), XXIV, a 542, a 543
Caldwell, American phrenologist (Phrenology), XVIII, b 862
——, Robert, orientalist (India), XII, b 817, a 818, b 851
——, W. H., naturalist (Platypus), XIX, b 225; (Zoology), XXIV, b 853
Caldy island (Pembroke), XVIII, a b 492, a 493
Cale, town (Oporto), XVII, a 818
Caleb, soldier (Israel), XIII, a 411, b 414; (Joshua), *b* 763
Caleb Williams, novel (Godwin, W.), X, a 640
CALEDONIA, IV, b 587-9; (Scotland), XXI, *a* b 494
Caledonia (Chalmers), V, b 324
Caledonian canal (Plate XXXVI), IV, b 692, a *b* 695-6; (Scotland), XXI, b 553
—— *Mercury* (Newspapers), XVII, b 433
—— race (Celtic Literature), V, *a* 261
—— Railway, XX, *a* b 233, a b 234, a 235, a 237
Caledonite (Mineralogy) (Ill.), XVI, b 419
Calefactory (Abbey), I, a 19, a 20, a 23, *a* 24
CALENBERG or Kalenberg, principality, IV, a 589; (Hanover), XI, *a* 400
CALENDAR, IV, a 589-605
- authorities, b 604-5
- divisions of year, natural, b 589-90
- ECCLESIASTICAL, a 593-601
  - adoption in Europe of, b 600-1
  - dominical letter, b 593
  - Easter, finding, a 598-600
  - epacts, a 596-8
  - Julian period, a b 595
  - lunar cycle, golden number, b 594-5
  - reformation of, b 595-8
  - Solar cycle, b 593-4
- Epochs, eras and periods, b 604
- Gregorian intercalation, b 592-3
- Hebrew, a 601-2, b 604
- Julian reformation, a b 591
- lunar year, Greek, b 592-3
- Mahometan, b 602-4
- Solar and civil year compared, b 590-2
- years, b 603-4

—— (Algebra), I, b 493; (Astrology), II, a b 647; (December), VII, a 19; (Easter), a 532; (March), XV, a b 540; (Missal), XVI, b 533; (New Year's Day), XVII, a b 462; (Ptolemy), XX, b 96

Calendar, Arabian lunar (Mecca), XV, a 677; Aztec (Mexico), XVI, a 220, a 221, b 229; Babylonian, III, a b 165; (Persia), XVIII, b 580, note
——, Burmese (Burmah), IV, b 495; Central American (Mexico), XVI, a 222; Chinese (Astronomy), II, *b* 651; cycles (Tibet), XXIII, b 367; Egyptian, VII, b 631–3, b 646
——, French Republican (Fabre d'Eglantine), VIII, b 735; (France), IX, b 533–4
——, garden (Horticulture), XII, a 302-8
——, Gregorian, IV, b 592-3; (Byzantine Historians), b 545
——, Jelalian (Seljuks), XXI, a 667
——, Julian, IV, a b 591; (Cæsar), IV, a 567; (Sosigenes), XXII, b 289-90
——, Mexican (America), I, b 610–1; Mohammedan, XVI, b 582; Mongolian (Mexico), a b 215; Nepalese, XVII, a 353; New Style (Chesterfield), V, b 527; Parsîs, XVIII, a b 332; Persian (Omar Khayyàm), XVII, b 793
——, Roman (Fasti), IX, b 39; (Festivals), a *b* 100; (November), XVII, a 621. See Calendar, Julian
——, Siamese, XXI, b 893; Tuscan (Pisa), XIX, a b 128 note
Calendario, Filippo, architect (Venice), XXIV, b 165
CALENDER, machine (Plate XXXII), IV, a 605–6; (Paper) (Ill.), XVIII, a 228; American (Paper) (Ill.), a b 228
Calendering (Bleaching) (Ill.), III, a b 711–2
Calends (Calendar), IV, a b 590
Calendula, genus (Marigold), XV, *a* 551
Coleotto, town (Lecco), XIV, a 397
CALEPINO, Ambrogio, monk, IV, a 606; (Dictionary), VII, b 157; (Hungary), XII, a 390
Calerus, Johannes, biographer (Spinoza), XXII, *b* 415, b 417, a b 418, *a* 419
Cales, town (Rome), XX, *b* 760
Calf-bindings, restoration of (Libraries), XIV, a 539
—— kid (Leather), XIV, b 389; lymph (Vaccination), XXIV, *a* 29; skin (Leather), XIV, b 380, a 388, b 390
—— worship (Druses), VII, b 418–9; (Image-Worship), XII, b 749
Calf Islet (Man), XV, b 360, *b* 457, *a* 459
CALHOUN, John Caldwell, politician, IV, a b 606; (American Literature), I, a 634; (Protection), XIX, a 939; (Slavery), XXII, b 909; (Taney), XXIII, b 921; (United States), b 807, a 809, b 810, a 811, *a* 813, b 814, *a* 815, b 817, b 818, a 819; (Webster), XXIV, a b 499; (Whig), *b* 894
Caliari, painters. See Cagliari and VERONESE
Calibration (Galvanometer), X, b 48; (Thermometer), XXIII, a 310
Calibre of Artillery, II, b 574; of guns (Gunmaking), XI, b 248; (Shooting), XXI, a 872
Calicantsars, spirits (Saturn), XXI, a 337
Calice, depression (Corals), VI, a b 330, a b 331, a 338, a 339
Caliche, saltpetre (Kelp), XIV, b 31; (Nitrogen), XVII, a 531
Calicium (Lichens), XIV, *b* 557, b 564
Calico, fabric (Adulteration), I, b 159; (Arkwright), II, a 476; (Bleaching), III, b 706; (Cotton), VI, 433, a 444, a 445; (India), XII, b 800; (Malabar), XV, b 312; black (Dyeing), VII, a 495
CALICO-PRINTING (Ill.), IV, b 606–15
  block-printing, a 607
  dye colors (Ill.), b 608-11
  finishing, b 614–5
  foreign and ancient calico, b 606–7
  machines, printing (Ill.), a 607-8
  oxidation colors, a 611–2
  preparation of colors, b 607–8
  spirit colors, b 614
  steam, colors (Ill.), a 612–4
—— (Cobden), VI, a 79
CALICUT or Kolikod, town, IV, a 615; (Gama), X, *a* 53; (India), XII, *b* 835, *a* 836; (Malabar), XV, *a b* 315
Calid, king (Alchemy), I, a 411
Calidarium (Baths), III, b 375, *a* b 376
CALIFORNIA (Plate XXXIII) IV, a 615–26
  annexation, a 616
  climate, b 619–20
  fauna, a b 623
  flora, b 623–4
  geology, a 620-1
  gold mining, a 621–2
  history, b 615–6
  industries, b 624–5
  Lower California, b 615–6
  minerals, a 622-3
  mountains, b 617–8
  observations on, b 625–6
  population, a b 625
  scenery, a 619
  topography, a 617–9
—— (Alarçon), I, a 392; (Arboriculture), II, b 227, *a* 280; (American Journalism), XVII, b 884; (Birds), III, a 652; (Castor Oil), V, a 174; (Cypress), VI, b 658; (Gold), X, a *b* 660, *b* 661, a *b* 662, note; (Guano), XI, b 208; (Honey), XII, a b 142; (Indians), a b 865, b 866, b 873; (Lemon), XIV, b 438; (Meteorology), XVI, b 123; (Monterey), a 808; (New York), XVII, b 899; (Petroleum), XVIII, b 887; (Reformatories), XX, b 898, a 899, *a* 903; (Sanitary Commission), XXI, b 904; (Seal), XXI, a 610; (Universities), XXIII, a 913, a b 953, b 960; (Wine), XXIV, a 644; (Woodpecker) (Ill.), b 686
——, discoveries in (Geography), X, a 165; fauna (Distribution), VII, a 239; flora (Distribution), b 251; gold (Commerce), VI, a b 184; history, IV, b 615–6; (United States), XXIII, a *b* 816, a 817, b 819, a 823; land titles (Stanton), XXII, a b 919
—— mining (Bullion), IV, *b* 464; (Gold), X, a b 663, a b 664, *a* b 666; (Mining), XVI, a b 492; (Money), b 755, a 757
——, settlement of (Sutter), XXII, a 941; statistics (United States), XXIII, b 853, a 856, *a* 857; a 858, a *b* 861, a *b* 862; *a* b 864
—— Coast Range (United States), XXIII, b 851–2
——, Gulf of (Mexico), XVI, a b 223, b 909–a 910; fishery (Pearl), XVIII, b 458
——, Lower (Meteorology), XVI, a 142; (Mexico), *a* b 223, b 225, b 899, b 904, a 908, a b 909–a 910
Caligidæ, family (Crustacea), VI, a 588
Caligraph (Writing Machines), XXIV, a 734, note
Caligraphy (Palæography), XVIII, a 150, a 151, b 152, a 154; (Typography), XXIII, a 725
CALIGULA, Caius Cæsar, emperor, IV, a 626; (Afer), I, a 203; (Agrippa, Herod), b 370; (Agrippina), b 372; (Amphitheatre), b 679; (Antichrist), II, *a b* 110; (Circus), V, a 692; (Claudius), b 713; (Gunpowder), XI, b 282; (Israel), XIII, b 436; (Maccabees), XV, b 132; (Philo), XVIII, b 773, a 777; (Rome), XX, b 790, *a* 791, a b 837, note, b 842-3
Caligula's bridge (Pozzuoli), XIX, b 671
Caligus, genus (Crustacea), VI, a 576
Calila et Dimma (Sacy), XXI, b 149
Calina, haze (Spain), XXII, b 310
Calinga, kingdom. See KALINGA
Calingapatam, town. See KALINGAPATAM
CALIPH or Khalif, sovereign, IV, a b 626; (Asia), II, b 611; (Mohammedanism), XVI, b 584; (Imám), XII, a 753
Caliphate (Arabia), II, b 225
  Abbaside, b 226
  Fatimite, b 227
  Ommiade dynasty, a 226
  Turkish, b 227
—— (Mohammedanism), XVI, a 588–619; (Shi'ites), XXII, b 698; origin of (Arabia), II, b 225; succession of (Mohammedanism), XVI, a b 586; temporal power of (Sunnite), XXII, a b 696; transferred to Constantinople (Turkey), XXIII, a 684; Western, extinguished (Cid), V, a 676. See Khalif, ABBASIDES, ALMOHADES, ALMORAVIDES, CORDOVA, Fatimites, Ommiades or Omayyads
Caliphs, Tomb of the (Mosque), XVI, a 893
Caliph's sleeve (Caliph), IV, a 626
Calippus of Cyzicus, astronomer (Astronomy), II, b 653; (Calendar), IV, a 593; (Chronology), V, b 619–20
Calisaya bark, drug (Cinchona), V, a b 683
Calisia, town. See KALISH
Calisthenics, exercises (Gymnastics), XI, a 313
CALITRI, town, IV, b 626
Calixtines, sect (Hussites), XII, *a* 423; (Moravian Brethren), XVI, b 837, a 838
CALIXTUS, popes, IV, b 626
—— I., St, Pope, IV, b 626; (Popedom), XIX, a 504, b 523; (Sabellius), XXI, *b* 135, a 136; cemetery of (Catacombs) (Ill.), V, a 182, *a* b 183, a b 184, a 187
—— II., Pope, IV, b 626; (Investiture), XIII, b 207; (Popedom), XIX, a 514, a 524
—— III., Pope, IV, b 626; (Alexander VI.), I, b 430, a 431; (Cœur), VI, a 100; (Ferdinand I., Naples), IX, a 69
CALIXTUS, Georgius, theologian, IV, b 626; (Church History), V, a 669
Call to pastorate, Scotch (Chalmers), V, a 327; (Scotland), XXI, a 562
Calla Æthiopica, plant (Horticulture), XII, b 273
Callainite, mineral (Turquois), XXIII, b 712
Callander ridge tunnel (Railway) (Ill.), XX, b 241
CALLAO, town, IV, b 626–7; (Lima) (Map), XIV, b 650, *b* 651; (Peru), XVIII, a 685
"Callao painter," IV, a 627
Callatis, city (Mangalia), XV, b 486
CALLCOTT, Sir Augustus Wall, painter, IV, a 627
CALLCOTT, John Wall, composer, IV, b 627
CALLCOTT, Maria Graham, historian, IV, b 627
Calle, town (Algeria), I, b 496
Calle de Alcalá (Madrid), XV, a 192
Callejon de Huaylas, ravine (Peru), XVIII, a 684, b 685
Callery, orientalist (China), V, a b 568, a 569, a 574
Calles, town. See CAGLI
Callet, Jean François, mathematician (Tables), XXIII, b 14, a *b* 15, a 16, a b 17; tables of (Logarithms), XIV, b 782, a 783
Callianassa, genus (Crustacea) (Ill.), VI, a b 563, a 566 note, *b* 581
Callias, treaty of c. 449 B.C. (Persia), XVIII, b 585–6
Callichroma moschata, beetle (Coleoptera), VI, a 121
Callichthys, fish (Siluridæ) (Ill.), XXII, b 75, a 76

Callicratidas, general (Persia), XVIII, b 587
Callié, traveller (Africa), I, b 220–a 221
Callifloræ (Grasses), XI, b 51
Calligraphy. See Caligraphy
CALLIMACHUS, architect and sculptor, IV, a 628; (Lamp), XIV, b 248
CALLIMACHUS, poet, IV, b 627–8; (Alexandrian School), I, a b 440, a 441; (Anthology), II, b 92; (Palæography), XVIII, b 167
Callinus of Ephesus, poet (Cimmerii), V, a 682; (Greece), XI, a 120, a 124
Callionymus, fish (Ichthyology), XII, b 717, a b 718
CALLIOPE, muse, IV, a 628; (Muses), XVII, a b 81
Calliper, gauge (Ill.), X, a 100
Callipolis, Italian town (Gallipoli), X, a 39
——, city (Thrace), XXIII, a 339
Callipus, astronomer. See Calippus
Callirrhoe, city (Edessa), VII, b 566
CALLIRRHOE, wife of Alcmæon, IV, a 628
——, fouutain of (Athens), III, b 3, a 10 note
——, springs of (Dead Sea), VII, b 3
Callisitta, genus (Nuthatch), XVII, a 685
Calliste, genus (Tanager), XXIII, a 50
CALLISTHENES, philosopher, IV, a 628; (Alexander the Great), I, a 428, a 429; (Chronology), V, b 620, a 625; (Persia), XVIII, b 595
——, pseudo-, historian (Romance), XX, a b 656
CALLISTO, a nymph, IV, a 628
CALLISTRATUS, orator, IV, a 628; (Isocrates), XIII, a 402
CALLISTRATUS, poet, IV, a 628
Callistus, popes. See CALIXTUS
——, cemetery of St. (Catacombs) (Ill.), V, a 182, *a* b 183, a b 184, a 187
Callithrix, genus (Ape)(Ill.), II, b 135–6, a b 137, a 141, b 146
Callitris, tree (Sandarach), XXI, a 269
Callo, plain (Ecuador), VII, b 562
Callon of Ægina, sculptor (Archæology), II, b 305, b 306, b 307
Callophis, snake (Reptiles), XX, b 470
Callorhinus, genus (Seal), XXI, a 610
Callorhynchus, fish (Reproduction), XX, a 422 note
Callosities (Mammalia), XV, a 351
CALLOT, Jacques, engraver, IV, a b 628; (Caricature), V, a b 92
Calluna, genus (Heath) (Ill.), XI, b 526–7
Callus, tissue (Grasses), XI, a 50, b 51; (Horticulture), XII, a 217
—— in bone-repair (Pathology), XVIII, b 372, a 373
Callyodon, genus (Parrot-fishes), XVIII, b 329
Calmar, province (Sweden), XXII, a *b* 777, b 780
CALMAR or Kalmar, city, IV, b 628; (Sweden), XXII, a 776, b 777, a 787
——, province (Sweden), XXII, a *b* 777, b 780
——, sound (Oland), XVII, b 773
——, union of, 1397 (Denmark), VII, b 74–5; (Gustavus I.), XI, b 297; (Hanseatic League), b 403; (Norway), XVII, a 603
CALMET, Augustin, commentator, IV, b 628–9; (France), IX, a 590
Calmeyer, island (Sunda Island), XXII, b 687
Calms, equatorial (Meteorology), XVI, a 134, b 143, *a* 149, b 152, b 155, a 159; (Sea Water), XXI, *a* 645; region of (Pacific Ocean), XVIII, a 121
CALMUCKS or Kalmucks, people, IV, a b 629; (Mongols), XVI, a 772, a b 776; (Tartars), XXIII, a 77; (Turkestan), b 680–1; alphabet of (Mongols), XVI, a 777; *Dictionary* of, VII, a 167
CALNE, town, IV, b 629; (Wilts), XXIV, *a* 626
Calœnas, genus (Birds), III, b 660
CALOMEL, drug, IV, b 629–30; (Chemistry), V, a 457; (Mercury), XVI, a 38, a 39, a 40; (Mineralogy), b 392, b 399
Calompé, town (Cambodia), IV, a 641
CALONNE, Charles Alexander de, statesman, IV, a b 630; (France), IX, a *b* 524
Caloprese, Gregorio, poet (Gravina), XI, a 59
Caloprini, family (Morosini), XVI, b 862
Calopezus, genus (Tinamou), XXIII, a 430
Caloptenus, genus (Grasshopper), XI, a 54; (Locust) (Ill.), XIV, a 772, a 773–4
Calopterygina, insects (Dragon-fly), VII, b 333, b 334, b 335, *a* b 336
Calor or Calorc river (Italy), XIII, a 449; (Lucania), XV, b 39; (Samnites), XXI, b 260
Caloric (Heat), XI, a b 496; (Lavoisier), XIV, b 354
—— engine (Air-engine), I, b 379
Calorimeter (Coal), VI, b 74–5; (Iron) (Ill.), XIII, b 311
Calorimetry (Electricity), VIII, a 98; (Heat), XI, a 496–8; (Pyrometer), XX, b 138–9
Calorique Rayonnant (Radiation), XX, a 221
Calosoma, beetle (Coleoptera) (Ill.), VI, b 117
Calotes, genus (Lizard), XIV, a 743
Calotype (Photography), XVIII, a 837
Calp, stone (Dublin), VII, a 427
Calpe, cape (Gibraltar), X, a 523
Calprenède, Gauthier de Costes, chevalier de la, novelist (Romance), XX, *b* 676
Calpurnian law (Roman Law), XX, a b 701, a 702, a 718, a 720; (Rome), a 775 note, b 778
CALPURNIUS, Titus, poet, IV, b 630–1
——, Piso Lucius, tribune (Livy), XIV, a 735
——, deacon (Patrick, St.), XVIII, b 421
CALTAGIRONE or Calatagirone, town, IV, a 631
CALTANISETTA, town, IV, a 631
Caltha, genus (Botany), IV, b 128, b 135 (Horticulture), XII, b 257; (Marigold), XV, a b 551
Calthrop, the (Heraldry), XI, a 628
Calthrops, spicule type (Sponges) (Ill.), XXII, a b 432, a 433
Calton Hill (Edinburgh, city), VII, *a* 573, a 574, a 575, b 577, b 578
Calumet (Pipe), XIX, a 120
—— and Hecla Company (United States), XXIII, a b 869
—— Mine (Michigan), XVI, a 248; (Mining), a 492, a 493
CALVADOS, department, IV, a b 631
CALVART, Denis, painter, IV, b 631; (Reni), XX, *b* 408
Calvary, mount (Moriah), XVI, a 850
——, Cross, VI, b 541
Calvary, or *The Crucifixion* (Spohr), XXII, a 427
Calven, an der, battle, 1499 (Switzerland), XXII, b 827
Calverly, C. S., humorist (Parody), XVIII, a 325
Calvert, F. Crace, chemist (Carbolic Acid), V, b 76; (Coal Tar Colors), XVIII, a 901, a 902, b 903
CALVERT, George, Lord Baltimore, IV, b 631; (Maryland), XV, a b 611; (Newfoundland), XVII, a 395; (Penn), XVIII, b 505, a b 506
——, Leonard (Maryland), XV, a 611
——, Raisley, heir (Wordsworth), XXIV, b 704
Calverts, armorial bearings of (Icterus), XII, a 736
Calves (Dairy), VI, a 679; rearing (Agriculture), I, a b 346
CALVI, town, IV, a 632
Calvin, Gerard, notary, IV, a *b* 632, a 633
CALVIN, John, IV, a 632–8
academical studies, a 632–3
controversies in Geneva, b 635–6
Geneva, settles in, b 634–5
last years, b 637–8
parentage, a 632
personal qualities, a 638
Servetus, a 636
Strasburg, first residence, a 634
teaches reformed doctrine in France, a 633–4
theology of, b 636–7
—— (Canon), V, b 14; (Church), a 663, a 664; (Dogmatic), VII, b 295, b 296; (Farel), IX, *a* 30; (France), *b* 575–6; (Geneva), X, a b 134; (Hebrews), XI, b 538; (Hermeneutics), *b* 668; (Huguenots), XII, *b* 351; (Jesuits), XIII, a 663; (Montaigne), XVI, a 796; (Predestination), XIX, b 690, a 691; (Presbyterianism), b 696–8; (Servetus), XXI, *a b* 717, a 718; (Socinus), XXII, a b 241; (Switzerland), b 829; (Theism), XXIII, b 262, a 263
Calvinism (Coquerel), VI, a 326; (Edwards, Jonathan), VII, b 598; (England), VIII, a 310; (England, Church of), a 338; (Eucharist), a 574; (Fuller, A.), IX, a 714; (Geneva), X, b 131, a 134; (Godwin, W.), a b 639; (Milton), XVI, b 342; (Moravian Brethren), a 838; early (Francis of Sales), IX, a 613
—— in Holland (Arminius), II, b 483, a 484; (Holland), XII, b 77–8, *a* 79, b 80, b 81, a 82; (Presbyterianism), XIX, b 715, a 716
——, new school (Presbyterianism), XIX, b 719; rise of (Universities), XXIII, b 900
Calvinistic church-polity (Liturgy), XIV, a 718; (Penance), XVIII, b 498–9
—— Methodists (Presbyterianism), XIX, b 720
Calvinists (Court, Antoine), VI, b 461; (Camisards), IV, a 657; (Dort, Synod of), VII, a 324; (Germany), X, a 448, a 449; (Grotius), XI, b 194; (Hopkins, S.), XII, a 162; (Huntingdon, Countess), b 414; (Predestination), XIX, a b 688, note, a 689, b 690, a 691
——, French (Huguenots), XII, b 353; persecution of (Saxony), XXI, b 369–70
CALVISIUS, Sethus, astronomer, IV, a 638
Calvus, Licinius, poet (Catullus), V, a 217
Calw, town (Kalw), XIII, a 840
Calycadnus river (Asia Minor), II, a 619; (Cilicia), V, b 678
Calycophoridæ, family (Hydrozoa), XII, a b 598
CALYDON, town, IV, a 638
Cálymna, island (Numismatics), XVII, b 664
CALYPSO, legend of, IV, b 638; (Malta), XV, a 344
Calyptoblastea-leptomedusæ, order (Hydrozoa) (Ill.), XII, b 580, b 593, b 595–6, b 597
Calyptorhynchus, genus (Cockatoo), VI, a 90
Calyptra, organ (Muscineæ) (Ill.), XVII, b 72, b 78, a b 80
Calyptræa, genus (Mollusca) (Ill.), XVI, a 673, a 674
Calyptrogen (Histology), XII, b 17
Calystegia, plants (Horticulture), XII, b 257
Calyx (Botany) (Ill.), IV, a *b* 113, a 118–9

Calyx of blastoidea (Echinodermata), VII, b 553; of crinoidea (Echinodermata), VII, a b 550; of cystidea (Echinodermata), VII, b 552-3
Cam, river (Cambridge), IV, b 643, b 644, *a* 645, b 647
CAM, Diogo, explorer, IV, b 638; (Congo), VI, b 237
Camacho's Wedding, opera (Mendelssohn), XVI, *a* 11
Camahieu Cameo, IV, a 653
CAMALDULIANS or Camaldolites, religious order, IV, b 638; (Gregory XVI.), XI, a 160; (Jesuits), XIII, a 657; (Monachism), XVI, b 734, b 741
Camaracum, town. See CAMBRAY
Camarasaurus, fossil (Zoology), XXIV, a 925
Camargue, district (Bouches-du-Rhone), IV, *a* 154
CAMARINA, city, IV, b 638; (Numismatics), XVII, *b* 647, a *b* 655; (Syracuse), XXII, *a* 853, b 854
Camaroons, mountains. See CAMEROONS
Camart, town (Carthage), V, b 142
Camatina, acorns (Oak), XVII, b 713
CAMBACÉRÈS, Jean Jacques Regis de, statesman, IV, a 638-9; (France), IX, b 539; (Napoleon), XVII, a b 210
CAMBALUC, city, IV, a b 639; (China), V, a b 546, a 547
Cambarus, fish (Mammoth Cave), XV, a 457
CAMBAY, town, IV, b 639-40; gulf of, IV, a 640
Camber, arches (Building), IV, b 415
CAMBERT, Robert, composer, IV, a 640
Camberwell, suburb (London), XIV, *a* 827, a b 831, a 832, a b 842, b 850; (Surrey), XXII, b 729
Cambiasi or Cambiaso, Luca or Luigi, painter. See CANGIAGI and GENOVA
Cambio, Arnolfo del, sculptor (Pisa), XIX, a b 132
——, guild of (Perugino), XVIII, a 695
Cambium, tissue (Botany), IV, b 88, *a* 89; a b 90; (Histology), XII, a 18, a b 20, a b 21; of acotyledons (Botany), IV, a 94; and procambium (Botany) (Ill.), IV, a 82-3; (Histology), XII, b 17-8
Cambo, spa (Pyrénées), XX, a 133
CAMBODIA, kingdom, IV, a 640-2; (Pâli), XVIII, a 187, a 188, a 189; people of (Cochin China), VI, a 88, a 89; wars with Siam, XXI, *a* 894
—— or Mekong river (Cambodia), IV, *b* 641; (Cochin China), VI, a b 86; (Mekong), XV, b 840-1
Cambodian *Dictionaries*, VII, a 166
Cambodunum, town (Huddersfield), XII, b 344
Cambogia, drug. See GAMBOGE
Cambois colliery (Coal) (Ill.), VI, *a* 60
Camboritum, town (Cambridge), IV, b 644
CAMBORNE, town, IV, b 642
CAMBRAY or Cambrai, town, IV, b 642-3; (Library), XIV, a 547
——, League of, 1508 (Ferdinand V.), IX, b 72; (France), b 489, b 490; (Francis I.), a 608; (Gossart), X, a 750; (Julius), XIII, b 781; (Italy), a 492; (Venice), XXIV, b 156
Cambria, schooner (Yachting), XXIV, b 759
—— Iron Company (Johnstown), XIII, a 741
Cambrian fauna (Distribution), VII, a 245, 246, *a* b 247, *a* 248; rocks (Sweden), XXII, a 778; (New York), XVII, *b* 464; sandstone (Scotland), XXI, a 543, b 549; system (Geology), X, a 291-3
Cambric muslin (Cambray), IV, b 642
CAMBRIDGE, county, IV, a 643-4
——, gulf (Australia), III, b 93
——, town (Auckland), III, b 59
CAMBRIDGE, town, England (Plan), IV, b 644-7; (Newspapers), XVII, b 432-3; Observatory), b 730
——, town, Mass., IV, b 647; (Libraries), XIV, a 553; Observatory (Micrometer), XVI, a 266; XVIII, b 735
——, Richard Plantagenet, Earl of (York), XXIV, a 790
—— Apostles, society (Helps), XI, a b 570
—— clock, VI, a b 29, *a* 30
——, duke of (Precedence), XIX, b 682-3, note
—— Platonists (Mysticism), XVII, a 142; (Plato), XIX, a b 223; (Ethics), VIII, a 526
Cambridge University, XXIII, b 893-4, a b 904, *b* 908-9, a b 912, b 914; (Alcock), I, a 415; (Ames, W.), a 645; (Bentley), III, b 499-500; (Caius), IV, b 575, b 644-7; (Coleridge), VI, b 122-3; (College), b 128-9; (Costume), b 410-1; (Examinations), VIII, b 680, a 681; (Gray, Thos.), XI, b 70, a 71; (Hulse), XII, a b 356; (Libraries), XIV, a b 519, a 543; (Milton, John), XVI, a b 337; (Newton), XVII, *a b* 450-3, a 456, *b* 457, b 458; (Peacock), XVIII, b 454-5; (Parker), b 304, a 305, a 306; (Perne), b 563, a 564; (Reformation), XX, *b* 340, a b 342; (Rhetoric), a 530; (Rowing), XXI, *b* 36
——, history of (Baker), III, a 215; (Cooper), VI, a b 299
—— Library (Burckhardt), IV, b 475; XIV, a b 519, a 543; (Midrash), XVI, a b 298, note, a b 299, note, a 300
——, O.P., naturalist (Arachnida), II, a 245, b 256, b 257, *a* 259, a 262, a 263
Cambridgea fasciata, species (Arachnida) (Ill.), II, a b 255, a 258
Cambridge's press-wheel roller (Ill.) (Agriculture), I, b 284, a 300, a 330
Cambridgeshire Coprolites, VI, *b* 313
Cambronne, Pierre Jacques Étienne (Charlet), V, a 372
Cambunian mountains (Greece), XI, a 74; (Macedonia), XV, a 137
Cambusnethan, village (Wishaw), XXIV, b 652
Cambysene, country (Cambyses), IV, a 648
CAMBYSES, kings, IV, b 647-9
—— II., king, Persia (Egypt), VII, b 644, a 674, a 675; (Persia), XVIII, b 576, a b 577, b 578, a b 579-80
—— in book of Ezra (Artaxerxes), II, a b 561
CAMDEN, New Jersey, town, IV, a 649
CAMDEN, South Carolina, IV, a b 649; battle of, 1780 (United States), XXIII, b 792
CAMDEN, Charles Pratt, earl, lord chancellor, IV, a b 650; (Copyright), VI, a b 317; (Londonderry), XIV, *b* 864, b 865
——, John Jeffreys Pratt, marquis of (Ireland), XIII, a 238
—— Society, IV, b 649
CAMDEN, William, antiquary, IV, b 649-50; (Anagrams), I, a 694; (Casaubon), V, a 152; (Horse), XII, a 204; (Jonson), XIII, b 751, b 752; (Knot), XIV, a 130, note; (Shakespeare), XXI, a 775
Camden Town, suburb (London), XIV, b 827, a 845
CAMEL, animal, IV, b 650-2; (Arabia), II, a 211, b 220; (Bokhara), IV, *a* 4; (Distribution), VII, b 240, a 247; (Egypt), b 616; (Europe), VIII, b 610; (India), XII, a 791; (Jats), XIII, a 608; (Libya), XIV, b 554; (Llama), a b 744-5; (Mammalia) (Ill.), XV, b 366, b 435; (Persia), XVIII, b 635; (Walker), XXIV, b 881
Camel-bird (Ostrich), XVIII, a 66, note
Cameline oil (Oils), XVII, a 767
CAMELLIA, plant, IV, a 652-3; (Botany), IV, *a* 118, a 122; (Horticulture), XII, a b 271; (Tea), XXIII, a 104, b 105
Camellus, George Joseph, monk (Camellia), IV, b 652
Camelon, ruins (Carron), V, a 123
Camelopardalidae, family (Giraffe), X, a 552-3; (Mammalia), XV, a 438
Camel's Hump, mountain (United States), XXIII, b 842
Cameniata, Joannes, historian (Byzantine Historians), IV, a 545
CAMEO, IV, a 653-4; (Agate), I, a 248; (Archæology), II, b 320; (Gems), X, a b 122; (Glass), b 578-9; (Onyx), XVII, b 798; (Opal), b 799
Camera, optical instrument (Magic), XV, a 208; (Optics), XVII, a 829
—— Bodleiana, building (Libraries), XIV, b 518
——, charting (Surveying), XXII, a 753
CAMERA LUCIDA (Plate XXXIV), IV, a 654-5; (Microscope), XVI, a 287 note, b 289
CAMERA OBSCURA, IV, a 655; (Light), XIV, a 586; (Photography) (Ill.), XVIII, b 853-4; (Porta), XIX, b 540
—— papagali, room (Consistory), VI, a 261
Cameralistic sciences (Political Economy), XIX, b 376
CAMERARIUS, Joachim, botanist, IV, a 655; (Botany), b 72
CAMERARIUS, Joachim, philologist, IV, a 655
CAMERINO, town, IV, a b 655; state (States of the Church), XXII, b 477
CAMERON, John, theologian, IV, b 655-6
—— of Lochiel, Sir Ewen (Charles Edward), V, b 369; (Wolf), XXIV, a 663
CAMERON, Richard, agitator, IV, a 656
——, Verney Lovett, traveller (Africa), I, a 223, a 244; (Geography), X, b 173; (Tanganyika), XXIII, a b 50
Cameron and Floyd steam pump (Steam-Engine), XXII, a 541
Cameronians, sect (Cameron, Richard), IV, a 656; (Presbyterianism), XIX, a b 704, note; (Scotland), XXI, b 538, a b 539
Cameronites, sect (Cameron, John), IV, b 655-6
CAMEROONS or Camaroons, mountains, IV, a b 656; (Africa), I, a b 225
—— river (Africa), I, b 227
Camertes, people (Camerino), IV, b 655
Camiguin, volcanic island (Philippine Islands), XVIII, *a* 763
Camille Desmoulins. See DESMOULINS
Camillo Renato, mystic (Socinus), XXII, a 241
CAMILLUS, Marcus Furius, general, IV, b 656; (Brennus), a 230; (Etruria), VIII, a 558; (Rome), XX, a 759
CAMILLUS and CAMILLA, titles, IV, b 656
Caminha, Andrade de, poet (Camoens), IV, *a* 660
Camirus in Rhodes, town (Archæology), II, b 319; (Plate), XIX, b 190; (Rhodes), XX, b 540, b 541
CAMISARDS, peasantry, IV, b 656-9; (Cavalier), V, b 226-7; (Languedoc), XIV, b 288; (Presbyterianism), XIX, a 715; (Quakers), XX, a 159
Camlin, river (Longford), XIV, *a* b 874, a 875
Cammin. See KAMMIN
Camoens, Bento de, prior, IV, a b 659
CAMOENS or Camoes, Luiz de, poet, IV, a 659-62
  appearance and works, b 662
  birth and education, a b 659
  court of John III., a 659-60
  exile in India, a 660-1
  Lisbon, last years in, b 661-2

Camoens (Gama), X, b 52; (Portugal), XIX, b 571; (Renaissance), XX, b 401
——, collection, Oporto (Libraries), XIV, b 532
Camomile, plant. See Chamomile
Camp of Châlons (Châlons-sur-Marne), V, a 329
——, intrenched (Fortification), IX, a 412
Camp, Roman (Ill.), IV, b 662-3; (Hadrian, Wall of), XI, a b 326; (Hampshire), b 385
Campagna, town, IV, b 663
Campagna di Roma, plain, IV, b 663-4; (Italy), XIII, a 448; (Latium), XIV, a 344; (Malaria), XV, b 320, *a* 321
Campaign, The (Addison), I, a 135
Campaigns. See War
Campaldino, battle of, 1289 (Dante), VI, b 713–714
Campan, Jeanne Louise Henriette, teacher, IV, a b 664
Campanella, cape (Naples), XVII, b 194; (Siren), XXII, a 105
Campanella, Tomaso, philosopher IV, b 664–5; (Evolution), VIII, a 664; (Renaissance), XX, a 398
Campania, province, IV, a b 665; (Breislak), a 228; (Italy), XIII, b 454, a b 456; (Italy), b 448; acquisition of, 340 B.C. (Rome), XX, b 759–61, *b* 763
Campani-Alimenis, Matteo, naturalist, IV, b 665
——, Giuseppe, optician, IV, b 665
Campanians, people (Samnites), XXI, b 260, *a* 261
Campaniform branch (Curve), VI, a 639
Campanile, bell-tower, IV, b 665–6; (Architecture), II, b 404; (Piacenza), XIX, a 72
—— of Florence (Architecture), II, b 381, b 399; (Giotto), X, a b 545; (Robbia), XX, b 604
—— or "Leaning Tower" (Pisa), XIX, b 128, a 131
——, St. Mark's (Venice) (Ill.), XXIV, a b 161, a 166
Campanili of Moscow, XVI, a–b 884; of Rome, XX, b 856 7
Campanula, plant (Botany) (Ill.), IV, b 80, a b 120, b 122, *a* 123, b 130, a 131, a 135, a 136, b 138; (Harebell), XI, b 427; (Horticulture), XII, b 257, b 299
Campanulaceæ, plants (Botany), IV, a 132
Campanularia, genus (Hydrozoa) (Ill.), XII, b 580, b 586, b 588 note, b 595, b 596
Campanus Ager, district (Capua), V, *a* 71
Campas or Antis, tribe (Peru), XVIII, a 690
Campbell, Arabella Georgina, biographer (Sarpi), XXI, a 328
——, Sir Archibald, general (Burmah), IV, b 497–8
——, Sir Colin, general (Clyde), VI, b 42; (India), XII, b 849, a 850. See Clyde
——, Sir George, governor (Bengal), III, b 492
Campbell, George, theologian, IV, a 666–7
——, Henry R., inventor (Steam-Engine), XXII, *a* 924
——, Hugh, reformer (Presbyterianism), XIX, a 711
Campbell, John, lord chancellor, IV, b 669–71; (Brougham), a 336, b 337, b 339; (Eldon), VII, b 719, b 720, a b 721; (Jeffreys), XIII, b 629, a 630
Campbell, John, historian, IV, a 667; (Wool), XXIV, b 688
——, John, editor (Newspapers), XVII, b 444
——, John, envoy (Persia), XVIII, a b 661
——, J. F., antiquary (Celtic Literature), V, b 272, a 284; (Gaelic), X, a 10, b 11, b 13
——, John Macleod, theologian (Macleod), XV, a *b* 164; (Scotland), XXI, b 563
——, J. Mason, jurist (Taney), XXIII, b 921
——, Robert Macgregor. See Rob Roy
Campbell, Thomas, poet, IV, a 667–9; (Poetry), XIX, b 284; (Universities), XXIII, a 910
Campbells, clan (Argyllshire), II, a 438, b 440; (Inverary), XIII, b 204
Campbell's tomb (Architecture), II, b 339–40; (Egypt), VII, a 670
Campbeltown, IV, a b 671; (Argyllshire), II, a *b* 440, a 441; (Inverness), XIII, b 306
Campe, Joachim Heinrich, educationist, IV, b 671
Campeachy or Campeche, town, IV, b 671; (Honduras, British), XII, b 137; (Yucatan), XXIV, a 796
——, state (Mexico), XVI, a 223, a b 910; (Yucatan), XXIV, *b* 795, *a* 796; logwood of (Dyeing), VII, a 494
Campeador, El, title (Cid), V, *a* b 676
Campeggio or Campeggi, Lorenzo, cardinal, IV, b 671–2; (Luther), XV, *b* 78
Campellensis, schoolman. See Champeaux, William of
Camper, island (Holland), XII, b 62
Camper, Petro, anatomist, IV, a 672; (Anatomy), I, b 714
Camperdown, battle of, 1797 (Duncan), VII, b 460
—— Linen Works (Dundee), VII, a 463
Camphire of Canticles (Henna), XI, b 583, a 584
Camphor, gum, IV, a b 672; (Áchín), I, b 90; (Chemistry), V, b 485; (Cubebs), VI, a 604; (Forest), IX, *b* 356; (Incense), XII, a 757; (Japan), XIII, b 584; Formosa (China), V, a b 553
Camphors (Oils), XVII, b 769
Camphuysen, Dirk Rafaelsz, painter, IV, b 672
Campi, Antonio, painter, IV, b 672
Campi, Bernardino, painter, IV, b 672
Campi, Guilio, painter, IV, b 672
Campian, Edmund, Jesuit, IV, b 672-3; (Parsons), XVIII, a 333
Campidanese dialect (Italy), XIII, b 503-4
Campidano, plain (Sardinia), XXI, b 322, a 323
Campigliono, Boninus de, sculptor (Verona), XXIV, a 187
Campion, plant (Botany) (Ill.), IV, b 118, b 135; Sea, or Silene (Botany) IV, a 119
Campistron, Jean Galbert, poet (Drama), VII, a 367, b 368, note
Campli, town, IV, a 673
Camp-meetings (Dow), VII, b 330; (Methodism), XVI, b 200
Campobasso, city, IV, a 673
Campobello, town, IV, a 673
Campobello di Licata, town, IV, a 673
Campodea, genus (Insects), XIII, b 160
Campodeidæ, family (Myriapoda), XVII, a 124
Campo Formio, treaty of, 1797 (Italy), XIII, b 495; (Napoleon I.), XVII, b 206–7. See Treaty of
Campolólas, race (Cazembe), V, b 244
Campomanes, Pedro Rodriguez, Conde de, IV, a 673; (Political Economy), XIX, b 376; (Spain), XXII, b 355
Campo de Montiel (Spain), XXII, b 309
Campophagidæ, group of birds (Oxynotus), XVIII, b 109
Campo Santo, Pisa (Cloister), VI, a 36; (Gozzoli), XI, a 23; (Pisa), XIX, *a* 130, a 131
Campos geraes, districts (Brazil), IV, *a* b 203
—— Tierra de (Spain), XXII, b 313
Campus Martialis (Rome), XX, b 851; Martius (Mars), XV, *a* b 577; (Rome), XX a 825, b 832, note
—— Mendacii (Gregory IV.), XI, b 157
Cams (Clocks), VI, a b 29, a 30, a b 33; (Mechanics), XV, a 769
Camuccini, Vincenzo, painter, IV, a b 673
Camul, town. See Hami
Camulodunum, town (Colchester), VI, a 113
Camulogenus, general (Paris), XVIII, b 292
Camus Armand Gaston, bibliographer, III, a b 573
Camus, Charles Etienne Louis, mathematician, IV, b 673
Camwood (Dyeing), VII, a 498; (Sandalwood), XXI, a 269
Cana of Galilee, village, IV, b 673; (Galilee), X, b 26; miracle at (English Literature), VIII, b 373
——, town (Dahomey), VI, a 675
Canaan, geographical name, IV, b 673–4; conquest of (Pentateuch), XVIII, a b 523
Canaanites, people, IV, a 674–5; (Hittites), XII, a b 29; (Israel), XIII, a 406, a b 407, a b 410, *a* b 411, b 415, note, b 418, note; (Moab), XVI, a b 557; (Palestine), XVIII, b 178, a 179, b 180, a 182; (Phœnicia), b 816; (Priest), XIX, *b* 746, a b 747, note, a 748; (Prophet), b 837, a 839; worship of (Tabernacles), XXIII, *b* 10
Canace, bird (Grouse), XI, b 198
Canachus, sculptor (Archæology), II, b 306
Canada, country (Plate XXXV), IV, b 675–91
  agriculture, a b 685
  climate, a 679 82
  commercial and railway statistics, b 687–9
  confederation of, a b 676
  courts, a 689
  education, b 689–90
  extent, a 678
  fisheries, a b 684
  forests and lumbering, a 683–4
  furs, b 684–5
  general remarks, b 690
  history, b 675–7
  inhabitants, a 678–9
  meteorological tables, 680–1
  minerals, a 686
  reciprocity with the U. S., a b 677
  trade, history of, a 686–7
  vegetation, b 682–3
  water system, a b 679
—— (America), I, b 597, b 624; (Birds), III, a b 652; (Coal), VI, a 57; (Copyright), b 321–2; (Corn Trade), VI, b 367; (Federal Government), IX, b 55–6; (Fisheries), a 232–3; (Forests), b 356–7; (Franklin, B.), b 628; (Geology), X, a 301; (Halifax, N. S.), XI, a 344; (Episcopacy), VIII, b 436; (Indians), XII, b 870–1; (Insurance), XIII, b 174–5, a 190; (Libraries), XIV, b 533, b 552
—— (Metcalfe), XVI, a 111; (Methodism), b 199; (Militia), a 314; (Army), II, a 519; (Mining), XVI, b 491; (National Debt), XVIII, *a* 254; (Patents), XVIII, a 362; (Post-Office), XIX, b 594, *b* 601; (Precedence), a 687; (Prison Discipline), a 777
—— Railways (America), I, a 628; (Brassey), IV, a 198; (Pacific Railway), XIX, a b 921; (Railway), XX, a 263, note
—— (Savings Banks), XXI, a 346; (Universities), XXIII, b 912–3
——, boundary of (United States), XXIII, a 840; Catholic missions in (Propaganda), XIX, b 833–4; cattle of (Quarantine), XX, a 165; coins of (Mint), XVI, a 505; early colonial relations of (United States), XXIII, b 781–3, *b*

Canada, *continued*
787, a 788; fauna of (Distribution), VII, *a* 239; French explorers of (Geography), X, a 164, a 167, a 170; invasion of, 1775 (United States), XXIII, a 700; 1812-13 (United States), a b 808; iron sand of (Iron), XIII, b 293, learned Societies of, XXII, 234, a b 237, a 238, *a* 239, a b 240; limestone (Foraminifera) (Ill.), IX, b 336-8, a b 339; provinces and (Alexander, Sir W.), I, a 436; settlement of (United States), XXIII, b 781-2
—— Balsam, III, a 253; (Fir), IX, a 196; (Light), XIV, a 617
—— goose (Bustard), IV, b 515
—— Jay, XIII, b 621, a 622
—— Thistle, XXIII, b 327, note
—— Porcupine, XIX, a 533
Canadian or Red river (New Mexico), XVII, a 410; (Texas), XXIII, a 220
Canadol, petroleum spirit (Oils), XVII, a 764
Cañaigre, plant (New Mexico), XVII, b 411
CANAL (Ill.) (Plate XXXVI), IV, a 691-701
  Bridgewater canals, a 692
  Caledonian (Plate XXXVI), b 695-6
  Central American ship canals, b 700-1
  construction, b 692-3
  dykes in England, Roman, b 691-2
  Holland (Ill.) (Plate XXXVII), a 696-7
  invention of locks, a 691
  Languedoc canal, b 691, a 695
  planes and lifts, a b 693
  proposed ship canals (Map), b 699-701
  ship canals, a 695-701
  Suez (Ill.) (Plate XXXVI), a 697-9
  traffic, modes of, a 694-5
  water control, b 692, b 693
—— (Bridgewater), IV, a 309
—— (Bromberg), IV, b 325; (Green Bay), XI, b 145; (Haarlem Lake), b 318; (Keokuk), XIV, a 47; (Loanda), XIV, b 748; (Louisville), XV, a 24; (Marseilles), b 579; (Oxford), XVIII, b 96; (Rhone), XX, a 543
——, Bari Doab (Lahore), XIV, *a* b 212, a 213; Basingstoke (Hampshire), XI, b 334; Beaucaire (Gard), X, a 68; Caledonian (Ill.), IV, b 695-6; (Inverness), XIII, a b 205, a 207; Castilla (Palencia), XVIII, a 172; Crinan (Argyllshire), II, b 440; Edinburgh and Glasgow Union (Aqueduct), II, b 200; Ellesmere (Aqueduct) (Plate IV), II, a 200; (Montgomery County), XVI, a 815; El-Mo'izz (Egypt), VII, a 651; Euphrates-Tigris (Persia), XVIII, a 616; (Euphrates), VIII, *a* 588; Forth and Clyde (Dumbarton), VII, a 453; Ganges (Aqueduct), II, a 194; Glamorganshire (Cardiff), V, a 83; Grand (China), V, b 548-9, a 552; Grand (Ireland), XIII, *b* 222; Grand Junction (Middlesex), XVI, b 291; (Uxbridge), XXIV, b 27
——, interoceanic, IV, b 699-701; (Athos), III, a 14; (Baltic), III, a b 254; (Black Sea), b 692; (Colombia), VI, *a* 138; (Malay Peninsula), XV, a b 323; (Panamá), XVIII, a b 213; (Schleswig-Holstein), XXI, b 432; (Siam), b 890; Suez, XXII, *a* b 653; (Ill.), IV, a 697-9; (Palmerston), XVIII, a b 201
——, Languedoc (Andreossi), II, *a* 20; Mahmoudieh (Alexandria), I, b 437; Miami (Cincinnati), V, a 684; Oginski (Slonim), XXII, b 170, a 171; Paddington (Middlesex), XVI, b 291; Regents (Middlesex), a 292; Rideau (Ottawa), XVIII, b 71, b 72; (Ireland), XIII, b 222; Saima (Viborg), XXIV, *a* 226; Sault Ste. Marie (St. Lawrence), XXI, a 187; Sommelsdijk (Guiana), XI, b 223, b 224; traffic, English (Railways), XX, a 231; tunnels (Tunnelling), XXIII, a 663; Western Jumna (Hissar), XII, a b 4
CANAL or Canaletto, Antonio, painter, IV, a 702; (Guardi), XI, b 209-10
——, Bellotto or Bernardo, painter, IV, a 702
Canaletto views (Venice), XXIV, b 170
Canaliculi of bone (Anatomy), I, b 749
Canaliculus, channel (Ophthalmology), XVII, a b 808
Canalization (River Engineering), XX, a b 588; (St. Lawrence), XXI, a 190
Canals (Amsterdam), I, a 684, a 685; (Aragon), II, a b 267; (Arles), b 476; (Belgium), III, a 445; (Brindley), IV, b 313; (Bruges), a 356; (Calcutta), a 585; (Cattack), V, b 211; (Danube), VI, a b 721; (Derby), VII, a 93; (Devonshire), a 123; (Dismal Swamp), b 225; (Dnieper), a 266; (Ebro), a 536; (Egypt), *a* 611, a b 613, *a* b 615; (England), VIII, a 216; (Europe), a b 623; (France), IX, b 457, a 458; (Germany), X, b 413; (Gloucester), *a* 615; (Gothenburg), *b* 751; (Hérault), XI, b 639; (Holland), XII, a 63, a b 64, a 63; (Hudson River), b 315; (Hungary), a 377; (Hydromechanics), b 517-30; (Illinois), b 743
Canals (India), XII, b 792-3, a 795; (Lancashire), XIV, a 253; (Lincoln), a 661; (Loire, river), a 816; (London), XIV, b 832-3; (Manchester), XV, b 468; (Maryland), b 610; (Meerut), *a* 835; (Merv), XVI, b 47, a b 48; (Meurthe-et-Moselle), a 213; (Meuse), a b 213, b 214; (Minsk), b 501; (Morbihan), a 839; (New York), XVII, b 467, b 469; (Northampton), a 569; (Nova Scotia), b 617; (Novgorod), b 621; (Oder), a 745; (Paris), XVIII, a 279, a 280 note, a 285, a b 291; (Poland), XIX, a 319; (Prussia), XX, a 20; (Quebec), b 173; (Russia), XXI, a *b* 80; (Scotland), b 553; (Seine), *a* 655; (Tver), XXIII, b 714
——, ancient (Babylonia), III, *b* 159; (Mesopotamia), XVI, a 52, *b* 55, a 56; Champlain system (St. Lawrence), XXI, b 190
——, Erie system (Canada), IV, a 687; (New York), XVII, b 467, b 469; (St. Lawrence), XXI, a b 188-9; (Wright), XXIV, a b 921
——, irrigation (Hydromechanics) (Ill.), XII, b 500-3; Indian (Irrigation), XIII, b 379, a b 380; (Jumna), b 782, a 783; (Sistán), XXII, a 109; navigation of (Russell, J. S.), XXI, b 72; Ontario system (St. Lawrence), *b* 189; Ottawa system (St. Lawrence), a 190; speed on (Wave), XXIV, b 440-1
——, semicircular (Ear), VII, *a* 512
—— of Labyrinth in Anatomy, I, *a b* 784, a b 785, *a* 786
Canals, Antoni, translator (Spain), XXII, a 378
Canal System of Sponges, XXII, b 428-31
CANANDAIGUA, town, IV, a 702; lake, a 720
Cananus, Joannes, historian (Byzantine Historians), IV, b 545
Cañar, town (Ecuador), VII, b 562
Canara, district. See KÁNARA
Canards, outcasts (Cagots), IV, b 569
Canarea, colony (Brazil), IV, b 211
Canarese Dictionaries, VII, b 165
Canaries, islands. See CANARY ISLANDS
Canaris or Kanaris, Constantine, patriot (Greece), XI, b 111; (Samos), XXI, b 262
Canarium, tree (Elesmi), VIII, a 116
CANARY, bird, IV, a b 702; (Birds), III, b 655; (Finch), IX, b 167, a 168; breeding (Kaluga), XIII, b 839
—— glass (Light), XIV, a b 607
CANARY ISLANDS, IV, b 702-6
  history, b 702-3
  industries, b 703-4
  lesser islands, a b 706
  natural history, a b 704
  people and government, a b 703
  Teneriffe, b 704-5
—— (Africa), I, a 234, b 243; (Bach), IV, a 370; (Cochineal), VI, b 89, a 90; (Distribution), VII, a 235; (Geography), X, a 161; (Map), XV, a 528; (Spain), XXII, a b 312, a b 315, b 318; (Wine), XXIV, a 640
—— Pine, XIX, a 114
Canas, people (Peru), XVIII, b 689
Canaye de Fresne, Philippe, statesman (Casaubon), V, *a* 151
Canby, Edward Richard Sprigg, general, *b.* 1817, *d.* 1873 (Indians), XII, b 873
CANCALE, town, IV, b 706
Cancan, Greek (Drama), VII, a 352
CANCAO, Cancar or Kang-Kao, town, IV, b 706-7
Cancellarius (Chancellor), V, b 336
CANCER or Carcinoma, IV, a b 707; (Medicine), XV, b 805, a 806; (Pathology) (Ill.), XVIII, a b 386, 387-91, a 399; (Throat Diseases), XXIII, a 342; fat tissue (Pathology), XVIII, a 398; of the breast (Pathology), XVIII, b 391-2; gastric (Stomach), XXII, a b 604; of liver (Jaundice), XIII, *b* 609
Cancer, sign (Zodiac), XXIV, b 829, b 830, a 831, a 834
Canche river (Pas de Calais), XVIII, b 344
Cancioneiros, songs (Portugal), XIX, a 570
CANCRIN, Franz Ludwig, mineralogist, IV, b 707-8
Cancrinite (Mineralogy), XVI, a 430
Cancroma, bird (Heron), XI, a 681, note
Candace, queen (Meroe), XVI, b 45
Candahar, city. See KANDAHAR
Candeish, district (Khándesh), XIV, b 58-9
CANDELABRUM, IV, a 708; Milanese (Metal-work), (Ill.), XVI, b 80; of Seville (Metal-work), a 82
CANDIA, city, IV, 708; (Crete), VI, a b 504, b 505, a 506; capture by Turks, 1669 (Venice), XXIV, a 159
——, island (Crete), VI, b 503-6; (Weights and Measures), XXIV, a 518
CANDIAC, Jean Louis Pierre Elizabeth de, prodigy, IV, a 708
Candida Casa, shrine (Scotland), XXI, b 496
Candide, Voltaire's play (Pessimism), XVIII, b 700; (Voltaire), XXIV, b 310, b 312, a 313
Candiota Coal-field, VI, a 57
CANDLE, IV, b 708-10; (Flame), IX, *b* 246; (France), IX, b 460; (Oils), XVII, *b* 765, a 768; (Ozocerite), XVIII, b 116; (Paraffin), a b 244; (Petroleum), a 802; (Spermaceti), XXII, a 411; (Tallow), XXIII, a 40
——, electric (Lighting), XIV, b 639, note
CANDLEMAS, festival, IV, a 710; (February), IX, a 54
Candle nut tree (Hawaiian Islands), XI, b 473; oil (Oils), XVII, a 765, b 766

Candle-power (Gas and Gaslighting), X, a 80, *a* 81, *b* 89, *a* b 90
CANDLESTICK, IV, a 710
CANDLISH, Robert Smith, theologian, IV, a 710-1
Candolle, botanists. See De Candolle
Candy (Confectionery), VI, a b 228
——, weight (Weights and Measures), XXIV, *a b* 518
—— tuft, plant (Horticulture), XII, a 259
CANE, plants, IV, a 711
—— brakes (Mississippi), XVI, a 545
—— sugar (West Indies), XXIV, a 538, *a* 540
—— sugar (Physiology), XIX, b 57; (Sugar), XXII, *b* 655, *a b* 656, *a b* 657, a b 658-9, *b* 661
CANEA or Khania, city, IV, a b 711; (Crete), VI, *a* 504, b 505, a 506
CANEPHORI, title, IV, b 711
Canestrini, Guiseppe, editor (Guicciardini), XI, a 228
Cañete, Don Andres Hurtado de Mendoza, marquis of, viceroy (Peru), XVIII, a 691
Canevari, Demetrio, physician (Bookbinding), IV, b 37
Canfinny, chief (Primogeniture), XIX, b 754-5
CANGA-ARGUELLES, Jose, statesman, IV, b 711
CANGIAGI or Cambiaso, Luigi, painter, IV, b 711-2. See GENOVA, Luchetto da
Can Grande, Francesco della Scala, duke of Verona, XXIV, b 187; (Dante), VI, b 714, b 715
CANICATTI, town, IV, a 712
Canidæ, family (America), I, a 599, b 600; (Dog), VII, b 281; (Mammalia), XV, a 444
Canigou, mountain (France), IX, b 445; (Pyrénées), XX, a b 134
CANINA, Luigi, archæologist, IV, a 712; (Architecture), II, *a* 338, a 340, a 343, a b 344, a 346, b 362, a 363, *b* 400; (Rome), XX, a 836, a 837 note, b 840 note, a 850 note, a 854, b 859
Canine teeth (Ape), II, b 144-5; (Dentistry), VII, a b 84; (Digestive Organs), b 202, a 206; (Mammalia), XV, a *b* 355, *a* 356
CANINI, Giovanni Agnolo, engraver, IV, a 712
——, Marcantonio, engraver, IV, a 712
Canis. See Canidæ
Canisius, Peter, theologian, (Catechism), V, b 191
Canisp mountain (Sutherland), XXII, a 764
Canister, ammunition (Artillery), II, b 575
Canities, disorder (Skin Diseases), XXII, b 129
CANITZ, Friedrich Rodolph Ludwig, Baron von, poet, IV, a 712; (Germany), X, a 475
Canna, plant (Botany), IV, b 116, b 121, a 123, b 124, a b 130, a 134
——, weight (Weights and Measures), XXIV, a b 518
Cannabene, oil (Hemp), XI, a 579
Cannabin, resin (Hemp), XI, a 579
Cannabis (Hemp), XI, b 577-9; indica (Insanity), XIII, a 109
CANNÆ, town, IV, a 712; battle of, 216 B.C. (Hannibal), XI, a 396; (Rome), XX, a 768
Cannanore islands (Laccadives), XIV, b 183, *a* 184
——, town (Kananúr), XIII, b 843; (Malabar), XV, *a b* 315
Cannel Coal, VI, b 43, a 45, b 47, b 49; (Gas and Gaslighting), X, *a* b 80, a 89, b 90, *a* 91; (Jet), XIII, a 684; (Mineralogy), XVI, b 448
CANNES, town, IV, a b 712; (Brougham), b 342
CANNIBALISM, IV, b 712-4; (Andaman Islands), II, a 12; (Australia), III, b 98-9; (Egypt), VII, a 652; (Fiji Islands), IX, *b* 137; (Gypsies), X, a 547; (Hawaiian Islands), XI, b 472; (Lycanthropy), XV, b 90, a 93; (Negro), XVII, b 326-7, note; (Niam-Niam), *b* 486, b 487; (New Caledonia), *a* 386; (Polynesia), XIX, a 440; (Sacrifice), XXI, a b 144, b 145, note; (Solomon Islands), XXII, a 266; reminiscences of (Tales), XXIII, b 33
Cannibals (America), I, a 617; Mediterranean (Cave), V, b 234
Canning food (Preserved Food), XIX, a 728
CANNING, Charles John, earl, governor-general, IV, b 715-6; (Dalhousie), VI, b 684, a 685, a b 686, note; (Elgin and Kincardine), VIII, a b 124; (Ellenborough), b 137; (India), XII, b 848-50
CANNING, George, premier, IV, a 714-5; (Brougham), *b* 338, a 340; (Corn Laws), VI, a 365; (Frere, J. H.), IX, b 674, a 675; (George IV.), X, *b* 385; (Huskisson), XII, a b 419; (Irving, E.), XIII, a 382; (Londonderry), XIV, b 864, *a b* 865; (Malmesbury), XV, a 339; (Metternich), XVI, b 210; (Palmerston), XVIII, a 198; (Peel), b 464, b 465; (Pitt), XIX, a 156, a 157; (Slavery), XXII, b 149; (Turkey), XXIII, a 691; (United States), b 810
——, Joan Scott, viscountess, IV, b 714, b 715
——, Stratford. See STRATFORD DE REDCLIFFE
—— Park Farm (Agriculture), I, b 306, a 307, b 333
Cannobio, town (Maggiore), XV, *b* 199
Cannon (Arms and Armor), II, b 488; (Iron), XIII, a 297; (Thousand and One Nights), XXIII, a 338; first (Artillery), II, a b 573; (Gunpowder), XI, b 284; powder (Gunpowder), a 291, a b 293, *a* b 294
Cannon, George Q., counsellor (Mormons), XVI, a 854
—— bone (Horse), XII, a 181; (Skeleton), XXII, b 125
——, game (Bagatelle), III, b 198
—— street (London), XIV, b 831, b 848, a 851, b 852, a 862; station, London (Railway), XX, a b 244, a 248
Cannstadt, town. See CANSTATT
CANO, Alonzo, painter and sculptor, IV, a 716; (Wood-Carving), XXIV, b 682; (Sculpture), XXI, a 594
CANO or Canus, Melchior, bishop, IV, a 716; (Jesuits), XIII, b 660
——, Sebastian del, navigator (Geography), X, b 163
CANOE, boat, IV, a 716-7; (Archæology), II, b 296; (Birch), III, b 603; (Eskimo), VIII, b 481-2; (New Guinea), XVII, a 399; (Ship), XXI, a b 841; (Solomon Islands), XXII, b 266; (Tahiti), XXIII, a 29
—— valley (Pennsylvania), XVIII, b 509, b 510
Canon, Alexandrian (Aristophanes), II, b 448
CANON, Biblical, V, a 3-15
  BIBLE, CHRISTIAN CANON OF, a 11-15
   eastern forms of, a 13-4
   Greek church, a b 11, b 13, a 14, a 15
   Latin church, early, b 12-3
   methods, b 12-3
   modern writers, a 15
   Reformation forms, a b 14
   Roman Catholic, b 14-5
  definitions, a b 3
  NEW TESTAMENT, first three centuries, b 7-11
   apostolic fathers, a 8 9
   heresiarchs, early, b 7-8
   later fathers, a 9-10
   principles of canonists, a 10-11
  OLD TESTAMENT, b 3-7
   Alexandrian, a 6-7
   apostles and early fathers on, a b 7
   canon in Sirach, a b 4
   divisions of, b 5-6
   Ezra and Nehemiah, b 3-4
   Rabbinical and Talmudic, b 4-5
   Samaritan, a 6

——, Alexandrian, V, a 6-7; (Bible), III, b 549
——, Christian (Bible), III, a b 557
—— of Muratori (John, Epistle of), XIII, b 718; (Jude), b 771-2, note
——, New Testament, V, b 7-11; (Tatian), XXIII, a 88
——, Old Testament, V, b 3-7; (Apocrypha), II, a 159, a 160, a 161; (Bible), III, a b 549, a 559; (Ecclesiastes), VII, a 542; (Israel), XIII, b 438
——, Roman Catholic (Trent, Council of), XXIII, a 580
CANON, church official, V, a b 15; (Cathedral), *a* 199
Canon of Kings (Chronology), V, b 620
"Canon" of the mass (Missal), XVI, a 532
Canon of Medicine (Avicenna), III, b 133, a 134, a 135; (Gerard), X, b 395
Canon, musical (Hymns), XII, a 615; (Music), XVII, a 90; (Palestrina), XVIII, b 183-4
Canon of sacred books (Buddhism), IV, b 381, *b* 387, b 389, a 390
CANON LAW, V, b 15-21
  Apostolic, b 15-6
  bibliography, a b 21
  Corpus Juris Canonici, b 17-9
  definition, b 15
  Eastern church, a 16
  False decretals, b 16-7
  mediæval history, b 19-20
  present authority of, b 20-1
  Western church, a 16-20

—— (Affinity), I, a b 203; (College), VI, b 128; (Consanguinity), a 260; (Decretals), VII, a 21; (Divorce), b 261; (England, Church of), VIII, b 338, b 341; (Gratianus, F.), XI, a b 54; (Heresy), b 655, b 656, *a* 657-8; (Indulgence), XII, b 887, a 888
—— (Political Economy), XIX, a 365; (Popedom), b 513, a 515, a 523; (Simony), XXII, b 91-2; (Sunday), *a* b 689; (Torture), XXIII, b 492
——, Anglican (Cranmer), VI, a 488; commentaries (Andrea), II, b 19; schools (Universities), XXIII, a b 888, a b 889, *a b* 891, a 894; (Will), XXIV, a 602; (Witchcraft), a b 653; (Witness), *b* 657; (Women), b 672, a 677
Canon type (Typography), XXIII, a 743
Canongate, village (Edinburgh), VII, a *b* 572, a 574
CANONICAL, adjective, V, b 21; Hours, b 21; (Breviary), IV, a 235
—— impediments (Clergy), V, b 722-3
—— opposition to Usury, XXIV, b 23
Canonici of St. Geneviève, X, a 137
CANONIZATION, V, b 21-2; (Alexander III.), I, b 430; (George, St.) X, a 386, note; (Gregory IX.), XI, a 159; (Gregory XV.), a 160; (Liguori), XIV, a 643
CANONS, APOSTOLIC, II, b 170; (Dionysius Exiguus), VII, b 216
Canons, Book of, 1636 (Presbyterianism), XIX, a 702, b 706; (Scotland), XXI, b 533, b 534
Canons, Buddhist sacred (India), XII, *a* 824, a 825
——, English (Burial and Burial Acts), IV, *a* 4 0

Canons, mathematical: "C. fœcundus" (Tables), XXIII, a 13; *C. Mirificus* (Napier, J.), XVII, b 185, b 186, a b 187, *a* b 188, b 191; "C. triangulorum" (Gunter), XI, b 295
Canons, monks, Black Austin (Abbey), I, a b 25; regular (Monachism), XVI, b 725, b 733, a 734, b 741, a 742; of the Holy Sepulchre, XXI, a b 702; White (Abbey), I, b 25
Cañons, gorges (California), IV, a 618, a 619; (Colorado River), VI, a 147; (Mexico), XVI, a b 224; (Nebraska), XVII, a 317; (Oregon), a 846; Bad Lands (United States), XXIII, b 849; (Washington), XXIV, *a* 407; (Yellowstone Park), b 773. See Grand Cañon
Canopic vases (Pottery and Porcelain) (Ill.), XIX, a 621
CANOPUS or Canobus, town, V, b 22
Canopus, pilot, V, b 22
Canopy in Architecture, II, b 340, b 404-5
CANOSA or Canusium, city, V, b 22; tombs (Terracotta), XXIII, b 210
Canossa, Henry IV. at (Germany), X, b 438; (Henry IV.), XI, b 595
——, House of (Italy), XIII, a 482
CANOVA, Antonio, sculptor, V, b 22–a 25; (Cicognara), b 675; (Gibson, J.), X, *b* 524; (Sculpture), XXI, a b 597, a 598 note; (Thorwaldsen), XXIII, b 335; (Titian), b 442; (Venice), XXIV, b 169
Cánovas del Castillo, Antonio, historian (Spain), XXII, a 376
Cansay, city (China), V, b 546
Canso, song (Provençal Literature), XIX, b 900
Canso or Canceau, Gut of (Cape Breton), V, b 36; (Nova Scotia), XVII, *a* 616
CANSTATT or Cannstadt, town, V, a 25; (Stuttgart), XXII, *a* 646; (Würtemberg), XXIV, a 737
CANSTEIN, Karl Hildebrand, count of, author, V, a 25
Cantabri, tribe (Cantabria), V, b 25; (Spain), XXII, a 322
CANTABRIA, district, V, b 25
Cantabrian mountains (Lugo), XV, a 62; (Spain), XXII, *b* 307, a 308, b 309, a 310
Cantacuzene, Serban, voivode (Roumania), XXI, b 22
CANTACUZENUS, Johannes, emperor, V, b 25–6; (Byzantine Historians), IV, b 545; (Greece), XI, b 107
CANTAGALLO, town, V, a 26
CANTAL, department, V, a 26
Cantaloupe (Melon), XV, *a* 850
CANTARINI, Simone, painter, V, a b 26
Cantaro, weight (Weights and Measures), XXIV, *a* 518
Cantata (Carissimi), V, b 94; (Music), XVII, b 93, b 95
Canteens, field hospital (Ambulance), I, a 587
CANTEMIR, Antiochus, poet, V, b 26
CANTEMIR, Demetrius, voivode, V, b 26; (Dmitrovsk), VII, a 266; (Roumania), XXI, a 25
Canter, pace (Horse), XII, b 200
"Canter of Coltbrig" (Charles Edward), V, b 369
Canterbury, province (Archbishop), II, a b 323; (Archdeacon), b 324; (Convocation), VI, a 289, a b 290–3; dioceses of (England), VIII, b 224
——, primacy of (Scotland), XXI, a b 504, a 506; see of (Grosseteste), XI, b 187, a 188
CANTERBURY, city (Plan), V, b 26-8
—— (Abbey), I, b 19–a 20; (Cloister), VI, b 35–6; (Kent), XIV, *b* 40, *a b* 41; (Libraries), a 512, a 513, a 518, a 543; (Newspapers), XVII, b 432
——, archbishop of (Arches), II, b 331; (Consistory), VI, a 261; (Coronation), *b* 380; (Dispensation), VII, b 225; (Maidstone), XV, b 296; (Trade), XXIII, b 520
—— cathedral (Crypt), VI, a 591; Christmas, V, b 27; chronicles (Gervaise of Canterbury), X, b 493; convocation of, 1640 (Fuller, T.), IX, b 714; hoe (Horticulture) (Ill.), XII, a 239
Canterbury Pilgrims, Procession of (Stothard), XXII, b 607
Canterbury Tales (Chaucer), V, a b 390, b 391, a 392–3; (English Literature), VIII, b 367, a 368; (France), IX, b 564
CANTERBURY, province of New Zealand, V, b 28-9
Canterbury Hall, Oxford (Wycliffe), XXIV, b 744
Cantharidæ, family (Insects), XIII, b 153, b 155
CANTHARIDES or Spanish flies, V, a b 29; (Alexander of Tralles), I, a 430; (Coleoptera) (Ill.), VI, b 120; (Diuretics), VII, a b 253; (Poisons), XIX, a 290
Cantharidin, drug (Cantharides), V, *b* 29
Cantharus, cup (Plate) (Ill.), XIX, a 191; (Pottery), a 632
Canthocamptus (Crustacea), VI, b 587
Canthus process (Coleoptera), VI, b 114
CANTICLES, the *Song of Solomon*, V, b 29–33
  allegorical interpretations, a b 30
  dramatic character, a 31 3
  literal interpretation, b 30
  literature, b 33

—— (Canon), V, a *b* 4, *a* 6
Cantico del Sole (Italy), XIII, b 510
Cantillon, officer (Napoleon I.), XVII, b 232
——, Philippe, merchant (Political Economy), XIX, b 372
Cantilupe, George de, effigy of (Wood Carving), XXIV, b 680
——, Walter de, knight (Worcester), XXIV, b 701
Canting arms (Heraldry), XI, b 615
Cantiones Sacrae (Tallis), XXIII, a b 39
Canto Carnascialesco (Italy), XIII, b 518
"Canto fermo" in music (Palestrina), XVIII, a b 184
Canton, the (Heraldry) (Ill.), XI, b 620, b 630
Canton, political subdivision (France), IX, *b* 450, *a* 451; (Switzerland), XXII, a 816, *a* 817; (Zurich), XXIV, a 871
CANTON, city (Plan), V, b 33–6
  climate, b 35
  English wars, a b 35
  foreign settlement, b 35
  foreign trade, b 34–5
  public buildings, a 34
  topography, b 33-4

—— (China), V, *a* 555, a 556, a 557, b 564, *b* 565, a 566; (Coolie), VI, b 296, b 297; (Peppermint), XVIII, b 528
CANTON, Ohio, town, V, a 36
CANTON, John, electrician, V, a 36; (Electricity), VIII, a b 8, a 93; (Thermodynamics), XXIII, b 307
Canton, M., mathematician (Numerals), XVII, a 642, note
Canton Crape, VI, b 489
CANTU or Canturio, town, V, a 36
Canuleian law (Roman Law), XX, b 696, b 698; (Rome), *a* 757
Canus, Melchior. See CANO
CANUTE or Cnut, king, V, a b 36; (Agelnoth), I, b 249–50; (Chess), V, b 521; (Edmund II.), VII, b 580, *a* 581; (England), VIII, b 259-60; (England, Church of), b 333; (Ethelred), a 501; (Germany), X, *a* 437; (Godwine), a 641; (London), XIV, *b* 853; (Norway), XVII, *b* 601; (Salic Law), XXI, b 225; (Schleswig-Holstein), a 433; (Scotland), *a* 502; (Southampton), XXII, *a* 297; (Winchester), XXIV, b 628 note
Canute IV., Denmark (Esthonia), VIII, b 496
——, St. (Odense), XVII, *b* 744
CANVAS, V, b 36; (Floor Cloth), IX, a b 288; (Painting), XVIII, a 142; (Sail), XXI, b 162–3
Canvasback duck (Pochard), XIX, b 264
Canynge, Storie of William (Chatterton), V, b 386, b 387, a 388, a 389
Canzonet (Metastasio), XVI, a 110
Canzoni (Italy), XIII, b 511
Canzoniere (Dante), VI, b 716–17; (Italy), XIII, a 514; (Petrarch), XVIII, b 720, a b 724, a 725
Caorsini, bankers (Cahors), IV, a 570
Caouana, genus of Tortoise (Ill.), XXIII, a 487, a 488
Caoutchin, hydrocarbon (India-rubber), XII, a 881; (Naphtha), XVII, b 181
Caoutchouc, gum (Botany), IV, a 78; (Chemistry), V, b 502; (Diffusion), VII, b 188; (Fig), IX, a b 135; (Forests), b 355, a 356, a 357, a 358; (India-rubber), XII, b 875–83; (Opium), XVII, b 815
——, mineral (Mineralogy), XVI, a 447
——, Naphtha, XVII, b 181
Caoutchouc tree (Brazil), IV, b 203-4
Cap (Costume), VI, b 416, *a* b 417, *a* 418, a 419
——, mast's defined (Seamanship), XXI, b 632
Capac, Manco, myth (America), I, *a* 613, a 615
Capaccini, Mgr., statesman (Bunsen), IV, b 467
Capaci, town (Manna), XV, a 500
Capacity, coefficients of (Electricity), VIII, a b 26
Capac-urcu, "Chief Mountain" (Ecuador), VII, b 559
Cape Aia (Black Sea), III, b 691
Cape Anguille, range (Newfoundland), XVII, b 391
CAPE BRETON, island, V, b 36–7
Cape Buffalo, IV, a b 396
CAPE COAST CASTLE, town, V, b 37; (Ashantee), II, *b* 595; (Gold Coast), X, b 672, a 673
Cape Cod (United States), XXIII, b 840
CAPE COLONY (Plate I), V, b 37–45
  Cape Town, capital, a b 45
  climate, a b 39
  commerce, b 44-5
  educational features, a b 44
  flora and fauna, b 39–40
  geology and minerals, a b 38
  history, b 40–2
  Kaffre wars, a 41
  people of, b 42–3
  physical features, a 37–8
  political features, a 42, a b 43
  religion, b 43–4
  water system, b 38–9

—— (Africa), I, a 225, a 228, b 229, a b 231, a 237; (Barrow), III, b 344; (Diamond), VII, b 142; (Hottentots), XII, a 323, a 327; (Mining), XVI, b 491; (Missions), XVI, a 538, a 540; (Natal), XVII, a 248; (National Debt), 254; (Newspapers), a 444; (Patents), XVIII, a 362; (Railway), XX, *b* 263
Cape Delgado (Mozambique), XVII, *b* 13
Cape Espichel (Portugal), XIX, a 551
Cape Farewell (Birds), III, b 653

Cape Froward (America), I, b 588; (Tierra del Fuego), XXIII, b 410
Cape Gardafui (Ajan), I, b 383
Cape of Good Hope (Acclimatization), I, a 85; (Africa), a 225, b 241; (Cape Colony) (Map), V, b 39, b 40, b 45; (Dias), VII, b 146; (Mohair), XVI, b 568; (Observatory), XVII, b 736; (Universities), XXIII, b 913; (Wine), XXIV, b 644; (Wool), a 690, a b 697
—— fauna (Distribution), VII, a 236, a 242
—— observations (Herschel), XI, a b 687; Observatory (Meteorology), XVI, a 178, 179, 181, b 182, a 186, a 188; (Micrometer), b 253, b 256, a 260, b 264; (Parallax), XVIII, a 252, a 257
Cape Haytien, town, V, b 45-6
Cape Horn (America), I, b 588, a 595; (Hoorn), XII, b 159; (Seal), XXI, b 610; (Tierra del Fuego), XXIII, b 409, a 410, a 411; first rounding of (Geography), X, b 166
Cape hunting dog (Mammalia) (Ill.), XV, b 445
Cape au Moine, mountain (Freiburg), IX, b 670
Cape Monze (Baluchistan), III, a 259, b 260
Cape Musandum (Arabia), II, a b 205, b 207
Cape Otway (Victoria), XXIV, a b 232
Cape-pigeon (Petrel), XVIII, b 725
Cape Pillar (Tierra del Fuego), XXIII, b 409
Cape polecat (Mammalia), XV, a 447
Cape Prince of Wales (America), I, b 588
Cape St. Charles (America), I, b 588
Cape St. Roque (America), I, b 588; current (Atlantic Ocean), III, b 18
Cape St. Vincent (Portugal), XIX, a b 551; battle of, 1797 (Nelson), XVII, a 331
Cape Tiburon (Hayti), XI, *a* 485
Cape Town, city (Africa), I, a 242; (Cape Colony), V, b 43, *a b* 44, a b 45; (Libraries), XIV, b 533-4, b 552; (Prison Discipline), XIX, a 777
Cape Verd Islands, V, a 46-48; (Africa), I, a 237, b 243; (Map), XV, a b 528
Cape Vostochnejio (Asia), II, b 597
Cape Wrath (Scotland), XXI, b 549
Cape York, peninsula (Queensland), XX, *a* b 178, b 179, a 180, a 181
Capefigue, Baptiste Honore Raymond, historian, V, a 48
Capel, Arthur, Lord, general, V, a 48
Capel Fell, mountain (Selkirk), XXI, a 670
Capelin, fish (Salmonidæ), XXI, b 231, a 232, b 234
Capell, Edward, critic, V, a b 48
——, Lewis (Amyraut), I, a 687
Capella, Martianus Mineus Felix, author, V, b 48
Capella, Martianus Minæus Felix, encyclopædist (Encyclopædia), VIII, b 174; (Romance), XX, *b* 652; (Scholasticism), XXI, b 437
Capellan, Fort van der (Sumatra), XXII, a b 672
Capellante, Mount (Brecon), IV, a 218
Capellen, Theodorus Frederik, admiral (Algeria), I, a 499
Capellianus, governor (Gordianus), X, a 695
Capello, Joao Carlos de Brito, meteorologist (Meteorology), XVI, b 179-80, a 181, b 183, b 186, a 190
Capellus, Louis, theologian (Inspiration), XIII, b 163
Capercally or Capercailzie, grouse, V, b 48-9; (Birds), III, a 634, b 638, b 668; (Touch), XXIII, a 509
Capernaum, city, V, b 49; site of (Galilee), X, b 27-8
Caperole, Peter, friar (Franciscans), IX, b 615
Capers, plant, V, b 49
Capet, family, V, b 49-50; House of (France), IX, b 473; (Paris), XVIII, b 293-5
——, Hugh, king (Abbot), I, b 29; (Popedom), XIX, a 512
Capgrave, John, historian, V, a b 50
Caphareus, promontory (Eubœa), VIII, a 569
Caphtor, country (Philistines), XVIII, b 769, b 770, note, a 771
Capias, writ of (Writ), XXIV, a *b* 730, b 731, *a* 733
Capillaries (Anatomy), I, b 703, b 742, a 753, a 789, a 795; cardiac (Anatomy), a 792; development of (Anatomy), b 797; hepatic (Vascular System), XXIV, b 118; lymph (Anatomy), I, *a* 797; of Mollusca, XVI, b 656; pressure in (Vascular System), XXIV, a 117
Capillarity of Barometer, III, b 329
Capillary Action, V, b 50-64
  drop between plates, b 58
  films in figures of revolution, b 59-62
    catenoids, stability of, b 61-2
    cylinder, stability of, a b 61
    jets, stability of, b 61
    meridian line, forms of, b 60-1
  forces concerned, b 50
  form of, b 57-8
  history of discoveries, b 50-3
  plane surfaces, stability of, a b 62
  plates, rise of liquids between, b 57
  surface tension, experimental laws, a 56-7
    tables of, b 63-4
    under temperature, b 64
    variations of, b 58-9
  tension of liquid films, b 53-6
  theory of, a b 53
  wave velocity, a b 63
—— (Electrolysis), VIII, b 102-3; (Hydrometer), XII, a 570, a 571; (Perpetual Motion), XVIII, a b 566
—— Bronchitis, IV, *a* b 327
—— circulation (Hall, Marshall), XI, b 348; (Harvey), b 450; (Leeuwenhoek), XIV, a b 411; (Malpighi), XV, b 340; (Vascular System), XXIV, a b 106, a b 112, b 114-5, a *b* 117; discovery of (Vascular System), a 117
—— Electrometers, VIII, b 115-6; forces (Laplace), XIV, a 303; penetration of water (Geology), X, b 239
Capìs or Capiz, town, V, a 64
Capistrano, Giovanni di, preacher, V, a 64; (Hungary), XII, a 383
Capital, V, a 64-5
—— (Value), XXIV, *a b* 56, a 57; (Wages), a b 330; (Workingmen of U. S.), XXIV, a b 917
——, agriculture and (Land), XIV, a b 267, a b 268-9
—— of Bank of England (Banking), III, a 274; of Bank of France (Banking), a b 291, a 292
——, British aggregate (England), VIII, b 233-4
——, collective (Socialism), XXII, a 218, *b* 231; distribution of (Socialism), a *b* 217, b 221, a 223, a 224, a 225, a 228, b 229-30, b 231-2
——, farming (Agriculture), I, a 362, *b* 365, a 366
——, fixed and circulating (Political Economy), XIX, b 380-1, b 382
——, Irish, estimated (Ireland), XIII, a b 241-2
——, Marx on (Socialism), XXII, b 223-5
——, mediæval (Company), VI, a b 199, a 200
——, national (National Debt), XVII, b 249-50
——, tax on (Finance), IX, a 163, b 166-7; (Taxation), XXIII, *a* b 94
Capital cities, Fortification of, IX, a 412-3
Capital punishment (Brehon Law), IV, a 227; (Burmah), a 494; (China), V, b 581; (England), VIII, a 266; (Hartford), XI, b 444; (Italy), XIII, b 473; (Lollards), XIV, *b* 821; (Prison Discipline), XIX, a 767; (Romilly), XX, a 861; Athens (Socrates), XXII, b 244; Belgium (Prison Discipline), XIX, b 778
Capital writing, Roman (Palæography), XVIII, a b 156
Capitalists, estimate of (Smith), XXII, b 181; (Political Economy), XIX, b 380; mode of extinguishing (Rodbertus), XX, b 632; rise of (Political Economy), XIX, b 365
Capitals, columnar (Architecture), II, a 405; composite (Architecture), b 365; Corinthian (Architecture), Plate XII, b 356, *a* 357, b 364; Doric (Architecture), a 354, a 355, a 358; Ionic (Architecture), b 355, *a* 356; (Venice), XXIV, b 163-4, a b 166
Capitanata, province, V, b 65
Capitate Mint, XVI, a 515
Capitation taxes (Taxation), XXIII, a 95
Capitis deminutio, process (Roman Law), XX, a b 705, b 706, a 712, a 721, b 733
Capito, Cneius Ateius, jurist (Labes), XIV, b 164, *a* 165
Capito, Wolfgang Fabricius, theologian, V, b 65-6; (Calvin), IV, a 634; (Œcolampadius), XVII, a 750; (Presbyterianism), XIX, b 698
Capitol at Rome, V, a 66; (Manlius), XV, b 499; (Schools of Painting), XXI, a 467
—— (Harrisburg), XI, b 441; (Hartford), a 444; Washington (Architecture), II, a b 397; (Fillmore, M.), IX, a b 145; (Trumbull), XXIII, a 946; (Washington), XXIV, b 404, b 405. See Capitole
Capitol, Mount (Colorado), VI, b 145
Capitole, palace (Toulouse), XXIII, a 516
Capitoline Hill (Rome), XX, a b 750, a 753, b 825, a *b* 831, note, b 836, b 844-5
Capitolinus, Julius, historian, V, a 66; (Augustan History), III, a b 65
Capitonidæ, family (Birds), III, a 647; (Puff-bird), XX, *b* 106; (Toucan), XXIII, a 508
Capitoul or Capitol, magistrate (Toulouse), XXIII, a 516, note, a 517
Capìtula Angilramni (Canon-Law), V, b 16, a 17
—— *Carisiaca* (Hincmar), XI, a 747
—— *Episcoporum* (Canon-Law), V, b 16
Capitulare Saxonicum (Saxony), XXI, b 367
Capitularies, V, a 66; of Charlemagne (Tithes), XXIII, a 439; Frankish (Canon-Law), V, b 17, note; (Knighthood), XIV, b 113 note
Capitulation, V, b 66-7
Capitulum or calathium (Botany) (Ill.), IV, a b 111
Capivara, rodent. See **Capybara**
Capiz, town. See **Capis**
Caplin, fish (Newfoundland), XVII, b 393
Capmany, Antonio de Montpalany, historian, V, a 67; (Consulate of the Sea), VI, b 282
Capobianco, leader (Carbonari), V, a 79
Capo di Monte ware (Italy), XIII, b 464; (Pottery and Porcelain), XIX, b 647, b 660
Capo d'Istria, town, V, a 67
Capo d'Istria, John, count, statesman, V, a 67; (Greece), XI, a 80, a 112; (Ionian Islands), XIII, b 212; (Nesselrode), XVII, b 362-3
Capodunum, town (Kempten), XIV, a 35
Capoeta, fish (Ichthyology), XII, b 713, a 731

Caponnière (Fortification) (Ill.), IX, b 387, a 388
Capon Springs (West Virginia), XXIV, a 547
Caporcianite (Mineralogy), XVI, a 440
Capote (Albania), I, b 396, a 397
CAPPADOCIA, province, V, a 67-9; (Asia Minor), II, *a* 615, b 620; (Numismatics), XVII, a 666
Cappadocians, people (Asia Minor), II, b 621, a 622; (Gomer), X, b 684-5; (Phrygia), XVIII, b 864, a 865
Capparidaceæ, plants (Botany), IV, b 114, b 116
Capped Petrel, XVIII, b 725 note
Cappel, town. See Kappel
CAPPEL, family of jurists, V, a 69
CAPPEL, Louis, or Cappellus, Ludovicus, V, a b 69; (Buxtorf), IV, *b* 536; (Hebrew Language and Literature), XI, a 536, note, a 537
——, James, Hebraist, V, b 69
Cappellari, Bartolommeo Alberto (Gregory XVI.), XI, a 160
Cappello Bianca, duchess (Medici), XV, b 801
Cappellus, Ludovicus. See CAPPELL, Louis
CAPPERONIER, Claude, classic scholar, V, b 69
——, Jean, philologist, V, b 69
Capponi, Gino, marquis, patriot and historian (Florence), IX, a 295, note; (Giusti), X, b 557
——, Piero, patriot (Florence), IX, b 293-4; (Machiavelli), XV, a 149; diplomatist (Savonarola), XXI, *a* 351
——, Raffaello, painter (Garbo), X, b 66
Capra, mammals (Goat), X, a 631, a 633
Capraja, island (Italy), XIII, a 450
Capranica, Domenico, cardinal (Pius II.), XIX, b 162
Caprarola, palace at (Zuccaro), XXIV, *b* 864, a 865
Caprellæ, genus (Crustacea) (Ill.), VI, b 584, *b* 585
CAPRERA or Cabrera, island, V, b 69
CAPRI or Capreæ, island, V, b 69-70; (Italy), XIII, a 450; town, V, b 69
Capric acid (Œnanthic Acid), XVII, a 752; (Oils), b 761
Caprices de Marianne (Musset), XVII, a *b* 118, *a* 119
Capricornus, sign (Zodiac), XXIV, b 829, b 830, a b 831, a 833, *a* 834
Caprification, process (Fig), IX, a *b* 135
Caprimulgidæ, family of birds (Goatsucker), X, b 633-5
Capromys, genus (Mammalia), XV, a 422, b 425
Caps, mast-fitting (Seamanship), XXI, b 623, b 624
Caps, party (Sweden), XXII, a b 789
Capsali, town (Cerigo), V, b 300
Capsicum, plant (Cayenne Pepper), V, b 243-4; (Horticulture), XII, b 291-2
CAPSTAN (Ill.), V, a b 70; rest (Machine Tools), XV, b 155
Capsule of fruit (Botany) (Ill.), IV, b 138
—— of Glisson (Digestive Organs), VII, a 200
Captain, officer (Navy), XVII, a b 301, a *b* 303, a 307
"Captain," man of war, loss of the (Navy), XVII, b 293
Captain Carleton, Memoirs of (Defoe), VII, b 27
Captain-General (Cuba), VI, b 602
Captain of the people (Italy), XIII, *a* 487; (Rome), XX, b 814
Captain Singleton (Defoe), VII, b 26-7
Captain Sword and Captain Pen (Hunt), XII, b 399
Captivi (Plautus), XIX, a 228
Captivity of the Jews. See Babylonian Captivity
CAPUA, city, V, a 71; (Hannibal), XI, a *b* 396; (Rome), XX, b 758, b 759, a b 760, *b* 762, *b* 768, b 779
CAPUCHINS, friars, V, a 71-2; (Franciscans), IX, a 616; (Monachism), XVI, a b 737; (Tibet), XXIII, a 368
Caput, citizen's (Roman Law), XX, b 704-5
CAPYBARA, rodent, V, a 72; (Brazil), IV, b 204; (Mammalia), XV, b 421
Car. See Cars
Cara river (Kerry), XIV, a 53
Caraballos, mountains (Philippine Islands), XVIII, b 765
Caraban, bird (Guatemala), XI, a 213
Carabidæ, beetles (Coleoptera) (Ill.), VI, b 116, a b 117; (Distribution), VII, b 234
Carabineers, soldiers (Cavalry), V, a 228
Carabobo, state (Venezuela), XXIV, *b* 152
——, battle of, 1821 (America), I, a 623; (Venezuela), XXIV, *b* 152
CARACAL, mammal, V, a b 72; (Lynx), XV, b 110
CARACALLA, Marcus Aurelius Antoninus, emperor, V, b 72; (Alexandria), I, b 436; (Finance), IX, b 152; (Geta), X, a 497; (Greece), XI, a 98; (Papinian), XVIII, a 233; (Persia), a b 616, note; (Roman Law), XX, *b* 722; (Severus), XXI, b 731-2, *a b* 733
——, Baths of (Ill.), III, a 376, *a* b 377
Caracalon, conspirator (Isaac I.), XIII, b 384
Caracaron, city (Karakorum), XIV, b 4
CARACAS, capital, V, b 72-3; (Cocoa), VI, b 92, a 93; (Newspapers), XVII, a 449; (Venezuela), XXIV, b 150, a 151, a *b* 152
Caracca, town (Cadiz), IV, b 557
CARACCI, Agostino, painter, V, a b 73
CARACCI, Annibale, painter, V, a b 73; (Domenichino), VII, a b 302, a 303; (Reni), XX, *b* 408
CARACCI, Ludovico, painter, V, a b 73; (Reni), XX, b 408
Caraccioli, Gianni, prince of Melfi (Duel), VII, a 443
——, Francesco, admiral (Nelson), XVII, b 331
Caracciolo, Giambattista, painter (Ribera), XX, *a* 547
Caracoles, district (Bolivia), IV, b 13; (Chili), V, b 540
Caractacus or Caradoc, king (Britannia), IV, b 318; (Shropshire), XXI, b 887
Caractères (La Bruyère), XIV, a b 178, a 179
Caradja, hospodar (Christopoulous), V, a 612
Caradoc group, rocks (Geology), X, a 294; Hills (Shropshire), XXI, b 886, b 887
Caraffa, Antonio, general (Hungary), XII, a 385
——, Giovanni Pietro. See pope PAUL IV.
Carahuirazo, mountain (Ecuador), VII, a b 559, a 561
Caraites, sect (Karaites), XIV, a b 4
Caraks, ships (Navy), XVII, *b* 288
Carales or Caralis, town (Cagliari), IV, a 569
Caralitis, lake (Isauria), XIII, a 395
CARAMAÑ, town, or Karaman, V, b 73-4
CARAMANIA, district, V, a 74
—— Gum, XI, b 244
Caramanti, Ahmed Pasha (Tripoli), XXIII, b 612
Caramaru, or Caramuru, or Diego Alvarez Correa, chief (Bahia), III, a 207; (Brazil), IV, b 205, a b 206
Caramel (Sugar), XXII, a 657
Caramuratades, people (Greece), XI, b 109
Caramuru, poem (Durão), VII, a 478
Carangidæ, family (Ichthyology), XII, b 700-1, a 719, a 728
Caranx, genus (Horse-mackerel), XII, a 221; (Ichthyology) a 704, b 715, b 718
Carapa Oil, XVII, b 765, a 768
Carapace of shell (Crustacea), VI, a b 566, a 569, b 577; (Skeleton), XXII, b 116, a 117; (Tortoise) (Ill.), XXIII, b 484, a b 485-6; (Tortoise Shell), a b 489; turtle's (Reptiles) (Ill.), XX, a b 459
Carat, weight (Assaying), II, b 633; (Diamond), VII, b 143
Caratal gold field (America), I, b 589, *a* 590
Carausius, Marcus Aurelius Valerius, usurper (Britannica), IV, a 319; (Maximianus, M. A.), XV, b 650; (Saxony), XXI, a 367
CARAVACA, town, V, a 74
CARAVAGGIO, Michelangelo Amerighi da, painter, V, a 74; (Schools of Painting), XXI, b 455, b 463; (Zurbaran), XXIV, a 869;
——, Polidoro Caldara da, painter, V, a b 74
CARAVAN, V, b 74-5; (Damascus), VI, b 697; (Kalgan), XIII, b 837; (Khiva), XIV, a 67; (Tibet), XXIII, a 364; (Tripoli), a 612
—— routes (Arabia), II, a 206, b 209; (Meshed), XVI, b 51; (Mesopotamia), b 53; (Nubia), XVII, b 625; (Palestine), XVIII, b 181-2; (Palmyra), b 202-3, a 204; (Phœnicia), a 818
CARAVANSERAI, V, b 75-6; (Baghdad), III, a 201; (Persia), XVIII, b 649, note
CARAVELLAS, town, V, a 76
CARAWAY, plant, V, a 76; (Horticulture), XII, a 302
Carbamides (Chemistry), V, a 502; (Nitrogen), XVII, a 530; (Nutrition), b 702
Carbamines (Chemistry), V, b 499
Carbeas, chief (Paulicians), XVIII, b 444-5
Carbery, Richard Vaughan, Earl of (Taylor), XXIII, *b* 100
Carbide, magnetic (Filter), IX, a b 148, b 149
Carbinol (Chemistry), V, *a* 488
Carbo, Caius Papirius, consul (Rome), XX, *b* 779, note
Carbohydrates (Chemistry), V, b 489-90; (Fuel), IX, b 708
CARBOLIC ACID, V, a b 76; (Chemistry), b 489; (Coal Tar Colors), XVIII, a 900; (Creasote), VI, b 492, *a* 493; (Tar), XXIII, a 63, a 64; antiseptic use of, II, a 120; (Surgery), XXII, a *b* 713
—— oil (Tar), XXIII, a b 64
Carbolin (Gas Lighting), X, b 91
CARBON, V, b 76-8; (Chemistry), b 471; (Coal), VI, a b 44; (Filter), IX, b 147; (Fuel), b 708, a b 709; (Lampblack), XIV, a b 249; (Lighting, Electric), a 637, *a b* 639; (Metals), XVI, a 75; (Mineralogy), a 366, b 394, a 396
——, atom of (Polarity) (Ill.), XIX, b 326, b 327; bi-sulphide (Coal Tar Colors), XVIII, a 900
—— compounds (Chemistry), V, a b 451, a 454; (Nitrogen), XVII, b 532-3
——, determination of Organic (Chemistry), V, a 272-3
—— in food (Dietetics), VII, b 181-2
—— in Iron manufacture, XIII, a *b* 287, a b 289; in cast steel (Ill.), b 342, a b 344; combined, b 290, b 295-6; effects on tensile strength, b 363, a 365; oxides in Iron, a b 317-18, b 319-20, note, a b 321, a 327, b 342-3, a 348; in steel, a b 349; salts, steel from, b 335
——, plant food (Physiology), XIX, b 55
—— prints (Photography), XVIII, b 844, a b 845
——, specific heat of (Heat), XI, b 514-5; spectra of (Spectroscopy), XXII, b 389; stars (Sun), *b* 685
—— transmitter (Telephones), XXIII, a b 931
Carbonaceous Manures, XV, a 519
Carbonado (Diamond), VII, a 141, b 144; (Mineralogy), XVI, a 397
CARBONARI, society, V, a b 79; (Bazard), III, a 397; (Buchez), IV, b 372;

CARBONARI, *continued* (Charles Albert), V, b 368; (Mazzini), XV, a *b* 661; (Italy), XIII, b 496, a 497
Carbonate of Copper, IV, a 312; (Pigments), XIX, b 95
—— of Lead, XIV, a b 375, a b 376, b 378-9
—— of lime (Mineralogy), XVI, a 366, b 385, b 386, b 387, b 392, b 394; (Pigments), XIX, b 95; fluvial (Geology), X, a 243
—— of Manganese, XV, a 488
—— ores (Iron), XIII, b 291, a 295; (Metallurgy), XVI, a 66
—— of potash (Potassium), XIX, b 605
—— of sodium, flux (Blowpipe), III, a 729
—— of Thallium, XXIII, a 238
Carbonates (Chemistry), V, b 455; (Magnesium), XV, b 218; (Mineral Waters), XVI, b 454
—— of ammonia (Nitrogen), XVII, b 530; anhydrous (Mineralogy), XVI, a 413, b 415; with haloid salts (Mineralogy), a b 416; hydrous (Mineralogy), b 415, a 416; of iron (Iron, Therapeutics of), XIII, b 370; production of subterranean (Geology), X, b 233; of soda (Sodium), XXII, *a* b 253, b 254, a b 255, a b 256, a 258
Carbonating process (Sodium), XXII, b 256
Carbonation of rocks (Geology), X, a 238
CARBONDALE, Pennsylvania, town, V, b 79
Carbonell, Pere Minguel, chronicler (Spain), XXII, a 378
Carbonic acid or Carbon-dioxide (Aërated Water), I, a b 166; (Carbon), V, a b 78; (Constitution of Bodies), VI, *a* 277; (Fermentation), IX, *a b* 81; (Mineralogy), XVI, b 386; in Mineral Waters, b 451, 452; (Natural Gas), XVIII, b 895; (Poisons), XIX, a b 291; (Respiration), XX, b 495, a 496, a b 498, *b* 499, b 500; (Sodium), XXII, b 257; (Water), XXIV, b 420
——, diffusion of (Heat), XI, b 519, b 523; expansion of (Heat), XI, a *b* 512
——, free (Mining), XVI, a 481; in air (Ventilation), XXIV, a b 171
——, liquefaction of (Pneumatics), XIX, b 256
——, oceanic (Geology), X, a 198; (Pacific Ocean), XVIII, b 128, b 133; (Sea Water), XXI, a 642-3
——, plant absorption (Physiology), XIX, a b 52, b 55, b 56; exhalations (Physiology), b 58-9
——, thermal capacity of (Heat), XI, b 510, b 511; thermometer, a 503; in underground water (Geology), X, a 240; volcanic (Geology), b 215
Carbonic oxide (Fuel), IX, a 709; (Natural Gas), XVIII, b 895; (Poisons), XIX, a b 291; liquefaction of (Pneumatics), XIX, *a* b 257
Carboniferous Corals, III, a *b* 337, a 341, a 343
—— fauna (Distribution), VII, a 245, 246, a *b* 247
—— period (Geology), X, b 196
—— system (America), I, b 590, a 597; (Coal) (Ill.), VI, b 46-7; (Geology), X, b 306-11; (Greenland), XI, b 149; (Northumberland), XVII, *a* 179; (Queensland), XX, *a* b 579; (Russia), XXI, b 81; (Scotland), b 543, a *b* 546; (Spain), XXII, b 309-10; (Texas), XXIII, a 221. See ANTHRACITE, COAL, LIGNITE
—— slabs (Cork), VI, b 357
Carboxyl (Chemistry), V, b 492, *b* 493
CARBUNCLE, gem, V, b 79; (Mineralogy), XVI, a 429; (Garnet), X, *a* 74; Biblical (Emerald), VIII, b 156
CARBUNCLE, disease, V, b 79-80; (Plague), XIX, b 169, a 170; (Surgery), XXII, b 717
Carburet of iron (Plumbago), XIX, a b 242; of manganese (Iron), XIII, a 352
Carburetted gas (Gas and Gas-lighting), X, b 91-2; hydrogen (Gas and Gas-lighting), b 80-1
CARCAJENTE, town, V, a 80
Carcajou, mammal (Glutton), X, b 621
Carcass shell (Gunnery), XI, a 271
CARCASSONNE or Carcasso, town, V, a 80
——, Arnaut de, novelist (Provençal Literature), XIX, a 901
Carcavellos Wine, XXIV, b 641
Carcel Lamp, XIV, b 246
Carcharias, genus (Ichthyology) (Ill.), XII, b 688, b 699, b 706, b 707, b 723; (Shark) (Ill.), XXI, b 810, a 813, a 816
Carchariidæ, family (Ichthyology), XII, b 699, b 707, a 716, b 723
Carcharodon, fish (Shark) (Ill.), XXI, b 813
Carchemish or Hierapolis, city (Babylonia), III, b 160, b 166, (Euphrates), VIII, b 587; (Hierapolis), XI, *b* 706; (Hittites), XII, a *b* 29, a 30; (Mesopotamia), XVI, b 52; (Syria), XXII, b 861; battle of, 605-4 B.C. (Israel), XIII, *b* 426
Carchesium, genus (Protozoa) (Ill.), XIX, b 885, b 887
Carcinidæ, family (Crustacea), VI, a 579
Carcinoma, disease. See CANCER
Carcinus, genus (Crustacea) (Ill.), VI, a 569, b 572, b 573 note, b 577, b 586
Carclazite, mineral (Kaolin), XIV, a 3
CARDAMON, plant, V, b 80; (Cambodia), IV, *b* 641
CARDAN, Jerome or Hieronymus, or Cardano, Girolamo, physician, V, b 80-2; (Aëronautics), I, b 168; (Algebra), b 453, a 483; (Astrology), II, a 647, *b* 648, a 649; (Deaf and Dumb), VII, b 7; (Humming Bird), XII, a 371; (Lessing), XIV, b 479; (Potato), XIX, b 611; (Tartaglia), XXIII, a 74
Cardboard cipher (Cryptography), VI, a 594
Card Compass (Ill.), VI, b 200, a 201, *a* b 203
—— -catalogues (Libraries), XIV, a 540
Cardenal, troubadour. See Cardinal
CARDENAS, town, V, a 82
Card Games. See CARDS; also BEZIQUE, CRIBBAGE, ECARTÉ, EUCHRE, LOO, NAPOLEON, PICQUET, POKER, WHIST
Cardiac Asthma, II, a 644; cycle (Vascular System) (Ill.), XXIV, b 108-11; plexus of nerves (Anatomy), I, *a* 776. See Circulation of Blood, Heart, VASCULAR SYSTEM
Cardiadæ, mollusks (Cockle), VI, b 91-2
CARDIFF, town (Ill.), V, a 82-3; (Glamorgan), X, a *b* 565; (Harbors and Docks) (Plate XII), XI, a b 416, a 417, a b 419, b 421
CARDIGAN, county, V, b 83-5; town, b 84-5
CARDIGAN, James Thomas Brudenell, Earl of, V, a b 85; (Campbell), IV, a 670
CARDINAL, V, b 85-7
  ceremonial, *a* 87
  college, sacred, a 86
  creation of, b 86-7
  electors, papal, b 87
  in petto, *a* 87
  insignia and titles, b 87
  nepotism, a b 86
  origin of, b 85-6
Cardinal birds (Bunting), IV, a b 470; (Grosbeak), XI, b 186
—— or Cardenal, Peire, troubadour (Provençal Literature), XIX, b 899, a b 900
—— petticoat (Paul III.), XVIII, a 441
Cardinals (Abbot), I, b 29; (Consistory), VI, b 260-1
——, college of (Conclave), VI, a 213-4; (Popedom), XIX, b 512-13, b 516, a 517, a 519, a 520; (Roman Catholic Church), XX, b 644-5
——, skepticism of (Reformation), XX, a 336
Carding machine (Cotton) (Ill.), VI, b 434, a b 436-7
—— Wool, XXIV, a b 693, b 695
Cardiographic tracings (Vascular System), XXIV, b 109
Cardiopneumatic movements (Vascular System), XXIV, a b 111
Carditis. See HEART, diseases of
Cardium, genus (Cockle), VI, a 92
CARDONA, town, V, b 87-8; quarries (Salt), XXI, a 242
——, Jean Baptiste, bibliographer, III, a 572
Cardonera river (Manresa), XV, *a* 504
Cardoon, vegetable (Horticulture), XII, a 292
CARDS, playing, V, a 88-9; (Ecarté), VII, a 536-7; (Loo), XV, a 3-4; (Monopoly), XVI, a 784; (Typography), XXIII, b 724, a 726; (Whist), XXIV, a 573-78
——, cheating at (Legerdemain), XIV, a 416
——, rising (Magic), XV, b 211-2
——, wedding (China), V, a 582
CARDUCCI or Carducho, Bartolommeo, painter, V, a 89
CARDUCCI, Vincenzo, painter, V, a 89
Carduchi, people (Kurdistan), XIV, a 160
Carduelis, genus (Goldfinch), X, a b 675; (Siskin), XXII, *b* 106-7
Carduus, genus (Thistle), XXIII, b 327
CARDWELL, Edward, historian, V, b 89
Caredig, chief (Cardigan), V, b 84
Careenage, harbor (Grenada), XI, *a* 165
Careless Husband, play (Cibber), V, b 672
Carénage, Le, port (St. Bartholomew), XXI, b 167
Carentania, kingdom (Carinthia), V, a 94
Caretta, genus (Tortoise), XXIII, a b 488
Carettochelydidæ, family (Tortoise), XXIII, b 486
Carettochelys, genus (Tortoise), XXIII, b 486, a 489
CAREW, George, baron, V, b 89-90; (Ireland), XIII, b 271, a 272
CAREW, George, diplomatist, V, b 89
——, Sir Peter, usurper (Ireland), XIII, b 270
CAREW, Richard, author, V, a 90
CAREW, Thomas, poet, V, a 90
Carex, plant (Botany), IV, a b 87, a 121
CAREY, Henry, composer, V, a 90; (Halifax), XI, a 346
——, Henry Charles, economist, *b.* 1793, *d.* 1879 (Political Economy), XIX, a 396, b 397, a 399; (Protection), a 938, *b* 939
Carey Mathew, publisher, *b.* 1760, *d.* 1839 (Periodicals), XVIII, a 555; (Protection), XIX, a 932, a 939, a 940
CAREY, William, missionary, V, a b 90; (Baptist), III, a 307
Carey's pavement (Roads and Streets), XX, a 601
Carga in Weights and Measures, XXIV, a 518
CARGILL, Donald, Covenanter, V, b 90; (Scotland), XXI, b 538
Cargo, ship's (Average), III, a 127; (Bottomry), IV, *b* 153; (Contraband), VI, a 286; (Quarantine), XX, a b 164
Carguairazo, volcano (Geology), X, b 223
CARIA, province, V, b 90-1; (Numismatics), XVII, b 664; tombs in (Architecture), II, a 352, b 361
CARIACO, town, V, b 91
Cariama, genus (Birds), III, a 605 note, a b 618, a 645; (Ornithology), XVIII, b 45, b 49 notes, *b* 50; (Seriema) (Ill.), XXI, b 708-10

Cariamidæ, family (Birds), III, a 617; (Ornithology), XVIII, b 49, note
Carians, people (Asia Minor), II, *a* 622; (Egypt), VII, a b 641; (Greece), XI, a b 82, b 86; (Leleges), XIV, b 434; (Persia), XVIII, *b* 582, b 590; (Philistines), a 771 note
Carib *Dictionary*, VII, a 168
CARIBBEAN SEA, V, b 91; (West Indies), XXIV, *b* 538
CARIBBEE ISLANDS, V, b 91
Caribe, town. See CARIPE
Caribert, Charobert or Charles Robert, king, Hungary (Capet), V, a 50
Caribou (Deer), VII, b 23-4; (Newfoundland), XVII, a 393
——, island (Nova Scotia), XVII, a 616
CARIBS, people, V, b 91; (Cannibalism), IV, b 712; people (Honduras), XII, b 134-5; (Honduras, British), b 136; (Indians), b 865, b 868, a 869; (Nicaragua), XVII, a b 492; (Phrenology), XVIII, a 861, note
——, fish (Venezuela), XXIV, a 151
CARICATURE, V, b 91-3; (Gavarni), X, b 106-7; (Gérard), b 396; (Gillray), b 535-6; (Hogarth), XII, *a* 50-1; (Hood), a 149; (Kay), XIV, b 21; (Leech), a b 406-7; (Rowlandson), XXI, b 38; (Satire), b 335
CARIES, disease, V, b 93; (Dentistry), VII, a 85, a 86; (Surgery), XXII, a 720
CARIGNANO, town, V, b 93
Carileph, bishop (Durham), VII, a 485
Carillo d'Acunha, Don Alfonso, archbishop of Toledo (Spain), XXII, b 336
Carillon Falls (Quebec), XX, a 172
Carillons (Bells), III, a 465
CARIMATA ISLANDS, V, b 93
Carinariacea, sub-order (Mollusca), XVI, b 677
Carinatæ, division (Birds), III, a 616, *a b* 624, a b 625; (Ornithology), XVIII, b 23, b 32, b 35, b 39, a 45, a 47-8, b 52
Carine noctua, species (Owl), XVIII, a 93 note, b 94
Carinella, worms (Nemertines) (Ill.), XVII, a 336, *a b* 337, *a b* 338, a b 339, *a* 340
CARINI, town, V, b 93-4; (Manna), XV, a 500
CARINOLA, town, V, a 94
CARINTHIA, duchy, V, a 94; (Germany), X, *b* 435, a 437, b 442; (Lead), XIV, a b 375
Carinthian Alps of Austria, III, b 100
—— gas furnaces (Iron), XIII, b 329
Carinus, Marcus Aurelius, emperor (Calpurnius), IV, *b* 630
CARIPE or Caribe, town, V, a b 94; (Guacharo), XI, b 201, a 202
CARISBROOKE, village, V, b 94; (Newport, Isle of Wight), XVII, *a* 416
Carisiacum, town. See Quiersy-sur-Oise
Carisiri, tree (Lancewood), XIV, b 259
CARISSIMI, Giacomo, composer, V, b 94
Carius' analysis (Chemistry), V, a 474
Carlén, Emilie, novelist (Sweden), XXII, b 796
CARLETON, Sir Dudley, statesman, V, b 94-5
——, George, bishop (Gilpin), X, a 537
——, Sir Guy, general (Trumbull), XXIII, a 945; (United States), a 788
CARLETON, WILLIAM, novelist, V, a 95
—— College Observatory, XVII, a 736
CARLI or Carli-Rubbi, Giovanni Rinaldo, count of antiquary, V, b 95; (Political Economy), XIX, b 375
Carline, Russian game (Billiards), III, b 584
Carlingford, lough (Louth), XV, a 27; (Down), VII, a 331
——, mountains (Ireland), XIII, b 221
Carlini, Francesco, astronomer (Astronomy), II, a 694, b 699
Carlin's Cairn (Kirkcudbright), XIV, a 99
CARLISLE, borough (Plan), V, b 95-7; diocese of (England), VIII, a 274
CARLISLE, Pennsylvania, town, V, a b 97
——, Sir Andrew Harclay, earl of (Knighthood), XIV, b 126
——, Sir Anthony, surgeon (Chemistry), V, a 404
CARLISLE, Frederick Howard, earl of, V, b 97
CARLISLE, George William Frederick Howard, earl of V, b 97-8
——, James Hay, earl of (Barbadoes), III, *a* 310; (Peerage), XVIII, a b 477
Carlisle bay (Barbadoes), III, a 309, a 310
Carlisle Table of mortality (Insurance), XIII, a 176, a 180, a 184; (Probability), XIX, b 794
Carlist wars (Spain), XXII, b 359, a b 360
Carlists, party of Spain (Bourbon), IV, a 158; (Palmerston), XVIII, b 198; (Pamplona), b 211
Carlists of Spain (Bourbon), IV, a 158
Carll, John P., geologist (Petroleum), XVIII, b 886, b 887
Carlo Alberto, king of Sardinia (Italy), XIII, b 496, a b 497, a *b* 498
Carloman, king (France), IX, b 469; (John VIII., Pope), XIII, a b 721; (Germany), X, b 429
Carlos, Baltazar, portrait (Velazquez), XXIV, a b 146
Carlos, Don, of Navarre, son of John II. of Aragon, XIII, b 726
Carlos, Don, son of Philip II. of Spain (John, Don), XIII, b 727; (Philip II.), XVIII, b 757, b 758, a 760
Carlos Luis Maria Fernando de Bourbon, Don, brother pretender (Bourbon), IV, of Ferdinand VII. of Spain, a 158; (Clarendon), V, b 705; (Ferdinand VII.), IX, *a* 74; (Spain), XXII, b 359, b 360; (Trieste), XXIII, b 595
Carlos Maria Isidor de Bourbon, Don, pretender (Spain), XXII, *b* 359
Carlos, Don, of Naples, afterwards Charles III. of Spain, XXII, a b 353
Carlotta Joachima or Carlota Joaquina, queen of Portugal (Miguel, Don), XVI, a 302; (Portugal), XIX, a *b* 567
Carlovingian or Carolingian dynasty (France), IX, a 469-71; (Germany), X, a 429-30; (Holland), XII, a b 73; (Italy), XIII, a b 479; (Paris), XVIII, b 293; (Popedom), XIX, a b 509, b 511
—— empire (Capitularies), V, *a* 66
CARLOW, country, V, a b 98; town, b 98-9
CARLOWITZ, town, V, a 99; (Wines), XXIV, *a* 643; peace of, 1699 (Greece), XI, b 108; (Hungary), XII, a 385; (Turkey), XXIII, b 687
CARLSBAD, town, V, a 99
—— decrees, 1819 (Germany), X, a 453
—— waters (Jaundice), XIII, b 609
CARLSBURG, town, V, a 99
Carlsen, Captain, explorer (Polar Regions), XIX, a b 335
CARLSHAMN, town, V, a 99
CARLSKRONA, province, V, a b 99; town, b 99
CARLSRUHE, city (Plan), V, b 99-100; (Baden), III, *a b* 194, b 195
CARLSTAD, province, V, a 100; town, a 100
CARLSTADT, city, V, a 100
——, district, V, a 100
CARLSTADT, Karlstadt or Karolostadt, Andreas Rudolf Bodenstein, reformer, V, a b 100; (Canon), V, a b 14, note; (Eck), VII, a 556; (Luther), XV, a 75, b 77, *a* 78, a 79, b 82; (Reformation), XX, *b* 345
Carlton House (London), XIV, *b* 861
CARLUKE, burgh, V, a 101
"Carlus," sword of (Ireland), XIII, a 259
Carlyle, Alexander, divine (Robertson), XX, a b 615; (Smith, A.), XXII, b 180, b 181; (Townshend), XXIII, b 524
——, Jane Welsh (Tieck), XXIII, a 408
CARLYLE, Joseph Dacre, Orientalist, V, a 101
Carlyle, Thomas, author (American Literature), I, a 635, *b* 639, b 640; (Burns), IV, a 505, *a* 508, a 509; (Cromwell), VI, b 533 note; (Edinburgh), VII, b 577; (Hoffmann), XII, a b 48; (Ireland), XIII, a 273; (Irving, E.), *a* b 381; (Knox), XIV, *a* 135; (Michelet), XVI, b 244, b 245; (Mill, John Stuart), *b* 323; (Prussia), XX, a 24; (Scott), XXI, b 570, b 574, a 575; (Sterling), XXII, a *b* 569; (Tacitus), XXIII, b 25; (Thiers), b 323; (Tieck), *b* 408; (Toland), b 462
CARMAGNOLA, town, V, a 101
CARMAGNOLA, Francesco Bussone, count of, soldier, V, a 101; (Condottieri), VI, b 227; (Italy), XIII, b 489
Carmagnole, song, costume and canard (Carmagnola), V, a 101
Carmania, province (Persia), XVIII, a 597. See KIRMÁN
Carmarina, genus (Hydrozoa) (Ill.), XII, b 596, a *b* 597
CARMARTHEN, county, V, a 101-2; borough, a 102
Carmathians, sect (Egypt), VII, a b 651; (Mecca), XV, b 678, b 679; (Mohammedanism), XVI, b 608, b 609, a 610, a 616
Carme sui Sepolcri (Foscolo), IX, b 416
CARMEL, Mount, V, b 102; (Elijah), VIII, b 126, a b 127; (Palestine), XVIII, b 175, a 176
CARMELITES, mendicant friars, V, *b* 102-3; (Abbey), I, b 27; (Conecte), VI, *b* 227; (Monachism), XVI, b 735, b 737; (Theresa), XXIII, b 301, a b 302
Carmen (Mérimée), XVI, a 43
—— *Aureum*, commentary on (Hierocles), XI, b 708
—— *Fratrum Arvalium* (Latin), XIV, a 329
—— *de Gestis Oddonis* (Hroswitha), XII, a 341
Carmichael, Dugald, botanist (Brown, R.), IV, a 347
CARMICHAEL, Gershom, metaphysician, V, b 103-4
Carmina Lyrica (Hymns), XII, a 620
—— *Saliaria* (Latin), XIV, a 329
CARMINE, pigment, V, a 104
Carmine, church of (Masaccio), XV, a *b* 612
Carminic acid (Cochineal), VI, a 90
Carminnaphtha (Coal Tar Colors), XVIII, a 905
CARMONA, town, V, a 104
CARNAC, town, V, a b 104; (Morbihan), XVI, b 839; (Rude Stone Monuments), XXI, *a b* 57
Carnallite (Mineralogy), XVI, a 400; (Potassium Metals), XIX, a 605, a 608
Carnan, Thomas (Almanac), I, b 520
CARNARVON, county, V, b 104-6; town, a b 105
——, Henry Howard Molyneux Herbert, fourth earl of (Druses), VII, a 419, b 420
Carnasciale, feast (Carnival), V, b 107
Carnat, clay (Mineralogy), XVI, b 442
Carnata kingdom (Deccan), VII, *b* 18
CARNATIC, district, V, b 105-6; (Clive), VI, *b* 9, a 12; (Coote), b 303; (Coimbatore), VI, b 106

Carnation, plant (Botany), IV, a 74, a 117; (Horticulture), XII, b 261-2; (Pink), XIX, *b* 115
Carnauba palm (Brazil), IV, b 203, a 215; Wax, XXIV, a 486
Carnavalet Museum, municipal (Paris), XVIII, b 827
CARNEADES, philosopher, V, a b 106; (Academy), I, b 67; (Scepticism), XXI, *a* 397; (Stoics), XXII, *b* 593, a 599
Carnedd Dafydd, mount (Carnarvon), V, a 105
Carnedd Llewelyn, mount (Carnarvon), V, a 105
Carnegie, Andrew, capitalist (Dunfermline), VII, a 468
Carneia, festival (Apollo), II, a 163
Carn Eige, mount (Ross), XX, a 877
Carnelian (Agate), I, a 248; (Mineralogy), XVI, b 405
Carnelley, Thomas, physicist (Ice), XII, a 647 note
Carneonicæ (Hellanicus), XI, b 566
Carnesecchi, Piero (Medici), XV, a 801; (Valdes), XXIV, a 33
Carni, race (Carinthia), V, a 94; (Italy), XIII, a 456
Carnia, province (Acarnania), I, b 76
Carnic Alps, I, a 547, a 555; (Austria), III, b 100
CARNIOLA, duchy, V, b 106-7; (Germany), X, b 442
Carniolan Alps (Austria), III, b 100
CARNIVAL, V, a 107-9
    customs of, b 108, a b 109
    name, a b 107
    origin of, a 107-8
    papal attitude toward, a 108-9

—— (Lhasa), XIV, b 500-1; (New Orleans), XVIII, a 415
CARNIVORA, order of animals, V, b 109; (Africa), I, 231, a 232; (America), a 599; (Philippine Islands), XVIII, a 764; (Smell), XXII, a 177
——, anatomy of (Mammalia) (Ill.), XV, b 351, a b 354, a b 355, a b 356, a b 357; classification of (Mammalia), a 375, a b 397, b 438-51; dentition (Mammalia), a 357; fossil (Distribution), VII, a 247; reproductive organs (Mammalia), XV, a *b* 372
Carnivorous marsupials, III, a 97
—— plants (Horticulture), XII, b 216; (Insectivorous Plants) (Ill.), XIII, a 140-7
CARNOT, Lazare Nicolas Maguerite, war minister, V, b 109-10; (Army), II, b 525-6; (Fortification), IX, a 391, a 409; (France), a 531, b 536; (Louvois), XV, a 29; (Moreau), XVI, a 846; (Napoleon I.), XVII, b 203, *a* 206, a 230, a b 231; (Pichegru), XIX, a 88; (Robespierre), XX, a b 619
——, Marie François Sadi, president of France (Radiation), XX, a b 221, b 222; (Steam-Engine), XXII, a 496, b 497; (Thermodynamics), XXIII, a b 303, note, a b 304, a 307, a 308
Carnot's thermodynamic cycle (Heat), XI, b 505; (Steam-Engine), XXII, b 499-500, a b 504, a b 505
Carnoustie, town (Forfar), IX, *b* 362
Carnovale, Fra, painter (Schools of Painting), XXI, b 453, note, b 462, b 467
Carnoy, J. B., biologist (Reproduction), XX, b 427, a 435
Carntual Hill (Kerry), XIV, b 52
CARNUNTUM, town, V, a 110; (Pannonia), XVIII, b 217
Carnwath, Lanarkshire (Climate), VI, a 6
CARO, Annibale, poet, V, a b 110
Caro, Graebe and Lieberman process (Coal Tar Colors), XVIII, a b 905
Carob bean, III, a 398; -tree (Locust Tree), XIV, a b 774
CAROLAN, Turlogh, bard, V, b 110
Caroli, Peter, preacher (Calvin), IV, b 634
Carolina Colony (United States), XXIII, b 777, b 778
—— parakeet (Parrot), XVIII, b 327, b 329
Caroline of Anspach, queen of England (Butler, Bp.), IV, a 519; (Gay, J.), X, *a* 108; (George II.), *b* 379, *a* 380; (Newton), XVII, b 459; (Walpole), XXIV, b 356, a 357; (Wollaston), b 666
CAROLINE Amelia Augusta, queen of England, V, b 110-1; (Anglesey), II, b 29; (Brougham), IV, a 338-9; (Denman), VII, b 70; England, VIII, b 326-7; (Gell), X, b 120; (George IV.), b 384-5
Caroline Maria, queen (Ferdinand IV., Naples), IX, b 69; (Fra Diavolo), b 444
Caroline Matilda, queen (Denmark), VI, b 76, note; (Struensee), XXII, b 640, a 641; (Zelle), XXIV, b 666
Caroline of Darmstadt, landgravine (Goethe), X, b 645, a 648
Caroline Books (Adrian I.), I, b 150; (Alcuin), b 417
CAROLINE ISLANDS, V, a b 111; (Micronesia), XVI, a 267; (Pacific Ocean), XVIII, b 132, b 133; people of (Polynesia), XIX, a *b* 410
—— minuscule writing (Palæography), XVIII, a b 164, a 165; (Typography), XXIII, b 729, a b 738
—— Statutes, Oxford (Universities), XXIII, b 908
—— tables (Navigation), XVII, a 264
Carolinenthal, suburb (Prague), XIX, a 679
Carolingian dynasty. See Carlovingian dynasty
Carolus bell, Antwerp, III, a 464
Caron, Pierre Augustin, dramatist (Beaumarchais), III, a 404
Caron and Devillé's method (Magnesium), XV, b 218-9
Caronium. See CORUNNA
CARORA, town, V, b 111
Carotid artery (Anatomy), I, a b 794; of birds (Ornithology), XVIII, a b 26, b 43
—— plexus (Anatomy), I, b 775
CAROUGE, town, V, b 111; (Geneva), X, b 131, *b* 132, a 133
Carp, fish (Angling) (Ill.), II, b 39; (Ichthyology) (Ill.), XII, b 690, a 691, b 693, b 702, *a b* 703, a 731; (Loach), XIV, a 748; (Japan), XIII, b 585; Crucian (Goldfish), X, b 675; culture (Pisciculture), XIX, b 136, b 137, a b 138
Carpaccio, Vittore, painter (Schools of Painting), XXI, a 455, b 462
Carpal bones (Ape), II, b 141-2
—— joints (Anatomy), I, b 736; os intermedium (Ape), II, a 131, a b 132, b 141, a 142
CARPATHIAN MOUNTAINS, V, b 111-2; (Austria), III, b 100, a 101, a 102; (Europe), VIII, b 600; (Galicia), X, b 23, b 24; (Hungary), XII, *b* 375, a 376, a 377; (Moravia), XVI, a 836; (Roumania), XXI, *a* 19; (Salt), b 241; (Transylvania), XXIII, a 555
CARPATHUS, island, V, a 112
Carpeaux, Jean Baptiste, sculptor (Sculpture), XXI, *b* 590, note
Carpegna cameo (Sardonyx), XXI, b 325
Carpellini, C. F., librarian (Siena), XXII, a 49
Carpels in plants (Botany) (Ill.), IV, b 114, b 127-9, b 134; (Reproduction), XX, a 437
CARPENTARIA, gulf of, V, a 112; (Australia), III, a 90, a 93, b 95; (Queensland), XX, b 177, a 178
Carpenter, artisan (Navy), XVII, b 302, a 303
——, Mary, philanthropist (Bristol), IV, b 317
——, William Benjamin, physicist (Atlantic Ocean), III, a b 21, b 22, a 24, a 25; (Brachiopoda), IV, a b 172, b 175; (Dream), VII, a 394, a 397; (Echinodermata), a b 551, a 552, b 555; (Geology), X, b 251 note, b 254, *b* 290; (Insanity), XIII, a 108; (Magnetism, Animal), XV, b 280, b 285; (Protozoa), XIX, b 864, b 867; (Stereoscope), XXII, *b* 568; (Zoology), XXIV, b 853
Carpenters' Hall (Philadelphia), XVIII, b 751, b 754
Carpentier, Pieter, governor (Carpentaria), V, a 112
CARPENTRAS, town, V, a b 112; (Vaucluse), XXIV, b 124, *a* 125
Carpentry (Building) (Plate XXII-XXV), IV, a 426-33
CARPET, V, b 112-6
    British products, a 114-5
    decorative principles, b 115-6
    early manufactures, b 112-3
    oriental, b 113-4
—— (Aubusson), III, a 59; (Felt), IX, a 60, a 61; (Herat), XI, b 638; (India), XII, a 801; (Kidderminster), XIV, b 70; (Lahore), b 213, a 214; (Patents), XVIII, a 881; (Persia), b 636-7; (Sind), XXII, a b 98; (Textiles) (Ill.), XXIII, a 229-30; (Tyumeñ), XXIII, b 761; Tyrolese (Nördlingen), XVII, a 549; Wools, XXIV, a 690
Carpetano-Vetonica, mountains (Spain), XXII, a 308
Carpholite (Mineralogy), XVI, b 443
Carphosiderite (Mineralogy), XVI, b 418
CARPI, town, V, a 116
CARPI, Girolamo da, painter, V, a 116
CARPI, Uga da, painter, V, a 116
CARPINI, Joannes de Piano, author, V, a 116-7; (China), b 545-6; (Mandeville), XV, b 481, *b* 482; (Prester John), XIX, a 736
Carpinus, genus (Arboriculture), II, a 278; (Hornbeam), XII, *a* 172
Carpocanium, genus (Protozoa) (Ill.), XIX, b 873, a 875
Carpocapsidæ, family (Butterflies), IV, a 531
CARPOCRATES, Gnostic, V, a 117; (Gnosticism), X, a 627
Carpodacus, bird (Grosbeak), XI, b 186
Carpogonium, organ (Reproduction), XX, a b 438
Carposporeæ, plants (Biology), III, a b 600
Carpospores, organs (Reproduction), XX, a 438
Carpus, bone (Amphibia), I, *b* 668; (Anatomy) (Ill.), b 725, b 729, a 730; (Horse), XII, a 181; (Mammalia) (Ill.), XV, a 362; (Skeleton), XXII, b 125. See Carpal
CARPZOV, family, V, a b 117
——, August, diplomatist, V, b 117
——, Benedict, jurist, V, a 117
——, Benedict, 2d, jurist, V, a b 117
——, Johann Benedict, theologian, V, b 117
——, Johann Benedict, 2d, philologist, V, b 117
——, Johann Gottlob, orientalist, V, b 117
——, Simon, burgomaster, V, a 117
Carr, Hervey, Lord (Walpole), XXIV, *a* 354
Carr, Robert. See SOMERSET
——, Sir Robert, governor (Delaware), VII, b 40
Carr and Co., Carlisle, bakers (Baking), III, b 277
CARRACCI, Agostino, painter, V, a b 73
Carrageen, moss (Algæ), I, a 449; (Irish Moss), XIII, b 282
Carrah, Lough (Mayo), XV, a 657
Carrancha, bird (Patagonia), XVIII, a 358
CARRANZA, Bartolemé de, theologian, V, b 117; (Cano), IV, a 716
CARRARA, town, V, a 118; (Marble), XV, b 535; quarries (Michel Angelo), XVI, a 240-1

Carrara diamonds (Marble), XV, b 535
——, family (Padua), XVIII, a b 136
—— mountains (Italy), XIII, b 447, a 452
——, songstress (Handel), XI, a 390
Carraresi, family (Italy), XIII, a b 487, a 489, a 490
Carrasco, Constantino, poet (Peru), XVIII, a 689
Carreau, game (Bowls), IV, a 164
CARREL, Armand, historian, V, a b 118; (Littré), XIV, b 711
Carrels, chapels (Architecture), II, a 405. See Carrols
Carrera, Juan Jose, patriot (Chili), V, b 537
——, Rafael, President (Guatemala), XI, *a* b 214
Carré's machine (Ice), XII, b 648
Carrhæ, city (Persia), XVIII, b 623. See HARAN
——, battle of, 54 B.C. (Persia), XVIII, b 607; (Rome), XX, b 792
Carriacou, islands (Granada), XI, a 165
CARRIAGE, V, b 118–21
  coachmaking, b 120–21
  modern, a b 120
  official, a 120
  public vehicles, b 119–20
  Roman, b 118
  16th and 17th centuries, a 119–20
—— in England (Horse), XII, b 185; -horses, b 195; -licenses (Police), XIX, a 348; -manufacture (New Haven), XVII, b 404. See Cars, Coach
——, sailing, (Stevinus), XXII, b 573
Carriages, Artillery, II, b 574, *b* 575; (Gunnery) (Ill.), XI, b 277–8; b 280–1; early, II, a *b* 573; field, *b* 576, a 578, a b 579; siege, a 580
Carrick, district (Ayr), III, *b* 141, b 142
——, earls of. See kings ROBERT of Scotland
——, Henry de Percy, earl of (Percy), XVIII, a b 533
Carrickbeg, suburb (Carrick-on-Suir), V, a 122
Carrick-bend, knot (Seamanship) (Ill.), XXI, *b* 618
CARRICKFERGUS, county, V, a 121; town, b 121; (Antrim), II, *b* 125, *a b* 126; (Belfast), III, b 441, *a* 442; presbytery (Presbyterianism), XIX, b 711
Carrick-on-Shannon, town (Leitrim), XIV, *b* 433
CARRICK-ON-SUIR, town, V, a 122; (Ireland), XIII, b 235, b 236; (Waterford), XXIV, b 422
CARRIER, common, V, a b 122
—— pigeon (Dove), VII, b 328, a 329; (Instinct), XIII, a 166; (Post-Office), XIX, b 597, note
CARRIER, Jean Baptiste, terrorist, V, b 122–3
Carrington, R. C. (Astronomy), II, *a* 686, a 688; (Meteorology), XVI, a 183
Carrion, river (Palencia), XVIII, a b 172
——, Geronimo, President (Ecuador), VII, a b 563
Carrion-Crow, VI, b 545, a 546
Carrizal, town (Chili), V, b 540, a 541
Carro, mountain (Alps), I, a 548, a 549
Carro, John de, physician (Jenner), XIII, b 634; (Vaccination), XXIV, b 29
Carroccio, battle standard (Italy), XIII, b 480, b 485, b 487
Carrols, study closets (Cloister), VI, a b 36. See Carrels
CARRON, village, V, a 123; district (Coal), VI, a 51
——, river (Kincardine), XIV, b 80; (Scotland), XXI, b 543, a 544; (Stirling), XXII, a 581
Carronade, gun (Carron), V, a 123
Carron-Dormoy furnace (Iron), XIII, a 331
Carrot, plant (Botany), IV, *a* 78, a 84; (Agriculture), I, a b 328; (Horse), XII, b 197; (Horticulture), a b 292
Carrowmore, Lough (Mayo), XV, a 657
Carr's disintegrator (Flour), IX, a b 303
Carruca, vehicle (Carriage), V, *b* 118
Cars, railway (Patents), XVIII, a b 879; (Railway), XX, a 257–60; shops for (Pullman), a b 890; wheels, American (Iron), XIII, a 366
—— for Tramway, XXIII, b 539, a b 540–1
Carses described (Scotland), XXI, a 547; (Stirling), XXII, b 581
Carson City (Nevada), XVII, b 377; lake (Nevada), b 376; river (Nevada), b 376; sink (United States), XXIII, *a* 848
CARSTARES or Carstairs, William, clergyman, V, a 123; (Presbyterianism), XIX, *a* 704; (Torture), XXIII, a 495, note
Carstensz, Jan, explorer (Carpentaria), V, a 112
Carswell, John, bishop (Gaelic), X, *b* 12, a 13
Cartagena, Columbia, town V, b 123–4; assault of, 1740 (Vernon), XXIV, a 184
CARTAGENA or Carthagena, Spain, town, V, b 123; (Murcia), XVII, a b 58
——, historian. See ALPHONSUS A SANCTA MARIA
—— gum (India-Rubber), XII, b 878
CARTAGO, Columbia, town, V, b 124
CARTAGO, Costa Rica, town, V, a b 124; (Costa Rico), VI, *a b* 398, a 399; volcano (Cartago), V, a 124
Cartango (Account), I, a 87
Cartaphilus, Wandering Jew, XIII, a 684–5
CARTE, Thomas, historian, V, b 124
Carte Blanche in play (Piquet), XIX, a b 124
CARTER, Elizabeth, authoress, V, b 124
——, John, antiquary (Architecture), II, b 389
Carter Fell, mountain (Cheviot Hills), V, b 528
Carteret, Sir George, proprietory (New Jersey), XVII, *a b* 408
——, John. See GRANVILLE, earl of
——, Philip, navigator (Geography), X, a 169; (Solomon Islands), XXII, b 266
Cartesian coördinates (Geometry), X, b 366–7, *a* 373
CARTESIANISM, V, b 124–40
  DESCARTES' PHILOSOPHY, a 125–30
    criterion of truth, a 126–7
    defects of the system, a 127–30
    ethics of, a b 130
    mechanical nature of system, a 129–30
    mind and matter, a 128–9
    self-consciousness as primary basis, a 125–6
  literature, b 139–40
  MALEBRANCHE'S SYSTEM, b 130–3
    ethics of, a 132–4
    metaphysics of, a b 131
    religious tendencies of, b 130–1
    theological position of, b 131–2
  modern philosophical movement, b 139
  scope of subject, b 124–5
  SPINOZA'S SYSTEM, a 133–9
    determination, negative character of, b 136–7
    difficulties of the dialectic, a 137–8
    ethical theory of, a 138–9
    illusions of the finite, a 134–5
    method of, b 133–4
    personal antecedents, a b 133
    universal unity of being, b 135–6
—— (Clauberg), V, a b 711; (Condillac), VI, a 222; (Cudworth), b 610; (Descartes), VII, b 103–4, a 106–11; (Dream), b 393; (Geulincx), X, a b 497; (Glanvill), b 566; (Kant), XIII, b 856, b 857; (Leibnitz), XIV, a 421–2; (Logic), b 799–800; (Metaphysic), XVI, a 92, a 97, b 105; (Theism), XXIII, b 263, note; Dutch (Musschenbroek), XVII, b 116
"Cartesians" (Curve), VI, b 633, b 639
Carthach, saint (Ireland), XIII, b 256
Carthæa, town (Ceos), V, b 298; (Numismatics), XVII, b 661
CARTHAGE, V, a 140–3
  constitution, a 142
  early fragmentary history, a b 140
  Punic wars, a 141–2
  settlement of, a 140
  Sicilian wars, a 141
  typography, b 142
—— (Africa), I, b 223, a 238; (Cato), V, a 209; (Commerce), VI, a 177, a b 178; (Geography), X, a b 157; (Greece), XI, a 100; (Hamilcar), b 366; (Hannibal), a b 397; (Inscriptions), XIII, b 122; (Libya), XIV, b 554; (Marble), XV, b 536; (Marseilles), b 580; (Masinissa), a b 615; (Montanism), XVI, b 802–b 803; (Mosaic), b 878; (Numismatics), XVII, *a* 651, b 655, a 656, a b 669; (Palermo), XVIII, b 172, a 173; (Persia), a 581; (Phœnicia), b 817, b 819, a b 820, a 822; (Rome), XX, b 759, a 760, b 762, a 763, b 765–70; (Scipio), XXI, b 488, a b 489; (Sicily), XXII, *b* 22, a *b* 23–4, *a* b 25, *a b* 26; (Spain), a b 320; (Syracuse), a *b* 855, *a* 856; (Timoleon), XXIII, b 423; (Tunis), b 660, a 662; (Turner), a b 708; (Utica), XXIV, *a* 26; (Vandals), *a* b 65, *a* 66; Weights and Measures of, b 512, b 514, b 515
Carthagena, town. See CARTAGENA
Carthaginians, people (Africa), I, a 220; (Agrigentum), a 370; (Balearic Islands), III, b 240; (Greece), XI, a 94; (Himera), a 746; (Messina), XVI, a 62; (Sardinia), XXI, b 324. See Punic Wars
Carthago Nova or New Carthage (Cartagena), V, b 123
Carthamine, dye (Safflower), XXI, a b 153
Carthamus, genus (Safflower), XXI, a 153; (Thistle), XXIII, b 327
Cart-Horse, XII, a 196; (Agriculture), I, a 342–3
CARTHUSIANS, religious order, V, a 143–4; (Abbey), I, b 25–7; (Bruno, St.), IV, a 359; (Chartreuse), V, b 376–7; (Monachism), XVI, a 735, b 741
CARTIER, Jacques, navigator, V, a b 144; (Canada), IV, b 676, a 678; (Geography), X, a 164; (Montreal), XVI, b 821; (Prince Edward Island), XIX, b 760; (St. Malo), XXI, b 195, a 196
Cartier's hydrometer, XII, a 571
Cartilage (Anatomy), I, b 747–9, b 750, a 751; (Histology), XII, a 10; (Ichthyology), a 670, b 677–8, a b 683, a b 684, a 685, a b 686
——, arytenoid (Mammalia), XV, *a* b 368; bones of skull (Ichthyology) (Ill.), XII, a b 678, a b 679–80; cricoid (Mammalia), XV, a 368; laryngeal (Voice), XXIV, b 293–4; nasal (Anatomy), I, a 777; in siphonopoda (Mollusca) (Ill.), XVI, a 701, b 705; thyroid (Mammalia), XV, a 368
Cartilaginous cranium (Skeleton), XXII, b 121–2
—— tumor (Pathology) (Ill.), XVIII, b 376–7, b 386–7; (Surgery), XXII, a 723
Cartismandua, queen (Britannia), IV, b 318

Cartography (Alps), I, b 559; (Geography), X, b 178–80; (Map), XV, a 523–30; (Melvill van Carnbee), b 853; (Ptolemy), XX, b 96–101. See Charting, Maps
Cartomary. See DIVINATION
Carton pierre (Papier maché), XVIII, a 232
CARTOON, V, b 144–5; (Fresco), IX, b 679–80; (Kaulbach), XIV, a 19; (Leech, John), b 406; (Leonardo), b 459, a 460
"*Cartoon of Pisa*" (Michel Angelo), XVI, b 238, a b 239, note, a 240
Cartridge (Ammunition), I, b 652, b 653–4; (Artillery), II, a 574, b 575
——, central fire (Gunmaking) (Ill.), XI, a 248; early (Artillery), II, b 573; chamber (Gunmaking), XI, b 251; expanding (Gunnery), b 279; Paper, sizes of, XVIII, b 230; pin fire (Gunmaking), XI, a 248; rifle (Gunmaking) (Ill.), b 249, a 250
Carts (Agriculture), I, a 288
Cartsherrie machine (Coal), VI, a 64
Cartousia, village (Chartreuse), V, b 376
CARTWRIGHT, Edmund, inventor, V, a 145; (Cotton), VI, *b* 444, b 445; (Rope), XX, a 867; (Weaving), XXIV, b 492
CARTWRIGHT, John, major, V, a b 145
CARTWRIGHT, Thomas, Puritan, V, b 145–6; (Presbyterianism), XIX, *b* 705; (Whitgift), XXIV, *b* 585
CARTWRIGHT, William, poet, V, a 146; (Drama), VII, a 374
Cartwright's chain harrow (Agriculture), I, a 284
Carucci, family (Pontormo), XIX, a 473
Caruncula lachrymalis (Anatomy), I, a 782
Caruncules or strophioles (Botany), IV, a 140
CARUPANO, town, V, a 146; (Venezuela), XXIV, a 152
CARUS, Karl Gustav, physiologist, V, a 146; (Evolution), VIII, b 667
——, Marcus Aurelius, Roman emperor (Persia), XVIII, b 619; (Rome), XX, *a* 795
——, Victor Julius, biologist (Hydrozoa), XII, b 589, a 594, b 595; (Morphology), XVI, b 868; (Ornithology), XVIII, a 46
CARVAHAL, Tomas José Gonsalez, poet and statesman, V, a b 146
Carvalho e Mello. See POMBAL
Carvajal, the brothers (Martos), XV, b 593
Carver, John, explorer (Minnesota), XVI, a 500
——, John, Pilgrim Father (Independents), XII, a 764
CARVIN, town, V, b 146
CARVING, V, b 146–8
    in ivory, b 146
    in wood, b 147

—— (Building), IV, a b 455; (India), XII, a 802, b 805; (Japan), XIII, a 534, b 598, a 602; (New Britain), XVII, b 381
Carving in ivory, V, b 146–7; (Plate VII), XIII, a b 533. See IVORY
——, prehistoric (Archæology), II, b 295
——, wood, V, b 147–8; (Burmah), IV, a 495; (Nepāl), XVII, a 352; (Wood Carving) (Ill.), XXIV, b 678–84. See Wood Engraving and WOOD CARVING
CARVING AND GILDING, V, b 148
Carwar, town (Kárwár), XIV, b 8–9
Cary, Henry, earl of Monmouth (Boccalini), III, a 736
CARY, Henry Francis, author, V, b 148–9
——, John (Poor Laws), XIX, a 484
CARY, Sir Lucius, earl of Falkland, V, a b 149
Carya, plants (Hickory), XI, b 705–6
Caryatides (Architecture) (Plate XII), II, b 357, a 361, a 405; (Artemis), a 563; (Canephori), IV, b 711; (Goujon), XI, a 5; of the Erechtheum (Archæology), II, a 312, b 314
CARYL, Joseph, author, V, b 149
Caryocar butyrosum, species (Botany), IV, b 141, a 143
Caryophyllaceæ, order (Botany), IV, b 111, b 114–5, a 116, a 117, a 118, *a* 130, a 133, a 135, a 136, a 142
Caryophyllæidæ, family (Tape-worms) (Ill.), XXIII, a b 59
Caryophyllia, genus (Corals) (Ill.), VI, a 330
Caryophyllus, genus (Cloves), VI, b 37
Caryopsis, integument (Botany), IV, b 137; (Grasses), XI, a b 51
Caryota Palm, XVIII, b 194; (Horticulture), XII, b 276
Carystian marble (Rome), XX, a 826
CASA, Giovanni della, poet, V, b 149
——, José Iglesias de la, poet (Spain), XXII, b 374
Casaba, town. See CASSABA
Casa Blanca, town (Morocco), XVI, a–b 857
CASA CALENDA, town, V, b 149
Casa del Gobernador, palace (Yucatan), XXIV, b 796
Casa Guidi Windows (Browning), IV, b 352
CASALE, town, V, b 149; (Monfirrato), XVI, a 765
CASALMAGGIORE, town, V, b 149
CASALPUSTERLENGO, town, V, b 149–50
Casamicciola, town (Ischia), XIII, b 395
Casanatense Library, Rome, XIV, b 528
CASANOVA DE SEINGALT, Giovanni Jacopo, adventurer, V, a 150
Casarca, bird (Sheldrake), XXI, a b 825
Casas. See LAS CASAS
CASAS GRANDES, town, V, a b 150
Casati, slaves (Slavery), XXII, b 144; act (Italy), XIII, a 471
CASAUBON, Isaac, author, V, b 150–2
    in England, b 151–2
    in France, a 151
    in Geneva, b 150–1
    works of, b 152

—— (Grotius), XI, b 193, *b* 194; (Petau), XVIII, b 706
Casauboniana (Ana), I, a 689
CASBIN, city, V, b 152
Cascade, electrical, VIII, a b 33
—— furnace (Iron) (Ill.), XIII, a 347
—— of Karlsburg (Cassel), V, a 160
Cascade mountains (America), I, b 595; (Oregon), XVII, b 845, *a* b 847; (United States), XXIII, b 848, *b* 850, *a* b 851, a 855, *b* 861; (Washington Territory), XXIV, b 405, *a* 406, *b* 407
Cascades, cave (Luray Cavern), XV, a 69
—— of the Columbia (Oregon), XVII, b 846
Cascalho, rock (Diamond), VII, a 142
Cascariolo, Vincenzo, discoverer (Phosphorescence), XVIII, a 826
Cascaroba or coscaroba, bird (Swan), XXII, b 769, *a* 770, note
CASCIANO DEI BAGNI, town, V, b 152
Casco, hybrid (Negro), XVII, a 329
—— Bay (Longfellow), XIV, a 871; (Portland) (Ill.), XIX, a 543
Case, printer's (Typography) (Ill.), XXIII, a b 745
Case-affixes in grammar (Hindūstānī), XI, b 750, b 751–2. See Cases
Cased window frames (Building) (Ill.), IV, b 443–4
Case hardening (Iron), XIII, a b 351; partial (Iron), b 351
Casein (Cheese), V, *b* 394, a 395; (Chemistry), b 502; (Dairy), VI, a 680; (Milk), XVI, a *b* 316, a 317
Case is Altered, play (Jonson), XIII, a 752
Casemate (Fortification), IX, a 409
Casements (Building) (Ill.), IV, b 442–3
Caseous degeneration of protoplasm (Pathology), XVIII, a 399, a 416; (Phthisis), b 869–70; suprarenal (Pathology), XVIII, a b 392
CASERTA, city, V, b 152–3; Vecchia, town, V, a 153
Cases (Grammar), XI, b 36, a b 37, b 38, a 39; Latin (Priscian), XIX, a b 765; primitive (Greece), XI, a b 114–5, a b 116
Cases of Conscience. See CASUISTRY
Cases of Conscience (Sanderson), XXI, b 270
Case-shot (Ammunition), I, b 653; (Gunnery), XI, *a* 271
Case Vecchie, nobles (Morosini), XVI, b 862
Cash, coin (Canton), V, b 34; (Numismatics), XVII, a 680
CASHAN, city, V, a 153
Cashbook (Book-keeping), IV, b 40, *a* 42
—— credits, Scotch (Banking), III, a b 288
CASHEL, city, V, a b 153; see of (Thurles), XXIII, b 353; synod of, 1172 (Ireland), XIII, a 265
—— rock of, V, a b 153; (Tipperary), XXIII, a 433
Cashew apple, V, b 153
CASHEW NUT, V, b 153; (Anacardiaceæ), I, b 690–1; (Botany) (Plate IV), IV, b 108, a 137; (Oils), XVII, a 765
—— rains (Brazil), IV, b 202
Cashgar, town. See KASHGAR
Cashiering, penalty (Military Law), XVI, a 310
Cashin, river (Kerry), XIV, a 53
Cashiobury House (Hertford), XI, a 690
Cashmere. See KASHMIR.
——, fabric (Fibres, Textile), IX, a b 115. See SHAWLS
—— Goat, X, a b 623
Casilinum, town (Capua), V, a 71; battle of, 554 (Narses), XVII, a 240
Casimir or Kazimierz I., king (Poland), XIX, a b 298
—— II. (Poland), XIX, a b 299
—— III., the Great (Poland), XIX, b 299–300, b 311
—— IV. (Poland), XIX, b 301
—— V., John, king (Poland), XIX, a 306–7
——, John, tutor (Presbyterianism), XIX, b 716
——, Fort (Delaware), VII, a b 40
Casing (Bookbinding), IV, a 39 40
Casino. See MONTE CASINO
—— of Quisisana (Castel-a-mare), V, b 168
Casiquiáre river (America), I, b 589; (Brazil), IV, b 199, b 200; river (Orinoco), XVII, a 868
CASIRI, Michael, Maronite, V, b 153; (Edrisi), VII, *a* b 581
Casius, mount (Philistines), XVIII, a 771; (Syria), XXII, b 860
Cask (Cooperage), VI, b 300; (Mensuration), XVI, b 32-3
"Casket, Affair of the" (Lassalle), XIV, a 321
Caskets, Roman (Præneste), XIX, a 675
Caslau. See CZASLAU
Caslon, William, type-founder (Typography), XXIII, *b* 740, a 744, b 756
Casma, river (Peru), XVIII, a 684
Casmenæ, town (Syracuse), XXII, a 853
CASORIA, town, V, b 153
Caspari, Karl Paul, theologian (Norway), XVII, b 606; (Paul), XVIII, b 428 note
CASPE, city, V, b 153
CASPIAN SEA (Map), V, b 153-8
    basins of, a 154–5
    climate, a b 156
    drainage-area, a 155
    fauna, b 156
    former extent, a b 157–8
    naphtha springs, b 156–7
    salinity of, b 155–6

Caspian Sea (Black Sea), III, a 693; (Geology), X, *a* 248; (Lake), XIV, *b* 217, a *b* 218, *a* b 223; (Mammalia), XV, a 377; (Mazandarán), *a* 658; (Oxus), XVIII, a b 108; (Ozocerite), a 116; (Persia), a 595, a 598; (Ptolemy), XX, b 99; (Russia), XXI, b 79, b 93; (Transcaspian), XXIII, *b* 544, a b 545, note; (Uralsk), XXIV, b 10, *a* 11
——, discovery of (Geography), X, b 159; fishery (Seal), XXI, b 609–10; river basin of (Russia), a 81, *a* 83, b 85; water-shed (Persia), XVIII, b 630–1
—— Tern, bird, XXIII, b 206
Casque. See HELMET
Casquets, isles (Alderney), I, a 419; (Channel Islands), V, a 340
CASS, Lewis, Senator, V, a b 158; (United States), XXIII, a 813, b 816
CASSABA or Casaba, town, V, b 158
Cassa Ecclesiastica, fund (Italy), XIII, b 469-70
Cassagnac, Paul de, editor (Flourens, G.), IX, b 304
Cassana, Giovanni Francesco, painter, V, b 158
CASSANA, Niccolò, painter, V, a 158
CASSANDER of Macedon, king, V, b 158–9; (Macedonian Empire), XV, a 143; (Olympias), XVII, a b 792; (Phocion), XVIII, b 813
CASSANDER, George, theologian, V, a 159
CASSANDRA, prophetess, V, a 159; (Ágamemnon), I, a 245; (Ajax Oileus), a 384
Cassandra, poems (Lycophron), XV, b 95–6; (Pitt), XIX, b 144
CASSANO, town, V, a 159
Cassareep, sauce (Cassava), V, b 159
Cassation, court of (France), IX, b 451. See Court
CASSAVA, plant, V, a b 159; (Botany) (Plate II, A), IV, b 77, a 78; (Brazil), a 204; (Tapioca), XXIII, b 61
Cassegrain, N., physicist (Telescope), XXIII, b 148, b 157–8
CASSEL, France, town, V, a b 161
—— district (Hesse-Cassel), XI, b 696
CASSEL, city of Hesse-Nassau (Ill.), V, b 159-60; battle of, 1072 (Holland), XII, a 74
—— yellow, pigment (Lead), XIV, a 379
Casselmann's green (Copper), VI, a 312
Cassense, Biblioteca, Ravenna (Libraries), XIV, b 530, b 550
Cassia, plant (Senna), XXI, *a* 696
CASSIA BARK, V, b 160; (Cinnamon), b 686
—— buds (Cassia Bark), V, b 160
CASSIANUS, Joannes Eremita, monk, V, b 160-1; (Monachism), XVI, b 728, a 729; (Pelagius), XVIII, b 483
Cassibelemus, king (Bedfordshire), III, b 417
Cassidæ, beetles (Coleoptera) (Ill.), VI, a b 121
Cassididæ, family (Insects), XIII, b 156
Cassidina, genus (Crustacea) (Ill.), VI, a 565
Cassidulina, genus (Protozoa), XIX, b 870
Cassilis, earls of (Maybole), XV, b 654
Cassin, John, ornithologist (Ornithology), XVIII, b 15 note, b 20; (Toucan), XXIII, a 507
CASSINI, Giovanni Domenico, astronomer, V, a 161; (Astronomy), II, a 660, a 661, *a* 691, a 692, a 704, *b* 707, a 710; (Earth), VII, b 516, a 517; (Map), XV, *a* 529; (Parallax), XVIII, b 253; (Paris), a 298; (Telescope), XXIII, a 148; (Zodiacal Light), XXIV, a b 835, a 837
——, Jacques, astronomer, V, a 161; (Astronomy), II, a 692; (Earth), VII, b 516, a 517
——, Jacques Dominique, astronomer, V, b 161
——, de Thury, César François, astronomer, V, a b 161; (Earth), VII, *a* 517
Cassino. See MONTE CASSINO
CASSIODORUS, Magnus Aurelius, historian, V, b 161; (Boetius), III, a *b* 744; (Church History), V, a 668; (Clemens Alexandrinus), b 716; (Goths), X, a 753, a b 756; (Jordanes), XIII, *a* b 758, *a* 759; (Libraries), XIV, a 512; (Monachism), XVI, a 732; (Papyrus), XVIII, a 237; (Priscian), XIX, a 763; (Theodoric), XXIII, b 276, a 277
Cassiopea, heroine (Andromeda), II, b 21, a 22
Cassiquiari river. See Casiquiáre
CASSIS, town, V, b 161
Cassite dynasty (Babylonia), III, *a* 161, note; (Elam), VII, b 689
Cassiterides, island (Phœnicia), XVIII, a 819; (Scilly Islands), XXI, a 487
Cassiterite (Mineralogy) (Ill.), XVI, a 379, a 387, b 392, b 402, a 403; (Tin), XXIII, a b 427
Cassiterotantalite (Mineralogy), XVI, b 445
Cassius, Avidius, general (Aurelius), III, a 76, a 77; (Egypt), VII, b 648
CASSIUS LONGINUS, Caius, assassin, V, b 161-2; (Augustus), III, *b* 69; (Persia), XVIII, b 607, a 608
——, Spurius Viscellinus (Agrarian Laws), I, a 258
Cassivellaunus, general (Britannia), IV, b 318; (Cæsar), b 565; (Hertford), XI, b 689; (London), XIV, a b 850, note; (Middlesex), XVI, a 293
Cassla, Ritta von, nun (Stigmatization), XXII, b 577
Cassoon or caisson (Architecture), II, a 405
Cassova, battlefield. See Kosova
Cassovia, town. See KASCHAU
CASSOWARY, bird, V, a 162; (Birds), III, a b 642, notes, a 643; (Emeu) (Ill.), VIII, b 157, a b 158
Cassytha, plant (Parasitism), XVIII, a 270
Cast guns (Gunmaking), XI, b 255–6; (Gunnery) (Ill.), a b 272, a b 273
—— iron (Iron), XIII, b 287, a b 288, a b 297–326; rapid cooling, effect of (Iron), a 365; steel (Iron), a 349, b 350–1
Castabala, town (Cappadocia), V, a 68
Castagna. See pope URBAN VII.
CASTAGNO, Andrea del, painter, V, a 162
Castaldi, Pamfilo, printer (Typography), XXIII, a 733
CASTALIA, fountain, V, a b 162; (Delphi), VII, a 47
Castalio or Castellio, Sebastien, divine (Canticles), V, a 30
Castamon, town. See KASTAMUNI
Castanea vulgaris, species (Arboriculture), II, b 278
CASTANOS, Don Francisco Xavier de, general, V, b 162
Castara (Habington), XI, a *b* 321
CASTE, V, b 162–8
Egyptian, b 167–8
India, b 163–7
Indian customs, b 165–7
origin of Hindu, a 165
Persian, a 167
Puranas, a 164–5
various forms, b 162–3

—— (Ceylon), V, b 316, a 319; (Family), IX, a 23
Caste in India (Aryan), II, b 588; (Brahmanism), IV, b 183–4, b 186, b 189; (Cotton), VI, b 432–3; (Gilgit), X, a 534; (India), XII, a 799, b 820–2, a *b* 822, a 827; (Jains), XIII, a 554; (Madras), XV, a 186; (Manipur), a 497; (Oudh), XVIII, b 75
——, social functions of (Political Economy), XIX, b 360; warrior (Egypt), II, b 490
Castel, Jean de, poet (Christine de Pisan), V, a 611
CASTEL, Louis Bertrand, mathematician, V, a 168
Castel of Love (Grosseteste), XI, b 188
CASTEL-A-MARE or Castellamare, Italy, town, V, a 168
CASTEL-A-MARE, Sicily, town, V, a 168
Castelar, Emilio, president (Spain), XXII, *b* 360
Casteleyn, Matthijs de, lyrist (Holland), XII, a 95
Castelfranco, town (Giorgione), X, *a* b 542, a 543
CASTELL, Edmund, orientalist, V, a b 168
Castella, reservoirs (Aqueduct), II, b 192
Castellani, antiquary (Filigree), IX, a b 143; (Gold), X, a 659; art collections of (Jewellery), XIII, b 687, b 688
Castellano degli Andalò, senator (Rome), XX, b 814
Castellans, officials (Poland), XIX, a 300, a 304
Castellholmen, island (Stockholm), XXII, b 587
Castelli, Benedetto, mathematician (Galileo), X, a 30; (Hydromechanics), XII, b 451; (Torricelli), XXIII, b 481
CASTELLI, Ignaz Friedrich, dramatist, V, b 168
—— art-works (Italy), XIII, b 464
CASTELLO, Bernardò, painter, V, b 168
CASTELLO, Giovanni Battista, painter, V, b 168; (Genova), X, a b 142
——, Guido. See pope CELESTINE II.
CASTELLO, Valerio, painter, V, b 168
Castello-Giubileo, town (Fidenæ), IX, b 123
CASTELLON DE LA PLANA, town, V, b 168; province (Spain), XXII, b 312, b 318, b 360
Castel Melhor, Luis de Sousa e Vasconcellos, count of (Portugal), XIX, *a* b 564
CASTELNAU, Michel de, chronicler, V, b 168–9; (Paris), XVIII, a 297
CASTELNAUDARY, town, V, b 169
CASTELO BRANCO, town, V, b 169
CASTEL SARRASIN, town, V, a 168; (Garonne), X, b 75
CASTEL VETRANO, town, V, a 168
Castelvetro, Ludovico, critic (Caro), V, b 110
Casterly, ruins (Wilts), XXIV, b 626
CASTI, Giovanni Battista, poet, V, b 169
Castia-Gilos (Provençal Literature), XIX, a 901
Castiglione, duke of. See AUGEREAU
CASTIGLIONE, Baldassare, courtier and author, V, a 170; (Education), VII, b 583; (Italy), XIII, b 520; (Urbino), XXIV, b 14
CASTIGLIONE, Carlo Ottavia, Count, philologist, V, b 170
——, Francesco, painter, V, a 170
CASTIGLIONE, Giovanni Benedetto, painter, V, a 170
——, Salvatore, painter, V, a 170
CASTIGLIONE DELLE STIVIERE, town, V, b 169–70
—— Fioretino, town, V, a 170
CASTILE, province, V, b 170–1; (Spain), XXII, *b* 307, b 309, *a* b 310, *a* b 311, b 312, b 313, a 315
——, kingdom (John II., Aragon), XIII, b 726; (Spain), XXII, b 326, *a* 327, a 330–6, a *b* 340, *a* *b* 342, *a* *b* 343, a 344, a 346, a 348, *a* b 350; insurrection of (Charles V.), V, a 359; mediæval constitution of (Spain), XXII, b 332–3
—— and Aragon, kings of (Reformation), XX, a 337
—— and Leon, kingdom (Pedro I.), XVIII, a 461–2; (Spain), XXII, a 332

Castilho, Antonio Feliciano de, poet (Portugal), XIX, a 573
Castilian language (Europe), VIII, b 614; (Herrera), XI, b 681; (Spain), XXII, a 360, b 363-5, b 366
—— literature (Spain), XXII, a 367-76
Castilla, mountain (New Mexico), XVII, a 410, a 411 note
——, Ramon, general (Peru), XVIII, a b 692
CASTILLEJO, Christobal de, poet, V, a b 171
Castillejos, marquis. See PRIM
Castillo, pyramid (Yucatan), XXIV, a 797
——, Antonio Canovas del, historian (Spain), XXII, a 376
——, Bernal Diaz del, captain (San Juan de la Frontera), XXI, a 279; (Spain), XXII, b 373
——, Juan del, painter (Murillo), XVII, a b 61
Castilloa elastica, plant (India-Rubber) (Ill.), XII, a 876, *b* 678, a 879
Castine, promontory (Maine), XV, a 304
Casting, metallic (Bell), III, b 463; (Bismuth), b 686; (Brass), IV, a 196; (Bronze), b 330, b 331, *a* 332; (Founding), IX, a 423; (Iron), XIII, b 365, a b 366; (Metal-work), XVI, a 78, b 84
——, plaster (Sculpture), XXI, a 598
——, speculum (Rosse), XX, b 878-9
—— table (Glass), X, a b 590
—— vote (Parliament), XVIII, a 318
CASTLE, V, b 171-3
  Norman-English, a 172
  Scotch, a 173
  Roman, in England, b 171
CASTLES, list of principal
—— (Alnwick), I, a 525
—— of Arques, II, a 549
——, Arundel, II, a 586
——, Babenberg (Neustadt), XVII, b 374
——, Bamborough, III, b 264
——, Bar-le-Duc, III, b 307
——, Barnard, III, a 326
——, Barnwell (Northampton), XVII, b 570
——, Beaumaris, III, a 405
——, Bellver (Palma), XVIII, a 196
——, Berkeley, III, b 508
——, Bird (Parsonstown), XVIII, b 333
——, Black (Wicklow), XXIV, a 589
——, Blarney (Cork), VI, b 359
——, Bolton (York), XXIV, b 786
——, Breda, IV, a 219
——, Bristol, IV, b 314, *a* b 315, *a* 316, a 317
——, Cambridge, IV, b 645-6
——, Bruce (Tottenham), XXIII, a 506
——, Burgh (Suffolk), XXII, a 655
——, Cadzow (Hamilton), XI, b 367
——, Cambridge, IV, b 645-6
——, Campbell (Clackmannan), V, a 697
——, Cardiff, V, a b 82
——, Cardigan, V, b 84, a 85
——, Carisbrooke, V, b 94; (Wight), XXIV, *b* 593
——, Carlow, V, b 98-9
——, Carnarvon, V, b 105
——, Carreg Cennin (Carmarthen), V, *a* 102
——, Carrickfergus, V, b 121
——, Cesena, V, a 310
——, Chantilly, V, a 343
——, Charlottenburg, V, b 372
——, Châteauroux, V, *a* 380
——, Château-Thierry, V, a 380
——, Chepstow, V, b 506
——, Chester, V, a 525, *a* 526
——, Chillon (Vaud), XXIV, b 125
—— (Civita Vecchia), V, a 697
—— (Coburg), VI, a 84
——, Colchester, VI, b 112
——, Conway, V, b 293
—— (Copenhagen), VI, a 305
—— (Damascus), VI, a 697
——, Desborough (Wycombe), XXIV, *a* 748
——, Devizes, VII, a 120
——, Domberg (Reval), XX, a b 510
——, Dover, VII, a 329
——, Dreux, VII, b 405
——, Dublin, VII, b 428, b 429, b 431
——, Dudley, VII, a b 441
——, Dumbarton, VII, b 453
——, Dumfries, VII, b 456
——, Dunbar, VII, a b 459
——, Dunnottar (Kincardine), XIV, b 81
——, Dunoon, VII, b 470
——, Durham, VII, b 484, a b 485
——, Edinburgh, VII, a 572, a 573, *a* 575
——, Ehrenbreitstein, VII, a b 683
——, Friedenstein (Gotha), X, *b* 750, a 751
——, Gisors, X, a 557
— or Gemp (Goudar), X, *b* 685
——, Graney or Grandison (Kilkenny), XIV, a 77
——, Ham, XI, a 358
——, Harzburg, XI, a 454
——, Hastings, XI, a b 457
——, Haverford west, XI, a 470
——, Hawarden, XI, a 476
——, Heidelberg (Plan), XI, b 555-6
——, Helmond, XI, a b 569
——, Hideyoshi (Ozaka), XVIII, b 115
——, Hohenstaufen (Göppingen), X, a 694
—— (Holy Island), XII, b 108
——, Homburg-vor-der-Höhe, XII, b 110
——, Howard (Vanbrugh), XXIV, a 61, *a* 62
——, Hudemühlen (Penates), XVIII, a 500
——, Inverary, XIII, a 205
——, Istakhar (Persepolis), XVIII, a 572, notes
——, Kendal, XIV, a b 36
——, Kenilworth, XIV, b 36
——, Kennedy (Wigton), XXIV, a 594, b 595
——, Kevin (Wicklow), XXIV, a 589
——, Kilkenny, XIV, b 77
——, Kildrummy (Aberdeenshire), I, b 47
——, Knaresborough, XIV, b 111
——, Koldinghuus, XIV, a 138
——, Kronberg (Elsinore), VIII, b 143
——, Lancaster, XIV, b 255
——, Lethe or Oblivion (Dizful), VII, b 265; (Persia), XVIII, a 622
——, Lochleven (Kinross), XIV, b 94
——, Lohort (Cork), VI, b 359
——, Marienburg, XV, a 549
——, Marlborough, XV, a 560
——, Middleham (York), XXIV, b 786
——, Monmouth, XVI, b 781
——, Montgomery, XVI, b 815
——, Moritzburg (Halle), XI, a b 353
——, Moron, XVI, a 862
——, Munoth (Schaffhausen), XXI, b 403
——, Nagoya, XVII, a 171
——, Nantes, XVII, b 179, a 180
——, Nérac, XVII, a 355
——, Neuilly-sur-Seine, XVII, b 371
——, Newark, XVII, a 379
——, Newcastle, XVII, a b 387, a 389
——, Niort, XVII, a 527
——, Nottingham, XVII, *a* 615
——, Nuremberg, XVII, b 681, a b 682
——, Nyköping, XVII, a 707
——, Ormondes (Wicklow), XXIV, a 589
—— of Otranto, XVIII, b 71
——, Ovo (Naples), XVII, a 196
——, Ozaka (Japan), XIII, a 583
——, Pau, XVIII, a b 425
——, Peronne, XVIII, a 564
——, Perpignan, XVIII, a 568
——, Pilgrim (Templars), XXIII, b 177
——, Pontefract, XIX, b 469
——, Powis (Welshpool), XXIV, *a* b 528
——, Reigate, XX, *a* 365
——, Richmond, Yorkshire, XX, a 560
——, Robert de Torri's (Stafford), XXII, *a* 461
——, Rochester, XX, a b 629
——, Romille (Skipton), XXII, *b* 132
——, Rothesay, XXI, b 6
——, Rougemont (Exeter), VIII, a 701, a 702
——, Rushkin (Castleton), V, b 173
——, St. Andrew's, XXI, a 166
——, St. Angelo, Rome (Architecture), II, b 367
——, St. Elmo (Naples), XVII, a 196
——, St. George (Cephalonia), V, a 299
——, St. Germain-en-Laye, XXI, b 178-9
——, Scarborough, XXI, a b 392
——, Schwanenburg (Cleves), V, a 725
—— (Selkirk), XXI, b 670
—— (Sheffield), XXI, a b 824
——, Sherborne, XXI, b 832
——, Shrewsbury, XXI, b 884
——, Southampton, XXII, b 295
——, Stirling, town, XXII, b 582, b 583, a 584
——, Sorella (Sora), XXII, a 288
——, Tamworth, XXIII, b 49
——, Threve (Kirkcudbright), XIV, a 101
——, Trausnitz (Landshut), XIV, a 282
——, Tuam (Galway), X, a 52
——, Upsala, XXIII, a b 917
——, Viborg, XXIV, a 226
——, Vincennes, XXIV, a 251
——, Warwick (Swansea), XXII, b 770, b 771; XXIV, a *b* 401
——, Weibertrue (Kerner), XIV, a 52
——, Williams, New York, XXIV, a 900
——, Windsor, XXIV, b 632-3

Castle, E., philologist (Polyglott), XIX, a 431
——, Egerton, gladiator (Sword), XXII, b 841, a *b* 842
CASTLEBAR, town, V, a b 173; lough (Mayo), XV, a 657; races, V, b 173
Castlecomer coal-field (Kilkenny), XIV, a 76
Castle-Garden, emigrant depot (Emigration), VIII, b 161; (New York), XVII, a 475
Castle of Indolence (Thomson), XXIII, b 332
Castle-Island (Boston), IV, a 66; (New York), XVII, a b 466
Castle of Otranto, romance (Walpole), XXIV, a 355
Castle Peak (Colorado), VI, b 145; (United States), XXIII, b 846
Castle Rackrent (Edgeworth), VII, a b 567
Castlerea, town (Roscommon), XX, *a* 873
Castlereagh, Robert Stewart, viscount (Canning, Geo.), IV, b 714, *a* 715; (Londonderry), XIV, b 864-7; on non-intervention (Balance of Power), III, a 234
Castles (Caithness), IV, a 575; of Châteaubriant V, b 379; (Deal), VII, a 14; (Denbigh), a b 68; (Donegal), *b* 314; (Durham, county), b 484; (Edinburgh, county), b 571; (England), VIII, b 285; (Farnham), IX, b 35; (Fife), b 134; (Flint), b 286; (Forfar), a 363; (Fougères), *b* 422; (Framlingham), *a* 445; (Frederickshald), b 652-3; (Glamorgan), X, a 565; (Gloucester), b 615; (Grimma), XI, a 180; (Haddington), a 324; (Hainburg), *b* 336; (Hampshire), a 386; (Inverness), XIII, b 206, a 207; (Irvine), a 381; (Japan), b 587, a 588; (Kirkcudbright), XIV, a 101; (Lancashire), b 255; (Linlithgow), b 676-7; (Lismore), *b* 700; (Kent), XIV, b 41; (Mayo), XV, b 657; (Merioneth), XVI, a 44; (Northumberland), XVII, a 582; (Peebles), XVIII, a b 463; (Pembroke), b 493; (Perth), a b 680; (Ross),

Castles, *continued* XX, b 877–8; (Shropshire), XXI, b 887–8; (Somerset), XXII, a 273; (Stirling), a 582; (Suffolk), a 655; (Surrey), a 730; (Wexford), XXIV, b 550; (Wigtown), a 594, b 595; (York), b 786–7
CASTLETOWN, Isle of Man, V, b 173; bay (Man), XV, b 457, *a* 458
Castle-towns (Japan), XIII, b 587
Castling, player's move (Chess), V, a b 515, b 521, a 522
Castniadæ, family (Insects), XIII, b 157
Castor, mammal (Beaver), III, b 410
——, mineral (Mineralogy), XVI, b 434
CASTOR AND POLLUX, V, b 173–4
Castoreum of the Beaver, III, a 411
Castoridæ, family (Mammalia), XV, a 423
CASTOR OIL, V, a b 174; (Oils), XVII, *b* 760, a b 761, b 764, a 765, a b 766; (Perfumery), XVIII, b 537; plant (Botany) (Ill.), IV, *a* b 98, a 99, a 122, b 136, a 142; worm (Silk), XXII, b 66, b 70
Castracane, Castruccio, adventurer (Pisa), XIX, a 130
Castration (Agriculture), I, b 342, b 350, a 353; (Eunuch), VIII, a 586
CASTRÉN, Matthias Alexander, philologist, V, b 174; (Sweden), XXII, b 796; (Ural Altaic), XXIV, *b* 6, a 7
Castrense peculium (Roman Law), XX, b 724, a b 725, b 732
CASTRENSIS, Paulus, jurist, V, a 175
CASTRES, town, V, a 175
Castries, town (St. Lucia), XXI, b 195
Castriot, George, patriot. See Scanderbeg
CASTRO, town, V, a 175
CASTRO, Guillen de, dramatist, V, b 175–6; (Drama), VII, b 364; (Spain), XXII, b 372
CASTRO, Inez de, queen, V, a b 176; (Coimbra), VI, a 107; (Portugal), XIX, b 558
CASTRO, João de, viceroy, V, b 176–7; (Beard), III, b 400; (Portugal), XIX, b 561
Castro, Vaca de (Peru), XVIII, b 690–1
CASTRO DEL RIO EL REAL, town, V, a 175
CASTRO GIOVANNI, town, V, a b 175
CASTRO NUOVO, town, V, b 175
CASTRO REALE, town, V, b 175
CASTRO URDIALES, town, V, b 175
CASTROVILLARI, town, V, a 177
CASTRUCCIO CASTRACANI, chief, V, a 177; (Italy), XIII, b 487, a 488; (Pisa), XIX, a 130
Castrum Caino, town (Chinon), V, b 585
—— Minervæ, town (Castor), V, a 175
Cast Steel. See Cast Iron
Casuariidæ, family (Birds), III, a 624, *b* 625, b 626, b 630
Casuarinas, plants (New South Wales), XVII, b 420
Casuarius, genus (Birds), III, b 671; (Cassowary), V, *a* 162
Casuentus river (Lucania), XV, b 39
CASUISTRY, V, a 177–8
  Christian, b 177
  Jesuit, b 177–8
  Jewish, a 177
  of Reformers, a b 178
—— (Confession), VI, a 229; (Escobar), VIII, a 477; (Ethics), a b 524; (Jesuits), XIII, a b 657, b 661; (Liguori), XIV, b 641, b 642, a 643–6; (Philosophy), XVIII, b 809
Casula, garment (Costume), VI, b 408–9
CASWALL, Henry, divine, V, b 178
CAT, V, b 178–9; (Egypt), VII, a 617; (Mammalia), XV, b 440–1; (St Paul), XXI, a 199; Persian (Persia), XVIII, b 635
——, parasites of (Nematoidea), XVII, b 334, a 335; (Veterinary Science), XXIV, a b 223
——, wild (Cuba), VI, b 601–2; (Fur), IX, b 735, a 736; worship of (Bubastis), IV, b 366; Whittington's, XXIV, *a* 587
Catabanes, people (Yemen), XXIV, *a* 776
Catabaptists, III, b 306
Cataclesia, assembly (Ecclesia), VII, b 538
Catacolo, town (Olympia), XVIII, a 787
CATACOMBS (Ill.), V, b 179–89
  decorations of, a 187
  era of construction, b 179–80
  extent, b 184–5
  explorers, b 180–1
  history of, a 185–7
  interment, modes of, a 182–4
  modern investigation of, b 180
  name, b 179
  provincial, b 187–9
  religious uses of, a b 184
  structural form, b 181–4
—— (Alexandria), I, b 437; (Città Vecchia), V, a 695; (Epitaphs), VIII, b 438; (Kieff), XIV, a 72; Liverpool (Cemetery), V, b 287; (Malta), XV, b 344; (Mural Decoration) (Ill.), XVII, b 49, a 50; (Naples), b 196; (Odessa), b 745, a 746; (Paris), XVIII, b 289; worship in (Incense), XII, b 759
Catadioptric lights (Lighthouse) (Ill.), XIV, b 623, a b 625, b 626, a 629
Catalan forge (Iron) (Ill.), XIII, a 296, b 297, a 304, b 308, b 344–5
—— grand company (Flor), IX, a b 289
—— language (Consulate of the Sea), VI, b 282; (Spain), XXII, a b 360–3, b 366. See *Cathalana*
—— literature (Spain), XXII, b 376–9
—— map (Polo), XIX, b 422
—— steel (Iron), XIII, b 288
CATALEPSY, V, a b 189; (Catherine), b 201
Catalogi (Popedom), XIX, a 503, b 510
Catalogue of Books (Syriac Literature), XXII, b 901
—— *of the Ships* (Homer), XII, b 114, b 116
Catalogues (Libraries), XIV, a 510, a 513, note, a 539–40; (Bibliography), III, b 570–2; Bibliotheque National (Libraries), XIV, a b 524; British Museum (Libraries), a b 515
Catalogus Plantarum (Dillen), VII, b 209
Catalonia, mark of (John II., Aragon), XIII, b 726–7; (Spain), XXII, a b 326, a b 329, a 331
CATALONIA, province, V, b 189–90; province (Spain), XXII, a b 307, b 310, b 311, *b* 312, *a* 313, a 314, *a* 315, a *b* 316, b 320, *b* 336, b 337, a 338, *b* 339–40, a b 342, b 343, a *b* 346, b 347, *a b* 350, b 360, a 361, b 362; (Wine), XXIV, a 640
Catalonian Jasmine, XIII, b 605
Catalpa tree (Arboriculture), II, a 281
Catalytic action (Alcohol), I, a 416
CATAMARCA, town, V, a 190.
Catamenia. See Menstruation
CATANIA or Catana, city, V, a b 190; (Libraries), XIV, a 550; (Numismatics), XVII, a b 655; (Sicily), XXII, *b* 30; plain of (Sicily), *b* 34, *a b* 35, *a* 36
CATANZARO, city, V, b 190; province and town (Calabria) IV, b 577
Cataonia, plain (Cappadocia), V, *b* 67, a 68
Catapan, official (Apulia), II, a 189
Catapleite (Mineralogy), XVI, b 444
Cataphract triremes (Ship), XXI, a b 843
Cataphracti, fishes (Ichthyology), XII, a b 716, a 720, b 728
CATAPULTA, war engine, V, b 190
Cataract, disease (Horse), XII, b 193; (Ophthalmology), XVII, b 804–5; section for (Surgery), XXII, b 707, a 708, a 711
—— Cornish, governor (Steam-Engine), XXII, a b 495, b 528, b 533
Cataractonium or Catterick Bridge, town (York), XXIV, a b 786
Cataracts, water (Europe), VIII, a 601; (Geology), X, a b 245; (Guiana), XI, b 221, a 222; (Madagascar), XV, b 169–7; (Niagara), XVII, b 485–6; (Nile), a 521; (Orinoco), *a* 868; (Plate), XIX, b 199; (Quebec), XX, b 171–2; (Zaire), XXIV, a 802; (Zambesi), a 804
—— Gersoppa (Shimoga), XXI, a b 840
—— of Kong (Mekong), XV, a 841; Velino (Terni), XXIII, b 206–7
—— Nile (Egypt), VII, a 611, b 679. See Cascade, Falls, Waterfalls
Catarractes, river (Pamphylia), XVIII, b 210
CATARRH, V, b 190–1; (Hooping-cough), XII, b 157; (Influenza), XIII, a 80; (Pathology) (Ill), XVIII, a b 385
—— bladder (Vesical Diseases), XXIV, b 204; gastric (Stomach), XXII, a b 603; hepatic (Jaundice), XIII, *a* b 609
Catarrhal affections (Skin Diseases), XXII, b 130–1; conjunctivitis (Ophthalmology), XVII, a 802; Pneumonia, XIX, b 261, a 263
Catasto, law of (Medici), XV, b 794
Catastomina, fishes (Ichthyology), XIII, a b 714, a 731
Catastrophe of plot (Drama), VII, b 350
Catastrophies geological (Lyell), XV, a b 103
CATAWBAS, Indians, V, a 191; (Indians), XII, a 868
Catawba Wine, V, a 191; XXIV, a 644
Cat-bird (Mocking-bird), XVI, b 564
Catch, song (Glee), X, a 604; (Music), XVII, a 90
Catchment Basin (Hydromechanics), XII, a 530
Catch-words in early printing (Typography), XXIII, a 730
Catchwork irrigation, XIII, b 375–7
Catcott, George, pseudo-antiquary (Chatterton), V, b 386, b 387, a 389
CATEAU CAMBRÉSIS or Le Cateau, town, V, a b 191; peace of, 1559 (Italy), XIII, a b 493; (Philip II.), XVIII, a 758
Catecheses (Cyril, St.), VI, a 663
Catechin, dye (Catechu), V, a b 192
CATECHISM, V, b 191–2; (Cranmer), VI, b 487; (England, Church of), VIII, b 339–40; Hamilton's (Scotland), XXI, a 522, a 567; Heidelberg, V, 191; (Ursinus), XXIV, b 17; Indian (Eliot), VIII, a 128; *of Positivism* (Comte), VI, a 208; Puritan (Ball), III, a b 244; *Racovian* (Socinus), XXII, b 243
Catechisms (Creeds), VI, b 499, a 500; (Greek Church), XI, b 141; (Lutherans), XV, a 86; Luther's (Creeds), VI, b 499
Catechists (Catechumen), V, a 193
CATECHU or Cutch, gum, V, a b 192; (Acacia), I, b 66; (Kheri), XIV, b 63; dye (Calico-printing), IV, a 611, a 612; tincture (Betelnut), III, b 532–3
CATECHUMEN, V, b 192–3; (Manichæism), XV, *a* 492; early (Baptism), III, b 302–3
Categorical imperative, Kant's (Schopenhauer), XXI, b 475
Categories, Aristotelian, II, *b* 452, note, a 453; V, a 194

Categories, *continued* -5; (Gilbert de la Porrée), X, a 529; (Scholasticism), XXI, b 441-2
—— of Chrysippus, V, a b 660; (Herbert, Lord), XI, a 646; (Jacobi), XIII, b 547; (Metaphysic), XVI, b 94, b 100, a 101, b 102, a 104; (Psychology), XX, a 83-8
—— of Hegel, V, b 196; XI, b 552, a b 553; (Metaphysic), XVI, a 93
—— of Kant (Æsthetics), I, b 195; XIII, b 860, a 861, a b 862, a 863; V, b 195-6; (Metaphysic), XVI, b 91, b 92
——, mechanical use of (Lully), XV, b 66; real (Psychology), XX, b 85-8
CATEGORY, V, b 193-7
  Aristotelian doctrine, a 194-5
  Hegelian system, b 196
  Hindu philosophy, b 193-4
  Kant's system, b 195-6
  modern philosophy, b 195-7

Catelan, Abbe de (Infinitesimal Calculus), XIII, a 13
Catenæ, patristic (Hermeneutics), XI, a b 667
Catenarian functions applied to thrust (Arch), II, b 287, b 288
Catenary (Mechanics), XV, a 747-9; common (Mechanics), a 747; elliptic (Mechanics), a 749; general (Mechanic), b 748; limit of span of (Mechanics), a b 748; parabolic (Mechanics), b 748; as path of particle (Mechanics), b 748; of uniform strength (Mechanics), a 748
Catenoid surface, stability of (Capillary Action), V, b 61-2
Caterpillar (Butterflies and Moths) (Plates), IV, a *b* 528, b 529, *a* 531; (Hymenoptera), XII, a b 608; (Mimicry), XVI, b 354, b 355; habits of (Zoology), XXIV, a b 858; ravages of (Natal), XVII, a 247; (New South Wales), a 421. See INSECTS, Larvæ
—— eaters, Campephagidæ (Birds), III, a 641
Caterus, theologian (Descartes), VII, *a* 104
Catesby, Mark, naturalist (Ornithology), XVIII, a b 9, note; (Oyster-catcher), b 114
——, Robert, conspirator (Fawkes), IX, *b* 51, *a* 52
Cat-fish (Ichthyology), XII, b 730; (Siluridæ), XXII, a 75
CATGUT, cord, V, a 197
Cathaig Inis, island (Ireland), XIII, a 259
Cathalana, Gramatica y Apologia de la Llengua (Spain), XXII, b 378
Cathari, sect, Hildegard, XI, a 729; (Patarenes), XVIII, a 359; (Reformation), XX, a 335; (Waldenses), XXIV, *b* 343, *b* 344
Catharina of Raeonizio, nun (Stigmatization), XXII, b 577
Catharpin legs defined (Seamanship), XXI, b 632
Cathartes, genus (Birds), III, b 652
Cathartic acid (Senna), XXI, *a* 697
Cathartidæ, family (Birds), III, b 652; (Vulture), XXIV, b 322
Cathartocarpus fistula (Botany), IV, a 130, b 134, a 135, b 136, b 137
Catharus, genus (Thrush), XXIII, a 343
Cathay or Khitai, country (China), V, *b* 544, b 545-7; (Prester John), XIX, b 735; conquest of (Kublai Khan), XIV, b 151
Cathay and the Way Thither (Odoric), XVII, b 749
CATHCART, Sir George, general, V, a b 197
——, William Shaw, earl of, V, *b* 197
Cathead (Anchor), II, b 8, a 9
CATHEDRAL CHURCH, V, b 197-9
—— (Building), IV, b 401; (Cloister), VI, b 36; (Crypt), a b 591, a 592; (Furniture), IX, b 745, a 746; (Zodiac), XXIV, b 834
—— architecture (Caricature), V, a 92; (Fine Arts), IX, a 178; chapters (Consistory), VI, a 261; façades, French (Sculpture) (Ill.), XXI, b 588-9; organization (Dean), VII, b 14-5; portals (Architecture), II, a 414
CATHEDRALS, list of
—— (Aarhuus), I, a 11
—— (Aberdeen), I, a 46
—— (Aix-la-Chapelle), I, a 383
—— (Albi), I, a 402
—— (Amiens), I, b 647; (Sculpture), XXI, a b 589, note
—— (Antwerp), II, a 128
—— Arezzo (Glass), X, b 598; (Robbia), XX, a b 606; (Piero), XIX, a 91, b 92; altar (Pisano), a 132
—— (Auch), III, a 59
—— Baltimore (Guérin, J. B. P.), XI, a 219
—— (Bamberg), III, b 263
—— (Bangor), III, a 271
—— (Barcelona), III, b 316
—— (Basel), III, a 352
—— (Bayeux), III, a 396
—— (Beauvais), III, a 410
—— (Bergamo), III, a 507
—— (Beverley), III, b 536
—— (Bourges), IV, a 160; (Sculpture), XXI, a 589
—— (Bremen), IV, b 228
—— (Bristol), IV, b 315, a b 317; (Abbey) (Ill.), I, b 25
—— (Bruges), IV, a 356
—— (Brussels), IV, b 363
—— (Burgos), IV, a 478; (Architecture), II, a 379; (Sculpture), XXI, b 593
—— (Cambray), IV, b 642
—— (Canterbury), V, b 26, b 27-8; (Architecture), II, b 373-4, b 403, a 416, b 418; (Basilica) (Ill.), III, b 361-2; (Sculpture), XXI, a 586
—— (Carácas), V, a 73
—— (Carcassone), V, a 80
—— (Carlisle), V, b 96-7
—— (Cashel), V, a b 153
—— (Chartres), V, a b 376; (Architecture), II, a 377; (Roland), XX, b 642; (Sculpture) (Ill.), XXI, b 588, a b 589
—— (Chester), V, b 525, b 526
—— (Chichester), V, *b* 533; (Sculpture), XXI, a b 584, a 586
—— (Civita Castellana), V, b 696
—— (Clermont), V, b 723
—— (Cloyne), VI, a 38
—— (Coire), VI, a 107
—— (Cologne), VI, b 136; (Architecture), II, a *b* 377; (Hess, H. M.), XI, b 695; (Romance), XX, a 669; (Sculpture), XXI, a b 591
—— (Como), VI, b 195; (Sculpture), XXI, a 595
—— (Cordova), VI, b 345-6; (Aisle), I, a 382
—— (Cordova, S. A.), VI, b 346
—— (Cork), VI, b 359
—— (Cortona), VI, a 392
—— (Coutances), VI, a 469
—— (Cracow), VI, b 479
—— (Cremona), VI, a 502
—— (Dol), VII, a 297
—— (Dublin), VII, b 431, *a* 432
—— (Dunblane), VII, a b 460
—— (Dunkeld), VII, a 469
—— (Durham), VII, b 483, b 484, a b 485; (Universities), XXIII, *b* 909
—— (Elgin) (Plan), VIII, a b 123
—— (Ely), VIII, a 144; (Architecture), II, b 406, b 410
—— (Embrun), VIII, a 150
—— (Erfurt), VIII, b 460-1
—— (Etchmiadzin), VIII, a 500
—— (Evreux), VIII, b 676
—— (Exeter) (Ill.), VIII, b 701; (Architecture), II, b 374, a 406
—— (Ferrara), IX, a 95
—— (Fiesole), IX, b 129-30; (Mino di Giovanni), XVI, b 500
——, Florence (Architecture), II, b 381, a 382, a 405, a 407; (Brunelleschi), IV, b 358; (Dome), VII, b 301, *a* 302; (Giotto), X, a b 545; (Glass), *a* b 597-8; (Mural Decoration), XVII, b 41; (Orcagna), b 838; (Piero), XIX, a 91; (Robbia), XX, *b* 604, a b 605; (Zuccaro), XXIV, a 865
—— (Forli), IX, a 365
—— (Frankfort), IX, a 621
—— (Freiberg), IX, a 670; (Sculpture), XXI, a 591
—— (Freiburg), IX, a 672; (Grün, H. B.), XI, a b 199
—— (Fünfkirchen), IX, b 726
—— (Gaeta), X, a 14
—— (Geneva), X, *b* 131, b 135
—— (Genoa), X, b 138-9; (Architecture), II, a 381, a 399
—— (Gerona), X, a 490; (Architecture), II, b 379; (Sculpture), XXI, b 593
—— (Ghent), X, b 503-4
—— (Girgenti), X, b 555
—— (Glasgow), X, b 568, a b 569, a 573; (Ainmuller), I, a 378; (Crypt), VI, b 591
—— (Gloucester), X, *b* 616; (Architecture), II, b 403, *b* 405, b 410, a 416, b 418; (Sculpture), XXI, b 584, a 585 note, a 586; (Wood-carving), XXIV, b 680
—— (Goslar), X, b 701
—— (Gothenburg), X, b 751
—— (Gran), XI, b 40
—— (Granada), XI, a 41; (Sculpture), XXI, b 593
—— (Gratz), XI, a 57
—— (Grenoble), XI, a 165
—— (Guadalajara, Mexico), XI, a 203
—— (Haarlem), XI, b 317-8
—— (Halberstadt), XI, b 339
—— (Havana), XI, b 468; (Columbus), VI, b 157, note
—— (Hereford) (Ill.), XI, b 653-4; (Crypt), VI, b 591
—— (Hildesheim), XI, a b 729; (Sculpture), XXI, a 591
—— (Inverness), XIII, a 207
—— (Iona), XIII, b 209
—— (Jaen), XIII, a 551
—— (Kamenets), XIII, a 842
—— (Kaschau), XIV, a 9
—— (Kieff), XIV, b 71 2
—— (Kilkenny), XIV, a b 77
—— Killaloe (Clare), V, b 702
—— (Kirkwall), XIV, b 101
—— Koutaïs (Georgia), X, a 388
—— (Lanciano), XIV, a 260
—— (Laon), XIV, a b 291
—— (Lausanne), XIV, a 351
——, Le Mans (Architecture), II, a 377
——, Leon (Architecture), II, *a* 379
—— (Lichfield), XIV, b 566
—— (Liége), XIV, b 572; (Sculpture), XXI, a 591
—— (Limoges), XIV, b 657-8
—— (Lincoln), XIV, b 663-4, note; (Architecture) (Plate XVIII), II, a 374, a b 405, a 406, a 408
—— (Linköping), XIV, a 675
—— Llandaff (Cardiff), V, b 83; (Glamorgan), X, b 565
—— London, St. George's, Southwark, XIV, b 848
——, London, St. Paul's (Architecture) (Plates XXII, XXIII), II, b 383, b 387, a 388, b 405, *b* 406, a 407, a 413, a 415; (London), XIV, *a* 827, a 837, a 844, a b 847, *a* 850, a *b* 853, a 854, a b 858, b 859, a 862; (Organ), XVII, a 859, b 861. See St. Paul's Cathedral
—— (Loreto), XV, b 5
—— (Lucca), XV, b 40; (Architecture), II, a b 399, *a* 400
—— (Lund), XV, a 67
—— (Lyons), XV, b 112
—— (Magdeburg), XV, a 198; (Sculpture), XXI, a 591, a 592
—— (Mainz), XV, b 308
—— (Malaga), XV, b 318
—— (Man, Isle of), XV, a 462
—— (Manchester), XV, a 469
—— (Mans), XV, b 504
—— (Mantua), XV, a 511
—— (Marseilles), XV, b 578-9
—— (Meaux), XV, a 676
—— (Mechlin), XV, b 784
—— (Meissen), XV, b 810
—— (Merseburg), XVI, b 45

Cathedrals, *continued*
—— Messina), XVI, a 62
—— (Metz), XVI, a 211
—— (Mexico), XVI, b 229
—— (Milan), XVI, a b 303; (Architecture), II, b 381; (Borromeo), IV, a 58; (Metal-work) (Ill.), XVI, b 80
—— (Minden), XVI, b 357
—— (Modena), XVI, b 564, b 565
—— (Monreale) (Ill.), XVI, b 785-6; (Mosaic) (Ill.), XVI, b 879, a 880; (Pisano), XIX, a 133
— (Montauban), XVI, a 804
—— (Montpellier), XVI, b 818
—— (Montreal), XVI, b 820
—— Monza (Plate), XIX, a 194; (Terra Cotta), XXIII, b 211
—— (Moscow), XVI, b 883, a b 884, a 885, a 887
—— (Moulins), XVII, b 10
—— (Münster), XVII, a 37
—— (Namur), XVII, b 176-7
—— (Nantes), XVII, b 179
—— (Naples), XVII, a 196
—— (Narbonne), XVII, a 236
—— (Nevers), XVII, a 378
—— (Newcastle), XVII, a b 387
—— (Nijni-Novgorod), XVII, a 515
—— Nördlingen (Herlen), XI, a 661
—— (Norwich), XVII, b 608, a b 609
—— (Noyon), XVII, b 624-5
—— (Orleans), XVII, a b 874
—— (Orvieto), XVIII, a 57; (Mural Decoration), XVII, a 41, b 50; (Orcagna), a 839; (Pisano), XIX, b 131, a 132; (Signorelli), XXII, b 55-6; shrine in (Plate), XIX, b 194
—— (Otranto), XVIII, b 71
—— (Oviedo), XVIII, a 88
—— (Paderborn), XVIII, a 135
—— (Palencia), XVIII, b 172
——, Paris, Notre Dame, XVIII, b 281, b 293, a 294, b 299, b 300; (Architecture), II, a 377, b 404, b 412; (Universities), XXIII, a b 890
—— (Palma), XVIII, b 195
—— (Pamplona), XVIII, a 211
—— (Panamá), XVIII, b 212
—— (Parenzo), XVIII, b 277, a 278; (Basilica) (Ill.), III, a 361, a 362
—— (Parma), XVIII, b 319, (Corregio), VI, a b 387
—— (Pavia), XVIII, b 449
—— (Pembroke), XVIII, b 493
—— (Pereyaslayl), XVIII, b 535
—— (Pêrigueux), XVIII, b 545
—— (Perpignan), XVIII, b 567
—— (Perugia), XVIII, b 693
—— (Peterborough), XVIII, a 713; (Architecture), II, *b* 373, a 400, a 405, a 414
—— (Piacenza), XIX, a 72
—— (Pisa), XIX, b 128, b 130, a 131; (Architecture) (Plate XIX), II, a 381, a 383, a 399; (Carthage), V, b 142; (Cimabue), *b* 680; (Pisano), XIX, b 132; (Sculpture), XXI, a b 596
—— (Pistora), XIX, a 141; (Metal-work) (Ill.), XVI, b 81
—— (Poitiers), XIX, b 293; (Sculpture), XXI, b 588-9
—— (Prague), XIX, b 678
—— (Prato), XIX, a 680; pulpit (Rosselino), XX, a 880
—— (Puebla), XX, *a* 104
—— (Puy), XX, *b* 124
—— (Quimper), XX, b 187
—— (Ratisbon), XX, a 304; (Hess, H. M.), XI, *b* 695
—— Ravello (Sculpture), XXI, a 594
—— (Ravenna), III, b 360
—— (Rheims), XX, b 521-2; (Mural Decoration), XVII, b 44; (Plate), a 197; (Sculpture), XIX, a 589, b 590 note
—— (Ripon), XX, a 583
—— (Rochelle), XX, b 628
—— (Rochester), XX, a b 629; (Crypt), VI, b 591
—— (Rodez), XX, b 632-3
—— Rome. See St. Peter's
—— (Rouen), XXI, a 17; (Architecture), II, a 377, a 416
—— (St. Albans), XXI, b 164
—— (St. Andrews), XXI, a 166
—— (St. Asaph), XXI, a 167
—— (St. David's), XXI, a b 169
—— (St. Dié), XXI, a 170
—— (St. Omer), XXI, a 197
—— (St. Petersburg), XXI, b 201-2
—— (St. Pol de Léon), XXI, b 206
—— (Saintes), XXI, b 175
—— (Salamanca), XXI, b 213-4; (Architecture), II, a b 379; (Sculpture), XXI, b 593
—— (Salerno), XXI, a 222
—— (Salisbury), XXI, b 228-9; (Architecture), II, a 374, a 400, b 404, *b* 405, a 417; (Building), IV, b 424, b 425; (Sculpture), XXI, a b 585
—— (Santiago de Compostella), XXI, a b 314; (Architecture), II, b 378; (Sculpture), XXI, a b 593
—— (Schaffhausen), XXI, b 403
—— (Sées), XXI, a 652
—— (Segovia), XXI, a 654
—— (Senlis), XXI, b 696
—— (Sens), XXI, b 697
—— (Seville), XXI, a b 742
—— (Siena), XXII, b 43-4; (Beccafumi), III, b 411; (Michel Angelo), XVI, b 238, b 239; (Pisano), XIX, a 132, a b 133; (Tempera), XXIII, a 174
—— (Smolensk), XXII, b 193
—— (Soest), XXII, a 259
—— (Soissons), XXII, a 260
—— (Spires), XXII, a b 419
—— (Spoleto), XXII, b 427; (Diamante), VII, a b 140
—— (Stavanger), XXII, a 489
—— (Strasburg), XXII, b 617; (Geiler), X, b 116; (Sculpture), XXI, a 591
—— (Tarragona), XXIII, b 72
—— (Throndhjem), XXIII, a b 342; (Architecture), II, b 371
—— (Toledo), XXIII, a 464; (Architecture), II, *a* 379
—— (Torcello), XXIII, a b 475; (Basilica) (Ill.), III, b 360-1
—— (Tortosa), XXIII, a 490
—— (Toulouse), XXIII, b 515, a 516
—— (Tournai), XXIII, b 519-20
—— (Tours), XXIII, *b* 522, a 523
—— (Trani), XXIII, a 541
—— (Treves), XXIII, b 587-8
—— (Treviso), XXIII, b 588
—— (Trieste), XXIII, a b 595
—— (Troyes), XXIII, b 627
—— (Truro), XXIII, b 632
—— (Tuam), XXIII, b 639
—— (Turin), XXIII, b 670
—— (Tyre), XXIII, a 758
—— (Ulm), XXIII, b 767-8; (Sculpture), XXI, *a* 592; (Wood-carving) (Ill.), XXIV, a b 683
—— (Upsala), XXIII, a b 917
—— Urbino (Piero), XIX, a 91
—— (Utrecht), XXIV, a 27
—— (Venice), XXIV, b 166; (Mural Decoration), XVII, b 41
—— (Verdun), XXIV, a 178
—— Verona (Moroni), XVI, b 862; (Verona), XXIV, b 184-5, b 186, a 187
—— (Vienna), XXIV, b 237
—— (Vienne), XXIV, b 240
—— (Viterbo), XXIV, b 282
—— (Volterra), XXIV, a 314
—— (Wells), XXIV, b 527-8; (Sculpture), XXI, a 585, b 588, note
—— (Wicklow), XXIV, b 589
—— (Winchester), XXIV, a b 628; (Architecture), II, *a* 373, a 375, b 387, a 400, a 405, a 406, a 409, b 415, a 417, a 418; (Building), IV, b 436
—— (Worcester), XXIV, b 701-2; (Architecture), II, a b 403, *b* 405; (Cathedral), V, b 198, b 199; (Clocks), VI, b 29, b 31; (Crypt), VI, a b 591
—— (Worms), XXIV, b 719-20
—— (Wurzburg), XXIV, a 740
—— (York), XXIV, b 787-8; (Architecture)(Plate XIX, II, a b 374, b 404, *a* b 405, a 416, b 417, b 418
—— (Ypres), XXIV, a 795
—— Zamora (Architecture), II, a 379
—— (Zaragoza), XXIV, b 808
Cathedral Antiquities of England (Britton), IV, b 321
Cathedral music (Tallis), XXIII, b 38
—— schools (Universities), XXIII, a *b* 887, a 888, *a* 890, a 898
Cathedrals, conventual (Abbot), I, b 29; English (Libraries), XIV, b 517-8; old and new (Salamanca), XXI, b 213-4
Cathedra Pétri, Greenwood's (Popedom), XIX, a 525
Cathemerinon Liber (Prudentius), XX, a 5
Catherine, mount (Sinai), XXII, a 96
Catherine I., czarina, V, b 202-3; (Academy), I, a 70; (Menshikoff), XVI, a 17; (Peter I.), XVIII, a b 712; (Russia), XXI, b 105-6
Catherine II., czarina, V, a 203-5
  accession of Peter III., b 203-4
  domestic court of, a 205
  her youth, a b 203
  partition of Poland, a 204-5
  usurps the throne, a 204
—— (Academy), I, b 70, a 75; (Æpinus), b 165; (Burke), IV, a 488; (Constantine Pavlovick), VI, a 269; (D'Alembert), b 683; (Dashkoff), a 731; (Diderot), VII, a 170; (Drama), a 384; (Foundling Hospitals), IX, b 426-7; (France), b 523-4; (Greece), XI, a 109; (Grimm, F. M.), b 176, a 177; (Pallas), XVIII, b 192, a 193; (Pius VI.), XIX, a 165; (Potemkin), XIX, a b 615; (Russia), XXI, a *b* 107-8, *b* 114; (Sarti), *a* 330; (Slavery), XXII, b 151, a 152; (Turkey), XXIII, b 688-9
Catherine of Aragon, queen of England, V, a b 206; (Abel, Thomas), I, b 37; (Cranmer), VI, b 486; (England), VIII, a 300; (Henry VIII.), XI, a 591, a b 592; (Huntingdon), XII, a 414; (Mary I.), XV, a b 599; (Reformation), XX, a 342, a b 343; (Wolsey), XXIV, b 669
Catherine of Braganza, queen of England, V, b 206; (Morocco), XVI, b 861; (Portugal), XIX, a *b* 564; (Tangiers), XXIII, a 51
—— D'Albert, queen of Navarre (Spain), XXII, b 339
Catherine de' Medici, queen, France, V, a 205-6; (Coligni), VI, a b 127; (Embroidery), VIII, b 149; (France), IX, a 491, b 492, a b 494, *a b* 495, b 498; (Henry III., France), XI, *b* 597; (Mary Stuart), XV, a b 601, b 606; (Medici), b 797
—— Howard, queen of England. See Howard
—— of Lancaster, queen of Castile (Spain), XXII, b 335, *a* 336
—— Parr, queen of England (Chelsea), V, b 396
Catherine, Saints, V, b 199-202
—— of Bologna, saint, abbess, V, a 200
—— of Genoa, saint, V, *a* 200
—— the Martyr, saint, V, b 199, *a* 200
—— de Ricci, saint, V, *a* 200
—— of Siena, saint, V, *a* 200-2; (Italy), XIII, b 515; (Stigmatization), XXII, a 577; house of (Siena), XXII, b 44
—— of Watzen, saint, abbess, V, a 200
—— Swynford, duchess (Lancaster), XIV, b 257, b 258

CATHERINE OF VALOIS, queen, England, V, b 206-7
— of Valois, Byzantine empress(Gypsies), X, a 546
Catherine Wheel, V, a 200
Catherwood, Frederick, traveller (Architecture), II, *a* b 394, b 400; (Stephens), XXII, a 564, note; (Yucatan), XXIV, b 796, a b 797, note
Catheter, lung (Respiration), XX, a 496, note
Cathkin Peak (Africa), I, a 225; (Cape Colony), V, a 38
Cathode (Electrolysis), VIII, b 100
CATHOLIC, adjective, V, a 207
— Apostolic Christians (German Catholics), X, a 400
— APOSTOLIC CHURCH, V, a b 207
— Armenians, II, b 481; (Roman Catholic Church), XX, a 647. See Armenian Romanists
— Association (Ireland), XIII, a 277; (Plunket), XIX, b 243
— creed, VI, a 499
— emancipation, British (Canning), IV, *a* 715; (George III., IV.), X, *a* b 383, b 385; (Grattan), XI, *b* 55, a 56; (Grenville), *b* 166; (O'Connell), XVII, b 741; (Peel), XVIII, b 464, a b 465-6, a 467; (Pitt), XIX, a b 155; (Popedom), a 523; (Sheil), XXI, a 824; (Test Acts), XXIII, b 216-7; (Wedderburn), XXIV, a 503; (Wellesley), a b 520; (Wellington), b 526, a 527; (Whately), *b* 559
— emancipation in Saxony, XXI, *b* 371, b 374
— League in France, 1571 (Bodin), III, a 737; (D'Orleans), VII, a 319; (Henry III. and IV.), XI, b 597-8; (Huguenots), XII, a b 352; (Philip II.), XVIII, a b 759
— League in Germany, 1608, X, b 448-9
— orthodoxy, early (Jesus Christ), XIII, b 681-2
— Protectory, Westchester (Reformatories), XX, a 899, a 901
Catholicism (Comte), VI, b 210, a b 211; (Christianity), V, b 609; (Manichæism), XV, *a b* 489, *a* b 492, *a* 493, a 494; rise of (Montanism), XVI, b 802-3
Catholicon, Le (Celtic Literature), V, b 281
Catholicon of 1460 (Typography), XXIII, b 723, a b 728, a 731, b 733, b 735, a 736, note
Catholics in England (Henrietta Maria), XI, a b 584; toleration of (Charles II.), V, a b 354
"CATHOLICS, GERMAN," X, b 399-400. See OLD CATHOLICS, ROMAN CATHOLIC CHURCH, Roman Catholics
Cathraig, stone forts (Ireland), XIII, b 261
Catiari, people (Scythia), XXI, *b* 603
CATILINA, Lucius Sergius, conspirator, V, b 207-8; (Cicero), b 673; (Cæsar), IV, b 564; (Fiesole), IX, a 130; (Rome), XX, a 780, a b 782, notes, a b 783; (Sallust), XXI, b 229-30
Catiline, his Conspiracy, play (Jonson), XIII, a 753, b 754, *a* 755
Catinat de la Fauconnerie, Nicolas, marshal (France), IX, a 511, *a* 512
Catinga, woods (Brazil), IV, a 203
Cation in decomposition (Electrolysis), VIII, b 100
Catkin (Botany) (Ill.), IV, b 107, b 110
CATLIN, George, author, V, a b 208; (Deluge), VII, a 50
Catlinite, stone (Pipe), XIX, a 120
Cat Island (Bahamas), III, a 204
Catmandoo, town. See KHATMANDU
Catmoss, vale of (Rutland), XXI, *b* 122
Cato, drama (Addison), I, b 134, b 136; (Drama), VII, b 376
CATO, Dionysius, moralist, V, b 210
CATO, Marcus Portius, censor, V, b 208-9; (Agriculture), I, *a b* 261; (Basilica), III, a 356; (Carneades), V, b 106; (Chronology), a b 618; (Latin), XIV, *a* 333; (Political Economy), XIX, b 363, a 364; (Roman Literature), XX, a b 737; (Rome), *b* 769; (Sabines), XXI, a 137; (Slavery), XXII, *a* 141; (Spain), b 320-21; (Stoics), b 600-1; (Sumptuary Laws), *a* 678; (Surgery), a 709; (Usury), XXIV, a b 23
CATO, Marcus Portius, Uticensis, V, b 209-10; (Cæsar), *b* 564, b 565, a 566; (Cicero), b 674, b 675
Catoblepas, genus (Gnu), X, a b 629
Catombela, town (Benguela), III, a 494
Catongo river (Apurimac), II, a 189
Catonius, Nikolaus, dramatist (Sweden), XXII, b 792
Catoptric system (Lighthouses) (Ill.), XIV, b 623-4
Cato Street Conspiracy. See THISTLEWOOD CONSPIRACY
Catrail, ditch (Selkirk), XXI, *b* 670
Catraeth, chieftain (Lothian), XV, b 11
Cats, animals. See CAT
CATS, Jacob, poet, V, b 210-1; (Holland), XII, b 97, a b 98
Cat's-eye (Mineralogy), XVI, a 388, a 405
CATSKILL, or Kaatskill Mountains, V, a 211; (Hudson River), XII, b 345; (New York), XVII, a b 462; and Creek (United States), XXIII, *b* 843
— red sandstone (Geology), X, *a* 306
Cat's Paw (Landseer), XIV, *a* 281
Cat's-paw, hitch (Seamanship) (Ill.), XXI, a b 618
"Cat-Stane" (Edinburgh, county), VII, b 571
Catsup, sauce (Ketchup), XIV, b 56
Catt, Christopher, pastry cook (Kitcat-club), XIV, a 105
CATTACK or Cuttack, district, V, a 211-2; town, a b 212
Cattan, saint (Bute), IV, a 517
CATTARO, town, V, b 212; district (Dalmatia), VI, a *b* 690
Cattegat, sound (Baltic), III, b 253, a 255, a 256; (Sweden), XXII, a b 776, *a* b 777, a 778; skärgärd or coast islets (Sweden), XXII, b 775
CATTERMOLE, George, painter, V, b 212
—, Richard, chronicler, V, b 212
Catterskill clove or gorge (Catskill), V, a 241
Cattewater or Eastern harbor (Plymouth), XIX, a 249
CATTI, or Chatti, a German nation, V, a 213
Cattigara, town (Ptolemy), XX, *a* 100, a 101
Cattimandoo, tree (Gutta Percha), XI, b 303
Catting (Anchor), II, a 9
CATTLE, V, a 213-5
— (Arabia), II, b 211; (Austria), III. a 104; (Brazil), IV, b 204; Castlemartin (Pembroke), XVIII, b 492; (Dumfries), VII, b 454, a b 455; (Durham), a 484; (Egypt), a 617; (Germany), X, *a* 406; (Hawaiian Islands), XI, a 473; (Hereford), a 653; (Holland), XII, a b 70: (Honduras), a b 134; (Hungary), b 377; (Huntingdon), b 413; (India), b 790-1; (Inverness), XIII, a 206; (Ireland), 231, a b 232, b 261-2, a 274; (Italy), a 461, b 466; (Jersey, island), b 645; (Kerry), XIV, b 53; (Kilkenny), b 76; (Kincardine), b 81; (Kirkcudbright), a b 100; (Natal), XVII, b 247; (New Mexico), a 411: (Northampton), b 569; (Oporto), b 818; (Orkneys), *b* 871; (Pembroke), XVIII, b 492; (Prussia), XX, *b* 18; (Schleswig-Holstein), XXI, b 432; (Scotland), *a* b 556; (Siberia), XXII, b 14; (Suffolk), a 654; (York), XXIV, a 785
— breeding (Agriculture) (Ill.), I, a 270, a b 331, b 343-7; Breeds and Breeding), IV, *a* 220, *b* 223, *a* 224; V, a 213-5; (Perm), XVIII, a 561; (Russia), XXI, a b 93; (Yakutsk), XXIV, a 763
— food (Adulteration), I, b 158; (Agriculture), b 158, a 291; (Cod), VI, a 95; (Oil-Cake), XVII, b 759; beet pulp (Agriculture), I, b 339
— money (Brehon Law), IV, a 226
—, number on farms (Agriculture), I, a 366
—, parasites of (Veterinary Science), XXIV, b 222, b 223
Cattle plagues (Agriculture), I, a b 271; (Cheshire), V, a 512; (Murrain), XVII, a 64-8; (Protozoa), XIX, a b 879; (Quarantine), XX, a 165; (Veterinary Science), XXIV, a *b* 216, b 220-1
Cattle ranches (Buenos Ayres), IV, b 393-4; (Mexico), XVI, b 910, b 911; (Colorado), VI, b 146; (Texas), XXIII, a 223; (Wyoming), XXIV, a b 749
— shed (Agriculture), I, a 275
— trade (Bolivia), IV, b 14; (London), XIV, *b* 837; (Paris), XVIII, a b 290
—, wild (Northumberland), XVII, a 580, a 582
CATTOLICA, town, V, a 215
Cattraeth, battle of, 596 (Celtic Literature), V, b 275
Catty, weight (Canton), V, a 35; (Siam), XXI, b 891; (Weights and Measures), XXIV, *a b* 518
Catualda, chief (Goths), X, a b 753
CATULLUS, Caius Valerius, poet, V, a 215-9
bibliography, b 218-9
biography from external sources, a 215-6
biography from his poems, a 216-7
style and metre, a 218

— (Callimachus), IV, b 627; (Greece), XI, a 124; (Horace), XII, *a* b 165, *a* 166, a 168, a b 169; (Latin Language), XIV, b 334-5; (Ovid), XVIII, a 82, a 83, b 84, *b* 85, a 86, a 87; (Pervigilium Veneris), a 697; (Roman Literature), XX, b 740-1
— Messalinus, Marcus Valerius, of Juvenal, V, a 215
Catulus, Caius Lutatius, consul (Rome), XX, b 766, a 782
—, Quintus, general (Catullus), V, a 215
Caturus, genus (Ichthyology), XII, *b* 706, a 726
Caub, Johann Wonnecke von, author (Ornithology), XVIII, b 7
Cauca, river (Columbia), VI, b 137, *a* b 138
CAUCASIA (Map), V, a 219; flora of (Distribution), VII, a b 251; political features of (Russia), XXI, b 76, a 78, a 79, *a* 82, *a* b 87, a b 89, b 90, *a* b 93, *a* b 94, b 109, b 110
Caucasian Gates (Caucasus), V, a 222; (Persia), XVIII, b 621, b 622
— languages (Philology), XVIII, b 793; (Schiefner), XXI, b 411
— races (Anthropology), II, a 100; (Georgia, kingdom), X, a b 389; (Lesghians), XIV, a 475; (Russia), XXI, b 75
— Wines, XXIV, b 644
CAUCASUS, mountains, V, a 219-25
bibliography, b 225
central, a 220-1
climate, b 222
eastern, b 221-2
ethnology, b 223-4
general description, a 219-20
geology, a b 223
history, b 224-5
passes, a b 222
western, a 220

CAUCASUS, *continued*
  vegetation, b 222-3
  zoology, a 223

—— (Khazars), XIV, *a* 61, *a b* 62; (Mongols), XVI, b 774; (Petroleum), XVIII, a 885; Tartars of, XXIII, b 76
—— of Alexander (Hindú Kúsh), XI, b 747, b 749; colonization of (Stavropol), XXII, a 490; mines of (Gold), X, b 661
——, Indian (Oxus), XVIII, b 105-6
Cauche, François, traveller (Dodo), VII, b 279
Cauchin missions (Lhasa), XIV, b 502
Cauchon, Pierre, bishop (Joan of Arc), XIII, b 707, a 708; (Lisieux), XIV, a 700
Cauchy, Augustin Louis, mathematician (Algebra), I, a b 455, a 456; (Infinitesimal Calculus), XIII, b 45; (Quaternions), XX, b 167, b 169-70; (Variable), XXIV, *b* 76, a *b* 78, a b 79, note, *a* 81
Cauchy's dispersion formula (Wave Theory), XXIV, a 485; integrals (Hydromechanics), XII, a 466-7, b 468; theorem (Equation), VIII, b 445
Caucones, tribe (Elis), VIII, b 130
Caucuses, influence of (Tammany Society), XXIII, b 920
Cauda equina (Anatomy), I, b 761
Caudal fin (Ichthyology), XII, a 674, a 675; (Skeleton), XXII, b 127
—— vertebræ (Skeleton), XXII, a b 120
Caudate lobe (Mammalia) (Ill.), XV, a b 366
CAUDETE, town, V, b 225
CAUDINE FORKS, valley, V, b 225; battle of, 321 B.C. (Rome), XX, a 761
Caudles, cartoon (Leech, J.), XIV, b 406
Caudle's Curtain Lectures (Jerrold), XIII, b 644
Cauliflower (Cabbage), IV, a 549; (Horticulture), XII, b 292
Caulking (Oakum), XVII, a 714; (Shipbuilding), XXI, a b 858
Caulome or stem structure (Botany), IV, b 84
Caulonia, city (Numismatics), XVII, b 653
Caumont, Arcisse de, archæological (Societies), XXII, a 233
Caura, territory (Venezuela), XXIV, a b 152
Caurale, bird (Sun-bittern), XXII, b 686-7
Cauri in Weights and Measures, XXIV, a 518
Caus, Solomon de, inventor (Steam-Engine), XXII, *a* b 491
Causality (Aristotle), II, b 458; (Berkeley), III, *b* 509, *b* 510; (Brown, Dr. Thos.), IV, b 348; (Category), V, b 195; (Cousin), VI, b 466, a 468; (Geulincx), X, a b 497; (Hamilton), XI, a 374; (Herbart), b 642; (Hume), XII, a b 368; (Jacobi), XIII, b 547, a 548; (Kant), a 860, a 863; (Locke), XIV, a 767, b 768; (Metaphysic), XVI, a 100, b 102
——, category (Psychology), XX, a 86-7; denial of (Scepticism), XXI, b 397, b 399; of Descartes (Cartesianism), V, b 126, b 127; historical (Church History), a 667; relation to experience of (Belief), III, a 460
——, organ of (Phrenology), XVIII, a 860, a 861
Causation, Arabian conception of (Al-Gazali), I, b 450; II, a 233, b 235
Causeries du Lundi (Sainte-Beuve), XXI, b 171, *a* 173, *a* 174
Causes, final (Bacon), III, a 185, note; (Liebnitz), XIV, b 422
Causidæ, family (Snakes), XXII, a 204, a 208
Causses, plateaus (Lot), XV, a b 10; (Lozère), *a* 33
Caussin de Perceval, Armand Pierre, orientalist (Mohammedanism), XVI, b 588
Caustic alkalies (Metals), XVI, a 76
Caustic potash (Potassium), XIX, b 606-7; or hydrate Sodium, XXII, *b* 253, *a* 254, b 256
Caustics (Diphtheria), VII, b 218
——, curves (Light), XIV, a 593
Cauterets, spa (Pyrénées), XX, b 133
Cautery in Hydrophobia, XII, a 578, b 579
Caution, law term (Recognizance), XX, a 323
Cautionary signals (Signal Service), XXII, b 904
Cautiones, prætorian (Roman Law), XX, b 728-9
Cautiousness, organ of (Phrenology), XVIII, b 859
Cautla, village (Westmorland), XXIV, *a* 543
Cauto, river (Cuba), VI, a 601
Cauveri or Káveri, river (Coimbatore), VI, b 106; (India), XII, a 772; (Káveri), XIV, a 21; (Mysore), XVII, *b* 130; (Salem), XXI, b 220
Caux, custom of (Primogeniture), XIX, *a* 754, b 756; farms (Seine Inférieure), XXI, a 657
CAVA, town, V, b 225-6
Cavædium (Atrium), III, b 44
CAVAIGNAC, Louis Eugène, dictator, V, a b 226; (Algeria), I, a 500; (France), IX, *a* 548
——, tomb of (Rude), XXI, b 56
CAVAILLON, town, V, b 226; (Vaucluse), XXIV, b 124, a 125
CAVALCANTI, Guido, poet, V, b 226; (Italy), XIII, b 512
Cavalcaselle, Giovanni Battista, art-critic (Giorgione), X, b 542, a 543; (Giotto), a b 545
Caval-ganglion (Mollusca), XVI, a 705
Cavalier, bird (Plover), XIX, a 240
——, interior bastion (Fortification), IX, b 394, a 410, a 412
CAVALIER, Jean, Camisard, V, b 226-7; (Camisards), IV, b 657, *a* b 658, note, a 659; (Huguenots), XII, a 353
Cavalieri, Bonaventura, geometer (Infinitesimal Calculus), XIII, b 7, b 36
——, Emilio del, musician (Music), XVII, b 92, b 93
Cavaliers, party (Whig and Tory), XXIV, a 570
Cavalli, fish (Horse-mackerel), XII, a 211
CAVALLINI, Pietro, painter, V, b 227; (Mosaic), XVI, a 880
Cavallo, town. See KAVALA
CAVALLO, Tiberius, electrician, V, b 227; (Aëronautics), I, a 171, *a* 187; (Pianoforte), XIX, b 82; his electroscope (Electrometer) (Ill.), VIII, a b 111
CAVALRY, V, b 227-9; (Anglesey), II, a 29; (Army), I, a 206, b 519, a 522, b 529, b 532, a 540, a 541; (Horse), XII, b 185, a b 195; (Knighthood), XIV, a *b* 113; (Macedonian Empire), XV, a 141; (Mahrattas), b 293-4; (Persia), XVIII, b 639-40; (Thessaly), XXIII, a 320; (War), XXIV, b 378-80, b 381, a 382, b 383
——, American (Army), II, a 541; 2d U. S. Regiment (Thomas), XXIII, *a* b 938
——, Austrian (Army), II, b 529
——, French (Army), II, b 527
——, Prussian (Army), II, b 519, a 522
——, rise of (Arms, etc.), II, a 487
——, Roman (Tribune), XXIII, a 591
——, Russian (Army), II, b 532
——, Turkish (Army), II, a 540
CAVAN, county, V, b 229-30
CAVAN, town, V, *a* b 230
CAVANILLES, Antonio José, botanist, V, b 230
Cavcic, Vetranic, Nicholas, poet (Servia), XXI, b 722-3
CAVE or caverns, V, b 230-5
  ancient geography of Europe, a b 233
  bronze and iron ages, b 234
  -dwellers, b 232-3
  historic, British, b 234-5
  legendary, b 230-1
  Neolithic age, b 233-4
  physical history, a 231-2
  pleistocene of America and Australia, b 233
  pleistocene, in Europe, a 232-3

—— (Adelsberg), I, b 138; (Antiparos), II, a 118; (Caripe), V, a 94; (Cerigo), b 300; (Cornwall), VI, b 378; (Crustacea), b 563 note; (Elephanta Isle), VIII, a 119; (Geology), X, a 241, b 327-8; (Gibraltar), a b 521; (Elijah), VIII, a 127; (Hindú Kúsh), XI, *a* 749; (Hungary), XII, a 376; (Indiana), b 852; (Inscription), XIII, b 125; (Kentucky), XIV, b 44; (Luray), XV, b 68-9; (Mammoth) (Map), b 455-7; (Monserrat), XVI, a 824; (Orkney), XVII, b 870; (Poland), XIX, *b* 319; (Saráwak), XXI, a 321; (Saumur), b 337; (York), XXIV, a 784
CAVE, Edward, printer, V, b 181-2; (Johnson), XIII, a 732; (Periodicals), XVIII, b 547-8
——, Stephen, financier (Egypt), VII, b 682
CAVE, William, historian, V, a 236; (Cardinal), V, b 85 note, b 86 note
—— Cavea (Amphitheatre), I, b 680
—— of Adullam, faction (Parliament), XVIII, a 315
"Cave au," society (Colle), VI, a 128
Caveat Emptor, rule (Sale), XXI, a 218, b 219
Cave Birds, III, b 633-4
——, bone (Brazil), IV, a 201; (Devonshire), VII, a 121 note
CAVEDONE, Jacopo, painter, V, a 236
Cave-dwellers (Anthropology), II, a 102; (Athens), III, b 3; (China), V, a 550; (Idumea), XII, a 738; (Lapland), XIV, b 307; (Nottingham), XVII, b 613
—— dwellings (Pueblo Indians), XX, a b 888; (Troglodytes), XXIII, a b 620
—— fossils (Geology), X, a b 283
—— hyena (Somerset), XXII, b 271
—— Ice, XII, a 646
—— of Jobitsinal (Guatemala), XI, a 212
—— of Lupercus (Lupercalia), XV, b 67
——, Moa (Cuba), VI, a 601
Cave-Nasmyth hammer (Iron) (Ill.), XIII, b 336, a 337
Cavendish, pseudonym of Henry Jones (Whist), XXIV, *a* 575, b 576
——, Charles, Lord, meteorologist, V, a 236
CAVENDISH, Henry, chemist, V, a 236-7; (Chemistry), *b* 400, b 401, a 402, b 414; (Atmosphere), III, b 29; (Electricity), VIII, a b 9, b 17, b 25, note, a 29; (Faraday, M.), IX, a 28; (Heat), XI, b 495; (Michell), XVI, a 246; (Volga), XXIV, b 304; (Water), b 421-2; (Wollaston), a 667; on earth's density (Astronomy), II, b 693
——, John, Lord (Pitt), XIX, b 146, a 147
—— Square (London), XIV, *a* 850, a 861
CAVENDISH, Thomas, navigator, V, a b 237; (Geography), X, *b* 165
CAVENDISH, William, courtier, V, b 237; (Chatsworth), b 385; (Cromwell), VI, b 534
——, William, duke. See DEVONSHIRE

Cavendish, William, duke. See NEWCASTLE
Cave of the Winds (Niagara), XVII, a 486, note
Cave remains (Archæology), II, b 294, a b 295
Caverne de l'Homme Mort (Cave), V, a 234
Cavernous crystals (Mineralogy), XVI, b 383
Cavernous plexus (Anatomy), I, b 775
Caverns. See CAVE
Cave of Royston (Hertford), XI, a 690
Cave, St. Robert's (Knaresborough), XIV, b 111
Cavesse, beer (Lierre), XIV, b 573
Cavetto moulding (Architecture) (Plate XIII), II, a b 358, b 364, b 366, a 406
Cave-worship (Temple), XXIII, b 181-2
Cavia, genus. See Cavy
Caviare, food (Egg), VII, b 604; (Mazandarán), XV, a b 658; (Sturgeon), XXII, a 644
Cavicornia (Antelope,) II, b 89-90; (Mammalia), XV, a 435, b 436, *b* 437, b 438
Caviidæ family (Mammalia), XV, a 421, a 426
Cavil, F., swimmer (Swimming), XXII, a 810
CAVITE, town, V, b 237
Cavities, tissue (Histology), XII, *b* 18
Cavo, Monte Albania, I, b 397; (Latium), XIV, 344; (Italy), XIII, b 469
Cavolini, Felippo, naturalist (Zoology), XXIV, a 845
Cavolinia, genus (Mollusca) (Ill.), XVI, b 690, a b 691
CAVORE or Cavour, town, V, b 237
CAVOUR, Camillo Benso di, Count, statesman, V, b 237-40
  ancestry, b 237
  Congress of Paris, b 239-40
  enters public life, a 239
  Italian unity achieved, a b 240
  military career, a 238
  retirement, a 238-9
  youth, a 238
—— (Farini, L. C.), IX, a 32; (Italy), XIII, b 497, a 498, b 499-501; (Victor Emmanuel), XXIV, b 231, *a* 232
CAVY or Cavia, rodent, V, b 240-1; (Mammalia), XV, a b 421, a 426
Cawdor, parish (Nairn), XVII, *b* 173
Cawk, stone (Mineralogy), XVI, a 417
CAWNPUR or Cawnpore, district, V, a b 241; city *b* 241-2; (Oudh), XVIII, a 76; battle, 1857 (Grant, Sir J. H.), XI, a 46; massacre, V, a b 242; (India), XII, b 849
CAXAMARCA, city, V, b 242-3
CAXATAMBO, town, V, a 243
CAXTON, William, printer, V, a b 243; (Bibliography), III, a 564, *a* b 565, b 567; (Chess), V, b 523; (English Language), VIII, b 355-6, 359; (English Literature), a 399; (Romance), XX, b 654, a *b* 655; (Typography), XXIII, b 730, *a* 739, a b 741, a 744
Caxtons, novel (Lytton), XV, b 124, a 125
Caxton's press (Grail), XI, a 33
Cayambi, mountain (Andes), II, b 17; (Ecuador), VII, *a* 559, b 561
Cayemite, island (Hayti), XI, b 485
CAYENNE, town, V, b 243; (Guiana), XI, b 224, a b 225, *a* 226; province (Coolie), VI, b 298; trade with (France), IX, a 465
CAYENNE PEPPER, V, b 243-4
Cayeux district (Somme), XXII, b 274
Cayley, Arthur, mathematician (Algebra), I, a 456; (Curves), VI, a 637; (Measurement), XV, b 671, a 672; (Quaternions), XX, a b 170; (Tables), XXIII, a 20; (Trigonometry), b 602, a 607
——, Sir George (Air-Engine), I, a 380; his flying model (Flight) (Ill.), IX, a b 280, note; (Steam-Engine), XXII, b 550
CAYLUS, Anne Claude Philippe de Tubières Comte de, antiquarian, V, a b 244; (Archæology), II, b 301; (Encaustic Painting), VIII, a b 170
Cayman, genus (Alligator), I, b 515; (Crocodile), VI, b 525
Caymanas, islands (Jamaica), XIII, b 558
Cayor, lake (Senegal), XXI, b 692
Cayster, river (Asia Minor), II, b 618, *a* 619; (Ionia), XIII, a 211
Cayuga Lake (New York), XVII, b 642-3
CAZALLA DE LA SIERRA, town, V, b 244
CAZEMBE, country of, V, b 244-5; (Africa), I, b 243
Cazlona, village (Linares), XIV, b 659
CAZORLA, town, V, a 245
CAZOTTE, Jacques, author, V, a 245; (France), IX, a 586
Ceadwalla, king (Northumberland), XVII, *a* 583
CEARÁ, town, V, a 245; province (Brazil), IV, a 202, *a* b 202, a 204, a 209, b 210, *b* 212, b 214
—— gum (India-Rubber), XII, a *b* 876, b 877-8
Ceawlin, Saxon king (England), VIII, b 245; (Somerset), XXII, b 272
CEBES of Thebes, philosopher, V, a 245
Cebidæ, family (America), I, b 598; (Ape) (Ill.), II, a 134, a *b* 137, a b 138, *a* b 139, *a* 140, *a b* 141, *a b* 142, *a b* 143, *a b* 144, *a b* 145, b 146, a b 147; (Mammalia), XV, b 451
Cebinæ, group (Ape), II, a b 134, a 137, b 139, a 140, b 145
Cebrene, ancient town (Troad), XXIII, b 617
CEBU, city and island, V, a b 245, (Philippine Islands), XVIII, a b 766
Cebus, genus (Ape) (Ill.), II, b 134, a 137, *a* 139, a 140, *b* 141, a 142, b 144, *a* 145, *b* 146, a 147
Cecchi, Giovan Maria, poet (Italy), XIII, a 520
CECCO D'ASCOLI, encyclopædist, V, b 245
Cech, Svatopluk, poet (Slavs), XXII, a 162
Cecidomyia, insect (Gooseberry), X, b 693; (Hessian Fly), XI, b 697; (Reproduction), XX, a 422; (Wheat), XXIV, b 565-6
Cecidomyidæ, family (Galls), X, b 41, a b 42
Cecil, novel (Gore), X, *a* 697
CECIL, Robert, Earl of Salisbury, V, b 245-6; (Bacon), III, *b* 174, a b 176
CECIL, William, Lord Burghley or Burleigh, V, a 246-7; (Bacon), III, a 173, a b 174, note; (Elizabeth), VIII, b 134; (Scotland), XXI, *a* 524, a 526, b 531; (Torture), XXIII, b 494; (Walsingham), XXIV, *b* 359, a 360
Cecilia, novel (D'Arblay), VI, b 723
CECILIA, Saint, V, a b 247; painting (Francia), IX, a 606
—— Metella, tomb of (Architecture), II, b 367
—— Nobili, nun (Stigmatization), XXII, b 577
Cecina, river (Italy), XIII, a 448
Cecropia or trumpet tree (Ant), II, b 87
Cecropidæ, people (Greece), XI, *b* 86
CECROPS, legendary hero, V, b 247
CEDAR, tree, V, b 247-8; (Arboriculture), II, a 280; (Botany), IV, b 85, a 86; (Chili), V, b 541; (Japan), XIII, a 584; (Lebanon), XIV, a 393; (Queensland), XX, a b 180; forests (United States), XXIII, a b 861, a b 862-3; red (Juniper), XIII, b 784; Virginian (Pencil), XVIII, b 500
—— Berg, mountains (Cape Colony), V, a 38, b 39
—— -Bird (Waxwing), XXIV, *a* 487
—— Block, mountains (Lebanon), XIV, b 393-4
—— Creek, battle, 1864 (United States), XXIII, a 828
—— Run, battle of, 1862 (Jackson, T. J.), XIII, b 544
Cedaspe, Pablo de, painter (Cespedes), V, a 310
Cedd, missionary (Essex), VIII, a 490
Cederborgh, Frederik, novelist (Sweden), XXII, a 796
Cedilla, in printing (France), IX, b 558
Cedmon, poet. See CÆDMON
Cedrat, oil of (Lemon), XIV, b 439
Cedrelaceæ, order (Cedar), V, b 248
Cedrenus, Georgius, chronicler (Byzantine Historians), IV, a 546
Cedrium, oil (Cedar), V, b 248
Cedron or Kidron brook (Jerusalem), XIII, b 647
Cedula, permission (Concordat), VI, a 216
Ceely, Robert, physician (Vaccination), XXIV, *a b* 29, *a b* 30, a *b* 31, a 35, a 36
Cefalonia. See CEPHALONIA
CEFALU, town, V, a 249
Cefn-y-Castell, hill (Shropshire), XXI, b 886
CEHEGIN, town, V, a 249
Ceilé or serf (Clan), V, b 698, a 699; (Brehon Law), IV, *a* 226
Ceilings (Building), IV, a 407, a 452-3; ecclesiastical (Architecture), II, a 405
Celadonite (Mineralogy), XVI, b 432
Céladon ware (Pottery and Porcelain), XIX, b 640, a 654
Celakovsky, Frantisek Ladislaus, poet (Slavs), XXII, b 161
Célan or Céléren, fish (Pilchard), XIX, b 98
Celandine or chelidonium, plant (Botany) (Ill.), IV, a 77, a 132, a 133
CELANO, town and lake, V, a 249; (Abruzzo), I, a 57; (Italy), XIII, b 449
Celaya, town (Mexico,) XVI, a 910, a 911
CELEBES, island (Map), V, a 249-52
  history, a b 252
  literature, b 252
  physical features, a 249
  residency of Celebes, a 250
  residency of Manado, b 251
  residency of Ternate, a 251
—— (Asia), II, b 600; (Birds), III, b 641; (Distribution), VII, b 236; (Ichthyology), XII, b 712; (Indian Archipelago), *a b* 855, note, a b 856, b 857, a 858; (Missions), XVI, b 539
—— Sea (Philippines), XVIII, a 762
Celedonite (Mineralogy), XVI, b 394
Celenderis, town (Cilicia), V, b 678; (Numismatics), XVII, b 665
Celeomorphæ (Birds), III, b 604, b 620, b 624; (Ornithology), XVIII, a 39, a 51; (Woodpecker), XXIV, a 686
Celer, general. See METELLUS
Céléren, fish. See Célan
Celeriac, plant (Celery), V, b 252; (Horticulture), XII, b 292
CELERY, plant, V, b 252; (Horticulture), XII, b 292-3
Celestial equator (Geography), X, a 177
—— Globes (Ill.), X, b 606, a *b* 608, b 610
—— Hierarchy, XI, a 707
—— mountains (Asia), II, a 600
Celestina, drama (Cota), VI, b 425; (Drama), VII, a 363; (Spain), XXII, a 370
Celestina, musical instrument (Pianoforte), XIX, b 80 note
Celestine (Mineralogy) (Ill.), XVI, a 393, b 395, a 417

CELESTINE I., St., Pope, V, b 252-3; (Nestorius), XVII, a 365; (Popedom), XIX, a 506, a 508, b 523
CELESTINE II., Pope, II, a 253
CELESTINE III., Pope, V, a 253; (Alphonso IX.), I, a 542
CELESTINE IV., Pope, V, a 253
CELESTINE V., Pope, V, a *b* 253; (Popedom), XIX, b 515, b 524
CELESTINES, monks, V, b 253-4; (Franciscans), IX, *a* 615
Celestius, sectary (Celtic Literature), V, a 264, a 266; (England, Church of), VIII, a 332
Celetes, tribe (Lillebonne), XIV, a 649
Celetrum, town (Kastoria), XIV, a 16
CELIBACY, V, a 254-5; (Adrian II.), I, b 150; (Communism), VI, a 193; (England, Church of), VIII, a 333, a 334; (Essenes), *b* 486, a 487; (Gregory of Nyssa), XI, b 161; (Gregory VII.), a 158; (Hierax), b 707; (Italy), XIII, a b 481; (Jerome, St.), b 641; (Lāmāism), XIV, a b 230; (Lanfranc), a 284
——, laws against (Bachelor), III, a b 170; renunciation of (Carlstadt), V, b 100
Celidonius of Besançon, bishop (Popedom), XIX, b 506
Cella, part of temple (Architecture), II, a 360
Cellack of St. Andrews, bishop (Scotland), XXI, a 501
Cellars, temperature of (Meteorology), XVI, b 139
Cell. See Cells
—— -bundles (Histology), XII, a 16
—— -contents (Botany) (Ill.), IV, b 77-8
—— -division (Histology), XII, a b 15, a 16; (Hydrozoa), a 588
Celle, town (Hanover), XI, a *b* 399, a 400; (Zelle), XXIV, b 813-4
Cellérier, J. E., theologian (Gaussen), X, *a* 105
Cell-fusion (Histology), XII, a 16, b 18, b 20, a 21
—— -groups (Histology), XII, a 16
CELLINI, Benvenuto, artist, V, b 255-6; (Bourbon), IV, a 158; (Ghiberti), X, b 506; (Metal-work), XVI, a 78, b 81; (Mint), b 504; (Plate), XIX, b 194-5; (Sculpture) (Ill.), XXI, *b* 589, b 596, a 598 note; (Torrigiano), XXIII, a b 482
Cell-life (Goodsir), X, *a* b 690
—— -masses (Histology), XII, b 16
—— -nuclei (Microscope), XVI, b 280
—— -parasitism (Protozoa), XIX, b 879
—— -rows (Histology), XII, a 16
Cells (Bee), III, a 423, b 424-5
Cells in Biology, III, a b 590, b 592-3; (Morphology), XVI, a 867
——, air-, elephant skull (Mammalia), XV, 429-30
Cell sap (Botany), IV, b 73, a 75; (Histology), XII, b 12, a 15
Cells, cannulated (Mollusca), XVI, b 687
—— of cerebrum (Anatomy), I, *b* 770-1
—— connective tissue (Histology), XII, a b 8, b 9-10
—— of cornea, migrating (Anatomy), I, b 778
——, egg- (Mollusca), XVI, a 660, b 708; (Reproduction), XX, b 420, a b 426, *b* 427-8
——, epithelial (Histology) (Ill.), XII, b 6-8
——, epithelioid, or flat (Histology), XII, b 9
——, first appearance of (Animal Kingdom), II, a b 46
——, glutinous (Planarians), XIX, a b 181
——, migrating (Anatomy), I, b 778; (Vascular System), XXIV, b 112
——, monastic (Abbey), I, a 17, b 27; (Architecture), II, b 405; Carthusian, I, *b* 26
——, muscular tissue (Histology), XII, a b 10, a 11; (Mollusca), XVI, a 658
——, nerve- (Anatomy) (Ill.), I, a 755; (Histology) (Ill.), XII, b 11, a 12
—— in Mollusca (Ill.), XVI, b 655, b 659, a 660, b 687, a b 708, b 720
——, parenchymatous (Histology), XII, b 16, b 18, a b 21
—— plant- (Biology), III, b 598; (Botany) (Ill.), IV, b 73-7; (Fungus), IX, a b 727; (Histology), XII, b 12, a 18, a 21; (Physiology), XIX, a 50-1
——, porous or pitted (Botany) (Ill.), IV, b 76, a 77
——, prosenchymatous (Botany) (Ill.), IV, a 75; (Histology), XII, b 16, a b 21
—— in Protozoa, XIX, a 852, a 854, a b 855-7
—— in Schizomycetes, XXI, b 417-8
—— sclerenchymatous- (Histology), XII, a b 21
—— secreting- (Physiology), XIX, b 21-2
—— sieve- (Botany), IV, b 76
——, specialization of vegetable (Biology), III, b 598
——, spermatogenetic (Reproduction), XX, b 423-5
—— -structures (Anatomy), I, a 740-9; (Reproduction), XX, b 427-8
Cell substance (Zoology), XXIV, *a b* 855, a 856
Cells, union of (Histology), XII, a b 16
——, vesicular (Histology) (Ill.), XII, b 9-10
Cell-theory (Morphology), XVI, a b 867; (Physiology), XIX, b 14-5; (Protoplasm), b 850, a 851; (Schultze), XXI, b 480; (Schwann's), b 481; (Zoology), XXIV, b 819, a 855-6: origin of (Schleider), XXI, a 427
Cellular cartilage (Anatomy), I, b 747-8
—— Pathology, XVIII, a b 366
—— plants (Botany), IV, *b* 81-2
—— or separate system in United States (Reformatories), XX, *a* 903
Cellules (Hymenoptera), XII, a 606
Celluloid (Ivory), XIII, a 534; stereos (Typography), XXIII, a 749
Cellulose (Biology), III, a 598; (Chemistry), V, *a* 490; (Coal), VI, a b 46; (Fibres, Textile), IX, b 115-7; (Fungus), a 727; (Gun-cotton), XI, b 245; (Histology), XII, b 9, a b 13, b 14, b 16, b 18, a 20; (Starch), XXII, a 473
—— of paper (Parchment), XVIII, a 276; of plant (Physiology), XIX, b 50; reactions (Histology), XII, b 13, b 19
Cell-unit (Zoology), XXIV, a b 855
—— -wall (Botany), IV, a b 74, a b 76; (Histology), XII, b 12, a b 13-4
CELSIUS, Anders, astronomer, V, a 256; (Thermometer), XXIII, a 309
——, Magnus Nicolas, naturalist (Baltic Sea), III, b 255; (Scandinavian Languages), XXI, a 388
——, Olaf, theologian (Linnæus), XIV, b 678, a 679
CELSUS, polemic, V, a 256-8
biography, a b 256
True Discourse, a 257-8

—— (Gospels), X, b 727-8 note; (Jesus Christ), XIII, a 669; (Origen), XVII, b 865
Celsus, Aurelius Cornelius, physician (Anatomy), I, b 703-4; (Hydrophobia), XII, a b 578; (Medicine), XV, a 813; (Surgery), XXII, *a* 709
Celtes-Protucius, Conrad Meissel, poet (Hrosvitha), XII, *a* 341; (Mnemonics), XVI, b 556
Celtiberi, people (Guipuzcoa), XI, a b 235; (Iberia), XII, b 639; (Spain), XXII, b 320, *a b* 321, b 322
CELTIBERIA, district, V, a 258
Celtic Academy, Paris, I, b 74
—— art (Cave), V, a 235; (Illumination), XII, a 746
—— character (Scotland), XXI, b 502-3
—— Church, V, b 263-4, b 271; (Grail), XI, a b 32; (Liturgy), XIV, b 714-5; (Ireland), XIII, a 253-5, a 261, a 265, a 266, b 268-9; (Scotland), XXI, b 494, a 496-7, *a b* 498, b 499, b 500, a 501, b 503. See CULDEES
—— Helvetians (Zurich), XXIV, a 870; implements (Jade), XIII, a b 550; invasions of Italy (Rome), XX, *b* 758-9, *a* b 762; Jewellery (Plate XII), XIII, b 687
—— languages (Dictionaries), VII, a 163; (Ebel), VII, b 533; V, b 258-9, b 266-7, a b 273, b 283-4; (English Language), VIII, b 349-50; (Europe), a 615; (France), IX, a 555; (Gaelic), X, b 7-9; (Italy), XIII, *a b* 503, *a* 504; (Philology), XVIII, a 798, a b 799; as element in Latin Language, XIV, b 328, note
CELTIC LITERATURE, V, a 258-85
ancient names and territory of Celts, a 258
Armoric or Breton literature, a b 281, a 285
bibliography, a 283-5
Cornish literature, a 281, a 285
drama, b 281-2
ETHNOLOGY, b 258-62
dialects, b 258-60
distribution of Celts, b 261-2
mythology, Irish, b 260
traditions, a 260-1
Gaelic or Scottish literature, b 271-2
influence of, a 282-3
IRISH LITERATURE, b 266-72, b 283-4
Fennian or Ossianic tales, a b 270
heroic tales, b 269-70
historical works, a 267-8
legends, b 268-71
medicine and Christian works, b 271
miscellaneous legends, b 270-1
philological works, b 266-7, b 283
prose history, a b 268
Macpherson's Ossian, a b 272
SOCIAL STATE OF CELTS, b 262-6
church of Ireland, b 263-4
Druids, b 262-3
learned classes, Irish, a b 263
manuscripts, Irish, a 265-6
Ogam inscriptions, a 266, b 283
schools, Irish, b 264-5
transmission of literature, a b 266
WELSH LITERATURE, b 273-80, a b 284
Arthurian romances, b 279-80, a 285
bards and Druidism, a 276-7, a 285
historical works, b 273-4, b 284
Mabinogion, b 278-9
manuscripts, b 272-3
medicine and music, b 280
philological works, a b 273, a b 284
poetry, a 274-8
prose tales, b 278-80
Romanizing of Britain, a 275

—— mirrors, XVI, a 525; Missionaries, a 535; Monasticism, b 729, b 732-3; Names, XVII, a b 175
—— nations, place of (Prichard), XIX, b 742; *Eastern Origin of the* (Gaelic, X, b 7; (Religions), XX, 372, a b 373
—— period of domination in Scotland, XXI, a 495-503, b 507

Celtic ring-money (Numismatics), XVII, a 645 note; Rings, XX, b 575; Tonsure, XXIII, b 472; Weights and Measures, XXIV, a 512
Celtis, tree (Hackberry), XI, *a* 322; (Nettle-tree), XVII, b 369–70
Celts or Keltai, race (Alps), I, *a* 557; (Britannia), IV, a 318, a 319; (Brittany), b 320; (Clan), V, b 697; (Crannogs), VI, b 489; (Fountain), IX, b 428-9; (Gaul), X, 100, a 101; (Harp), XI, a b 437; (Holland), XII, a 72; (Iceland), b 657, a 659, a 664, a b 665; (Ireland), XIII, b 249; (Lothian), XV, b 11–2; appearance in Ireland, XIII, b 249, b 251; races of, V, a 258; in Warwickshire (Shakespeare), XXI, b 775–6
Celyddon or Caledonian race (Celtic Literature), V, *a* 261
Cembala, musical instrument (Pianoforte) (Ill.), XIX, *b* 73, *b* 77, a 79
Cemenclium, town (Nice), XVII, b 494
Cement, cinder (Iron), XIII, b 314; for crockery (Isinglass), X, a 120; Portland (Concrete), VI, a *b* 216
Cement on teeth, cementum or crusta petrosa (Digestive Organs) (Ill.), VII, b 203-4, a b 206; (Ivory), XIII, b 530, b 532; (Mammalia), XV, *b* 352, *a* 353, a 354
Cementation (Copper), VI, b 310; (Iron), XIII, a 349–50; steel (Iron), a b 288, b 289-90
CEMENTS, V, a 285–6; (Adhesion), I, a 140; (Andernach), II, b 14; (Building), IV, b 409-11, a 452, a 454; (Gypsum), XI, b 313–4; (Joints), XIII, b 741, b 742; (Magnesium), XV, b 218; (New York), XVII, b 465; (Sulphur), XXII, a 669; (Rome), XX, b 825; hydraulic (Lime), XIV, a 654
Cement-stones (Geology), X, a 207; (Iron), XIII, a 294; Scotch group (Geology), X, a b 307, a 308
Cemeteries (Burial and Burial Acts), IV, b 480; (Cabul), a 554; of Cairo (Egypt), VII, b 668; (Cremation), VI, a b 501; (Jerusalem), XIII, a 654; (London), XIV, a 836; (Mummy), XVII, b 26; (Munich), a 32; (New Orleans), b 415; (Paris), XVIII, b 289, a 294
CEMETERY (Ill.), V, a 286–8; (Concordia), VI, a 216; (Guadalajara, Mexico), XI, a 203; (Iona), XIII, b 209; (Manila), XV, b 495; (Scutari), XXI, a b 600, note
——, Mt. Auburn (Boston), IV, b 67; of St. Agnes, Rome (Catacombs) (Ill.), V, 180, a b 184; of St. Callistus (Catacombs) (Ill.), a 182, *a* b, 183, a b 184, a 187; of St. Domitilla (Catacombs), b 182, b 186 note; St. Medard (Jansenism), XIII, a 577
Cenæum, promontory (Eubœa), VIII, *a* 569
Cenchris, genus (Snakes), XXII, b 210
Cenchrus, genus (Grasses), XI, a 50
CENCI, Beatrice, parricide, V, b 288-90; (Landor), XIV, b 279
——, Francesco, nobleman, XIV, b 279-80
Cenci, The, Shelley's (Drama), VII, a 379; (Shelley), XXI, b 830
Cencio, Giovanni, captain (Rome), XX, b 815
CENEDA, district and city, V, a b 290
Cenis, pass (Alps), I, b 546, b 548; tunnel of (Air), a b 379; (Italy), XIII, a 448, a 452; (Tunnelling), XXIII, b 664
Cennfaeladh, grammarian (Celtic Literature), V, b 267
Cennick, John, poet (Hymns), XII, a 629
Cennini, Cennino, painter (Fresco), IX, a 677, b 681
Cenobia, monastic retreat (Celtic Literature), V, a *b* 264, a 271. See HERMITAGE, Monastery
Cenobita, hermit crab (Crustacea) (Ill.), VI, a 567, a 581, note
Cenomani, tribe (Italy), XIII, b 456; (Norfolk), XVII, b 550
Cenomanian cretaceous series (Geology), X, b 318
Cenotaphs of Canova, V, b 23, a 24
Censer (Altar), I, a b 563; (Incense), XII, b 757, b 758
CENSOR, officer, V, b 290; (China), b 580; (Equites), VIII, b 451
Censorinus, grammarian (Chronology), V, b 618, b 624
Censorship (Rome), XX, b 781; republican (Roman Law), b 696, a 704; rise of (Rome), a b 757
—— Austrian (Newspapers), XVII, b 440 note; of Areopagites, II, a 426; of the drama, English (Theatre), XXIII, b 246; French (Newspapers), XVII, b 436, a 437; (Periodicals), XVIII, b 550
—— of the Press (Blount), III, a 727; (Milton), XVI, a–b 342, b 344; (Monachism), b 736; (Newspapers), XVII, b 440 note, a 442; (Press Laws), XIX, *b* 729, b 730, a b 732, a b 733; Russian (Press Laws), *b* 733; (St. Petersburg), XXI, b 203; (Trent, Council of), XXIII, a 584
CENSUS, V, b 290–5
  Great Britain, a 291–4
  Roman, b 290-1
  United States, b 294–5
—— (Bengal), III, a 489–90; (Colchester), C. A.), VI, b 113; (David), a 739; (India), XII, a 782–3; (Ireland), XIII, a 242–3; (Population), XIX, b 527, a 528; (Switzerland), XXII, a 817
——, imperial (Rome), XX, a 793; of Quirinus (Israel), XIII, b 436; Servian (Roman Law), XX, b 693; Reports, American, 1880 (Journalism), XVII, 888; (United States), XXIII, a 871; origin of, a 797, a 800
Cent or Sant, game (Piquet), XIX, a 123
Centa, river (Italy), XIII, b 446
Centaurea, plants (Horticulture), XII, a 255, b 257–8
Centauromachia, rilievo (Michel Angelo), XVI, a 239
Centaur family (Zeuxis), XXIV, *a* 822
CENTAURS, myth, V, b 295; (Ixion), XIII, b 537; (Lapithæ), XIV, a 301; (Theseus), XXIII, b 315
Centaurs and Lapithæ (Archæology), II, b 311, a 312
Centenarians, list of (Phlegon), XVIII, b 811
Centenionalis, coin (Numismatics), XVII, a 671
Centennial, American (Exhibitions), VIII, a 703; (Philadelphia), XVIII, a 751, a 753, a 755
Centesimal division of degree (Tables), XXIII, b 15
Centetidæ, family (Mammalia), XV, b 408–9
Centetinæ, group (Mammalia), XV, b 408–9
Centigrade Thermometer, XXIII, a b 309, note
Centimetre, division of length (Measurement), XV, a 675. See Metrical System
—— gramme-second units (Mechanics), XV, b 706
CENTIPEDES AND MILLIPEDES, V, b 295–6; (Myriapoda), XVII, b 122, b 126; (Parasitism), XVIII, a 264
CENTLIVRE, Susanna, dramatist, V, b 296; (Drama), VII, a 377
Centnerschwer's *Tafeln* (Tables), XXIII, a 12
Cent Nouvelles Nouvelles, tales (France), IX, a b 571
CENTO, literary term, V, b 296
CENTO, town, V, b 296
—— *Novelle Antiche* (Italy), XIII, a 512
CENTORBI or Centuripe, town, V, b 296
Central acceleration (Mechanics), XV, a 691
CENTRAL AMERICA, V, a 297; (America), I, b 617–9; (Cotton), VI, a 430; (Forests), IX, a 357; (Ichthyology), XII, a 719; (Indians), a b 868; (Mexico), XVI, b 216, a 217, a b 222; (Mining), a 493; (Newspapers), XVII, a 449; (Societies), XXII, b 236, b 238, b 240
Central American *Dictionaries*, VII, a 168; (Birds), III, b 648–9, b 651; fauna (Distribution), VII, a 234, a 237–8; gums (India-Rubber), XII, b 878–9
Central Asia (Turkestan), XXIII, a 671–3
CENTRAL INDIA POLITICAL AGENCY, V, a 297
—— orbits (Mechanics), XV, a 715–17
—— Pacific Co. (Pacific Railroads), XIX, b 918–9, 921
—— Park (New York), XVII, a 478
CENTRAL PROVINCES of India, V, a 297-8; (India), XII, b 777, b 782, a *b* 783, a 784, a 785, a 786, a 788, b 789, a b 790, b 791, a 797, b 799, b 800, b 803, a b 816, a 818
Centralization (Madison), XV, b 183
Central stops in apertures (Wave Theory), XXIV, b 454, a 455
Centranthus, plants (Horticulture), XII, a 258
Centrarchina, fishes (Ichthyology), XII, b 714
Centraxonia, organic forms (Morphology), XVI, a 871
Centre-bit of drill (Petroleum), XVIII, a 893
Centre of circle (Geometry), X, a b 338
—— of Curvature, VI, b 637
—— of gravity (Gravitation), XI, a b 62; (Hydromechanics), XII, b 457, b 459-60; (Mechanics), XV, a 737; changes of earth's (Geology), X, a 194
—— of inertia (Mechanics), XV, b 706–7, b 740
—— of involution (Geometry), X, b 360, b 362
—— of mass (Mechanics), XV, b 706–7
—— of oscillation (Huygens), XII, a 432
—— of parallel forces (Mechanics), XV, a 737
—— of percussion (Mechanics), XV, b 780–1
—— of pressure (Hydromechanics), XII, b 457, b 459–60
—— of resistance (Mechanics), XV, b 759
—— of stress (Strength of Materials), XXII, b 634
Centres for arches (Building), IV, a 431; construction of (Bridges) (Ill.), b 278–9
Centrifugal force (Hodograph), XII, b 44; (Mechanics), XV, a 684, note, b 689, a 756, a b 778
—— governors (Steam-Engine), XXII, a 529–30; pumps (Hydromechanics) (Ill.), XII, b 565–7; ventilators (Coal), VI, b 66
Centring glasses (Telescope) (Ill.), XXIII, b 168–9; projectile (Gunmaking), XI, b 263
Centripetal force (Mechanics), XV, b 689
Centriscidæ, family (Ichthyology), XII, a 716, b 729
Centrolite (Mineralogy), XVI, a b 428
Centrophorus, genus (Shark), XXI, b 815
Centropipeda, organic forms (Morphology), XVI, a b 871
Centropus, genus (Cuckoo), VI, b 607; (Ornithology), XVIII, b 43
Centrostigma, organic forms (Morphology), XVI, a 871
Centum Cellæ, town (Civita Vecchia), V, b 696
Centumviral court (Roman Law), XX, b 695-6, *a* 699, a b 700, a 715, a 727
CENTUMVIRI, officers, V, b 298

Centuriæ, divisions (Rome), XX, b 753, note, *a* b 754 note, b 773 note
Centuries (Nostradamus), XVII, a 611
CENTURION, V, b 298; (Army), II, b 492
Centurio senex, species (Mammalia), XV, a 420
Centuripe, town. See CENTORBI
Century, magazine (American Journalism), XVII, *b* 892; (Periodicals), XVIII, b 555
Cenwealh of Wessex, king (Somerset), XXII, b 272
Céo, Violante do, poetess (Portugal), XIX, b 571
Ceorl, karl or churl (England), VIII, a 248
CEOS, island, V, b 298
Cepeda, saint. See THERESA
Cepet, cape (Toulon), XXIII, a b 514
Cephalædium or Cephalædis, town (Cefalu), V, a 249
Cephalas, Constantinus, poet (Anthology), II, *a* 92
Cephalaspidæ, family (Ichthyology), XII, b 705, b 724
Cephalic cartilages (Mollusca), XVI, b 705; (Mollusca), XVI, a 660, b 678, b 693, b 694; index (Anthropology), II, *a* 99; tentacles (Mollusca), XVI, a 658, b 659; vein (Anatomy), I, *b* 795
Cephalobranchs, group (Annelida), II, b 59, b 61
Cephalochorda (Vertebrata) (Ill.), XXIV, b 195, a 198, a 200-1, *a* 202, b 203
Cephalodia, tubercles (Lichens), XIV, a 557
Cephalodiscus (Polyzoa), XIX, b 445, a 446, *a* 448, a 449-51, a 454; (Vertebrata), XXIV, b 194
Cephalolophus, genus (Antelope), II, a b 90
Cephalon, head (Crustacea), VI, b 559, a b 560, b 564
CEPHALONIA or Cephallenia, island, V, b 298-9; (Ionian Islands), XIII, *b* 211, *a b* 212, a 213; (Numismatics), XVII, a 660
Cephalont (Protozoa), XIX, b 877, *a* b 878
Cephalopoda, class (Cuttle-Fish), VI, b 648; (Mollusca), XVI, a 689-710; (Newfoundland), XVII, a 393; (Parasitism), XVIII, a 263, a 264; (Reproduction), XX, a 421, a 432; (Skeleton), XXII, a 114; gigantic (St. Paul), XXI, a 199
Cephalopyrus, genus (Birds), III, a 660
Cephalotes, bats (Mammalia), XV, a 414
Cephalo-thorax (Arachnida), II, a 238, b 240, *b* 243, b 245, a b 247, b 248, b 251, a 252, a b 253, a b 255
Cephalothrix, genus (Nemertines), XVII, a 336, a *b* 337, a 340
Cephalotus, genus (Insectivorous Plants) (Ill.), XIII, a b 140, b 145, a 146
Cephalus, hunter-myth (Tithonus), XXIII, *a* 441
Cephas (Peter), XVIII, a b 707, note, a 708. See PETER, apostle
Cephisodorus, ambassador (Numismatics), XVII, *b* 660
Cephisodotus, sculptor (Archæology), II, b 315; (Praxiteles), XIX, b 680
——, the younger, sculptor (Archæology), II, a 319
Cephisus, river (Attica), III, a 52, a 53; (Greece), XI, a 74; valley (Phocis), XVIII, a b 814
Cephus, genus (Hymenoptera), XII, a 608, b 609, b 610; (Wheat), XXIV, b 566
Cepolidæ, family (Ichthyology), XII, a 716, a 729
CERAM, island, V, b 299; (Indian Archipelago), XII, b 855, b 856
Ceramiaceæ, plant (Atlantic Ocean), III, b 24
Ceramieæ, plant (Biology), III, *b* 600
Ceramic art. See POTTERY AND PORCELAIN
Ceramic Art of Great Britain (Pottery and Porcelain), XIX, b 651, a 664
—— gulf (Caria), V, b 90
—— Papier maché, XVIII, a 232
Ceramicus, suburb (Athens), III, a 3, a b 4, b 9, note; (Pericles), XVIII, a b 544
Céramiques, Traité des Arts (Pottery and Porcelain), XIX, a 657, a 659
Cerargyrite (Mineralogy), XVI, a 400
Cerasin, gum (Botany), IV, a 78; (Gum), XI, b 244
Cerastes, viper (Asp), II, a 624; (Viper), XXIV, a 266
Cerastium hirsutum, species, (Botany) (Ill.), XIV, a 130
Cerasus, plant (Cherry), V, *a* 509; (Horticulture), XII, a 280; (Laurel), XIV, b 348
——, town (Pontus), XIX, a 474
Cerata or papillæ (Mollusca), XVI, a 680, a 684
Ceratium, genus (Protozoa) (Ill.), XIX, b 860, *b* 883, a b 884, b 885
Ceratocephalus, genus (Crustacea) (Ill.), VI, b 582, *a* 583
Ceratodus, mud-fish (Distribution), VII, b 236; (Ichthyology) (Ill.), XII, a 671, a b 684, a 692, *b* 694, a b 695-6, a b 697, b 699, a 704, a b 706, *a* 713, a 725
Ceratonia, genus (Locust-tree), XIV, a 774
Ceratonota, sub-order (Mollusca), XVI, a 680
Ceratophrys granosa, species (Frog) (Ill.), IX, a 699
Ceratopteris, genus (Ferns), IX, b 89
Ceratorhinus, genus (Rhinoceros), XX, a 537
Ceratosa, order (Sponges), XXII, b 434, b 436, a 437, *a b* 438, b 439-40, b 442, a *b* 444
Ceraunian Hills (Greece), XI, a 74
Cerball, king (Ireland), XIII, *a* 258
Cerbera, Cape (Pyrénées), XX, a 134
CERBERUS, dog, V, b 299
Cercamon, troubadour (Provençal Literature), XIX, a b 899
Cercaria, parasite (Trematoda) (Ill.), XXIII, a *b* 572, a 575
Cerchi, family (Dante), VI, b 714
Cercis Canadensis (Judas Tree), XIII, b 771
Cercoleptes, genus (Mammalia), XV, b 447
Cercomonadina (Protozoa), XIX, a 881
Cercomonas (Protozoa) (Ill.), XIX, b 880, a 881
Cercopithecidæ, family (Mammalia), XV, b 451
Cercopithecus, genus (Ape), II, a 133, b 136, *a* b 138, a 140, b 143, b 144, b 145, b 146, a 147
Cercosauridæ, family (Lizard), XIV, b 739
Cerd, metal-worker (Ireland), XIII, a b 264
Cerda, Dominic de, justiciar (Spain), XXII, a 338
——, Juan de, justiciar, (Spain), XXII, b 338
Cerdagne, district (Roussillon), XXI, *b* 33; (Spain), XXII, b 340, a 341, a b 347, b 360
Cerdic and Cynric, settlers (England), VIII, b 244, a b 245
Cerdo, Gnostic (Marcion), XV, *b* 541
CERDONIANS, Gnostic sect, V, a 300
Cerealia, festival (Ceres), V, a 300
Cerealin, nitrogenous principle (Baking), III, b 219-20; (Flour), IX, b 301
Cereals. See Barley, Buckwheat, Maize, Oat, Rye, Wheat
Cereanthus (Actinozoa), I, b 120
Cerebellum (Plate XVIII), (Anatomy), I, a 758; a 765-6; (Ape), II, *b* 144; (Physiology) (Ill.), XIX, a 44-5; bloodvessels (Anatomy), I, a 794; coördinating movement (Physiology), XIX, a b 39
Cerebral letters (T), XXIII, a 5; (Tamils), a 47; peduncles (Physiology) (Ill.), XIX, b 42, b 45-6; stimulation (Dream), VII, b 395; vesicles, development of (Physiology) (Ill.), XIX, a 36-7
Cerebratulus, genus (Nemertines), XVII, a 336, a b 337, a 340
Cerebro-spinal axis (Embryology), VIII, a 154; development of (Physiology), XIX, a 36; nerve system (Anatomy), I, *a* 754, a 756, b 757-76; (Vertebrata), XXIV, a 193, b 196, *a* 199, a 203
Cerebrum (Anatomy) (Ill.), I, a 758, b 766-73; (Ape), II, a b 144; (Physiology) (Ill.), XIX, b 45-9; bloodvessels of (Anatomy), I, *a* b 794
Ceredo, mountain (Spain), XXII, a 308
Ceremonial, Congregation of (Roman Catholic Church), XX, a 646
—— rules of (Sanskrit), XXI, b 287-8, b 289-90
Ceremonies. See Rites
——, burial (Egypt), VII, 626
Ceremony, etymology of (Etruria), VIII, a 558
Cereopsis, bird (Goose), X, b 692
CERES, goddess, V, a b 300; (Liber), XIV, a 507. See Demeter
Ceres, Pompeian (Mural Decoration), XVII, a b 48
Ceres, asteroid (Astronomy), II, a b 705; (Observatory), XVII, b 734; discovery of (Astronomy), II, a 663
Ceresin, wax (Ozocerite), XVIII, b 116
Ceresio, Lago (Lugano, Lake of), XV, b 61
Céret, town (Pyrénées), XX, a *b* 134
Cereus, plant (Cactus), IV, a 555, a 556; (Horticulture), XII, b 274
Ceriani, A. M., orientalist (Apocalyptic Literature), II, *b* 155, a 156, a 157; (Syriac Literature), XXII, a 864, notes, a b 865, notes, b 866
CERIGNOLA, town, V, b 300
CERIGO, island, V, b 300; (Ionian Islands), XIII, *b* 211, *a*, *b* 213
CERIGOTTO, island, V, a 301
Cerillos mines (Turquoise), XXIII, a b 712
Cerin, chemical substance (Wax), XXIV, a b 485
Cerine, mineral (Mineralogy), XVI, a-b 427
CERINTHUS, heretic, V, a b 301; (Gnosticism), X, *a* b 626, a 627; (Millennium), XVI, b 328
Cerinthus and Sulpicia lovers (Tibullus), XXIII, b 371, a 373
Cerisolles, battle, 1544 (France), IX, b 491
Cerite, mineral (Lanthanum), XIV, b 291-2; (Mineralogy), XVI, a 428
Cerium, metal (Chemistry), V, a b 470; (Lanthanum), XIV, b 291-2; (Mineralogy), XVI, b 416, b 420; spectrum (Spectroscopy), XXII, b 390
Cermait, god (Celtic Literature), V, *b* 260
Cerna, general (Guatemala), XI, a 214
Ceromel, medicine (Honey), XII, a 141
Ceroxylon, tree (Palm), XVIII, b 194, a 195
CERRETO, town, V, b 301
Cerrillos, district (New Mexico), XVII, a b 410
Cerro Gordo, battle, 1847 (Scott), XXI, a 577 note
—— Hermoso, mountain (Ecuador), VII, a 559
—— de Lorenzo, mountain (Logreno), XIV, b 814
—— del Mercado, hill (Mexico), XVI, a 908
—— de Mulhacen, mountain (Granada), XI, b 40
CERRO DE PASCO, town, V, b 301; (Peru), XVIII, *a* 688
—— de Potosi (Bolivia), IV, b 13
Certainty (Probability), XIX, *b* 788; (Taxation), XXIII, b 92; grounds of (Psychology), XX, b 87-8
CERTALDO, town, V, a 302; (Boccaccio), III, a 732, a b 735

- Certhia, genus (Tree-Creeper), XXIII, b 567–8
- Certhilauda, bird (Lark) (Ill.), XIV, *a* b 316
- Certhiola, genus (Birds), III, a 650, a 651; (Sugar-bird), XXII, a 662
- Certhiomorphæ, group (Ornithology), XVIII, a 42, a 45, note
- Certificates, oil (Petroleum), XVIII, b 893
- *Certiorari*, writ of (Writ), XXIV, a b 731, a 732
- Certitude (Metaphysic), XVI, b 96
- Certosa, monastery (Carthusians), V, a 143; Florence (Sculpture), XXI, b 594, a 595; Pavia (Fossano), IX, b 417; (Pavia), XVIII, b 449, note; (Perugino), b 695; (Terra-Cotta), XXIII, b 211
- Certosina-work (Buhl-work), IV, b 399
- Cerura, moth (Butterflies), IV, b 528
- Cerusite or cerussite, mineral (Lead), XIV, *a* b 375; (Mineralogy) (Ill.), XVI, b 377, *b* 379, a 387, a 415
- CERVANTES SAAVEDRA, Miguel de, author, V, a 302–9
  - Algerine captivity, b 303–4
  - Azores expedition, a 305
  - bibliography, b 309
  - *Don Quixote*, 1st part, a 306–9
    - 2d part, b 307, a 309
    - false, a b 308
  - drama, b 305, a 308
  - *Galatea*, a 305
  - "Holy League," b 302–3
  - last days, a 309
  - *Novelas Exemplares*, b 307
  - Seville, b 305–6
  - Valladolid, a 306
  - *Voyage to Parnassus*, b 307–8
  - youth, a b 302
- —— (Amadis of Gaul), I, a 572; (Camoens), IV, b 662; (Drama), VII, b 363–4; (Pastoral), XVIII, a 351; (Spain), XXII, *b* 370, b 371, a 372; (Vega Carpio), XXIV, *a* 134
- Cervantite (Mineralogy), XVI, b 404
- Cervetri, town (Cære), IV, *b* 561; (Catacombs) (Ill.), V, b 188, a 189; (Rome), XX, a 753, a b 759, note, b 764; tombs at (Architecture), II, *a* 363
- CERVIA, city, V, b 309
- Cervical arteries (Anatomy), I, *a* 794; ganglion (Anatomy), *b* 775, a 776; plexus (Anatomy) (Ill.), a 762; region (Mammalia), XV, b 359–60; vertebræ (Anatomy), I, b 719, *b* 728; (Skeleton), XXII, a b 119
- Cervidæ, ungulates (Deer), VII, a 22–4; (Mammalia), XV, a 438
- Cervisia, liquor (Brewing), IV, a b 236
- Cervulus, genus (Muntiak), XVII, a b 38
- Ceryle, bird (Kingfisher), XIV, *b* 84
- Cesalpino, Andrea. See CÆSALPINUS
- *Cæsar, Romanz de Julius* (Romance), XX, a 655
- Cesareda Cave, V, b 234
- Cesarewitch, title (Prince), XIX, b 757
- Cesari, Antonio, jurist (Italy), XIII, b 524
- CESARI, Giuseppe, painter, V, b 309
- Cesarini, Giuliano, cardinal (Reformation), XX, a 334; (Turkey), XXIII, a 683
- CESAROTTI, Melchiore, poet, V, b 309–10
- Ceschi, Giovanni Battista, master (St. John of Jerusalem), XXI, a 184
- CESENA, district and city, V, a 310
- Cesena, Michael of, friar (Occam), XVII, a b 738
- Cesi, Frederigo (Academy), I, b 68
- Cesinge, John or Janus Pannonius, poet (Hungary), XII, b 390
- Cesnola, Luigi Palma di, general and archæologist (Cyprus), VI, b 661, note; (Plate), XIX, b 189
- —— collection (Gems), X, a 122, b 124
- CESPEDES or Cedaspe, Pablo de, painter, V, a b 310
- Cessio Bonorum, in Scotland (Bankruptcy), III, a 297
- Cessio in jure (Roman Law), XX, a 708
- Cessolis, Jacobus de, friar (Chess), V, b 523
- Cesspools and tanks (Building), IV, b 418
- Cestius, Caius, prætor, tomb of (Rome), XX, b 852
- Cestoda or Tape-worms, XXIII, b 54–61; (Veterinary Science), XXIV, b 222, a *b* 223
- Cestoidea (Animal Kingdom), II, b 49; (Zoology), XXIV, b 852
- Cestoid worms (Vertebrata), XXIV, b 198
- Cestracion, fish (Ichthyology), XII, a 700, a 724; (Shark) (Ill.), XXI, a 812
- Cestraciontidæ, family (Ichthyology), XII, a b 706, a 716, a 724
- Cestrus, river (Asia Minor), II, a 610; (Pisidia), XIX, *a* 139
- Cestui que Trust, XXIII, b 633, a b 634–5, a b 636, a 637
- Cestum (Actinozoa), I, a b 122
- CETACEA, mammals, V, b 310; (Distribution), VII, a 244, a 248; (Ichthyology), XII, b 666, a 668; (Whale), XXIV, b 651–8
- —— anatomy of (Mammalia), XV, *a* 351, b 352, b 356, b 357, *b* 360, *b* 361, *b* 362, b 363; brain of (Mammalia), b 369; circulation of (Mammalia), *a* b 367; classification of (Mammalia), *a* b 375, b 386, *b* 392, *a* 393, a 395–403; digestive system (Mammalia), a b 365, a b 366; distribution (Mammalia), *a* *b* 376; eye of (Mammalia), *a* b 370; feeling in (Touch), XXIII, b 509; hearing of (Mammalia), XV, *b* 370; lymphatic system of (Mammalia), b 367; reproductive organs (Mammalia), a 371, a b 372; respiration of (Mammalia), *a* b 368; Smell, XXII, b 176; urinary organs of (Mammalia), XV, a 369
- Ceteosaurus, Jurassic (Geology), X, b 315
- Cetewayo or Cetshwayo, chief (Kaffraria), XIII, a 829; (Zululand), XXIV, b 867, *b* 868
- CETINA, Gutierre de, poet, V, b 310
- Cetochilus, genus (Crustacea), VI, b 587, a 588
- Ceteneth, tunic (Costume), VI, b 405, a 406
- Cetonia, genus (Coleoptera) (Ill.), VI, a 115, a *b* 116, b 119
- Cetoniidæ, family (Coleoptera) (Ill.), VI, b 116, b 119
- Cetotherium, fossil (Mammalia), XV, a 397
- Cetraria, genus (Lichens), XIV, a 561, a 562, a 563, b 564
- Cetshwayo or Cetewayo, chief (Kaffraria), XIII, a 829; (Zululand), XXIV, b 867, *b* 868
- CETTE, city, V, b 310–1
- Cetti, Francesco, naturalist (Ornithology), XVIII, a 13
- Cettina, river (Dalmatia), VI, a 690
- CETTINJE, city, V, a 311; (Montenegro), XVI, b 806, a b 807
- Cetywayo. See Cetewayo
- Ceulen, Ludolph van, mathematician (Squaring the Circle), XXII, b 451
- CEUTA or Sebta, town, V, a 311; (Morocco), XVI, b 856-7, *b* 861; battle of, 1549 (Camoens), IV, a 660
- CEVA, town, V, b 311
- CÉVENNES, mountains, V, b 311; (Ardeche), II, b 422; (Camisards), IV, a b 657–8, a 659; (France), IX, b 445; (Gard), X, *a* 68; (Lozère), XV, *a* 33
- Ceycinæ, birds (Kingfisher), XIV, a 84, note
- CEYLON (Sketch Map), V, a 311-22
  - agriculture, b 319–20
  - botany, b 314–5
  - chorography, b 311-2
  - commercial features, a 321
  - communications, b 319
  - diseases, b 319
  - finance, b 321
  - geology and soil, a b 314
  - government, a 317–8
  - harbors, b 313
  - history, a 316–7
  - language and literature, a b 318
  - manufactures, a 321
  - meteorology, b 313–4
  - religion, b 318–9
  - social features, a 317, a b 319
  - water system, b 312–3
  - zoology, b 315–6
- —— (Asia), II, a 599; (Buddhism), IV, a b 389, b 391; (Buffalo), a 396; (Cinnamon), V, a *b* 686; (Cocoanut Palm), VI, b 94; (Coffee), b 101, b 102; (Coolie), b 297–8; (Forests), IX, b 356; (Fowl), a 434; (Glass), X, a 580; (Hooker, W. J.), XII, a 156; (India), a 769; (Maldive Islands), XV, b 333; (Mining), XVI, b 491; (Pâli), XVIII, a b 187, a 188, b 189; (Patents), a 362; (Pilgrimage), XIX, a 101; (Plumbago), b 212; (Railway), XX, a 264; (Sapphire), XXI, a 317; (Tea), XXIII, b 105, b 109; (Veddahs), XXIV, b 131; (Weights and Measures), a 518; (Xavier), a 753
- ——, birds of (Birds), III, b 661; (Ornithology), XVIII, a 20; fauna (Distribution), VII, *b* 236; fisheries (Pearl), XVIII, b 457; Khosrau's conquest of (Persia), XVIII, a 624 note; moss (Algæ), I, a 449; organic forms of (Asia), II, b 605
- Ceyx, bird (Kingfisher), XIV, a 84, note
- Cèze river (Gard), X, a 68
- C. G. S. system (Measurement), XV, a 675; (Mechanics), b 706
- Chabanon, Michel Paul Gui de, essayist (Chamfort), V, a 332
- Chabas, François Joseph, archæologist (Amorites), I, b 655; (Egypt), VII, a b 624 note, a *b* 633
- Chabasite (Mineralogy) (Ill.), XVI, b 377, *a* 379, a 383, b 439
- CHABLIS, town, V, a 322; Wine, XXIV, a 639
- Chaboras or Khabur river (Mesopotamia), XVI, *a* b 52
- Chabot, Gui, baron de Jarnac, XIII, a 604
- Chabræus, Dominique, botanist (Potato), XIX, a 612
- CHABRIAS, general, V, a 322; (Egypt), VII, *a* 645; (Persia), XVIII, a 590, a 591; (Phocion), b 812
- Chacaqua river (Chicago), V, a 530
- Chaco, the (Argentine Rep.), II, b 429, a 430, *a* b 434
- ——, Cañon de, ruins in (Pueblo Indians), XX, *b* 887–8
- Chacones, songs (Portugal), XIX, a 570
- Chacra, town (Catamarca), V, a 190
- Chad, Tchad or Tsad, lake (Africa), I, b 220, a 222, *a* 223, *a* b 224, b 228, a b 229; (Kuka), XIV, a 154, note; (Niger), XVII, *b* 510, note
- Chadd's Ford or Brandywine, battle of, 1777 (La Fayette), XIV, b 202; (United States), XXIII, a 792
- CHADERTON, Laurence, Puritan, V, a 322; (English Bible), VIII, b 347, a 348
- *Chæreas and Callirhoe*, novel (Romance), XX, b 651
- Chæremon, poet (Drama), VII, a 351
- CHÆRONEIA or Chæronea, town, V, a 322; (Greece), XI, *b* 93; battle of, 388 B.C. (Isocrates), XIII, *a* 400; (Persia), XVIII, b 592; (Thebes), XXIII, b 248
- Chæropsis, animal (Swine), XXII, a 811
- Chætetidæ, family (Corals), VI, a 334, a b 337
- Chætoderma, order (Mollusca) (Ill.), XVI, b 664
- Chætodon, fish (Ichthyology) (Ill.), XII, *a* 701, a 727

Chætogaster, worm (Annelida), II, *a* 62; (Worm), XXIV, a b 714, a *b* 716
Chætognatha, group of worms (Animal Kingdom), II, b 46, b 47, a 48; (Sagitta), XXI, a b 156
Chætomys, genus (Porcupine), XIX, b 533
Chætopoda, group of worms (Annelida), II, b 58, b 61; (Mollusca) (Ill.), XVI, b 660, a b 676; (Vertebrata), XXIV, *a* 198; (Worm), b 712, b 714–5, a b 719, b 852
Chætura, genus of birds (Swift), XXII, a 799, note
Chaff-cutter (Agriculture), I, b 290
CHAFFINCH, bird, V, b 322; (Birds), III, b 655; (Finch), IX, a 168
Chagos, archipelago (Indian Ocean), XII, a 861; bank, Great (Geology), X, a 229
CHAGRES, town, V, b 322; river (Panamá), XVIII, a 213
Chagual gum, XI, a 244
Chahar-Aimák, tribes (Herat), XI, b 638
Chahorra peak (Canary Islands), IV, b 704, *a* 705
Cháibásá, town (Singbhúm), XXII, *b* 101
Chaidam plateau (Tibet), XXIII, a b 363
Chaide, Malon de, mystic (Spain), XXII, *b* 373-4
Chain, kinetics of (Mechanics), XV, a 749–51; oscillations (Mechanics), a b 750; statics of (Mechanics), b 746-9
——, Gunter's, XI, b 295: (Weights and Measures), XXIV, a 512, a b 517
Chain Balances (Ill.), III, b 225–6
—— Cables (Ill.), IV, a 552; (Anchor), II, b 56; (Bridges), IV, a 270-3; (Seamanship), XXI, b 625, b 626
—— gang (Prison Discipline), XIX, b 770
Chain of Histories (Mohammedanism), XVI, b 618
Chain islands (Tuamotu), XXIII, a 640
—— pump (Seamanship), XXI, b 632
—— shot (Mechanics), XV, a 725
—— stitch (Sewing Machines) (Ill.), XXI, a b 755, b 918–9
—— of triangles (Geodesy) (Ill.), X, *b* 150–1
Chains of embryos (Tunicata), XXIII, a 655
—— and ropes (Coal), V, *b* 69-70
Chains of Slavery, The (Marat), XV, b 533
Chairs (Furniture), IX, *a* *b* 746–7; making (Wycombe), XXIV, a 748
—— (Railway), XX, a 231, a 251, a b 252
—— or conventions (Eisteddfod), VIII, a 686, a 687
Chai-tang, town (China), V, b 550
Chaitanpur mountain (Singbhúm), XXII, b 101
Chaka or Chajá, bird (Screamer), XXI, a 578
Chaka, chief (Kaffraria), XIII, a 828, note, a 829; (Natal), XVII, *b* 248
Chakhansúr, district (Sistán), XXII, *b* 108
Chakhars, tribe (Mongols), XVI, b 770, a 771
Chakir Beg, sultan (Seljuks), XXI, a b 666
Chakr or chakra, weapon, Sikhs (Punjab), XX, b 117
Chala, port (Peru), XVIII, b 687
Chalap Dalan, mountain (Ghur), X, b 509
Chalarothoraca, order (Protozoa), XIX, b 867
Chalaza of ovule (Botany) (Ill.), IV, *a* 133, *a* 140
Chalazion, disease (Ophthalmology), XVII, a 808
Chalcanthite (Mineralogy) (Ill.), XVI, b 418
CHALCEDON, town, V, b 322–3; (Constantinople), VI, *b* 269, b 271, a 273; council of, 451 (Greek Church), XI, b 138; (Marcian), XV, b 540-1; creed of (Dogmatic), VII, *b* 294; (Justinian), XIII, a b 805
Chalcedony, gem (Agate), I, *a* 248; (Mineralogy), XVI, a b 385, b 405; (Onyx), XVII, a 798; (Sardonyx), XXI, b 325
Chalchihuitl, stone (Jade), XIII, a 550
Chalcidene, district (Numismatics), XVII, b 666
Chalcidian alphabet, I, b 536–7
Chalcidians, people (Græcia Magna), XI, a b 28; (Greece), b 85, *a* 86, a 88
Chalcidice, district (Macedonia), XV, b 138, a 139; (Numismatics), XVII, a 657
Chalcidicum, temple (Pompeii), XIX, a b 461
Chalcididæ, insects (Hymenoptera) (Ill.), XII, a *b* 606, *a* b 607, note, *b* 608, b 610-11, a 612; (Insects), XIII, b 154
——, family of lizards (Lizard), XIV, b 739
Chalcidius, philosopher (Scholasticism), XXI, *b* 437, b 441
Chalcis, insect. See Chalcididæ
Chalcis, city of Greece (Corinth), VI, a 353; (Eubœa), VIII, b 568, *a* b 569, *a* *b* 570; (Greece), XI, a 77, a 78; (Numismatics), XVII, a b 661; (Rome), XX, a 771, b 772
——, city of Syria (Jerome, St.), XIII, a 641; (Lebanon), XIV, b 394
Chalcocite, ore (Copper), VI, b 308
Chalcocondyles, Laonicus (Byzantine Historians), IV, b 545
Chalcolite (Mineralogy), XVI, b 424
Chalcomenite (Mineralogy), XVI, b 412
Chalcondyles, Demetrius, teacher (Greece), XI, b 122, a b 133
Chalcophanite (Mineralogy), XVI, a 404
Chalcophyllite (Mineralogy) (Ill.), XVI, a 424
Chalcopsittacus, birds (Lory), XV, a *b* 9, note
Chalcopteryx, insect (Dragon-fly), VII, a 336
Chalcopyrite or copper pyrites (Copper), VI, b 308; (Mineralogy) (Ill.), XVI, a 367, a 379, b 387, a 388, b 400, a b 409
Chalcosiderite (Mineralogy), XVI, a 424
Chalcotrichite (Mineralogy), XVI, a 395, b 400
Chaldæans, people. See Chaldeans
——, sect (Greek Church), XI, a b 138; (Nestorius), XVII, a b 366, note, a 367; (Roman Catholic Church), XX, a 647
Chaldaic dictionary (Buxtorf), IV, b 535, a b 536. See Chaldee
Chaldaism (Manichæism), XV, a b 489, b 492
Chaldea, country (Babylonia), III, a *b* 159
Chaldean architecture, II, b 349; Astronomy, b 650–1; dynasties (Berosus), III, a 525; myth (Adam), I, a 126; signs of Zodiac, XXIV, *a* b 830
Chaldeans, people (Babylonia), III, b 159, *b* 161, a b 162; (Habakkuk), XI, b 310; (Israel), XIII, b 426, b 427; (Mesopotamia), XVI, a 56; (Moab), a 559; (Phœnicia), XVIII, a b 821, a 822
Chaldeans, sect. See Chaldæans
Chaldeans, Vienna (Giorgione), X, a 543
Chaldee (Aramaic Languages), II, b 269; (Semitic Languages), XXI, a 680
Chaldee Dictionaries, VII, a b 164
Chaldiran, battle of, 1514 (Turkey), XXIII, a 684
Chaleur, bay of (New Brunswick), XVII, *b* 382; (Quebec), XX, b 171, a b 172
Chaleur, Théorie Analytique de la (Fourier), IX, b 433
Chalfont St. Giles manor (Buckingham), IV, b 373
Chalices, English (Plate) (Ill.), XIX, a 197
Chalicotheriidæ, fossils (Mammalia), XV, b 434
Chalinolobus, genus (Mammalia), XV, a 415, b 418
CHALK, mineral, V, a b 323; (Agriculture), I, b 312–3; (Briançon), IV, b 247; (Foraminifera) (Ill.), IX, a b 340; (Geology), X, a b 317–8; (Iron), XIII, a 303; (Mineralogy), XVI, a b 387, b 390, a 414; (Norfolk), XVII, b 549; (Pacific Ocean), XVIII, b 131; (Syr-Daria), XXII, b 859
—— beds of the Atlantic, III, a 25; black (Mineralogy), XVI, b 442; drawing (Lithography), XIV, *b* 704–5; rock (Geology), X, b 213
—— stones (Gout), XI, b 7; (Pathology), XVIII, b 397
Challenge (Duel), VII, a 442; (Glove), X, a 617; (Jury), XIII, a 796
—— cups (Wrestling and Boxing), XXIV, b 726
Challenger expedition (Atlantic Ocean), III, b 16, a 18, b 21, a 23, a b 25; (Climate), VI, a 6; (Distribution), VII, *a* *b* 241, *b* 242, a *b* 243, a 244; (Dredge), a 399–400; (Geology), X, *b* 197, a 247, b 254, a b 255, a b 257, a 284, b 295; (Ichthyology), XII, a 707, b 721, b 722; (Kerguelen's Land), XIV, b 50, *a* 51; (Meteorology), XVI, a b 121, a 122, b 124, b 126, a–b 129, a–b 130, a 131, a b 133, b 139, a 140, b 151, a 162, b 171; (Pacific Ocean), XVIII, a 121, a b 122, a b 123, a 124, a 125, a b 133; (Polar Regions), XIX, b 343; (Sea Water), XXI, a b 641, note, a b 643, a b 644; (Thermometer), XXIII, a b 312; (Thomson), b 331; (Tristan da Cunha), b 613; (Tunicata), b 647, a b 656; (West Indies), XXIV, b 538
Challis, James, physicist (Astronomy), II, b 711; (Attraction), III, a 57
CHALLONER, Richard, bishop, V, b 323
CHALMERS, Alexander, editor, V, b 323-4
CHALMERS, George, antiquary, V, a 324–5
——, James, antiquary, V, b 324–5
——, James, printer (Post-Office), XIX, a b 602, note
CHALMERS, Thomas, divine, V, a 325–8; (Dogmatic), VII, a 292, a 297; (Free Church of Scotland), IX, *b* 654, a 655; (Irving, E.), XIII, b 381; (Political Economy), XIX, b 386, b 390; (Savings Banks), XXI, a 345; (Scotland), a b 563, a b 564, note; (Theology), XXIII, a 288
CHALONER, Sir Thomas, poet, V, a b 328; (Guisborough), XI, b 235
CHALONS-SUR-MARNE, town, V, b 328–9; battle of, 451 (Aetius), I, a 202; (Attila), III, b 54
CHALON-SUR-SAONE, town, V, b 328
Chalosse, La, region (Landes), XIV, b 272, a 273
CHALOTAIS, Louis René de Caradeuc de la, statesman, XIV, b 192–3
Chalukyas, kings, India (Inscriptions), XIII, b 126
Chalumeau or Shawm (Oboe) (Ill.), XVII, a b 727
CHALYBAUS, Heinrich Moritz, philosopher, V, a 329
Chalybeate springs (Geology), X, b 240; (Harrowgate), XI, *b* 442; (Mineral Waters), XVI, b 453; therapeutics of (Iron), XIII, b 369, b 370
Chalybes, people (Asia Minor), II, a 621
Chalybite (Mineralogy), XVI, a 414
Chalybon valley (Lebanon), XIV, a 394
Chama Lake (Zaire), XXIV, b 801
Chamædorea, palm (Horticulture), XII, b 276
Chamæidæ, family (Birds), III, b 650, a 651, b 652

Chamælcon, lizard. See Chameleon.
Chamæleon minerale, solution (Manganese), XV, a 488
Chamærops, palm (Horticulture), XII, b 276; (Palm) (Ill.), XVIII, b 194, a b 195
Chamæsauridæ, family (Lizard), XIV, b 739
Chamalhari, mountain (Sikkim), XXII, b 56
Chámárs, Hindu sect (Bilaspur), III, a 580; (Oudh), XVIII, b 75
Chamavi, state (Salic Law), XXI, a b 225
CHÁMBÁ, state and town, V, a b 329
Chambal river (Aravalli Hills), II, b 272; (Gwalior), XI, b 308; (Kotah), XIV, b 144; (Rajputáua), XX, *a* 272
Chambering (Gunmaking), XI, b 259
Chamberlain, lake (Maine), XV, a b 300
CHAMBERLAIN, officer, V, b 329; (England), VIII, a 268; Lord (Precedence), XIX, a *b* 682, note; (State Officers), XXII, b 476; his department (Royal Household), XXI, b 42-3
—— courts, Scotch (Borough), IV, a 57
Chamberlain, Joseph, statesman (Liquor Laws), XIV, *a* 696
Chamber of Peers, France (Peerage), XVIII, a 479
—— process (Sulphur), XXII, a 670
Chambers of Commerce (Belgium), III, a 453; (Paris), XVIII, a 292; (Trade, Board of), XXIII, a 530 note; Edinburgh (Post-Office), XIX, a *b* 590
"Chambers of Reunion," French (Germany), X, b 450
Chambers of Rhetoric (Academy), I, b 73; (Holland), XII, b 94-5, b 96; (Houwaert), b 332
CHAMBERS, Ephraim, cyclopædist, V, b 329-30; (Encyclopædia), VIII, b 178-9
——, Frederick (Meteorology), XVI, a 187
CHAMBERS, George, painter, V, a 330
——, John G., boxer (Wrestling), XXIV, b 726
CHAMBERS, Robert, publisher, V, a b 330; (Burns), IV, a 509; (Ornithology), XVIII, b 36 note
——, Sir William, architect (Architecture), II, a 371, *b* 388-9, *b* 392, *b* 393; (Carriage), V, a 120
—, Sir William, publisher, V, a *b* 330; (Peebles), XVIII, b 463
CHAMBERSBURG, Pennsylvania, town, V, a 331; capture of, 1862 (Stuart), XXII, a 931
Chambers's *Cyclopædia*, VIII, b 178, a b 179
—— *Encyclopædia*, VIII, a 186
—— *Edinburgh Journal* (Periodicals), XVIII, b 548
—— *Journal*, V, b 330
—— *Mathematical Tables*, XXIII, b 16
CHAMBÉRY, city, V, a 331; (Savoie), XXI, *b* 347, a 348
Chambeze or Chasi, river (Africa), I, *b* 222, b 227; (Zaire), XXIV, b 801
Chambiá river (Bundi), IV, b 466
Chambly canal (St. Lawrence), XXI, b 190
CHAMBORD, château, V, a 331; (Charles IV.), b 363
——, Henri Charles Ferdinand, comte de (Berri), III, b 525; (Berryer), *a* 526; (Bordeaux), IV, b 47; (Bourbon), a 158; (France), IX, a 546
Cham de la Roche, mount (Aveyron), III, b 132
CHAMELEON or Chamæleon, V, a 331-2; (Lizard), XIV, b 739, a b 740, b 743; (Mimicry), XVI, b 355; (Reptiles) (Ill.), XX, a b 463, a 464, b 466, a b 468, b 470, b 471, a b 472, b 473, a 475, a 477, *a* 478, a 482
Chamfer. See Champfer
CHAMFORT, Nicolas, conversationalist, V, a b 332
Chamiso, shrub (California), IV, a 624
CHAMISSO, Adalbert von, poet, V, a 332-5; (Germany), X, a 485; (Tunicata), XXIII, a 647
Chamla-Bel, mount (Asia Minor), II, b 617
CHAMOIS, V, b 333-4; (Alps), I, *a* 557; (Antelope) (Ill.), II, b 90; skins (Leather), XIV, b 390
Chamoisite (Mineralogy), XVI, b 432
CHAMOMILE FLOWERS, V, a 334; (Horticulture), XII, a 302
Chamorros, people (Ladrone Islands), XIV, b 200-1; (Micronesia), XVI, a 267
CHAMOUNI or Chamonix, valley, V, a b 334; (Glacier), X, a b 559, a 561
Chamousset, Claude Piarron de (Post-Office), XIX, a 597, note
Champ de Mars (Paris), XVIII, b 280
CHAMPAGNE, counts of (Henry I., Navarre), XI, a b 599
——, district (Map), V, b 334-5; (Indre), XII, *a* 887
——, Philippe de, painter, V, a 335
——, wine (Adulteration), I, *b* 157; (Wines), XXIV, b 635, a b 638
Champagnole, town (Jura), XIII, *b* 791
Champain, Col. Bateman, traveller (Persia), XVIII, a 631
CHAMPÁRAN, district, V, a b 335
Champart, Robert, archbishop (Jumièges), XIII, b 782
Champûs (Sanskrit), XXI, a 298
CHAMPEAUX, William of, theologian, V, b 335; (Abelard), I, a 38; (Bernard), III, *a* b 520; (Scholasticism), XXI, b 435, b 439, a 440-1, *a* 442, a 443
Champerico, town (Guatemala), XI, a 214
Champfer in Architecture, II, b 405
Champfleury, author. See Fleury, Jules
Champignon, fungus (Mushroom), XVII, b 83-4
Champion archers (Archery), II, b 326
CHAMPLAIN, lake, V, b 335-a 336; (New York), XVII, b 462, a 465; (Vermont), XXIV, *b* 180, *a b* 181, b 182
——, alluvial group (Geology), X, b 328; ore (Iron), XIII, b 293
CHAMPLAIN, Samuel de, explorer, V, a 336; (Geography), X, a 167; (Hudson, H.), XII, b 346; (Montreal), XVI, b 821; (New York), XVII, a 466
Champ-levé Enamels, VIII, a b 168; (Jewellery), XIII, b 689
Champmeslé, Charles Chevillet, actor (La Fontaine), XIV, a 206
——, Mary Desmares, actress (Racine), XX, b 212, a 213, a 214
CHAMPOLLION, Jean François, Egyptologist, V, a b 336; (Figeac), IX, a 136; (Hieroglyphics), XI, a *b* 709, b 716, *a* 723
CHAMPOLLION-FIGEAC, Jean Jacques, philologist, V, b 336; (Palæography), XVIII, a b 159, a 170
Chams, race, Cochin China, VI, a 88
Chânakya, dramatist (Sanskrit), XXI, b 300-1
Chañarcillo, town (Chili), V, *b* 540, a 541
Chancas, people (Peru), XVIII, b 689
Chance. See Chances, PROBABILITY
Chance Brothers & Co., Birmingham (Glass), X, b 588, *b* 583, a b 590; (Optics), XVII, a 824, a 825, a 831; (Telescope), XXIII, b 150, b 155
——, H. M., his coal estimate (Pennsylvania), XVIII, a b 512
——, J. T. (Lighthouse), XIV, a *b* 627, b 633, b 636
Chance, On (Plutarch), XIX, a 245
Chancel (Architecture), II, b 405; (Crypt), VI, a 591
CHANCELLOR, officer, V, b 336-8; (Costume), VI, a 423; (Court), a b 459
——, diocesan, V, b 337; (Cathedral), *a* 199
—— of the Empire (Germany), X, b 416, *a* 417, b 418
—— of the Exchequer, V, a 338; VIII, a 697; (Ministry), XVI, b 496; (Mint), b 503
——, Lancaster duchy, V, b 337-8; (Ministry), XVI, b 496
——, Richard, sailor (Geography), X, a 164; (India), XII, a 837; (Polar Regions), XIX, a b 328; (Russia), XXI, a 101
Chancellors, Lives of the (Campbell, Lord), IV, a 669, b 670
Chancellors, Lords High, V, a b 337; (Costume), VI, a 423; (Court), a b 459; (England), VIII, a 268; (Parliament), XVIII, a b 317; (Precedence), XIX, a 682 note; list of (England), VIII, 329-30
Chancellorsville, battle, 1863 (Hooker), XII, b 153; (Lee, R. E.), XIV, a 400; (Stuart), XXII, b 931; (United States), XXIII, a 827
CHANCERY, court, V, a b 338; (Brougham), IV, a 341; (Coke, E.), VI, b 109; (Common Law), a 186; (Company), a 198, b 199; (Court), *b* 458; (Infant), XIII, a b 41; (Judicature), XIII, b 774; (Injunction), a b 85; (More, Sir Thomas), XVI, b 843; (Partition), XVIII, a b 334; (Records), XX, b 323-4; (Summons), XXII, *b* 676; (Trust), XXIII, b 633; Scotch (Sheriff), XXI, b 833
—— caliphs (Mohammedanism), XVI, b 612
——, bill in, III, a 583; inns of (Inns of Court), XIII, *b* 93, *b* 94; language of old imperial (Germany), X, *a* 466; masters in (Costume), VI, a 423
Chances, Doctrine of (Demoivre), VII, b 53
Chancrée, shield (Heraldry) (Ill.), XI, a 617
Chancroid, disease (Surgery), XXII, a b 721
Chanctonbury Hill (Sussex), XXII, a 761, a 763
Chand or Chandra-Bardai, poet. See CHUND
CHÁNDÁ, district of India, V, b 338-9; town, *a* 339
Chandala, people (Caste), V, a 165 note
CHANDARNAGAR or Chundernagore, settlement, V, b 339; (India), XII, a b 840
Chanda Sahib (Arcot), II, b 421
Chandausi, town (Murádábád), XVII, b 39
Chandels, people (Hamírpur), XI, a b 378
Chander range, mountains (Násik), XVII, a 243
Chanderi, state (Lalitpur), XIV, b 226
Chandieu, Antoine, divine (Presbyterianism), XIX, b 712
Chandi Kali Baneng, temple (Bramánan), IV, a 193
—— Sewu, temple (Bramánan), IV, a 193
Chandler, Charles F., chemist (Petroleum), XVIII, a 733
——, John, translator (Hymns), XII, b 619, a 620
CHANDLER, Richard, antiquary, V, b 339
CHANDLER, Samuel, nonconformist, V, b 339-40
——, Zachariah, senator (United States), XXIII, a 822
Chandler's almucantar (Telescopic Work), XXIII, b 935
Chandol, town (Cabul), IV, a 554
Chandos (Handel), XI, b 388
Chandos, Sir John, soldier (Knighthood), XIV, a 122
Chándpur, town (Bijnaur), III, b 579

Chandra, Achârya, grammarian (Sanskrit), XXI, a 307
——, Bardai, poet. See CHUND
Chandrabhága river (Punjab), XX, b 112
—— Das, Sarat, pundit (Tibet), XXIII, a *b* 366
Chandra Gupta, king. See SANDROCOTTUS
Chandrarona mountains (Mysore), XVII, b 130
Chandra Varmá, chief (Bundelkhand), IV, b 466
Changama, battle, 1767 (Hyder Ali), XII, a 443
Chang Bhakar, state (Chutiá Nágpur), V, a 672
Chang-chenmo, valley (Tibet), XXIII, a 361
CHANG-CHOW, town, V, a 340; (Chinchew), *a* 585
Chang-chuang, island (Xavier), XXIV, a 754
Chang Keang, river (China), V, b 552
Change of direction (Mechanics), XV, a b 686
Change of faith, the (Iceland), XII, a 659
Change, impulsive (Mechanics), XV, a b 744
"Change of life" (Pathology), XVIII, b 391
Change of momentum (Mechanics), XV, a 706
—— of velocity (Mechanics), XV, a 689
Changeable Key Locks, XIV, b 756-7
Changeling, The, tragedy (Middleton, Thomas), XVI, a 295
Chang-gam Heen, city (China), V, a b 559, b 560, a 561
Changhwa, city (Formosa), IX, *a* 367
Chang-Kea-Kow (Kalgan), XIII, b 837
Chang-Keo, priest (China), V, a 560
Chang-kien, Chinese traveller (Persia), XVIII, a b 604-5
Cháng-lám road (Tibet), XXIII, a b 363
Changlin, emperor (China), V, b 562
Changlo dialect (Tibet), XXIII, a b 368, note
Chango, race (Peru), XVIII, a 690
Chang-pih-shan, mountains (Manchuria), XV, a 473
Chang-seang Wang, emperor (China), V, a 559
Chang-sha Foo, department (China), V, b 553, a 554
Cháng-tang, plains (Tibet), XXIII, b 360-1, b 362-3
Chang Tao-ling, magician (Lao-tsze), XIV, a 298
Chang-tĭh Foo, department (China), V, b 553, a 554
Changwe, country (Uganda), XXIII, a 765
Channa, charioteer (Buddhism), IV, a *b* 382
Channel (River Engineering), XX, b 592-3; embankments (River Engineering), b 587-8; improvement (River Engineering), a b 587, b 590-6
CHANNEL ISLANDS (Ill.), V, a 340-1; (Newspapers), XVII, b 434; (Normandy), a 559; (Numismatics), a 652; (Registration), XX, a 357. See ALDERNEY, Casquets, GUERNSEY, JERSEY, Sark
Channels, form of artificial (Hydromechanics) (Ill.), XII, b 520-2, a 526-9
CHANNING, William Ellery, Unitarian, V, b 341-2; (American Literature), I, a b 639; (Unitarianism), XXIII, b 773
——, William F., inventor (Telegraph), XXIII, a 930; (Telephone), a 931
Chanson, song (Beranger), III, a 503; (Music), XVII, a 91
—— de geste (Homer), XII, *b* 124; (France), IX, a 561-2; (Provençal Literature), XIX, b 900; (Romance), XX, b 656, b 657 note, *a* b 666, a 667
Chanson de Roland, XX, *a b* 642; (English Literature), VIII, b 363; (France), IX, *b* 561, a 562; (Holland), XII, a 93; (Homer), b 116, b 124
Chant (Plain Song), XIX, a 179-80; Indian (Sanskrit), XXI, b 290
Chantaburi, town (Siam), XXI, b 892
Chantal, Celse Bénigne de Rabutin de, baron (Sévigné), XXI, a 736
——, Jeanne Françoise Fremiot de (Francis of Sales), IX, a 613; (Guyon), XI, a 305; (Sévigné), XXI, a 736
Chanteloup, chemist. See CHAPTAL
Chanterelle, musical term (Lute), XV, a b 72-3
CHANTIBAN, town, V, b 342-3
CHANTILLY, town, V, a 343; town (Oise), XVII, a 771; ware (Pottery and Porcelain), XIX, b 656
CHANTREY, Sir Francis, sculptor, V, a b 343; (Sculpture), XXI, a b 587
Chantry, chapel (Architecture), II, b 405
Chanut, Pierre, diplomatist (Descartes), VII, *b* 104
Chao, island (Peru), XVIII, b 684
Chao Dua, Phra or king (Siam), XXI, b 894
Chaones, tribe (Epirus), VIII, *a* 429
Chaos (Berosus), III, b 524
Chaou Kwang-yin, general (China), V, b 561
Chaou-lĕĕ-te, emperor (China), V, a 560
Chaou-seang Wang, emperor (China), V, a 559
Chaou T'o, general (Tongking), XXIII, b 468
Chapala, lake (Mexico), XVI, a b 224
Chapapote (Asphalt), II, b 625
Chaparral, copse (California), IV, a 624
Chaparral-cock (Cuckoo), VI, b 607
Chapeau de Poil, Rubens's (School of Painting) (Ill.), XXI, b 458
Chapel (Architecture), II, b 405; Arena, Padua (Giotto), X, a 545; (Catacombs), V, b 184; of Jesus college (Cambridge), IV, a 647; of King's college (Cambridge), b 646; Royal, Savoy (London), XIV, a 848; St. Ferdinand (Neuilly-sur-Seine), XVII, b 371; St. George's (Windsor), XXIV, b 632, a b 633; St. John the Baptist (Genoa), X, a 139; St. John's college (Cambridge), IV, a 646; S. Maria della Spina (Pisano), XIX, b 131, b 132; St. Oran's (Iona), XIII, b 209; of Wykeham (Spalding), XXII, a 381. See CATHEDRAL CHURCH
CHAPELAIN, Jean, poet, V, b 343-4; (Academy), I, b 72, a 74; (France), IX, a 578; (Racine), XX, a 211, a 212
CHAPEL-HILL, North Carolina, village, V, a 344
Chapelle, Claude Immanuel Luillier, poet (Racine), XX, b 213
Chapelries (England), VIII, a 198
Chaplain, clergyman (Army), II, b 511-2; (Navy), XVII, b 301, 302, a b 303
Chaplet (Rosary), XX, a 871
Chaplin's apparatus (Distillation), VII, a b 229
Chapman, Dr., physician (Sea-sickness), XXI, *a* 641
——, Fredrik Henrik af, admiral (Sweden), XXII, b 794
CHAPMAN, George, poet, V, a 344-5; (Drama), VII, *a* b 373 note, a b 374, note; (English Literature), VIII, a 373; (Jonson), XIII, b 752, b 755
CHAPPE, Claude, inventor, V, a 345
Chappell, William, bishop (Milton, John), XVI, *a* 337
——, William, historian (Music), XVII, b 84 note
Chappuzeau, Samuel, writer (Tavernier), XXIII, b 90
CHAPTAL, Jean Antoine, chemist, V, a b 345; (Aëronautics), I, b 175
Chaptal's processes (Alum), I, a 569; for prints and books (Bleaching), III, b 713; for wine, XXIV, a 635
CHAPTER, V, b 345; (Cathedral), b 198, a b 199; (Church), *b* 15
—— House (Abbey), I, a 19, a 20, b 22, *a* 24; (Architecture), II, b 405
Chapters, origin of (Bible), III, a 558
CHAPU or Chapoo, town, V, b 345
Chapultepec (Mexico), XVI, a 217, a b 218, a *b* 230
Chara, genus (Botany) (Ill.), IV, *a* 127, b 143, a 144, b 145
Characeæ, order (Botany) (Ill.), IV, b 74, a b 94, b 95, b 98, a 104, b 126-7, b 143-4, b 146; (Biology), III, a b 599, b 600, a 601; (Herbarium), XI, a 642; (Reproduction), XX, b 435, b 436, b 437, b 443, b 444; (Vegetable Kingdom), XXIV, a b 137
Characene, kingdom (Mesopotamia), XVI, a 56; (Persia), XVIII, a 601
Characinidæ, family (Ichthyology), XII, b 691, a 708, b 709, a *b* 711, *a* 712, b 731
Character, recommendation (Master and Servant), XV, b 627
—— in species, divergence of (Variation), XXIV, b 86; inherited (Zoology), b 857
——, theory of (Schopenhauer), XXI, a 473
Characteristics (Shaftesbury), XXI, a *b* 768, b 770
Characters, Drama, VII, a 341-2, (Drama), a 347; Greek (Drama), b 351-2; Hindu (Drama), b 345; Italian (Drama), b 361, note; miracle-play (Drama), a b 359; Roman (Drama), b 354; Shakespearean (Drama), b 372-3
Characters, Ethical (Theophrastus), XXIII, b 297
CHARADE, V, b 345
Charadriidæ, family (Curlew), VI, b 628
Charadrius, genus (Killdeer), XIV, a 78; (Plover), XIX, a b 239
Charakas, school of (Sanskrit), XXI, *b* 291, a *b* 292, b 308
Charaka-Samhita (Surgery), XXII, a 707
Charana-vyúha (Sanskrit), XXI, a 293
Charans, race (Jodhpur), XIII, b 714
Chárá Punji, station (India), XII, b 777; (Khasi), XIV, *b* 60
Charas or churrus, resin (Hemp), XI, a 579; (India), XII, b 811
Charbon, disease (Murrain), XVII, a 65; (Woolsorter's Disease), XXIV, a b 698. See Anthrax
——, fungus (Lemon), XIV, a 438; (Orange), XVII, b 835
Charbon dur (Coal), VI, a 53; flenu (Coal), a 53; roux (Gunpowder), XI, b 285, a 287
Charbonnière, mineral spring (Rhone), XX, a 544
Charcas, province (Bolivia), IV, a 11
CHARCOAL, V, b 345-7; (Blowpipe), III, a 728; (Carbon), V, a b 77-8; (Filter), IX, a b 146, *a b* 147; (Gunpowder), XI, a b 283, *b* 284, a b 285-6, a 287, a b 289; (Ivory), XIII, a 534; (Oak), XVII, a 711
——, alder (Iron), XIII, a 299; burning (Gunpowder), XI, b 285, a 289; chemistry in furnace (Iron), XIII, b 317, a 319, a 348; finery (Iron), b 327; furnaces (Iron), b 324, a b 325, a 348; heat development of (Iron), b 321, a 322; heat (Iron), b 302; plates (Iron), b 327, b 367; smelting (England), VIII, a 206
—— poultice (Veterinary Science), XXIV, b 218
Charcot, Jean Martin, physician (Hystero-Epilepsy), XII, a 636
CHARD, borough, V, a 347

Chard, vegetable (Horticulture), XII, b 289, a 292
Chardak Lake (Asia Minor), II, b 619
Char Dagh, mountains (Balkan), III, b 243
CHARDIN, Sir John, traveller, V, a 347; (Compass), VI, *a* 202; (Ispahán), XIII, b 404, b 406; (Persia), XVIII, b 650
CHARENTE, department and river, V, a b 347; (Brandy), IV, *b* 194; (France), IX, b 446, b 457; (Wine), XXIV, a 639
CHARENTE-INFÉRIEURE, department, V, b 347
CHARENTON-LE-PONT, town, V, b 347
Chares, general (Timotheus), XXIII, b 425
—— of Rhodes, sculptor (Archæology), II, b 319
Chares, sculptor (Colossus), VI, a 149
Charette de la Contrie, François Athanase, general (France), IX, b 535, b 536
Charfreitag, fast (Good-Friday), X, b 688
Chargé d'affaires (Ambassador), I, b 577; (Consul), VI, a 281; (International Law), XIII, b 199
Charger (Horse), XII, a 195
Charges, common (Heraldry) (Ill.), XI, b 620, a b 622–8, b 629–30
Chargut-cho lake (Tibet), XXIII, b 362
Charibael of Zafar, sovereign (Yemen), XXIV, b 776
Charidemus, general (Demosthenes), VII, a 61
——, orator (Alexander the Great), I, a 426
Chârikâr, town (Afghânistân), I, a 207
Charing Cross (London), XIV, a 830, a b 832, b 834, b 838, a 850, a 857, b 861
—— bridge (Bridges), IV, b 292, a 308; (London), XIV, b 832
——, memorial (London), XIV, a 856; Railway, XX, a b 244
CHARIOT, V, b 347–8
—— racing (Circus), V, b 691; (Games), X, b 58, b 59–60; (Horse), XII, a 203
Charis, goddess (Graces), XI, a 24
Charisma, gift (Presbyter), XIX, *a b* 695
Charitable Trusts, XXIII, b 635; (Corporation), VI, a 384
CHARITIES, beneficent, V, a 348–9
——, English, singularity of, VIII, b 231; of Parsees, XVIII, b 332; primitive (Christianity), V, *b* 605, a 606, b 607
Charites, myths (Graces), XI, a 24; (Orchomenus), XVII, a 842; (Pindar), XIX, a 110
CHARITON, romancist, V, a 349; (Romance), XX, b 651
Charity (Buddhism), IV, a 384, a 391, a 392; (Jesus Christ), XIII, a 678; (Neri), XVII, b 355–6
—— -laws (England), VIII, b 229–30
—— Organization Societies (Workingmen, U. S.), XXIV, a 913
——, oriental (Caravanserai), V, a 76; Roman imperial (Antoninus Pius), II, b 122; (Faustina), IX, a 49
Charity Schools, Essay on (Mandeville), XV, b 479, a 480
Charivari, Le, journal (Caricature), V, a 93; (Gavarni), X, b 106
Charka, spinning wheel (Yarn), XXIV, b 766
Charlecote Park (Shakespeare), XXI, a 775, a 776, *b* 789, *a* 790
CHARLEMAGNE or Charles I. the Great, emperor, V, a 349–50; (Academy), I, a 68; (Adrian I.), b 150; (Aix-la-Chapelle), *a* 383; (Alcuin), *b* 417; (Arboriculture), II, b 275; (Arno), a 546; (Army), b 493, a 494; (Asbestos), b 590; (Chronology), V, a 619; (Coronation), VI, *a* 380; (Eginhard), VII, a b 605, note; (England), VIII, a b 255; (Fasting), IX, a 43; (Fehmic Courts), a 56; (Forchheim), b 346; (France), b 469–71, b 562; (Frankfort), a 623; (Friuli), b 694; (Germany), X, a 430–1, b 467; (Greece), XI, a 83; (Hamburg), b 364; (Holland), XII, *a* 73, b 87; (Illumination), a 746; (Image Worship), a 752; (Ingelheim), XIII, b 80; (Inquisition), b 98; (Irene), a 281; (Italy), a 479; (Leo III.), XIV, b 449–50; Libraries), a b 512; (Liturgy), b 713, a 714; (Louis I.), XV, b 17; (Milan), XVI, b 304; (Minden), a 358; (Miniature), b 457; (Mohammedanism), b 584; (Nicephorus I.), XVII, a 495; (Otho III.), XVIII, a 70; (Paderborn), a 135; (Paulus Diaconus), a 447; (Popedom), XIX, *b* 510, a 511; (Rashi), XX, b 296; (Renaissance), a b 394; (Roland), b 641, *a* 642; (Roussillon), XXI, b 33; (Salic Law), a 224, *a* b 225, a 226, a 227; (Saxony), a b 367; (Schleswig-Holstein), a b 433; (Spain), XXII, a 326; (Talmud), XXIII, b 43; (Titles of Honor), a 445, note; (Universities), b 887; (Worms), XXIV, b 720
—— coinage of (Money), XVI, a 753; court of (Scholasticism), XXI, a 435; in Italy (Rome), XX, b 803–4; legends of (Chess), V, b 520; reform of writing under (Palæography), XVIII, a 164–6; Twelve Peers of (Romance), XX, a 666–70; works on (Romance), b 677
——, *History of* (Turpin), XXIII, b 711
CHARLEMAGNE, Jean Armand, dramatist, V, b 350
CHARLEMONT, fortress, V, b 350; (Givet), X, b 558
——, J. Caulfield, earl of, statesman (Grattan), XI, b 55
CHARLEROI, town, V, b 350; (Coal), VI, a 52, *a* 53; (Hainault), XI, a 336; (Wellington), XXIV, a 525
Charles, island (Galapagos Islands), X, *b* 17
——, river (Boston), IV, b 64, b 65
Charles, name. See Carlos and Karl
CHARLES II. the Bald, emperor, I. of France, V, b 354–5; (Aquitania), II, b 203; (Erigena), VIII, b 462; (France), IX, a *b* 471–2; (Germany), X, *a b* 431–2; (Hincmar), XI, b 746, *a* b 747; (Holland), XII, a b 73; (Hymns), b 617; (John VIII., pope), XIII, a *b* 721; (Louis I.), XV, a 18; (Louis the German), XV, a 19; (Popedom), XIX, b 511
CHARLES III. the Fat, emperor, II. of France, V, a 355; (France), IX, *b* 472; (Germany), X, a 432; (Paris), XVIII, b 263
CHARLES IV. of Luxembourg, emperor, V, a 358; (Bohemia), III, a b 748; (Frankfort), IX, a 623; (Germany), X, b 443, a 444; (Golden Bull), a 674; (Petrarch), XVIII, a 722; (Prussia), XX, a 7; (Rome), a 819; (Siena), XXII, b 45, *a* 46; (Universities), XXIII, a *b* 892, *a* 893, a b 895; (Urban V.), XXIV, a 13
CHARLES V., emperor, V, a 358–62
  abdication, b 361
  authorities, b 362
  Diet of Worms to death of Francis I., a 359–60
  inheritance of, a b 358
  Maurice of Saxony period, a 361
  policy of, a b 362
  reformation wars, a b 360
  state of Europe at accession of, b 358–9
  Yuste period, b 361–2

—— (Alamani), I, a 391; (Algeria), a 499; (Alhambra), *a* 503; (Astrology), II, b 649; (Castiglione, B.), V, a 170; (Clement), b 718; (Cordova), VI, a 346; (Coronation), *a* 380, a 381; (Cortes), a *b* 391; (Cranach), b 482; (Ferdinand I.), IX, a 68; (Fortification), a 380; (France), b 489, *a* b 490, *b* 492, *a* 493; (Francis I.), b 607–8; (Frankfort), b 623; (Fugger), b 712; (Furniture), *a* 746; (Garcilaso de la Vega), X, *b* 67; (Germany), b 446–8; (Ghent), a 505; (Granvella), XI, b 46; (Guelderland), *b* 216; (Henry VIII.), *b* 591, a *b* 592; (Holland), XII, b 76–7; (Innsbruck), XIII, b 93; (Italy), b 492; (John, Don), a b 727; (John III., Portugal), b 725; (Luther), XV, b 75, a b 76, a 77, a b 78, b 80, a 81, a 82, a b 83, a 84, a 85; (Malta), a b 345; (Mary I.), XV, b 599, a b 600; (Masaniello), b 612, a b 613; (Maurice of Saxony), b 644–5; (Medical Jurisprudence), XV, a 793; (Medici), b 797, a 798, b 800; (Milan), XVI, b 305; (Palermo), XVIII, b 173, b 174; (Peru), a 691; (Philip II.), b 757, a 758; (Reformation), XX, b 340–2, a b 346, b 347, a 348; (Renaissance), a 402; (St. John of Jerusalem), XXI, b 183; (Savoy), *b* 356, a 357; (Sicily), XXII, a b 146; (Siena), *a* 48; (Slavery), a b 146; (Spain), b 342–3, b 360; (Titian), XXIII, *a* 442, b 443, b 444; (Trent, Council of), *a b* 579, b 580, a b 581, a b 582; (Tunis), a 661; (William of Orange), XXIV, b 614
CHARLES VI., emperor, V, b 362–3; (Austria), III, b 110–11; (France), IX, *a* 513; (Fux), a b 752; (Germany), X, b 450–1; (Hungary), XII, a 385; (Peterborough and Monmouth), XVIII, b 714; (Pragmatic Sanction), XIX, a b 677; (Spain), XXII, *a b* 350, *b* 351, a *b* 352, *a* 353
CHARLES VII., emperor, V, a 363; (Austria), III, a 111; (Germany), X, a 451
CHARLES I., England, V, b 350–3; (Abbot, Geo.), I, *a* 30; (Army), II, *a* 499; (Bedford Level), III, *a* 416; (Birmingham), b 683; (Bowls), IV, b 163; (Bristol), *a* 316; (Buckingham), a 375–6; (Carisbrooke), V, b 94; (Clarendon), *b* 703; (Cryptography,), VI, b 593; (Dobson), VII, b 268; (Eliot), VIII, b 129–30; (Embroidery), b 149; (England), b 309–12; (England, Church of), b 338; (Fairfax, Lord), a *b* 746; (Ferdinand VII., Spain), IX, a 74; (Finance), a b 157; (Forests), a 361; (Fuller, T.), *a* 715; (Gauden), X, *b* 98; (Gloucester), b 614; (Golf), b 681; (Harrington), XI, *a* 440; (Harvey), b 448, *a* 449; (Henderson), a b 581; (Henrietta Maria), a b 584; (Honthorst), XII, *a* 147; (Horse), a 186, a 204; (Hymns), b 624–5; (Inverary), XIII, a 205; (Ireland), b 272, a 273; (Jameson, Geo.), b 572; (Jonson), a 754; (Land), XIV, a 347; (Liverpool), a 723; (London), a 834, a 859; (Maidenhead), XV, b 296; (Maidstone), a 297; (Middleton), XVI, b 295; (Milton, John), a 339, b 340, b 343, a b 344; (Montrose), a b 822–3; (Navy), XVII, a 290; (Presbyterianism), XIX, b 700, a b 702–3, a b 708, notes; (Rubens), XXI, a b 50; (Rupert), b 67 a 68; (Santander), b 312; (Scotland), a 533–6; (Stafford), XXII, *b* 613, a *b* 614, *a* 615; (Taylor), XXIII, *b* 100; (Tonnage and Poundage), a 472; (Usher), XXIV, *a* 22; (Van Dyck), b 68, a *b* 69, a b 70; (Waller), b 350, *a* 351; (Wig), b 591; statue of (Sculpture), XXI, a 587

CHARLES II., England, V, b 353-4; (Admiral), I, b 142; (Archery), II, a 326; (Argyll), b 438; (Blake), III, b 698; (Bunyan), IV, b 472-3; (Burnet), *a* 502; (Catherine Braganza), V, b 206; (Clarendon), *b* 703, *a b* 704; (Coffee), VI, a 101; (Corn Laws), b 363; (Costume), a b 420; (De Witt), VII, *b* 125; (Dundee), b 463, a 464; (D'Urfey), a 483; (England), VIII, b 312-14; (Finance), IX, a 158; (France), b 507; (Halifax, Marquis), XI, b 345; (Hobbes), XII, a b 37, b 40; (Horse), a 186, b 204; (Hudson's Bay Co.), a 347; (Independents), *a* 766; (Ireland), XIII, a 226, b 273-4; (James II., Eng.), b 569; (Jeffreys), a b 629; (Ken), XIV, *b* 35; (Leighton), a b 428; (London), a 833, b 859-60; (Marvell), XV, a 596; (Milton, John), XVI, b 344; (Mint), b 505, a 506; (Monk), a 779; (Monmouth), b 781-2; (Montrose), a 823; (Navy), XVII, b 290; (New York), a 467; (Oates), *b* 716, *a* 717; (Ormonde), *b* 879, *a b* 880; (Owen), XVIII, b 89, a 90; (Poor Laws), XIX, b 480-1; (Portsmouth), b 550; (Portugal), a 564; (Presbyterianism), a 703, b 709, a b 710; (Rochester), XX, b 630; (Salmasius), XXI, b 230; (Schomberg), a 449; (Scotland), *a* b 536, a 537-8; (Shaftesbury), b 764, a *b* 765, a *b* 766; (Sharp), a b 816; (Slavery); XXII, b 906; (Temple), XXIII, *b* 187-6; (Vane), XXIV, a 73; (Waller), b 350, b 351; (Worcester), b 701; (Wren), *b* 724; (Wycherley), b 741, a 742, *b* 743

——, court of (Gramont), XI, b 39-40; court of (Pepys), XVIII, a 532

——, marriage treaty of (Galle), X, b 37; religious legislation under (Quakers), XX, a b 155, *b* 158

CHARLES I. the Bald, France. See Charles II., emperor

Charles II. the Fat, France. See Charles III., emperor

CHARLES III. the Simple, France, V, a 355; (France), IX, b 472, *a* 473; (Normandy), XVII, a 553; (Péronne), XVIII, a 564

CHARLES IV. the Fair, France, V, a 355; (France), IX, a 481

CHARLES V. the Wise, France, V, a 355-6; (Charles II., Navarre), a 367; (France), IX, b 482-3, b 570; (Inquisition), XIII, b 99; (Libraries), XIV, b 513, b 523; (Paris), XVIII, a b 295; (Spain), XXII, *a* 335; (Sumptuary Laws), 678

CHARLES VI., France, V, a 356; (Catherine Valois), b 206; (France), IX, b 483-4; (Glendower), X, a 605; (Paris), XVIII, b 295, a b 296

CHARLES VII. the Victorious, France, V, a 356-7; (Army), II, b 494; (France), IX, a 485-6; (Joan of Arc), XIII, b 706; *a b* 707 (Paris), XVIII, a b 296; (Poitiers), XIX, b 294; (Universities), XXIII, a b 897

CHARLES VIII. France, V, a 357; (Alexander VI.), I, a 432; (Comines), VI, a 174; (Ferdinand V., Castile), IX, a 72; (Florence), b 293, a 294; (France), b 488; (Gonzalo Fernandez y Aguilar), X, a 688; (Italy), XIII, a b 491; (Julius II.), a 781; (Paris), XVIII, b 296; (Pico), XIX. b 89; (Reformation), XX. b 336; (Savonarola), XXI. *a* 351

CHARLES IX., France, V, a b 357; (Catherine de' Medici), *b* 205; (Chronology), a 619; (Coligni) VI, a b 127; (France), IX, b 493, *a* b 495; (L'Hôpital), XIV, *b* 503; (March), XV, a 540; (Paris), XVIII, b 296; (Ronsard), XX, a 864; prophecy against (Knox), XIV, b 134

CHARLES X., France, V, b 357-8; (Edinburgh), VII, b 575; (France), IX, a 527, a 536, *a b* 545-6; (Guizot), XI, *b* 238-9; (Jesuits), XIII, b 666; (Marat), XV, a 534; (Paris), XVIII, a 299

CHARLES I., Naples, count of Anjou, V, b 366-7; (Clement IV.), a 718; (Dante), VI, b 713; (France), IX, a 479, a 480; (Italy), XIII, a 486; (Nicholas III.), XVII, b 497; (Popedom), XIX, a b 515; (Rome), XX, *a b* 815; (Sicily), XXII, b 32-3

—— II., Naples (Anjou), II, b 52; (Nicholas IV.), XVII, b 497; (Sicily), XXII, *a b* 33; (Spain), a b 347-9

—— III., Naples (Filangieri), IX, b 139, a 140; (Rome), XX, b 820; (Urban VI.), XXIV, b 13; (Velletri), b 148

CHARLES II., Navarre, the Bad, V, a 367; (Charles V.), b 355; (Spain), XXII, a 338

—— III., Navarre (Spain), XXII, a 339

CHARLES IV., Navarre, V, a 367

Charles, king of Roumania, Hohenzollern - Sigmaringen, XXI, b 26-7

Charles I., Spain. See CHARLES V., Emperor

CHARLES II., Spain, V, a 363

CHARLES III., Spain, V, a b 363; (Jesuits), XIII, b 665; (Parma), XVIII, b 320; (Spain), XXII, *a b* 352, *a b* 353, a 354-6

CHARLES IV., Spain, V, b 363; Godoy, I, a b 417; (Napoleon I.), XVII, b 219-20; (Spain), XXII, a 356-8

—— V., Spain (Jimenes), XIII, *b* 704, a 705

Charles VIII., Knutsson, king of Sweden, XXII, a b 785

CHARLES IX., Sweden, V, b 363; (Sweden), XXII, *b* 786-7, a b 792

CHARLES X., Gustavus, Sweden, V, b 363-4; (Christina), b 610; (Denmark), VII, b 75; (Pufendorf), XX, a 105, a 106; (Sweden), XXII, *a* 788

CHARLES XI., Sweden, V, a 364; (Sweden), XXII, a b 788

CHARLES XII., Sweden, V, a 364-6; (Bender), III, b 480; (Denmark), VII, a b 76; (Joseph I.), XIII, a 760; (Mazeppa), XV, b 660; (Peter I.), XVIII, a 712; (Poniatowski), XIX, b 467; (Prussia), XX, b 12; (Russia), XXI, *b* 105; (Saxony), a b 370; (Sweden), XXII, b 788-9, *b* 793; (Voltaire), XXIV, *b* 307, a 313

CHARLES XIII., Sweden, V, a 366; (Gustavus IV.), XI, *b* 299; (Sweden), XXII, b 790

Charles XIV., Sweden. See BERNADOTTE

CHARLES XV., Sweden, V, a b 366; (Sweden), XXII, a b 791, b 796

Charles, king of Würtemberg, XXIV, b 738

CHARLES the Bold, of Burgundy, V, b 367-8; (Chastelain), b 377; (England), VIII, b 294; (France), IX, b 487-8; (Frederick IV.), a b 645; (Frisians), b 692; (Guelderland), XI, b 216; (Switzerland), XXII, *b* 825, *a b* 826

—— of Denmark, count of (Flanders), IX, *a* 254

—— II., archduke of Gratz, XI, a 58

—— of Guise. See GUISE

—— I., landgrave (Hesse-Cassel), XI, b 696

Charles I., Lorraine, duke (France), IX, b 473

—— III., duke (Lorraine), XV, b 8

—— IV., duke (Lorraine), XV, b 8; (Mohács), XVI, a 568

—— of Orleans, poet. See ORLEANS

—— II., duke of Parma, XVIII, b 320

—— II., duke of Piedmont (Waldenses), XXIV, a 344

—— of Prussia or Prince Frederick Charles Nicholas, general, *b.* 1828, *d.* 1885 (St. John of Jerusalem), XXI, a 184; (War), XXIV, *a* 373. See Frederick Charles

Charles I., duke (Savoy), XXI, b 356

—— III., duke (Savoy), XXI, b 356-7

Charles I. of Valois, son of Philip III. (Pedro III.), XVIII, a 461

—— II. and count of Anjou (Dante), VI, b 714

Charles I. Alexander, duke of Würtemberg, XXIV, a 738

—— II., Eugene, duke of Würtemberg (Schiller), XXI, *b* 412, a 413; (Würtemberg), XXIV, a 738

Charles E., critic (Bacon, Roger), III, b 189, note, b 190, a b 191

——, Jacques Alexander Cæsar, physicist (Aëronautics), I, a b 170, a 171; (Chemistry), V, b 405; (Gay-Lussac), X, b 109, note

——, Michel, mathematician (Geometry), X, a 349, b 366

——, Thomas, of Bala (Bible (Societies), III, b 561; (Methodism), XVI, b 201

—— Albert of Bavaria, III, a 392

CHARLES ALBERT, Sardinia, king, V, b 368-9; (Army), II, a 535; (Austria), III, a 119, a 120; (Cavour), V, b 238; (Gioberti), X, *b* 540; (Mazzini), XV, b 661, a b 662; (Palmerston), XVIII, a 200; (Radetzky), XX, b 218-9; (Savoy), XXI, b 357-8

CHARLES AUGUSTUS, Saxe-Weimar, grand-duke, V, a 369; (Saxe-Weimar), XXI, *b* 365-6; (Weimar), XXIV, *a* b 519

—— de Blois or de Chatillon, duke of Brittany (Du Guesclin), VII, a 447

Charles Carricoli, Gent (Clive), VI, a 10

CHARLES EDWARD, pretender, V, a 369-70; (Albany, Countess of), I, b 397; (Carlisle), V, b 96; (Cumberland), VI, a 623; (Dumfries), VII, b 456; (England), VIII, b 318; (Stafford), XXII, a 460

CHARLES EMMANUEL I., Savoy, duke, V, b 370; (Geneva), X, b 134; (Savoy), XXI, a 357

—— Emmanuel II., duke (Savoy), XXI, a 357; (Waldenses), XXIV, b 345

—— Emmanuel III., king, Sardinia (Savoy), XXI, b 354, b 357; (Venice), XXIV, b 158

—— Emmanuel IV., king, Sardinia (Savoy), XXI, b 357

Charles et Georges affair (Portugal), XIX, a 569

Charles Felix, Sardinia, king (Charles Albert), V, b 368; (Savoy), XXI, b 357; (Saxe-Weimar), a 366

Charles Louis, mountains (New Guinea), XVII, a 396

CHARLES LOUIS, Austria, archduke, V, a b 367; (Austria), III, *a* b 114, b 115, *a b* 116; (France), IX, a 537, *b* 538; (Napoleon I.), XVII, a 205, b 216, b 220, *a* 221

—— Louis, Palatine elector (Pufendorf), XX, *a* 105

CHARLES MARTEL, Austrasia, V, b 370; (France), IX, a b 469; (Germany), X, a *b* 429

Charles O'Malley, novel (Lever), XIV, a *b* 485, a 486

—— Philip, Palatine elector (Mannheim), XV, b 501

—— Robert of Anjou, king, Hungary (Capet), V, a 50; (Hungary), XII, a 383

—— of Viana, heir of Navarre (Spain), XXII, *a* b 339

—— William of Baden, margrave (Carlsruhe), V, b 99, a 100

Charles's areometer (Hydrometer), XII, b 570

Charles's law of gases (Elasticity), VII, a b 706, a 707; (Gay-Lussac), X, b 110; (Molecule), XVI, b 633, a 636, a 644, b 645; (Pneumatics), XIX, a b 255; (Steam-Engine), XXII, a

Charles's law of gases, *continued*
497–8; (Thermodynamics), XXIII, a 307
CHARLESTON, S. C., city, V, b 370–1; (Artesian Wells), II, a b 565; (South Carolina), XXII, a b 301, a *b* 302; (United States), XXIII, a b 856; Convention of, 1860 (United States), b 820; jetties (River Engineering) (Ill.), XXI, a b 592, b 593, a 595, *b* 596
——, West Virginia, town, XXIV, *b* 547
CHARLESTOWN, Boston, Mass., V, b 371–2; (Boston, U. S.), IV, *b* 64, b 65, *b* 66; (Ursulines), XXIV, a 19 note
——, Nevis, XVII, b 378
——, West Virginia, XXIV, *b* 547
CHARLET, Nicolas Toussaint, painter, V, a 372
Charleton or Charlton, Walter, naturalist (Ornithology), XVIII, b 8 note; (Stilt), XXII, a 580
CHARLEVILLE, town, V, a 372; (Mézières), XVI, b 231
CHARLEVOIX, Pierre François Xavier de, historian, V, a b 372
Charlier, schoolman. See GERSON
Charlot, Carlovingian prince (Romance), XX, b 668, a b 669
Charlotte, bay (Florida), IX, b 296
Charlotte Amalie, town (St. Thomas), XXI, *a* 210
—— Amalie, duchess (Saxe Meiningen), XXI, a 364
—— Augusta, princess of England (Brougham), IV, a b 339; (Deluc), VII, *a* b 48; (George IV.), X, b 384, a b 385
Charlotte van Bourbon (Holland), XII, b 100
"Charlotte Dundas," boat (Steam-Engine), XXII, b 496
Charlotte of Mecklenburg-Strelitz, queen of England (D'Arblay), VI, b 723; (George III.), X, a 381
CHARLOTTENBURG, town, V, b 372
Charlottesville, Canada (Mineral Waters), XVI, a 456
CHARLOTTESVILLE, town, Va., V, b 372
CHARLOTTE-TOWN, V, b 372; (Prince Edward Island), XIX, *a* 760
Charlotteville, town (Dominica), VII, b 307
Charlton-upon-Woolwich, village (London), XIV, a b 831
Charm (Corals), VI, a 344; medicinal (Cameo), IV, b 653. See MAGIC
Charmers, cobra (Snakes), XXII, a *b* 207
Charmettes, village (Chambéry), V, a 331
Charmides, dialogue (Plato), XIX, b 207, a 208, b 221
Charmides of Athens, painter (Phidias), XVIII, b 747
Charmoise sheep (Breeds), IV, b 220
Charnacé, Hercule Girard, Baron de, political agent (France), IX, *b* 509
Charnay, Desiré de, archæologist (Tuluca), XXIII, a 465; (Yucatan), XXIV, b 796, *a b* 797, b 798
Charnel houses (Architecture), II, b 405
Charnock, Jacob, founder of Calcutta (Barrackpur), III, b 336; (India), XII, a 840
Charnoy, village (Charleroi), V, b 360
Charnwood, forest (Coal), VI, b 48; (Leicester), XIV, a *b* 424
Charobert, king of Hungary. See Charles Robert
Charollais, district (Charolles), V, b 372; mountain (Saone-et-Loire), XXI, a 316
CHAROLLES, town, V, b 372
CHARON, myth, V, b 372
—— of Lampsacus, historian, (Troad), XXIII, a 618
CHARONDAS, lawgiver, V, b 372–3
CHARPENTIER, François, archæologist, V, a 373; (La Bruyère), XIV, a 179
——, J. F. G. de, geologist (Agassiz), I, b 246, *a* 247; (Glacier), X, *b* 560–1, b 562
Charqui, food (Chili), V, a 542; (Preserved Food), XIX, b 726–7
Charr, fish (Salmonidæ), XXI, b 232, *b* 233, *a* 234, a 236
Charran, district (Haran), XI, a 406
Charrière, Madame Saint-Hyacinthe de, novelist (Switzerland), XXII, b 837
CHARRON, Pierre, philosopher, V, a 373–4; (France), IX, a 576; (Montaigne), XVI, a 797; (Scepticism), XXI, b 399
Charruas, tribe (America), I, *b* 603; (Argentine Republic), II, *b* 430; (Indians), XII, b 869; (Uruguay), XXIV, *a* 21
Charta, kinds of (Papyrus), XVIII, b 236, a 237; bombycina (Paper), a 231, a 222
Charta Regia (Agapetus), I, b 245
Chart of charity (Cistercians), V, b 693
—— of Medina (Navigation), XVII, a 259
CHARTER, V, a 374–5; (Bristol), IV, *b* 315, a 316; (Harvard College), XI, a b 447; (Plymouth), XIX, a 249; (Stephen, Eng.), XXII, b 560–1; (Waterford), XXIV, b 423
—— colonies (United States), XXIII, a *b* 778, a b 783, a 784
——, Golden, 1482 (Edinburgh), VII, b 572
—— of Henry I., Eng. (Knighthood), XIV, b 104 note; of Mt. Grace, Yorkshire (Abbey), I, b 26; oak (Hartford), XI, b 444; Penn's (Philadelphia), XVIII, a 752; (Penn), b 505–6, a 508; Virginia, 1606 (United States), XXIII, a 777
Chartergus, genus (Wasps), XXIV, b 413
Charter-hand writing (Typography), XXIII, a 725
Charter-house of London (Abbey), I, a 27; (Grote), XI, b 189; (London), XIV, b 844, a 856, b 858; (Thackeray), XXIII, a b 232
CHARTER-PARTY, V, a 375; (Average), III, b 129
Charters (Channel Islands), V, a 341; (Chester), b 525, a b 526; (Company), VI, a b 197; (Corporation), a b 383; (Finance), IX, b 156; (Holland), XII, *b* 74, a 75; (London), XIV, a b 854, a b 855, a b 860; (New York), XVII, *a* 467, a b 475; (Oxford), XVIII, a 103
——, American (Universities), XXIII, b 959; ancient (Cinque Ports), V, b 687; (Swansea), XXII, b 771
—— of Bank of England (Banking), III, b 273, 275; East India Company (India), XII, a 850; English (Diplomatics), VII, a b 221, a 222; English MSS. (Palæography) (Ill.), XVIII, b 163, a 164, b 165, a 166; first German imperial (Universities), XXIII, *b* 898; French (Borough), V, b 55; the great (Hemingford), XI, b 576; mediæval (Municipalities), XVII, a 35; rise of (Scotland), XXI, *b* 505, b 506; State control of (United States), XXIII, a 834
Charters, Tithe, Ethelwulf's (Swithun), XXII, b 814
Charters Towers (Queensland), XX, a b 178, b 179, note, a 181
CHARTIER, Alain, poet, V, b 375; (France), IX, *b* 569, b 570
Charting (Surveying), XXII, b 750–4; details for (Surveying), a 745–8
CHARTISM, reform, V, b 375–6; (Ballot), III, b 249; (Birmingham), a 683; (Campbell), IV, a 670; (England), VIII, b 327; (Methodism), XVI, b 198; (Police), XIX, b 351; (Socialism), XXII, b 221
CHARTRES, city, V, a b 376. See Cathedral of Chartres
——, school of (Scholasticism), XXI, a 439, b 441
CHARTREUSE, V, b 376–7; (Carthusians), a *b* 143
——, cordial (Liqueur), XIV, a 693
Chartreuse de Parme (Beyle), III, b 737
Chartrez, William de, grandmaster (Templars), XXIII, b 177
Charts, American hydrographic (California), IV, *a* 616; Cortes system, XVII, b 259; isobaric (Meteorology), XVI, a b 119; list of (Map), XV, b 529–30; loxodromic (Map), b 525; lunar (Astronomy) (Ill.), II, a 701
—— Mercator's (Map), XV, b 527–8; (Navigation), XVII, b 259, a *b* 260, b 261
—— nautical (Admiralty), I, a 148; (Map), XV, b 525–6; (Navigation), XVII, a b 269; (Surveys), XXII, b 939–40. See MAP.
—— of temperature (Meteorology), XVI, a 119; of weather (Signal Service), XXII, a b 904
Chartularies (Diplomatics), VII, b 220
Chârvâkas, sect (Sanskrit), XXI, a 306
Charybdea, genus (Hydrozoa) (Ill.), XII, b 584, *a* b 585, *b* 588, a b 589, *a* 593
CHARYBDIS, vortex of, (Scylla), XXI, a 601; (Whirlpool), XXIV, a 571, *a b* 572
Chascomus, town (Buenos Ayres), IV, a 394
Chasdai Ibn-Shafrût, rabbi (Khazars), XIV, a 61, b 62–3
Chase (Hunting), XII, b 409–11; as an art (Fine Arts), IX, b 174–5. See Game, GAME LAWS, HUNTING
—— printer's (Typography), XXIII, a 746, b 756
CHASE, Salmon Portland, chief justice, V, a b 377; (United States), XXIII, b 818
——, Samuel, justice (Impeachment), XII, b 756
Chasi, river (Zaire), XXIV, b 801
Chasidim, sect (Jews), XIII, b 691–2, b 697. See Asidæans
Chasing, decoration (Enchasing), VIII, a 173
Chasles, Michel, geometer (Mathematics), XV, b 636; (Ptolemy), XX, b 93, note; theory of (Curve), VI, a b 641
Chasna, town (Canary Islands), IV, b 705
Chasse, David Henri, baron de, general (Fortification), IX, b 404
Chasseaud, author (Druses), VII, a 419, b 420
Chasseloupe, François, marquis de, engineer (Fortification), IX, a 406, a 407, a b 409, b 410
Chasseron, mountain (Jura), XIII, a 791
Chastaigner de la Roche Pozay, Louis (Scaliger), XXI, b 378, *a* 379
CHASTELAIN, Georges, chronicler, V, b 377; (Retz, Gilles de), XX, a b 270
CHASTELARD, Pierre Boscobel de, poet, V, b 377–8; (Mary Stuart), XV, b 601–2
Chastenoy, Peace of, 1576 (France), IX, b 495
Chastes, Aymar de, governor (Geography), X, a 166
Chastity in chivalry (Knighthood), XIV, b 127; Vow of (Jesuits), XIII, a 657; XXIV, a 322; (Vesta), a 210
Chasuble, priest's (Costume) (Ill.), VI, b 408–9
Chat, bird (Ornithology), XVIII, a 37, b 51; (Wheatear), XXIV, a 567, note
——, cape (St. Lawrence), XXI, a 191
Châtaignerie, François de Vivonne de la (Duel), VII, a 442

Château Barrière, ruins (Périgueux), XVIII, b 545
CHATEAUBRIAND, François René, usually Auguste, Viscount de, V, a 378–9; (Fesch, J.), IX, a 99; (France), a b 592; (Newspapers), XVII, b 435–6; (Recamier), XX, a 322; (Rousseau, J. J.), XXI, b 32
CHATEAUBRIANT, town, V, b 379
Château-Chinon, town (Nièvre), XVII, a b 509
CHATEAUDUN, town, V, b 379
Château Gaillard (Andelys), II, b 14
—— Garaye, La (Dinan), VII, a 211
Chateaugay iron ores (United States), XXIII, a b 867
CHATEAU-GONTIER, town, V, b 379–80
Château de Madrid, Paris (Robbia), XX, a 608, note
Châteauneuf, spa (Puy de Dôme), XX, a 126
——, suburb (Chatelleraut), V, a 380; (Tours), XXIII, b 522, *a* 523
——, François, Abbe de (Voltaire), XXIV, b 305, a 306
——, William de, grandmaster (St. John of Jerusalem), XXI, a 183
—— Randon, fortress (Du Guesclin), VII, b 447
Château d'Oleron, town. See OLERON
——, Petit (Chantilly), V, a 343
CHATEAUROUX, town, V, a 380
CHATEAU-THIERRY, town, V, a 380
—— Yquem wine, XXIV, b 637, a 638
Châteaux de France (Gozlan), XI, a 22
Chateillon, Sebastien, theologian (Canticles), V, b 30
Châtelet, Gabrielle Emilie le Tonnelier de Breteuil, marquise du (St. Lambert), XXI, b 186; (Voltaire), XXIV, b 307, *a b* 308, a b 309
Châtelguyon, spa (Puy de Dôme), XX, a 126
Chatelherault, palace, Scotland (Hamilton), XI, b 367
Châtelier process, for steel (Iron), XIII, b 355, note, a b 357
CHATELLERAULT, town, V, a b 380; (Vienne), XXIV, *a* 240
Chater river (Rutland), XXI, b 122
Chatfield, Allen, translator (Hymns), XII, b 613, a 614
Chatham, bay (Florida), IX, b 269
——, island (Galapagos Island), X, *b* 17
CHATHAM, town (Ill.), V, b 380–1; dockyard, VII, b 269, b 270–1, a 273, 275; engineers' school at (Army), II, a 513; fortifications (Chatham), V, a 381; public works (Prison Discipline), XIX, *a* b 775
——, Hester Grenville Pitt, countess of (Chatham), V, a 383
——, John Pitt, second earl of, general (Flushing), IX, a 307; (Londonderry), XIV, b 865; (Pitt), XIX, a 145, b 154
CHATHAM, WILLIAM PITT, earl of, V, a 381–5
  Bute cabinet, a b 383
  death of, b 384
  education, a 381
  estimate of, b 384
  Newcastle cabinet, b 382–3
  Pelham cabinets, b 381–2
  premier, b 383–4
  Walpole cabinet, b 381
—— (Burke), IV, b 483, b 484, a *b* 485, a 486; (Bute), *a* b 518; (England), VIII, a b 319, *a* b 320–1; (George II., III.), X, *b* 380, *a b* 381; (Granville), XI, *b* 47; (Grattan), b 54; (Mansfield), XV, *b* 506, a 507; (Parliament), XVIII, b 314; (Pitt), XIX, a b 143, b 144, a 145, b 152; (Townshend), XXIII, *b* 524, a 525; (United States), a 781, a 783, *a* 786, *a* 788; (Wilkes), XXIV, b 597; (Whig and Tory), *b* 570; (Wolfe), *a* 664
CHATHAM ISLANDS, V, a 385; (New Zealand), XVII, a 479, a 482 note
Châtillon, Gaultier de, poet (Romance), XX, b 656, note
——, Renaud de, crusader (Egypt), VII, b 653, a 654
—— Conferences (Napoleon I.), XVII, *a* 228
CHATILLON-SUR-SEINE, town, V, a 385
Chatisgarh, district. See CHHATISGARH
Chat Moss, bog (Agriculture), I, b 358–9; (Lancashire), XIV, a 253; crossing (Railway), XX, a 241
Chatouilleur, theatrical (Claque), V, b 700
Chatra, town (Házaribágh), XI, *a* 489
CHATSWORTH, seat of duke of Devonshire, V, a b 385; (Paxton), XVIII, b 450
Chattahoochee river (Columbus, Ga.), VI, b 153; (Georgia), X, *b* 390–1
CHATTANOOGA, city, V, b 385; (Tennessee), XXIII, a 191
——, battle of, 1863 (Sanitary Commission), XXI, b 901, a 903; (Thomas), XXIII, b 938; (United States), b 826–7, a 837
Chattels (Husband and Wife), XII, b 416–7; distinctions of (Personal Estate), XVIII, b 677
Chatterer, bird (Waxwing), XXIV, *b* 486
CHATTERTON, Thomas, poet, V, 385–9
  apprenticeship, a 387–8
  education, a 385–6
  in London, b 388–9
  Rowley romance, b 386–9
Chatterton, play (De Vigny), VII, b 117; (Vigny), XXIV, b 243, *a* 244
Chatterton's compound (Telegraph), XXIII, b 121
Chatti, people (Hesse), XI, a 696
Chatto, William Andrew, antiquary (Cards), V, a 88, *a* 89
Chaturanga, game (Chess), V, *b* 519, *a* 520
Chatwin, John, inventor (Button), IV, b 532
Châu, house of (Mencius), XVI, b 7, a 8, a 9
Chaubisi, rājās, district (Nepāl), XVII, a 349
CHAUCER, Geoffrey, poet, V, a 389–3
  authenticity, b 390–1
  chivalry, poet of, a 392–3
  dates of poems, a b 391
  documentary biography, a 389–90
  foreign influences, b 391–2
  personal biography, a b 390
—— (Accent), I, b 78; (Blake), III, a 700; (Boccaccio), III, a 733, a 734; (Boetius), b 744; (Burns), IV, b 506, b 507, a 508; (Compass), VI, a 203; (England), VIII, b 292; (English Language), b 354–5, 359; (English Literature), *b* 367–8; (Fable), a 734; (France), IX, b 564; (Geoffrey of Monmouth), X, a 155; (Gilly-flower), b 536; (Gower), XI, a 20; (Henryson), a 604; (London), XIV, a 856; (Minstrel), XVI, b 502; (Prior), XIX, a 762; Society (Boccaccio), III, a 734, note
Chauci, tribes (Germany), X, a 425, b 426, a 427
CHAUDES-AIGUES, town, V, a 393
Chaudet, Antoine, sculptor (Sculpture), XXI, a 590
Chaudière falls (Ottawa), XVIII, b 71
Chaudière river (Gold), X, b 661; (Ottawa), XVIII, b 71; (Quebec), XX, *a* 172, b 173
Chaufepié, J. G. de (Encyclopædia), VIII, b 177
Chauhans, clan (Máinpuri), XV, *a* b 306
Chaulelasmus, bird (Gadwell), X, b 7
Chauliac, Guy de, physician (Surgery), XXII, a 710
Chaulieu, Abbé de, poet (France), IX, b 584
Chaulnes, Michel Ferdinand, Duc de (Graduation), XI, a 27, a 28
Chaumière Indienne (Saint Pierre), XXI, b 205, *a* 206
CHAUMONT, town, V, b 393; (Châtillon-sur-Seine), a 385
——, F. de, hygienist (Hygiene), XII, *b* 603
Chauna, bird (Screamer), XXI, *a* 578
Chauncy, Charles, divine (Universalists), XXIII, a 886
Chaunskaya Bay (Maritime Province), XV, b 554
CHAUNY, town, V, b 393
Chauringhi, quarter (Calcutta), IV, a 583
Chaussé, island (Howe), XII, b 337
Chaussée, Pierre Claude Nivelle de la, dramatist (Drama), VII. b 368, note
Chausseys, islets (Channel Islands), V, a 340
Chauveau's researches on nerve excitation (Physiology), XIX, a 29; on Vascular System, XXIV, a 106, b 108, *b* 117
Chauvenet, William, mathematician (Time), XXIII, b 421, a 423
CHAUVIN, Étienne, divine, V, b 393; (Encyclopædia), VIII, b 177
——, Marie von, naturalist (Siredon), XXII, a 104, a 105
CHAUX DE FONDS, town, V, b 393; (Neuchatel), XVII, *b* 370; (Switzerland), XXII, b 817, a 818
CHAVES, town, V, b 393
Chayma *Dictionary*, VII, a 168
Chay-root (Madder), XV, b 177
Cha-yul basin (Tibet), XXIII, a 362
CHAZELLES, Jean Matthieu de, mathematician, V, b 393–4
Cheadle, coal-basin (Coal), VI, a 49
Cheapness, effect of (Protection), XIX, a b 935
Cheapside Cross (London), XIV, a 856; street (London), a 827, *a* 831, a 838, a 850, *a* b 851, b 854, b 855, b 856, a 857, b 858, a 859, *b* 860
Cheating (Fraud), IX, b 638; (Theft), XXIII, a 252
CHÉBILLON, Claud P. J., novelist, VI, a 493
Chebucto Bay (Halifax, N. S.), XI, a 344
Checchina, La, opera (Piccini), XIX, b 87, a 88
Checinski Mountains (Poland), XIX, a 318
Check in exchange. See CHEQUE
Check (Pianoforte), XIX, a 79
Check and checkmate (Chess), V, a b 515
Checkers, game (Draughts) (Ill.), VII, a 384–5
Checking and examination (Surveying), XXII, a 746
Cheddar Cheese, V, a b 395; (Ayrshire), III, a 142; (Dairy), VI, b 680
—— cliffs (Somerset), XXII, a b 271, a 272
Chedorlaomer, king (Babylonia), III, b 160; (Lot), XV, a 10
CHEDUBA, island, V, a 394
Chee or Tshi tribes (Gold Coast), X, b 672, a 673
Cheek (Anatomy), I, b 734
Cheer-Pine, XIX, a 114
CHEESE, food, V, b 394–5; (Dairy), VI, b 679, a b 680; (Derby), VII, a 94; (Ilori); XII, a 749; (Italy), XIII, b 461; (Milk), XVI, a 318
——, caccio-cavallo (Italy), XIII, b 461
——, Camenbert, V, b 395; (Orne), XVIII, b 5
——, Cheddar (Ayrshire), III, a 142; V, a b 395; (Dairy), VI, b 680
——, Glarus, X, a 567; (Berkeley), III, b 508; V, b 395; (Gloucester), X, a b 614
——, Gorgonzola (Italy), XIII, b 461
——, Gruyère, V, b 395; (Freiburg), IX, b 670; (Italy), XIII, b 461
——, Milanese, XVI, b 304

- Cheese-Mite, XVI, a 553
- ——, Parmesan, V, b 395; (Italy), XIII, b 461; (Parma), XVIII, a 320
- ——, Stilton, V, b 395; (Huntingdon), XII, a b 413
- ——, Utica, XXIV, a 26
- ——, Wigtown, XXIV, b 594
- CHEETAH, leopard, V, b 395–6; (Hunting), XII, a 412; (India), b 779; (Leopard), XIV, b 463; (Mammalia), XV, a b 441
- CHE-FOO, town, V, a b 394; (China), *a* 551
- Chefren, king. See CHEPHREN
- Chehil Minar, Persepolis (Architecture), II, a 351
- —— Tan, mountain (Baluchistan), III, b 260
- Che Hwang-te, emperor (China), V, a *b* 559, a *b* 575; (Se-Gan Foo), XXI, b 652; (Tong-king), XXIII, b 468
- Cheilanthes, ferns (Horticulture), XII, *a b* 277
- Chein-nat, town (Siam), XXI, a 890
- Cheiranthus, genus (Botany) (Ill.), IV, a 125, b 132, *a* 136, b 137, a 141, a 142; (Horticulture), XII, a 258
- Cheiromeles, genus (Mammalia), XV, b 411, a 418
- Cheiroptera. See CHIROPTERA
- Cheirotenthidæ, family (Mollusca), XVI, b 695
- Cheiroteuthis, genus (Mollusca) (Ill.), XVI, b 694, b 695
- CHEKE, Sir John, educator, V, a 396; (Parker), XVIII, a 305
- Chĕ-keang, province (China), V, a 548, b 552, b 561
- Chelan river and lake (Washington Territory), XXIV, a 407
- Chelcicky, Peter, reformer (Moravian Brethren), XVI, b 837; (Slavs), XXII, a 161
- Chelidon, genus (Martin), XV, b 587
- Chelidonian islands (Lycia), XV, b 94
- Chelidonium, plant (Botany) (Ill.), IV, a 77, a 132, a 133
- Chelidoptera, genus (Puffbird), XX, b 106
- Cheliemen, emperor (China), V, b 562
- Chelifers, insects (Arachnida) (Ill.), II, b 239, b 247–8; (House-fly), XII, a 331
- Chellia, Jabel or mountain (Numidia), XVII, a 643
- Chelm, diocese of (Pius IX.), XIX, a 169
- Chelmer river (Chelmsford), V, *a* 396
- Chelmo, town (Kulm), XIV, b 155
- CHELMSFORD, town, V, a b 396
- Chelone, turtle (Reptiles), XX, b 459, b 465, b 467, *a b* 468; (Tortoise) (Ill.), XXIII, a 487, b 488
- Chelonia, turtles (Birds) (Ill.), III, b 613, a 626, *b* 628, *a* 629, a 630; (Mammalia), XV, a 373; (Reptiles), XX, *b* 445, *a* 447, b 453, b 457, *a* b 458, a b 459, b 461–2, a b 465, *a b* 467, a b 468, a *b* 469, a 470, b 471, *a* b 472, *a* b 473, a *b* 474, a *b* 475, *a b* 476, *a* 477, *a* 478, a *b* 479, a *b* 480 note, a b 481, a *b* 482, note, a b 483, b 484, a *b* 485, note, b 486; (Tortoise) (Ill.), XXIII, b 484–9; olfactory organs of (Smell), XXII, a 176
- CHELSEA, suburb of London, V, b 396; (London), XIV, b 827, b 828, *a* b 830, a b 831, b 832, b 834, *a* b 842, a 850, a 853, a 861; embankment (London), XIV, a 832
- —— Hospital (London), XIV, a 832, a 850, a 862; (Prize), XIX, *b* 787
- —— Military Asylum (Army), II, b 512
- —— *Pensioners Reading the Gazette of Waterloo* (Wilkie), XXIV, a 600
- —— Suspension Bridge (London), XIV, b 832
- —— Pottery and Porcelain (Ill.), XIX, b 660–1
- —— water company (Filter), IX, a 149
- CHELSEA, Mass., city, V, b 396–7
- CHELTENHAM, borough (Plan), V, a b 397; (Gloucester), X, *a* b 613
- Chelura terebrans, species (Crustacea), VI, a b 585
- Chelydidæ, family (Tortoise) (Ill.), XXIII, a 486, b 488
- Chelydra serpentina, species (Mammalia), XV, a 362
- Chelydridæ, family (Tortoise), XXIII, a 486, b 487
- Chelyosoma, genus (Tunicata), XXIII, b 656
- Chelys, turtle (Reptiles) (Ill.), XX, b 459, *b* 465, a 466, b 475, a *b* 479, b 483; (Tortoise), XXIII, b 485
- —— musical instrument (Lyre) (Ill.), XV, a 115
- Chelyuskin, Russian sailor (Geography), X, b 170
- Chemical action (Chemistry), V, a 411–2; (Electricity), VIII, a 56, b 61; (Electrolysis), a 100; (Iron), XIII, a b 285–6; (Mineralogy), XVI, b 386; Aarcourt and Esson's law of (Chemistry), V, a b 424; of rain (Geology), X, b 237–8; of rivers (Geology), a 243; of the sea (Geology), b 252; of underground water (Geology), a 240, a b 241
- —— affinities (Bergmann), III, b 508; Electrical measure of, VIII, b 86–7
- —— analysis (Mohr), XVI, b 629; analysis and synthesis, I, a 698; vessels for (Metals), XVI, a 76
- —— coin adjustment (Mint), XVI, b 512
- —— composition in Crystallography, VI, a b 596, b 597
- —— constitution of atmosphere (Sun), XXII, b 679–80
- Chemical decomposition (Electricity), VIII, b 9, b 13; of rocks (Geology), X, a b 233–4, a b 235
- —— effects of explosion (Gunpowder), XI, a b 287
- —— Engines (Fire) (Ill.), IX, b 205–6
- —— equivalents (Atom), III, a b 36; formulas (Molecule), XVI, a 643–b 644
- —— Gilding, X, b 530–1
- —— Medicine, XV, b 818, a 819, a b 820
- —— metamorphosis (Protozoa), XIX, a 858
- —— oceanography (Sea Water), XXI, a 641 note
- —— photometry (Light), XIV, a 588
- —— receiver, Edison's (Telephones), XXIII, b 931–2; recorders (Telegraph), XXIII, b 128–9
- —— Societies, XXII, b 236
- —— theory (Electricity), VIII, a 14; metamorphic (Geology), X, b 278–9
- Chemicking process (Bleaching), III, b 709; (Calico-Printing), IV, *b* 610
- *Chemie, Handbuch der* (Gmelin), X, a 624
- *Chemie, Lehrbuch der* (Mitscherlich), XVI, b 555
- CHEMISTRY, V, a 397–503
  - HISTORY of, a 397–404
    - alchemy, a 398
    - analytical, modern, a 401–2
    - ancient theories, b 397
    - atomic theory, b 402–4
    - atomic weights, b 405–8
    - Boyle, b 393–4
    - electro chemistry, a b 404
    - iatro-chemists, a b 398
    - Lavoisier, b 401–2
    - phlogiston age, a 399-400, a 401
    - pneumatic chemistry, a 400–1
    - types, a 404
  - ELEMENTS, b 404–71
    - acids and bases, b 420-3
    - aluminium, b 461–2
    - ammonia, b 441–2
    - arsenic, group of compounds, a 467–9
    - atomic weights, b 405–8
    - boron, b 450, b 461
    - carbon, a b 451
    - cerium, a b 470
    - chemical action, a 411–2
    - chlorine compounds, a 428–31
    - combination, laws of, a 405–8
    - compounds, elementary, a 412–4
    - copper, a 458
    - didymium, a b 470
    - erbium, a b 470
    - enumeration of, b 404–5
    - gold, b 458–9
    - halogens, b 424–31; oxides, b 427–31
    - hydrogen, b 414–5
    - hydrogen dioxide, a b 424
    - hydroxides, a 420–4
    - indium, a 461–2
    - iodine compounds, a 430–1
    - iron, group of compounds, a 462–5
    - lanthanum, a b 470
    - lead, b 460–1
    - magnesium group, a 456–8
    - mercury, b 456–8
    - metals of the alkalies, b 454–5; of

CHEMISTRY, *continued*
  - ELEMENTS
    - alkaline earths, a 455–6
    - molecular weights, b 408
    - nitric acid, b 442-4
    - nitrogen, a 441–6
      - compounds, b 441–6; acids, a b 445; oxides, a 444–5
    - notation, b 408–11
    - oxygen, b 415–8
    - ozone, a 417–8
    - periodic relations of elements, b 470-1
    - phosphoric compounds, a 447–50
    - phosphorus, a 446–7
    - platinum group, b 465–6
    - salts, a 421–2
    - selenic and telluric acids, b 438
    - silicon, b 451–4
    - silver, b 458
    - specific heats, a 407–8
    - sulphur, acids of, b 438–40; compounds, b 431–41; allotropic forms, a 432–3; haloids of, a b 434; oxides of, b 434–6
    - sulphuric acid, b 436–8
    - thallium, b 459-60
    - thurium, a b 470
    - tin group, b 466-7
    - tungsten group, a 469–70
    - water compounds, b 418–23
    - yttrium, a b 470
  - INDEX, 503
  - ORGANIC, b 471–503
    - acid halides, a b 496
    - acids, a 493–5
    - alcohols, a 487–90
    - aldehydes, a b 492
    - alkaloids, natural, a 500
    - amides, b 501–2
    - amines, b 498–501
    - analysis, b 471–5
    - carbon and hydrogen analysis, a 472–3
    - classification of compounds, a 478–80
    - cyanogen compounds, b 480–1
    - ethers, a 491
    - formulæ, a b 474, a b 476–8
    - haloid ethers, b 490–1
    - hydrocarbons, a 482–7
    - benzenes, b 485–7; ethines, a b 485; olefines b 484–5; terpenes, b 485; paraffins, b 482–4
    - isomerism, b 476
    - ketones, b 492–3
    - metallic bodies, b 497–8
    - metamerism, b 477–8
    - nitrogen analysis, a 473-4
    - salts, ethereal, b 496-7
    - sulphur group, alcohols and ethers, b 491–2

CHEMISTRY, *continued*
    ORGANIC
        unclassified compounds, b 502-3
        vapor density (Ill.), b 474-6

——

—— (Alchemy), I, a 407, b 408-9, b 410, b 413; in Arabia, II, a 232; (Dalton), VI, b 691-3; (Gay-Lussac), X, a 110-1; (Geber), a 113; (Gerhardt, C. F.), b 398; (Graham, T.), XI, a 30-1; (Guyton de Morveau), a b 307; (Helmont), b 569; (Henry, W.), b 603-4; (Homberg), XII, b 110; (Hydrogen), a 449-51; (Lavoisier), XIV, b 353-4; (Lichens), b 561-2; (Liebig), a 568-71; (Regnault), XX, a 360; (Sainte Claire Deville), XXI, b 174-5; (Scheele), b 404-5; (Saussure), b 339; (Selenium and Tellurium), b 663-4; (Wöhler), XXIV, a 660-1; (Wurtz), b 738-9
——, associations for (Agriculture), I, a 272; (Societies), XXII, b 236
—— at Cambridge, introduction of (Watson), XXIV, *a* 433
——, industrial (Baumé), III, b 386; (Gannal), X, b 63
——, Meteorological, XVI, a 118
—— in mineralogy, XVI, b 394
——, physiological (Protoplasm), XIX, b 851; (Physiology), XIX, b 12-3; (Respiration), XX, b 495-6
——, pneumatic (Black), III, a 690
——, relation to Zoology, XXIV, a 855
——, Thermometers in, XXIII, a b 310
——, rise of modern (Priestly), XIX, b 750-1
——, solar, chromosphere (Sun), XXII, b 680-1, a b 682, b 683, a 685; corona (Sun), b 681, a b 682, a 683, b 684; spots (Sun), XXII, a b 680
——, tendency of (Physical Sciences), XIX, a 7
Chemmis, town (Ekhmin), VII, b 688
CHEMNITZ, town, V, a 503-4; (Saxony), XXI, b 368, *b* 373, a 374; lyceum (Bretschneider), IV, b 233
CHEMNITZ, Martin, theologian, V, a b 504
——, Philipp Bogislaw von, publicist (Pufendorf), XX, b 105
Chemosh, god (Moab), XVI, b 557, b 558
Chemung group, rocks (Geology), X, a 306
Chen, genus (Goose), X, a 692
Chenáb, river (Gujránwála), XI, *b* 241, a 242; (Gujrat), *a* 242; (Lahore), XIV, a b 212
Chenalopex, genus (Birds), III, b 647; (Sheldrake), XXI, a 826
Chenchus, people (Karnúl), XIV, a 8
Chendwara, town. See CHHINDWARA
Chénedollé, Charles Julien Pioult de, poet (France), IX, a 591
Chenery, Thomas, orientalist (Harírí), XI, *b* 429
Chenevière, statesman (Geneva), X, a 135
Chenevix, Richard, author (Phrenology), XVIII, b 858
Chenghiz Khan. See JENGHIZ KHAN
Cheng-te-fu, town. See JEHOL
CHÉNIER, André Marie de, poet, V, b 504-5; (Ballads), III, *b* 244; (Collot D'Herbois), VI, b 134
——, Louis de, orientalist, V, b 504
CHÉNIER, Marie-Joseph de, dramatist, V, a b 505; (Drama), VII, a 369
"Cheniscus" (Ship), XXI, b 843, note
Chenomorphæ, group (Birds), III, *a b* 617, a 630
Chenot's process (Iron), XIII, b 345-6
Chenresig, deity (Tibet), XXIII, a 365
Chentui tribes (Tibet), XXIII, *a* 365
CHEOPS, Egyptian king, V, b 505-6; (Egypt), VII, a b 635; pyramid of (Architecture) (Ill.), II, a 337-8; (Egypt), VII, a 669
CHEPHREN, Chefren or Khafra, Egyptian king, V, a 506; (Egypt), VII, a b 635, note; pyramid of (Architecture), II, a 338, a 340, b 343; (Egypt), VII, b 669; (Pyramid), XX, *a* 129, a 130
CHEPSTOW, town, V, b 506
CHEQUE or check, money order, V, b 506-7; (Banking), III, a 451; (Payment), XVIII, a 451
CHER, department, V, a b 507; river, *b* 507; (Creuse), VI, a 508; (France), IX, a 446, b 457; (Loire), XIV, b 815; (Loir-et-Cher), *b* 818
Chera, kingdom (India), XII, b 832, a 833
CHERASCO, town, V, b 507; treaty of (France), IX, b 501
CHERBOURG, town, V, b 507-8; (Breakwaters), IV, b 217; (Manche), XV, b 466; breakwater (Harbors and Docks), XI, a b 411
Cherbuliez, Antoine Elisé (Political Economy), XIX, b 409
——, Victor, novelist (France), IX, a 597; (Switzerland), XXII, a 838
Cherchel, town (Juba II.), XIII, a 769
Cherea, Francesco or Terenziano, actor (Drama), VII, b 361
Cheremissian or Tcheremissian language (Finland), IX, a 191; (Dictionary), VII, b 163; (Ural-Altaic), XXIV, a 5
Chéreul, litterateur (Saint-Simon), XXI, a 210
CHERIBON, town, V, b 508; (Java), XIII, b 616
Chernac, *Cribrum Arithmeticum* (Tables), XXIII, *b* 11
CHEROKEES, Indians, V, b 508-9; (Georgia), X, a b 391, a 392, b 393, a 394; (Houston, S.), XII, a b 332, b 864-5, a 868; (Indian Territory), a b 875; Indians (Pickens), XIX, b 921; (Tennessee), XXIII, b 194-5; language of (Grammar), XI, a 35
Cheroots (Cigars), V, *a* 678; (Tobacco), XXIII, b 453, b 454
Cherpentier, François, potter (Pottery and Porcelain), XIX, b 648
CHERRY, V, a 509; (Botany) (Ill.), IV, b 104, a 106, a 126, a 128, b 134, a 135, b 137; (Horticulture), XII, a b 280; native (New South Wales), XVII, b 420; tree gum, XI, b 244; winter or Physalis (Botany), IV, b 118, a 119
—— Laurel, tree, XIV, b 348-9
—— pepper (Cayenne Pepper), V, a 244
"Cherry-pie" (Heliotrope), XI, b 565
Cherry and the Slae, poem (Montgomery, A.), XVI, b 816; (Scotland), XXI, a 568
Chersiphron, architect (Archæology), II, *b* 309; (Ephesus), VIII, b 414
CHERSO, island and town, V, a b 509
CHERSONESE or Chersonesus, peninsulas, V, b 509; (Eubœa), VIII, a 569
——, Heracleotic (Sebastopol), XXI, a 647
——, Tauric (Crimea), VI, b 517-20; (Goths), X, a 754; (Numismatics), XVII, a 656
——, Thracian, XXIII, a 339; (Pericles), XVIII, a 542; Athens in (Demosthenes), VII, a 61, b 62
Chersonesus, city (Crimea), VI, b 519; (Numismatics), XVII, b 660
Chert, mineral (Flint), IX, b 285; (Geology), X, b 213; (Mineralogy), XVI, a 405; bands of (Geology), X, a 309
CHERTSEY, town, V, b 509; (Surrey), XXII, a b 729, a 730
CHERUBIM, V, b 509-10; (Angel), II, *b* 26; (Philo), XVIII, a 776 note; (Temple), XXIII, a 182
CHERUBINI, Maria Luigi Zenobio Carlo Salvatore, composer, V, a 510-11; (Clari), a 707; (Mendelssohn), XVI, b 10, a 11; (Music), XVII, b 104, a 106; (Paisiello), XVIII, b 144; (Sarti), XXI, b 329, a 330
Cheruel, Auguste, historian (Mazarin), XV, *a* 659, b 660
CHERUSCI, tribe, V, a 511; (Lippe), XIV, a 690
Chervil, herb (Horticulture), XII, a 302
Cherwell river (Northampton), XVII, a 569; (Oxford), XVIII, b 96, a 97, a 98; (Warwick), XXIV, b 399
Chesapeake bay (Maryland), XV, a 609; (United States), XXIII, a 841; navigation of (United States), XXIII, a 796
—— and Ohio canal (Columbia, Dist.), VI, a 151
"Chesapeake," U. S. ship of war (Calhoun), IV, a 606; Lawrence, XXIII, b 838
Chesborough, engineer (Tunnelling), XXIII, b 663
Cheselden, William, surgeon (Anatomy), I, b 713, b 714; (Hunter, J.), XII, a 401; (Surgery), XXII, *b* 711
Chesham, town (Buckingham), IV, b 373, a 374
CHESHIRE, county, V, a 511-3; (Agriculture), I, b 310
—— Cheese, V, a *b* 395; (Dairy), VI, b 680
—— hive (Bee) (Ill.), III, a b 432; plain of (Coal), VI, a 50
Chesil beach (Dorset), VII, b 321; (Geology), X, b 254
CHESNEY, Charles Cornwallis, critic, V, a 513-4
——, Francis Rawdon, general (Canal), IV, b 697
CHESS (Ill.), V, a 514-24
    aptitudes for, a 514
    early and mediæval, b 520-2
    games, illustrative, b 516-7
    Hindu, b 519-20
    laws and terms, b 515-6
    literature, b 523 4
    modern, a 522-3
    moves of pieces, a 514-5
    notation, a b 516
    origin of, b 518-20
    problems, a 518-9, b 524

——

—— (Cards), V, *a* 88; amongst the Araucanians (America), I, a 616; books (Libraries), XIV, a 531
—— player (Automaton), III, a 124; (Magic), XV, a b 211
Chess Praxis (Chess), V, a 524
Chesses (Pontoon), XIX, a 472
Chessylite, ore (Copper), VI, b 308; (Malachite), XV, b 317
Chest, the (Respiration), XX, b 489-90, a b 492, b 493
CHESTER, city (Ill.), V, b 524-6; (Alfred the Great), I, a 448; (England), VIII, a 250, a 263; (Libraries), XIV, a 518, a 543; races (Horse), XII, b 203, a 204
CHESTER, Pennsylvania, town, V, b 526; (Penn), XVIII, a 506, b 507, b 514
——, South Carolina, county and town, XXII, *b* 301, b 302
Chester Plays (Drama), VII, b 358 9
Chester, Randle, earl of (Robin Hood), XX, a b 621
CHESTER-LE-STREET, town, V, a 528
CHESTERFIELD, borough, V, b 526-7
—— county (South Carolina), XXII, *b* 301
CHESTERFIELD, Philip Dormer Stanhope, earl of, V, a 527-8; (Heraldry), XI, b 628; (Johnson, S.), XIII, b 733, b 734-5; (Marlborough), XV, *b* 562; (Montesquieu), XVI, b 809; (Theatre), XXIII, b 246
——, Philip Stanhope, 3d earl, V, a b 527
CHESTNUT, tree, V, b 528; (Arboriculture), II, a 276, b 278, a 282; (Botany), IV, a 77, a 90, b 91, b 97, b 98,

CHESTNUT, *continued* b 137; forests (Italy), XIII, b 450, a 451; (United States), XXIII, b 859
—— Oak, XVII, a 713; forests (United States), XXIII, b 859, a 862
——, James of South Carolina, senator (Sumner), XXII, b 934
Chestnuts (France), IX, a 459; (Lyons), XV, a 114
——, tissue (Horse), XII, b 182
Chest-Voice, XXIV, b 296
Chesuncook lake (Maine), XV, b 300
Cheta, race (Syria), XXII, a 860 note, *b* 861
Chetang, town (Tibet), XXIII, *b* 361
Chetham library, Manchester (Libraries), XIV, b 520
Chetii-Minei (Russia), XXI, a 113
Chettle, Henry, dramatist (Drama), VII, b 371, notes; (Shakespeare), XXI, a 785, b 794
Chettro-Kettle or Rain Pueblo, building (Pueblo Indians), XX, a 888
Chevalier, title (Knighthood), XIV, b 112, a b 113
——, Jean Gabriel Auguste, optician (Microscope), XVI, b 272, a 273, note
——, Michel, economist (Cobden), VI, a 81; (Political Economy), XIX, a 409; (Protection), b 933
——, Sulpice Paul (Caricature), V, a 93
—— barley (Agriculture), I, a 319
Chevalier au Lyon (Romance), XX, a 665
Chevalier St. George (Charles Edward), V, a 369; (James the Pretender), XIII, b 570
Chevaux-de-frise (Fortification) (Ill.), IX, b 372
Chevé, Émile, musician (Music), XVII, b 107
Chevets (Architecture), II, *b* 376, a 377, b 378, a b 379
CHEVIOT HILLS, V, b 528; (England), VIII, a 196, a 197; (Northumberland), XVII, b 578, *a* 579, a 581; (Roxburgh), XXI, b 39; (Scotland), XXI, b 543, b 556
—— sheep (Agriculture) (Ill.), I, b 348, *a* 349, a 352, (Wool), XXIV, a 690
Chevræana (Ana), I, b 688
Chevreul, Michel Eugene, chemist, *b.* 1786; *d.* 1889 (Candle), IV, *b* 708; (Dyeing), VII, a 500, a 502; (Glycerin), X, b 621, a 622; (Oils), XVII, a 761; (Soap), XXII, b 213
Chevreuse, Marie de Rohan, duchesse de (La Rochefoucauld), XIV, b 317; (Longueville), a 878
Chevron, the (Heraldry) (Ill.), XI, a 619
—— bones (Ape), II, a 141; (Mammalia), XV, b 359, b 360
Chevrotain, genus (Mammalia) (Ill.), XV, a 367, a b 436
Chevy Chase (Ballads), III, b 244
Cheyenne Indians, XII, b 865, b 867, a 872
—— City (Wyoming), XXIV, *a* 749
Cheyletidæ, family (Mite) (Ill.), XVI, a 552
Cheyne, George, physician (Dietetics), VII, b 179, note; (Medicine), XV, a 821
——, Thomas Kelly, clergyman (Isaiah), XIII, b 388, b 392, b 394
——, William Watson, physician (Surgery), XXII, *a* 718
Cheyte Sing, rájá (Hastings), XI, *a* 460
CHÉZY, Antoine Leonard, orientalist, V, b 528
Chhandas or metre (Sanskrit), XXI, b 287, b 290, a 308
Chhándogya-bráhmana (Sanskrit), XXI, a 291
Chhatar Sál, chief (Jaláun), XIII, b 557
CHHATISGARH, division, V, b 528-9
Chhatra of Wasps (Honey), XII, a 141
—— Sál, rajah (Bundelkhand), IV, b 466
CHHINDWÁRÁ, district, V, a 529; town, a 529
Chhīpī or calico printer (Hindustani Literature), XI, a 754
"Ch'hordtens," tombs (Ladác), XIV, b 198 note
CHIABRERA, Gabriello, poet, V, b 529; (Italy), XIII, a b 521
Chiaja, ward (Naples), XVII, a b 195
Chiak-jam-chori, bridge (Tibet), XXIII, b 361, b 363
Chiamdo, province and town (Tibet), XXIII, b 363, b 364, a 365; river (Tibet), *b* 360, *b* 362, b 363
Chiamogolok, district (Tibet), XXIII, b 363
Chiamorio dialect (Italy), XIII, *a* 502
Chian Turpentine, XXIII, a 711
Chiana, valley (Agriculture), I, b 360; (Italy), XIII, a 448
Chiapas, state (Mexico), XVI, a 223, a 902, a b 910
CHIARAMONTE, town, V, b 529-30
Chiaramonti. See pope PIUS VII.
CHIARI, town, V, a 530
Chiaro, Del, traveller (Roumania), XXI, b 22, *a* 23, a 25
Chiaroscuro, style (Correggio), VI, a 388; (Carpi, Uga da), V, a 116; (Douw), VII, a 328; (Drawing), b 388; (Janssens), XIII, b 577; (Rembrandt), XX, b 386, a b 388
Chiastolite (Mineralogy) (Ill.), XVI, a 393, b 425
CHIAVARI, town, V, a 530
CHIAVENNA, town, V, a 530
Chibchas Indians (Colombia), VI, a 140; (Indians), XII, b 863; *Dictionary*, VII, a 168
CHICAGO, city of U. S. (Plan), V, a 530-3
  commerce, a b 531
  education and charities, a b 532
  fire of 1871, b 531-2
  location and population, a b 530
  government, a 531
  public works, b 532-3
—— (Artesian Wells), II, a 565; (Illinois), XII, *b* 743, a 745; (Libraries), XIV, *b* 535; (Newspapers), XVII, a 447; (St. Lawrence), XXI, b 187-8
——, Burlington and Quincy Co. (Pacific Railroads), XIX, b 919
—— Convention, 1860 (United States), XXIII, a 821
—— river (Chicago), V, a b 530; (Illinois), XII, b 743
Chicanti, Opium, XVII, *a* b 811
Chicara, genus (Antelope) (Ill.), II, b 90
Chicha, liquor (America), I, b 614
CHICHELY, Henry, bishop, V, a 533; (England), VIII, b 291
Chichen or Chichen-Itza, ruins (America), I, b 609; (Valladolid), XXIV, b 49-50; (Yucatan), *b* 796, note, *a* 797
Chicheree, bird (King-bird), XIV, a 83
CHICHESTER, city (Ill.), V, a b 533; (Libraries), XIV, a 543; (Sussex), XXII, a 761, *a* 762, *a* 763
——, Sir Arthur, sportsman (Hunting), XII, a 410
Chichimecs, tribe (America), I, *b* 618, *a* 619; (Mexico), XVI, a 217
Chick, development of; skull (Birds) (Ill.), III, b 605-16; spine, etc. (Birds), a 622-6
—— or radicle (Brewing), IV, b 239, *a* 240
Chickahominy river (United States), XXIII, b 825, a 826
Chickamauga, battle of, 1863 (Georgia), X, a 394; (Steedman), XXII, a 926; (Thomas), XXIII, b 840, b 938; (United States), b 826, a b 837
CHICKASAWS, Indians, V, b 533-4; (Indian Territory), XII, a b 875; (Mississippi), XVI, b 547
Chickens Rock (Lighthouse) (Plate VII), XIV, b 621, a 623
Chickering, Jonas, Pianoforte maker, XIX, a *b* 85
Chick pea, XVIII, b 452; (Gram), XI, b 33
Chickweed (Botany), IV, a 100, a 120, b 128
CHICLANA, town, V, a 534
Chicomoztoc, town (America), I, *b* 618, a 619
CHICOPEE, Mass., town, V, a 534
CHICORY, plant, V, a b 534; (Adulteration), I, b 153-4; (Agriculture), a 336, a 340; (Botany), IV, a 77, a 121; (Coffee), VI, b 101, a 104; (Horticulture), XII, a 293
Chicot, jester (Fool), IX, *a* 321
Chicoutimi, village (Quebec), XX, a 172
Chicova, settlement (Zambesi), XXIV, b 804
Chiddam, red, plant (Wheat), XXIV, *b* 563
Chief, the (Heraldry) (Ill.), XI, a b 618
——, military (Germany), X, b 425-6, a 428
Chiefs, Polynesian (Taboo), XXIII, a b 20, a b 21
Chief-tangents (Geometry), X, b 377
Chiemsee, lake (Germany), X, b 402, a 404
Ch'ien, Szema, historian (Lao-tsze), XIV, *b* 295, *a* 296, b 297
Chieng Mai, state and town (Shans), XXI, a 810; (Siam), *a* 891, *b* 892, a b 894
CHIERI, town, V, b 534
Chiers river (Luxemburg), XV, b 88
Chiersi, decree of (Charles I. of France), V, a 355
Chiese, river (Italy), XIII, b 445
CHIETI, town, V, b 534; (Abruzzo), I, a 57
Chièvres, Guillaume de Croy, soldier (Charles V.), V, b 358
Chiffchaff, bird (Wren), XXIV, a 724
Chigi, Agostino, financier (Raphael), XX, *a* 292, b 293
Chignecto Bay (New Brunswick), XVII, *b* 382
Chignon gregarine (Protozoa), XIX, b 879
Chigoe, insect (Flea), IX, a 263; (Insects), XIII, a 157
Chih-li, province (China), V, b 547, *a* b 550, b 561, *a* 562
CHIHUAHUA, city, V, b 534-5; state (Mexico), XVI, a 223, b 907, a b 911, b 912
——, Texas, town (San Antonio), XXI, *a* 267
Chik, measure (Weights and Measures), XXIV, *a* 518
Chikakol, town and district (Ganjam), X, a b 63
Chikmágalúr, town (Kádúr), XIII, *b* 824
Chilasi, people (Ladác), XIV, a 199
Chilblain (Mortification), XVI, a 876
Child. See Children, INFANT and INFANTICIDE
——, Sir John, governor (India), XII, *b* 838
——, Sir Josiah, banker (Banking), III, a 273; (Political Economy), XIX, a 370; (Poor Laws), b 483
——, Lydia Maria, author (American Literature), I, a 638
Child-birth (Insanity), XIII, b 103, b 108-9; (Medical Jurisprudence), XV, *b* 789, a 791
Child-crowing (Throat Diseases), XXIII, a 341
Child-labor (Factory Acts), VIII, b 739-40; (Labor), XIV, a 168, a 169, b 172, b 175; (Workingmen in U.S.), XXIV, *a* b 916, a 919
Child-murder (Infanticide), XIII, a 5-6; (Medical Jurisprudence), XV, b 790-1
—— suicide, XXII, *b* 664
Childe Harold (Byron), IV, a b 539, b 540-1, a 542; (Moore, Dr. J.), XVI, a 830
Childebert I., king (Paris), XVIII, b 293; (Salic Law), XXI, *b* 223, *a* 225
Childeric I., Merovingian king (Arms, etc.), II, b 486; (Germany), X, a 428; (Salic Law), XXI, a 223
Childers, Hugh Culling Eardley, statesman (Admiral), I, a 142, a 143, a 144; (Dockyards), VII, b 276; (Navy), XVII, b 303

CHILDERS, Robert Cæsar, orientalist, V, a 535; (Buddhism), IV, b 384 note, a b 388 notes, a 391 note, b 392
Childers's annuities (National Debt), XVII, a 252
—— *Dictionary* (Pali), XVIII, a 190
Childhood (Medical Jurisprudence), XV, b 788
Children (Brehon Law), IV, a b 226; (Corea), VI, b 349; (Deaf and Dumb), VII, b 5–7; (Fine Arts), IX, b 170; (Foundling Hospitals), a 425–8; (Infant), XIII, a 3–5; (Labor), XIV, a 168, a 169, b 172, b 175; (Poor Laws), XIX, a b 489, b 491, a 492; (Taboo), XXIII, a b 21; (Witness), XXIV, a 658
—— as actors (Theatre), XXIII, b 244, a 245
—— "of the Chapel" (Drama), VII, b 370, a 371; communistic OneidaCommunity), XVII, b 794-5; custody of (Women), XXIV, b 674, b 675, *a* 910; dependent (Michigan), XVI, a 249; (Nerva), XVII, a 362; emancipation of (Roman Law), XX, a 706, b 709, b 720, a 722, b 725, b 732; employment of (Workingmen in U. S.), XXIV, *a* b 916, a 919; food of (Dietetics), VII, a 174–5; legal position of (Roman Law), XX, a b 689–90; master of the (Purcell), b 118; in relation to the (Peerage), XVIII, a b 478; state education of (Government), XI, b 17; trial of, in England (Summary Jurisdiction), XXII, b 675
Childrenite (Mineralogy), (Ill.), XVI, a 424
Children's Aid Society (New York), XVII, b 474; (Reformatories), XX, b 900; Crusade, VI, a 554
Children's Hour (Longfellow), XIV, a b 872
—— stories (Edgeworth, M.), VII, a 567, b 568; (Tales), XXIII, b 32
Chilenite (Mineralogy), XVI, a 410
Chileno Dictionaries, VII, a 168
Chiles, mountain (Ecuador), VII, a 559, a 560
Chilhowee mountains (Tennessee), XXIII, b 192
CHILI or Chile, country, V, a 535-43
  climate, a b 536-7
  earthquakes, b 535
  educational features, b 539-40
  finances, b 542-3
  history, a 537–8
  industrial features, a b 542
  islands, a 536
  minerals, b 540–1
  mountains, a b 535
  political organizations, b 536, a 538-9, a b 540
  races, a 538
  religion, b 539
  vegetable products, a b 541
  water system, b 535–6
  zoology, b 541–2
—— (America), I, a 615–a 616, b 622, b 625; (Andes), II, b 16–7; (Dundonald), VII, b 466–7; (Forests), IX, a 358; (Ichthyology), XII, a 720; (Juan Fernandez), XIII, b 768; (Libraries), XIV, a 536, b 554; (Mining), XVI, b 493; (Observatory), XVII, b 736; (Peru), XVIII, a 683, b 691, a b 692; (Press Laws), XIX, a 732; (Railway), XX, b 263
—— coast upheaval (Geology), X, a 227; geology of (America), I, a b 591; Indians of, XII, b 869; invasion of Peru (Bolivia), IV, b 17; law of (Patents), XVIII, a 363; liberation of (San Martin), XXI, a 280; pine (Arboriculture), II, b 280; saltpetre, XXI, *b* 247; (Nitrogen), XVII, b 531
——, Chilli or Chilly, vegetable (Cayenne Pepper), V, b 243–4; (Horticulture), XII, a 292; (Mexico), XVI, a b 221, b 226
Chilian fauna (Distribution), VII, a 238
—— mill (Gold), X, b 664
—— Patagonia, XVIII, b 356–7
Chilianwala. See Chillianwalla
Chiliasm, doctrine (Germany), X, a 436; (Millennium), XVI, b 327, b 330
Chilka lake (Puri), XX, *a* 121; soil (Hyderabad), XII, a 444
CHILLAN, town, V, a 543; (Chili), b 536; volcano (Chili), b 535
Chill-casting (Founding), IX, a 425
Chilled castings (Iron), XIII, a 366
—— iron shells (Gunnery), XI, b 271
Chillesford pliocene beds (Geology), X, *b* 323
Chilli. See Chili, vegetable
CHILLIANWALLA, town, V, a 543; battle of, 1849 (India), XII, b 847
CHILLICOTHE, city, V, a 543
Chillingham Park (Cattle), V, *b* 213, b 214
CHILLINGWORTH, William, theologian, V, a b 543; (Church), a 664
Chillon, castle of (Vaud), XXIV, b 125; prisoner of (Bonnivard), IV, a 33
Chills, malarial (Pathology), XVIII, a b 404-5
—— in pneumonia (Pathology), XVIII, a 406
Chilly or Chili, plant (Cayenne Pepper), V, b 243–4; (Horticulture), XII, a 292; (Mexico), XVI, a b 221, b 226
CHILMAREE, town, V, a 544
CHILMEAD, Edmund, musician, V, a 544
Chiloango, district (Loango), XIV, b 748
CHILOÉ, island, V, a 544; (Patagonia), XVIII, b 356, a 357; province (Chili), V, a *b* 536, a 537, b 539, a 540, *a* *b* 541, a 542
Chilognatha, order (Centipedes), V, a 296; (Myriapoda), XVII, b 125–6
CHILON, sage, V, a 544
Chilonycteris, genus (Mammalia), XV, a 419
Chilopoda, order (Centipedes), V, a 296; (Myriapoda) (Ill.), XVII, a 125, b 126–7
Chiloscyllium, fish (Ichthyology) (Ill.), XII, *a* 673, a 700, b 723; (Shark) (Ill.), XXI, a b 811
Chilostoma, genus (Polyzoa) (Ill.), XIX, a b 452
Chilostomellidea, order (Protozoa), XIX, b 870-1
Chilperic of Neustria (Gregory of Tours), XI, *b* 162
CHILTERN HILLS, V, a b 544; (Oxford), XVIII, b 96, a 97, b 102; Hundreds (Buckingham, county), IV, b 373
CHIMÆRA, myth, V, b 544; (Bellerophon), III, a 471; (Heraldry), XI, a 626; (Lycia), XV, a b 95
——, fish (Ichthyology), XII, b 687 *b* 717, b 724
Chimæridæ, family (Ichthyology), XII, a 702, a 718, b 724
CHIMAY, town, V, b 544
Chimborazo mountain (Andes), II, *b* 17; (Ecuador), VII, b 558, a b 559, *a* *b* 561
Chimbote, city (Peru), XVIII, b 687
Chimere, vestment (Costume), VI, a 410
Chimes (Clocks), VI, a 24, a b 29–30, b 31
Chimie Élémentaire Théorique et Pratique (Thénard), XXIII, b 271
——, *Traité élémentaire de*, Lavoisier (Chemistry), V, *a* 402
Chiming, process (Cooperage), VI, b 300
Chimney (Building), IV, a b 404, b 408, b 416–7; (Metallurgy), XVI, a 65; furnace (Steam-Engine), XXII, *b* 517–8; Lamp, XIV, a b 246
—— draft (Ventilation), XXIV, b 172; -hopper (Building), IV, a 417; money (Finance), IX, b 158; pieces (Building), IV, b 423
—— -sweeps (Brushes), IV, b 362–3; ,(May), XV, b 654
—— -sweep's cancer (Pathology), XVIII, a 300
Chimpaiky bay (Madagascar), XV, a 169
Chimpanzee (Ape), II, a b 131, b 137, b 141, a 142, a *b* 143, *a* b 144, *a* b 145, b 146; (Negro), XVII, a 326 note
Chimu, chief (Peru), XVIII, a 690
CHINA (Plate II), V, b 544–84
  ancient knowledge of, b 544–5
  authorities, b 583
  canals, b 548–9
  Cathay, b 545–7
  delta plain, b 547
  description of, b 547–50
  government, b 579–81
  history, b 557–67
    British interference, a 565–6
    Confucian records, b 558-9
    Han dynasty, b 559–60
    imperial family, a 567

CHINA, *continued*
    Khitan Tatar irruptions begin, b 561
    Manchurian rule, b 563-7
    Ming dynasty, a b 563
    Mongolian rule, b 261-3
    Suy dynasty, b 560
    Tai-ping rebellion, a b 566
    Tang dynasty, a 561
    three kingdoms, a b 560
    traditional age, b 557–8
    "universal empire," a b 559
  index, 584
  lakes, b 549–50
  language, a 567–73
    grammar, a 570–3
    spoken, b 569–70
    written, b 567–9
  literature, a 573–9
    book manufacture, b 575
    books of learning, b 575
    character of, a 573
    classics, a 573–4
    Confucius's style, b 574–5
    drama, b 578–9
    encyclopædias, b 576
    geography, a b 576
    history, b 575–6
    novels, b 579
    poetry, a 577
    religions, b 576–7
  manners, b 581–3
  mediæval knowledge of, b 545–7
    commerce, b 546–7
  mountains, b 547-8
  provinces, a 550–7
    Chĕ-keang, b 552
    Chih-li, a b 550
    Formosa, a b 553
    Fuh-keen, a 553
    Gan-hwuy, a b 552
    Ho-nan, b 551–2
    Hoo-nan, b 553–4
    Hoo-pih, b 553
    Kan-suh, b 554
    Keang-se, b 552
    Keang-soo, a 552
    Kwang-se, a 556
    Kwang-tung, b 555–6
    Kwei-chow, a b 556
    Shan-se, a b 501
    Shan-tung, b 550–1
    Shen-se, a b 554
    Shing-king, a b 557
    Sze-chuen, b 554–5
    Yun-nan, b 556–7
  railways and telegraphs, b 583
  rivers, b 548-9
  torture and punishment, a b 581
  water system, a 548–50

—— (Asia), II, b 598, a 602, b 612; (Astrology), a 649; (Birds), III, b 660–1; (Canal), IV, *a* b 691; (Coal), VI, b 52, a 56; (Cobden), a 81; (Commerce), b 184; (Confucius), b 229-34; (Cosmas), b 394; (Cotton), b 429, b 433; (Damask), a 698; (Duhalde), VII, b 447
—— (Fan), IX, b 25; (Ferghana), b 75, a 76; (Festivals), b 103; (Fire), b 103; (Forests), a 350, b 356;

China, *continued*
(Formosa), *a b* 366, *a b* 367; (Fowl), a 434; (Friendly Societies), a 685; (Ginseng), X, a 540; (Glass), a b 580; (Gunpowder), XI, b 283; (Gützlaff), b 304; (Ichthyology), XII, a 700; (Inscriptions), XIII, a 123; (Ivory), b 531, note, a 534; (Japan), b 594; (Jenghiz), a 632, a b 633
—— (Lew Chew), XIV, a 490; (Libraries), b 533, a 552; (Magic), XV, b 204–5; (Marignolli), a b 550; (Miautse), XVI, a b 232; (Mining), b 491; (Mirror), b 524; (Missions), a b 536, a b 540; (Mohammedanism), a 596; (Mongols), a b 767, a b 768, b 769, a b 770, a b 772, b 776
—— (Nertchinsk), XVII, a 361; (Nepāl), b 352, b 353; (Newspapers), a 444; (Observatories), a 737; (Odoric), a b 749; (Opium), a 810, a b 814, b 816–7; (Pottery and Porcelain), XIX, a b 53–4; (Railway), XX, a 264; (Religions), b 375–6, b 332–3; (Silk), XXII, a 62, *a b* 71; (Weights and Measures), XXIV, a 518; (Wood-Carving), a 684
——, ancient trade with (Persia), XVIII, b 601; ancient society in (Mencius), XVI, *a b* 7, *a b* 8; Catholic missions in (Propaganda), XIX, b 832, a 833; Christianity in (Segan Foo), XXI, a 653 note; Jesuit map of (Ricci) (Ill.), XX, b 552
China Illustrata (Lhasa), XIV, a 502
——, money of (Numismatics), XVII, a 680; Mongol dynasty (Kublai Khan), XIV, b 151–2; Opium war (Elgin and Kincardine), VIII, a b 124; organic forms of (Asia), II, a 605, a 607; pearl production in (Pearl), XVIII, a 459; relation with Tongking, XXIII, b 468, b 469–70
—— Sea (Cochin China), VI, a 86; (Pacific Ocean), XVIII, a 120, b 123, a b 126; winds of (Asia), II, *a* b 603
——, survey of (Geography), X, a 168; tea culture in (Tea), XXIII, b 105–7, a *b* 107, b 109, a 110; works on (Williams, S. W.), XXIV, a b 900
China Aster (Aster), II, b 643; (Horticulture), XII, b 255
—— blue (Calico-Printing), IV, b 611–12
—— clay (Granite), XI, b 43; (Kaolin), XIV, a b 3; (Pottery and Porcelain), XIX, b 662
—— grass (Rhea), XX, b 520
—— Ink, XIII, b 87
—— root (Sarsaparilla), XXI, a 329
—— ware (France), IX, b 460
Chináb river (Chámbá), V, a b 329; (Punjab), XX, a *b* 112, note, b 113, b 114
Chinala, river (Mauretania), XV, b 643
Chinali mountains (Texas), XXIII, b 221
Chinandega, department and town (Nicaragua), XVII, b 490
China-pati, town (India), XII, *a* 828
Chincanneau family, potters (Pottery and Porcelain), XIX, b 656
CHINCHA ISLANDS, V, a 584–5; (Agriculture), I, a 309; (Coolie), VI, *a* 297; (Guano), XI, a 207, a b 208; (Peru), XVIII, b 684, a 688
Chinchay-cocha, lake (Peru), XVIII, a 686, b 691
CHINCHEW or Chinchu, city, V, a 585
CHINCHILLA, city, V, a 585
CHINCHILLA, rodent, V, a b 585; (Bolivia), IV, a 13; (Fur), IX, b 735, a 736; (Mammalia), XV, a 422, b 425–6
Chinchon, countess of (Cinchona), V, b 682
Chin-chow Foo, department (China), V, b 551
Chindaswinth, king, Spanish Visigoths (Salic Law), XXI, *b* 226
Chinese, people (America), I, b 613–4; (Artesian Wells), II, b 564; (Asia), b 609; (Borneo), IV, b 52; (Bronze), a b 330; (Burmah), a 496, *a* 499; (California), b 625; (Callao), a 627; (Cochin China), VI, *a* 88, *a* 89; (Compass), b 201; (Coolies), b 296–7; (Cremation), VI, *b* 500
—— (Drunkenness), VII, b 416; (Emigration), VIII, b 160; (Formosa), IX, a 367; (Hainan), XI, a 335; (Indian Archipelago), XII, a 857, a 858; (Malay Peninsula), XV, a 325; (Peru), XVIII, b 692; (Philippines), a 767; (San Francisco), XXI, a 277; (Sarawak), a 322; (Tahiti), XXIII, a 28; (United States), b 830; (Yellow Fever), XXIV, b 772; massacre of (Batavia), III, a 373; migrations of (Indians), XII, b 862, b 866 note
—— annals (Cambodia), IV, b 640, a 641; (Persia), XVIII, b 601, a 602, b 603–5, a b 610–1; (Tibet), XXIII, a 359 note, b 366
CHINESE ARCHITECTURE, (Ill.), II, a 392–4
—— art (Drawing), VII, *a* 387; (Japan), XIII, a 590, *a* 602
—— Artillery, II, b 572; Astronomy, a 651–2; caligraphy (Japan), XIII, b 594, b 595, a 596, b 599; carving (Ivory), a 534; (Jade), b 549
—— chronology (Anthropology), II, b 103; (Chronology), V, a 617, a b 623; circle of animals (Zodiac), XXIV, b 831–2; coins (Lhasa) (Ill.), XIV, b 497, a 498; (Numismatics), XVII, a 680; commerce (Hankow), XI, a 394
—— Dictionaries, VII, *a* b 156, b 157, b 166–7; (Guignes), XI, a 230; (Morrison), XVI, a 874
—— Drama, VII, a 346–8; embassy (Anna Ivanovna), II, a 54
—— empire (Kashgar), XIV, *a* b 10; (Tibet), XXIII, b 364–5; (Turkestan), a 673, a b 678–81
—— Enameling, VIII, a 168; Funeral Rites, IX, a 725; galls (Ill.), X, a 42; game (Chess), V, b 519; Goose, X, b 692; green (Dyeing), VII, a 500; hogs (Agriculture), I, b 355; kitchen god (Penates), XVIII, a 500
—— language (Corea), VI, *b* 348; (Grammar), XI, a 34, a *b* 35; (Medhurst), XV, a 788; (Philology), XVIII, b 787, b 788, b 792; (Rémusat, A.), XX, b 391
—— literature (Hwen T'sang), XII, a 434–5; (Julien), XIII, a b 780; influence in Japan, b 594, *a* 597
—— Lock, XIV, b 750; mathematical tribunal (Astronomy), II, b 651; methods of extraction (Oils), XVII, a 762; Mirrors, XVI, b 524
—— missions, Jesuit (Ricci), XX, b 550–52; opium war (Grant, Sir J. H.), XI, a b 46
—— philological works (Gabelentz), X, b 3, a 4; Pilgrimage, XIX, a 101; printing, early (Typography), XXIII, b 724
—— religion (Theism), XXIII, *a* 256; rites (Jesuits), XIII, a 659, a b 662, a 665; Surgery, XXII, a 708; tallow (Oils), XVII, b 765, a 768; tea frauds (Adulteration), I, b 154; Textiles, XIII, b 228–9; trade (Burmah), IV, b 495, a 499
—— ware (Pottery and Porcelain), XIX, b 640–1, b 649, a 653–4, b 655
—— wars (Gough, H. G.), XI, a 4; (Persia), XVIII, a b 614; words for God (Theism), XXIII, b 254, *a* 256; writing (Alphabet), I, b 529, a 530; yam (Horticulture), XII, a 302; (Yam), XXIV, b 763
Ching Che-tung, pirate (China), V, b 564
Ching-hai, town. See CHIN-HAE
Ching-hwa, Ming emperor (China), V, b 563
CHINGLEPUT, town, fortress and district, V, b 585
Ching-tih, Ming emperor (China), V, b 563
Ching-too Foo, department (China), V, b 554, a b 555
Ching-tung, Ming emperor (China), V, b 563; (Mongols), XVI, a 772
CHIN-HAE or Ching-hai, town, V, b 585; (Ning-Po), XVII, b 526
Chin-keang Foo, department (China), V, b 565
CHIN-KEANG FOO, city, V, b 585; (China), V, b 548, *a* 552
Chin-Kilich Khan or Asaf-Jah, Nizam (Hyderabad), XII, *b* 445
Chinla, kingdom (Cambodia), IV, b 640–1
Chinnereth or Chinneroth, Sea of (Galilee), X, a 27–8
Chin-nung, emperor (China), V, a b 558; (Tea), XXIII, a 105
Chino, mixed breed (Negro), XVII, a 329
CHINON, town, V, b 585–6
Chinook Dictionaries, VII, a 168
—— wind (Washington), XXIV, a 406
Chinooks, tribes (Indians), XII, a 866
CHINSURAH, town, V, a 586; (Hooghly), XII, *b* 151; factory (India), *a* 837, a 840, a 841
Chintâmani, epic (Tamils), XXIII, b 48
Chin-tsung, emperor (China), V, b 561
Chintz (Ivanovo), XIII, a 530
Chinuks. See Chinooks
CHIOGGIA or Chiozza, town, V, a 586; war of, 1379 (Italy), XIII, a 490
Chioglossa, genus (Salamandra), XXI, a 215
Chiolite (Mineralogy) (Ill.), XVI, b 399
Chionididæ, family of birds (Sheathbill), XXI, b 819 note
Chionis (Birds), III, b 646; (Sheathbill), XXI, b 818–9; (Mimicry), XVI, b 353
Chionodoxa, plants (Horticulture), XII, a 258
Chios or Scio, island and town (Greece), XI, b 90, b 111; (Numismatics), XVII, a 664; (Scio), XXI, a 487–8; massacre of, 1822 (Turkey), XXIII, b 690; school of (Archæology), II, a 304, a 305
Chiozza, town. See Chioggia
Chipa, bread (Paraguay), XVIII, b 248
Chipicani, mountain (Andes), II, a 17
Chipmunk (Squirrel), XXII, b 455
CHIPPENHAM, town, V, a b 586; (Wilts), XXIV, b 625, *a* b 626, a 627
Chippewa, river (Wisconsin), XXIV, *a* 651
Chippewa Dictionaries, VII, a 168
Chippewas, tribe (Funeral Rites), IX, b 724; (Indians), XII, b 867, b 871, a 872
Chippewyans, tribes (Indians), XII, b 865, a b 867, a 871
Chipping Barnet, town. See BARNET
Chipping Wycombe, town (Buckingham), IV, a 374; (Wycombe), XXIV, b 747
Chiquito Indians, XII, *a* b 865, *a* 869
Chira river (Peru), XV, b 682, a 684
Chirica, Monte (Lipari Islands), XIV, b 688
Chiriqui, gulf and river (Costa Rica), VI, b 397, *a* 398
Chirk Aqueduct (Plate IV), II, a 200
Chirnside Bridge (Berwickshire), III, b 529
Chirocentridæ, fishes (Ichthyology), XII, a 716, b 732
Chirocephalus, genus (Crustacea), VI, a b 587

Chirogaleus, genus (Lemur), XIV, a b 443
Chirographum (Diplomatics), VII, a 222
Chiromachæris, genus of birds (Manakin), XV, b 462
Chiromancy (Magic), XV, b 206–7; (Physiognomy), XIX, a b 8
Chiromys (Lemur) (Ill.), XIV, a 441, b 444–5; anatomy of (Mammalia), XV, b 357
CHIRON, Centaur, V, b 586; (Centaurs), V, b 295
Chironectes, genus (Opossum), XVII, a 819; (Mammalia), XV, b 382
Chiroptera, order (Alps), I, b 557; (Java), XIII, b 613; (Mammalia), XV, b 375, b 409–20; anatomy of (Mammalia), b 356; circulation of (Mammalia), a 367; distribution (Mammalia), *b* 375; fossil (Mammalia), a 420; reproductive organs (Mammalia), b 370, a 372, a 373
Chiroxiphia, birds (Manakin), XV, a 463
Chiru (Antelope), II, b 90
Chisel (Hand Tools) (Ill.), XI, b 390, a 391; miners' (Mining) (Ill.), XVI, b 462
Chisholm, H. W. (Weights and Measures), XXIV, a b 506, notes, b 507
Chisholm's tables (Annuities), II, a 67, *b* 73
Chisinche mountains (Ecuador), VII, b 558–9
CHISWICK, village, V, b 586; Royal Garden (Horticulture), XII, b 230, b 232, b 298; villa (Architecture), II, a 388
Chitang river (Punjab), XX, a 113
Chitarrone, musical instrument (Lute), XV, a *b* 72
Chitine (Insects), XIII, a 150
Chiton, Greek tunic (Costume) (Ill.), VI, b 400–1, *a* *b* 402
Chiton, genus (Mollusca) (Ill.), XVI, a 664, a 665–a 667, b 686, b 698, a 718; parasite of (Protozoa), XIX, a 879
Chitonidæ, family (Mollusca) (Ill.), XVI, a 664, b 665, a 667
Chitral, district (Afghânistân), I, b 204, a 205, *b* 211; (Kâfiristân), XIII, a b 830, b 831, a 832; (Kâshkâr), XIV, a b 11; valley (Hindu Kush), XI, b 747, *a* b 748, a 749
Chitra-Yajna (Drama), VII, a 341
CHITTAGONG, district, V, b 586; Port, *b* 586–7
—— HILL TRACTS, V, a 587
Chitty on Agents, I, a 251
Chiu-goku, provinces (Japan), XIII, b 579
CHIUSA, town, V, a 587
Chiushingura (Drama), VII, a b 348
CHIUSI, town, V, a 587
Chiuzenji, lake (Japan), XIII, a 582
Chivalry (England), VIII, b 269, b 285; (Henry I., emperor), XI, a 294; (Knighthood), XIV, a 112–18; (Music), XVII, a 91; (Romance), XX, a 648–9; age of (German Literature), X, a 468–71; books of (Spain), XXII, a 369; orders of (Brazil), IV, b 211; representation of (Chaucer), V, a 392–3; Spanish (Drama), VII, a 363
CHIVASSO, city, V, a b 587
Chivela pass (Tehuantepec), XXIII, a 119
Chives, salad (Horticulture), XII, a b 293
Chiviatite (Mineralogy), XVI, a 412
Chkoikyi Nvima, lama (Tibet). XXIII, a 366
Chladni, Ernst Florens Friedrich, inventor (Tuning Fork), XXIII, a 659
Chladni's figures (Acoustics), I, b 105, a 106
Chladnite (Mineralogy) (Ill.), XVI, a 433
Chlamydomonadina, group (Protozoa), XIX, b 881, b 882
Chlamydomonas, genus (Protozoa) (Ill.), XIX, a 880, b 881
Chlamydophora, order (Protozoa), XIX, b 867
CHLAMYDOPHORE, edentate mammal, V, b 587; (Mammalia), XV, b 389–90
Chlamydosaurus, genus (Lizard) (Ill.), XIV, a 743
Chlamydoselachus, genus (Shark) (Ill.), XXI, a *b* 815
Chlamydospore, Sporozoa (Protozoa) (Ill.), XIX, a b 876, a b 877, a 878
Chlamydomyxa (Protozoa) (Ill.), XIX, b 857, a 860, a 865, b 866
Chlamys, cloak (Costume) (Ill.), VI, a b 402, a 403
Chloantite (Mineralogy), XVI, a 395, b 406
Chloasma, disorder (Skin Diseases), XXII, a 130
Chlodio or Chlogio, Frankish king (Salic Law), XXI, a 223. See Clovis
Chlodwig, Frankish king (Germany), X, a 428. See Clovis
Chlœnaceæ, order of plants (Madagascar), XV, a 171
Chloephaga, bird (Goose), X, *a* 692
Chlopicki, Joseph, general (Poland), XIX, a b 310
Chlora perfoliata (Botany), IV, b 102
CHLORAL, drug, V, b 587–9; (Alcohol), I, a 416; (Chemistry), V, b 492; antidote of (Calabar Bean), IV, a 577; hydrate (Narcotics), XVII, a *b* 237
Chlorate of potash (Blasting), III, a 702; (Chlorine), V, b 590; (Potassium), XIX, b 608; (Pyrotechny), XX, a 141
—— of soda (Sodium), XXII, a 254
Chlorates (Chemistry), V, b 428; (Explosives), VIII, a b 706
Chlorea (Lichens), XIV, b 563, b 564
Chloric acid (Chemistry), V, b 428, b 429, a 430, b 431
Chloride, aluminium (Chemistry), V, b 461, a 462
——, ammonium (Ammoniac), I, a b 650
——, boron (Chemistry), V, b 450
——, calcium. See Chloride of lime
——, cupric (Copper), VI, a 311; cuprous (Chemistry), V, a 458, a 465
—— of lime (Chemistry), V, a b 428; (Chlorine), b 589–90; (Lime), XIV, b 654
—— of methyl, XVI, b 204, a 205
——, nitrogen (Chemistry), V, b 442
—— of platinum, XIX, *a* 203; (Bronze), IV, a 331
—— of potassium, XIX, a b 608
—— of sodium (Mineral Waters), XVI, a 453, a 454, a 455
—— of titanium, XXIII, b 437–8
—— of zinc, XXIV, b 825–6; lotion (Surgery), XXII, b 713; tests (Oils), XVII, a 766
Chlorideæ (Grasses), XI, b 52
Chlorides (Chemistry), V, b 414, a 471; (Manganese), XV, a 488; (Sodium), XXII, a 254
——, alkaline (Chemistry), V, b 455–6; arsenic group (Chemistry), b 467, *a* 468; glucinum (Chemistry), *a* 456; gold (Chemistry), b 458, a *b* 459, a 465; iron group (Chemistry), a *b* 462, a 463, b 464, b 466; (Iron), XIII, b 286–7; lead (Chemistry), V, b 460; (Lead), XIV, b 378, a 379; magnesium group (Chemistry), V, *b* 456; (Magnesium), XV, b 218
——, mercury (Chemistry), V, a 457; (Mercury), XVI, a b 38, *a* 39; phosphorus (Chemistry), V, *b* 447, b 449, *a* 450; platinum group (Chemistry), *b* 465, *a* b 466; silicon (Chemistry), *a* *b* 452, a b 453, a 454; silver (Chemistry), b 458, b 464–5; (Silver), XXII, b 77, a 79
—— sulphur group (Chemistry), V, a *b* 434, b 439; (Sulphur), XXII, a b 669; sulphuric (Chemistry), V, a 438, b 440
——, thallium (Chemistry), V, a 460; (Thallium), XXIII, a 238; tin group (Chemistry), V, a 467; tungsten group (Chemistry), a *b* 469, a 470; (Tungsten), XXIII, b 645
——, volcanic (Geology), X, a 216, b 221
Chlorination, processes (Gold), X, a *b* 666, b 667
CHLORINE, V, a 589–90; (Berthollet), III, a 526; (Bleaching), a b 705, b 713; (Calico-Printing), IV, b 610, b 614; (Chemistry), V, b 424–31; (Davy), VI, b 744; (Iodine), XIII, b 208, a 209; (Manure), XV, b 513, b 515, b 516, b 517; (Metals), XVI, b 76; (Mint), a 510; (Murray, J.), XVII, a 69; (Platinum), XIX, a b 204; (Poisons), a 291
—— and its compounds (Chemistry), V, *a* b 406, b 424–31; (Mineralogy), XVI, b 394, a 395, b 399, a 400; heat of combinations of (Chemistry), V, a b 411; plant absorption of (Physiology), XIX, a 56
Chloris, goddess (Zephyrus), XXIV, b 819
Chlorite, mineral (Geology), X, b 203; (Mineralogy), (Ill.), XVI, b 431
—— schist (Geology), X, b 211
Chloritoid (Mineralogy), XVI, a 431
Chloro-calcite (Mineralogy), XVI, a 400
Chlorodyne, drug (Bhang), III, a 543
CHLOROFORM, V, b 590–1; (Alcohol), I, a 416; (Anæsthesia), *a* b 693; (Chemistry), V, a 491; (Chloral), b 587, *a* *b* 588; (Flourens, M. J. P.), IX, b 304; (Simpson), XXII, b 93; silicon (Chemistry), V, b 452, b 453
Chlorogonium (Protozoa), XIX, a 880, b 881, b 882
Chlorohydrins (Chemistry), V, *a* 453, b 490
Chloromelanite, mineral (Jade), XIII, b 550
Chloromethanes (Methyl), XVI, a 203
Chloropal, mineral (Mineralogy), XVI, b 443
Chlorophæite (Mineralogy), XVI, b 387, b 432
Chlorophane (Fluor Spar), IX, b 306; (Mineralogy), XVI, b 390
Chlorophyceæ, sub-class (Vegetable Kingdom), XXIV, b 136, a b 137, b 138, a 139, b 140, b 141
Chloroplatinates (Potassium), XIX, *b* 609, a *b* 610, a 611; (Thallium), XXIII, a 238
Chloroplatinic acid (Platinum), XIX, *a* b 203
Chlorophyll, coloring matter in plants (Biology), III, *b* 597, a 598, b 599; (Botany), IV, b 77, a 107; (Cantharides), V, b 29; (Fungus), IX, b 726, a 728; (Histology), XII, b 12, a b 14, a b 19, b 21; (Horticulture), b 216, a 217, a b 219; (Insectivorous Plants), XIII, a 141, b 146, a 147; (Lichens), XIV, a 559, a b 562; (Parasitism), XVIII, a b 269, a b 270, b 272, a b 273; (Physiology), XIX, *b* 59–60, *b* 62, a 63, a 64; (Protozoa), a b 853, a 854, b 856, b 880, b 883, b 888
Chlorophyllite (Mineralogy), XVI, a 436
Chlorops, insect (Wheat), XXIV, a b 565
Chlorosis, disease (Pathology), XVIII, b 382, a b 398; (Iron, Therapeutics of), XIII, a 370
Chlorospinel (Mineralogy), XVI, a 402
Chlorous or negative elements (Chemistry), V, b 412, a 414, *b* 420–1
—— oxide (Chemistry), V, a b 428–9
Chlorus, Constantius. See Constantius Chlorus
Chlotar I., Frank king (Salic Law), XXI, *b* 223, *a* 225
Chnuphis, god (Egypt), VII, b 622
Choanocytes, cells (Sponges) (Ill.), XXII, a b 435, *b* 436, *b* 437, *a* b 443

Choanoflagellata, class (Protozoa), XIX, *a* b 883
Choanosome, tissue (Sponges) (Ill.), XXII, *a* 431
Choaspes, river (Afghânistân), I, a 205
Chobe, town (Zanzibar), XXIV, b 806
Chobham Ridges (Surrey), XXII, b 728
Choco, Cordillera de (Columbia), VI, b 137; mines of (Atrato), III, b 44
CHOCOLATE, V, a b 591; (Adulteration), I, a 155; (Cocoa), VI, a 93, a 94; tree (Nicaragua), XVII, a 492
Choctaw Dictionary, VII, a 168
Choctawhatchee, river (Florida), IX, b 296
CHOCTAWS, Indians, V, b 591; (Chickasaws), V, b 533-4; (Indians), XII, a 865, a 868; (Indian Territory), b 875; (Mississippi), XVI, b 547; (Totemism), XXIII, a 497, a 502
Chodneffite (Mineralogy), XVI, b 399
CHODOWIECKI, Daniel Nicholas, painter, V, b 591-2
Chœnix, measure (Weights and Measures), XXIV, *a* 513
Chœronycteris, genus of bats (Mammalia), XV, b 419
Chœropsis, genus of ungulates (Swine), XXII, a 811
Chœropus, genus of marsupials (Mammalia) (Ill.), XV, b 384; (South Australia), XXII, a 299
Chœur des Capucins (Granet), XI, a 43
Choice, The (Pomfret), XIX, a 458
Choichong, conjuror (Lhasa), XIV, b 499
Choir, part of church (Apse), II, b 187-8; (Architecture), b 405; early arrangement of (Torcello), XXIII, b 475
Choir organ, XVII, b 856-7; pedals (Organ), XVII, a 858
Choiseul, island (Solomon Islands), XXII, b 265 note, *b* 266; sound (Falkland Islands), IX, b 14
CHOISEUL, César, duc de, V, a 592
CHOISEUL, Claude Antoine Gabriel, duc de, V, a 592
CHOISEUL, Étienne François, duc de, V, *a* b 592; (Barthélemy), III, b 346; (Du Barry), VII, b 426; (Dumouriez), b 458; (France), IX, b 519, b 522; (Guiana), XI, a 226; (Spain), XXII, *b* 354; (United States), XXIII, b 783
Choisy le Roi, town (Seine), XXI, b 655; crystal thermometers (Heat), XI, a *b* 503
Choisy, archæologist (Rome), XX, a b 827 notes
Choix des Poésies originales des Troubadours (Provençal Literature), XIX, b 897-8
Choke-bore guns (Gunmaking) (Ill.), XI, b 248-9; (Shooting), XXI, a b 872
Chokier, Surlet de, regent (Belgium), III, b 456
Chokma, philosophy (Hebrew Language and Literature), XI, *a* 535
Chola, race (Combaconum), VI, a 160; (India), XII, b 832, a 833
Cholagogues (Jaundice), XIII, b 609
Cho-len, city (Cochin China), VI, b 88
CHOLERA, V, b 592-5
  malignant, a 593-5
  simple, b 592-3
  treatment, b 592, b 594-5
—— (Egypt), VII, a b 610; (Hastings), XI, a 460; (Hegel), a 551; (Hungary), XII, b 377; (India), a 806; (Nubia), XVII, a 626; (Pathology), XVIII, a 413; (Quarantine), XX, a b 160, a b 161-2, b 163-4, *a* 164; (St. Petersburg), XXI, b 202
——, hog (Veterinary Science), XXIV, b 221
——, sudoral (Sweating Sickness), XXII, b 773
Cholerine, disease (Cholera), V, a 594
Cholesterin (Chemistry), V, b 489; (Nutrition), XVII, b 694-5; (Physiology), XIX, a b 27
CHOLET, town, V, a 595
Choliambus, metre (Hipponax), XI, b 763
Cholmley, Sir Hugh (Whitby), XXIV, *b* 579
Cholœpus, genus (Sloth) (Ill.), XXII, *b* 171-2; (Mammalia), XV, b 350, a 359, a 360
Chologaster, genus (Ichthyology), XII, *b* 714, b 731
Cholon, town (Saigon), XXI, a 161
Cholos, hybrid (Bolivia), IV, a 15; (Negro), XVII, b 328
CHOLULA, Chololan or Chollulan, town, V, a b 595; (America), I, b 618, *a* 619; (Mexico), XVI, b 216, a 217, a 220
—— pyramid at (America), I, b 618; (Babel), III, a 155
Cholutec race (Nicaragua), XVII, a *b* 492
Choluteca, department (Honduras), XII, a b 135; river (Honduras), XII, b 133
Chomto Dong lake (Tibet), XXIII, a 362
Chonæ, city (Colossæ), VI, b 147
Chondal Indians. See Chontales
Chondrarsenite (Mineralogy), XVI, a 422
Chondrenchyme, tissue (Sponges), XXII, a 436
Chondres, spherules (Pacific Ocean), XVIII, b 130
Chondrilla, genus (Sponges), XXII, a 434, b 437, b 439
Chondrin (Chemistry), V, b 502-3; (Gelatin), X, *a b* 117, *a* 118; (Histology), XII, b 8, a 10
Chondrite (Meteor), XVI, a 117
Chondro-cranium (Amphibia), I, a b 660, *b* 661, a *b* 662, a 663, a b 666; of fowls (Birds) (Ill.), III, b 605, a 608
Chondrodite (Mineralogy) (Ill.), XVI, a 428
Chondropterygii, order of fishes (Asia), II, a 608; (Ichthyology) (Ill.), XII, b 682, a b 683, b 688, b 689, a b 690, a 692, a b 693, a b 694, a 695, b 696, b 697, *b* 699-700, a b 702, a 703, b 705, a b 706, *a* b 716, *a* b 717, a b 718, a 719, a b 720, b 722, *a* b 723-4
Chondrosia, genus (Sponges), XXII, a b 430, b 437, a 439
Chondrosiidæ, family (Sponges), XXII, a 439, b 444
Chondrosina, order (Sponges), XXII, a *b* 437, a 439
Chondrostachys, genus of (Tunicata), XXIII, b 656
Chondrostei, sub-order (Ichthyology), XII, b 684-5, a 706, b 725; fossil (Sturgeon), XXII, a 645
Chondrosteous skull of fowl (Birds), III, a 608-10
Chone, structure (Sponges), XXII, b 431
Chonelasmatidæ, family (Sponges), XXII, a 439
Chonicrite (Mineralogy), XVI, b 431
Chon-Kul, lake (Gobi), X, *b* 635
Chonos, islands (Patagonia), XVIII, a 357
CHONS or Khuns, deity, V, b 595; (Egypt), VII, a 623
Chontales, district and Indians of (Nicaragua), XVII, *b* 491, a b 492
Choo Yuen-chang, emperor (China), V, *a* 563; (Mongols), XVI, b 769-70
CHOPIN, Frederick-François, composer, V, b 595-6; (Dudevant), VII, b 440
Chopotó, river (Brazil), IV, a 200
Choptank river (Maryland), XV, *a* 609
Chor, mount (Simla), XXII, a 85; (Sirmúr), b 105
Choragic monuments (Architecture), II, b 358, b 360-1
Choral service (Cathedral), V, b 199; (Missal), XVI, a 533
—— song (Music), XVII, b 92-3; Greek (Drama), VII, b 351; (Greece), X, a 122, *b* 124
Chorasmia, kingdom (Khiva), XIV, b 64. See Kharezm.
Chord of arc (Conic Sections), VI, b 242, a 243, *a* b 244, b 246, *a* b 247, a 248, b 250, a 251, a b 253, a 254; circle (Geometry), X, b 338; equation of (Geometry), a 369; intersection at random (Probabilities), XIX, a 808; table of (Ptolemy), XX, b 92-3
Chorda dorsalis (Anatomy) (Ill.), I, a b 728, a 729, b 732, a 748; (Embryology), VIII, b 153, a 154; (Skeleton), XXII, a b 117-8. See Notochord
—— tympani (Anatomy), I, *a* 774, a 775
Chordæ tendineæ (Anatomy), I, *a* b 791, a 792
Chordata, group (Tunicata), XXIII, a b 647, a 653; (Vertebrata), XXIV, b 193
Chordiles, genus of birds (Goatsucker), X, b 634, a 635
Chords of Rameau (Music), XVII, a 99; resolution of (Music), a 108
CHOREA, disease, V, b 596; (Pathology), XVIII, b 400-1; (St. Vitus's Dance), XXI, b 211-3; in rheumatic fever (Pathology), XVIII, b 407
Chorene, historian. See MOSES OF CHORENE
Chorepiscopus, office (Dean), VII, b 14; (Episcopacy), VIII, a 433
Chorienes, fortress (Persia), XVIII, a 594, note
Chorin monastery (Neustadt Eberswalde), XVII, a 375
Chorion, genus (Mammalia), XV, *b* 371, *a b* 372, a 373
Chorisis, floral (Botany), IV, a b 116, a 117
Choristers (Conservatory), VI, a b 260
Choristida, order (Sponges), XXII, a 437, a *b* 438, a 440, b 442, a *b* 444
Chorizocormus, genus (Tunicata), XXIII, a 657
Chorizontes, critics (Homer), XII, a b 123
CHORLEY, town, V, b 596
——, Henry F., biographer (Balfe), III, b 241; (Hawthorne), XI, a 480; (Hemans), a b 575, a 576
Chorography, dancing notation (Dance), VI, a b 705
Choroid coat (Anatomy), I, a 778, a 779, a 782; diseases of the (Ophthalmology), XVII, a 804, b 805, b 806
—— gland (Ichthyology), XII, a 690; membrane (Mammalia), XV, a 370; plexus (Anatomy), I, b 768, a 769, a 770
Choroidea, membranes (Ichthyology), XII, a 680
Choron, Alexander Étienne, composer (Rachel), XX, a 210
Chorontega Indians, XII, a b 868; (Nicaragua), XVII, a 492
Chorrera, river (Havana), XI, b 468
Chorson, count (Toulouse), XXIII, b 516, a 517
Chortakis, Georgios, poet (Greece), XI, b 134
Chorus (Drama), VII, b 360, b 382; Greek (Drama), a b 349-50, a b 352; (Euripides), VIII, *b* 591, a 592; (Greece), XI, a 125; Roman (Drama), VII, b 355
Chosan, bay (Corea), VI, a 347
Choses, law-term (Husband and Wife), XII, b 416; (Personal Estate), XVIII, b 677, a 678
Chosroes, kings. See Khosrau
Chota Nágpur. See CHUTIÁ NÁGPUR
Cotchim, town. See KHOTIN
Chotzemitz, battle, 1757 (Kolin), XIV, b 138
CHOUANS, insurgents, V, b 596-7; (France), IX, a 535
Chough, bird (Crow), VI, b 545-6
Choumara, Pierre Marie Theodore, military writer (Fortification), IX, *a* b 410
Chouruk river (Black Sea), III, a b 692
Chous in Weights and Measures, XXIV, *a* 513

"Chouth" tax (Mahrattas), XV, a 294
Chow dynasty (China), V, a b 558-9; (Confucius), VI, b 229-30, a b 233
Chowbent. See ATHERTON
Chozai, prophet (Chronicles), V, b 614 note
Chozars, people (Khazars), XIV, a 61-3
Chrestians, sect (Jesus Christ), XIII, a 668, notes
CHRESTIEN, Florent, poet, V, a 597
CHRESTIEN DE TROYES, romancer, V, a b 597; (English Literature), VIII, b 364; (Grail), XI, a 32, a 33; (Romance), XX, b 660, a b 662, note, *a* 665
——, Nicolas, dramatist (Chiabrera), V, b 529
Chrétiens or Chrestaasen, people (Cagots), IV, b 569
Chrism, oil (Maundy Thursday), XV, b 642
Chrissie lake (Transvaal), XXIII, a 550
CHRIST, title, V, b 597; (Messiah), XVI, b 58, b 61. See JESUS CHRIST
—— in art (Mosaic), XVI, b 879; (Mural Decorations) (Ill.), XVII, b 49-50, *a* 51
—— *and the Apostles* (Thorwaldsen), XXIII, b 335, a 336
—— *Grasping the Cross*, statue (Michel Angelo), XVI, a 242
Christabel, poem (Coleridge), VI, b 123, a 124; (Scott), XXI, b 572
Christ Carrying the Cross (Titian), XXIII, b 443
Christ Church College, Oxford (Atterbury), III, b 47-8, a 49; (Libraries), XIV, b 518, b 545; (Oxford), XVIII, a 100
—— monastery, Canterbury (Libraries), XIV, a 512, a 513, a 518
CHRISTCHURCH, borough, V, b 597; (Hampshire), XI, *b* 385, *a* 386
CHRISTCHURCH, New Zealand, town, V, b 597; (Canterbury), *a* 29
Christenstaat, Der (Seckendorf), XXI, a 648
Christerbauliche Jesusgesellschaft, society (Gichtel), X, a 525
Christ Falling under the Cross (Van Dyck), XXIV, b 66
Christ Healing the Sick (West), XXIV, b 533
Christiad, poem (Vida), XXIV, b 236
Christian I., king of Denmark (Oldenburg), XVII, b 779; (Schleswig-Holstein), XXI, b 433; (Scotland), a 517; (Sweden), XXII, *b* 785
—— II., king (Denmark), VII., a 75; (Dyveke), b 507; (Gossart), X, a 750; (Gustavus I.), XI, b 297, a 298; (Reformation), XX, b 348; (Sweden), XXII, b 785
—— III., king (Denmark), VII, a b 75; (Episcopacy), VIII, a 436; (Reformation), XX, b 348, a 349
—— IV., king (Austria), III, a b 109; (Denmark), VII, b 75; (Germany), X, b 448, a 449; (Polar Regions), XIX, b 329; (Wallenstein), XXIV, a *b* 349
—— VII., king (Denmark), VII, b 76-7; (Struensee), XXII, b 640-1
—— VIII., king (Denmark), VII, b 77; (Germany), X, b 454
—— IX., king (Denmark), VII, a b 78; (Germany), X, a 456, b 457-8
Christian I., elector (Saxony), XXI, b 369-70
—— II., elector (Saxony), XXI, a 370
Christian II., Sweden. See II. of Denmark
——, monk (Prussia), XX, a 10
——, Fletcher, mutineer, (Pitcairn), XIX, b 141
Christian Apocalyptic Literature, II, a 157-8
Christian Architecture, II, b 370; (Rome) (Plate VIII.) (Ill.), XX, b 845-58, b 859
—— art (Embroidery), VIII, b 148-9; (Euripides), b 595; (Fine Arts), IX, a 187; (Gems), X, a 126; (Hegel), XI, a 554; (Mural Decorations) (Ill.), XVII, b 49-50; (Overbeck), XVIII, a b 80
—— Biblical Canon, V, a 11-5
—— Brethren. See PLYMOUTH BRETHREN
—— church. See CHURCH
Christian and Civic Economy of Large Towns (Chalmers), V, a b 326
—— Commission, U. S. (Sanitary Commission), XXI, a 903 note
—— community (Heresy), XI, a 656
Christian in Complete Armor (Gurnall), XI, *a* 297
—— conceptions (Inspiration), XIII, a 161-3; (Sacrifice), XXI, a 146-8
—— consciousness (Dogmatic), VII, b 291; (Theology), XXIII, a b 296
—— doctrine, history of (Theology), XXIII, b 295-6, note; *Treatise of* (Milton), XVI, a 350, b 351, a 352
—— economist (Kingsley), XIV, a 90; (Socialism), XXII, b 219, b 227, a b 229, a 231
"Christian Edification Society" (Gichtel), X, a 525
—— era (Chronology), V, b 618-9
—— ethics (Theology), XXIII, b 296, note. See CHRISTIANITY and ETHICS
—— fictions, early (Romance), XX, a 652
Christian Hero, The (Steele), XXII, *a* 555
Christian Instructor, magazine (Scotland), XXI, a 563
Christian life (Church History), V, *b* 665; (Paul), XVIII, a 436-7
—— literature, ancient (Libraries), XIV, b 511
—— Missions, XVI, b 534-41; to Norsemen (Æsir), I, a *b* 189, a 190
Christian Observer, monthly (Periodicals), XVIII, a 547
Christian Philosopher (Dick), VII, b 149
—— philosophy, early (Neoplatonism), XVII, a b 344
—— Pilgrimages, XIX, a 102-4
—— prophecy (Prophet), XIX, a 844-5
—— psychology (Theology), XXIII, a b 296
Christian Republic (France), IX, a 498
Christian Schools, Brethren of the (Ignorantines), XII, a 739
Christian Spectator, 1819-1839 (Taylor, Nathaniel William), XXIII, b 927
—— teaching defined (Pastoral Epistles), XVIII, b 353
—— transformation of pagan myths (Celtic Literature), V, a b 269, b 282-3
—— unity (Stanley), XXII, b 470, a 471, a 472
Christian Year (Hymns), XII, a 630; (Keble), XIV, a *b* 26, *b* 27-8
CHRISTIANIA (Ill.), capital, V, b 597-8; (Libraries), XIV, b 531, b 551; (Norway), XVII, *a b* 593, *b* 594, *a b* 596, *a b* 597; (Observatory), a 735; (Prison Discipline), XIX, *a* 781; (Universities), XXIII, b 906
—— Fjord (Norway), XVII, a 590, *b* 591, *a* 592
——, Fort (Delaware), VII, *a* 40
Christianisme Dévoilé (Holbach), XII, b 55; *Nouveau* (Saint-Simon), XXI, *b* 207
Christianismi Restitutio (Servetus), XXI, a 718
Christianite, mineral (Pacific Ocean) (Ill.), XVIII, b 129
CHRISTIANITY, V, a 598-610
  apostles, a b 608
  Bible and, a b 600
  corruptions of, a 609-10
  defined, a b 598
  Episcopacy, b 608-9
  influence of, b 604-6
  Jesus and, b 598-9
  Judaism, a 602
  kingdom of God, a 601-4
  modus propagandi, b 599-600
  moral influence of, a b 605
  officials, a 607-8
  organization, b 606-9
  paganism, a b 603, a 605
  pietism, early, b 603-4
  political influence of, b 605-6
  preparation for, b 600-1
  progress of, a b 604
  Roman empire, b 602-3
  scientific influence of, a b 606
  synagogue, a 607

— (Apologetics), II, a b 167; (Education), VII, b 582-3; (Eschatology), VIII, b 472, b 474-5, a 476; (Ethics), b 506-7, a 518-24; (Heresy), XI, a 656; (Jesus Christ), XIII, a 667, b 668, a 677, a b 680-2; (Magic), XV, a b 205; (Political Economy), XX, a 365; (Religions), 372, 374, b 380, *a b* 381-2, note, b 383; (Socialism), XXII, b 217, b 221, a 231; (Will), XXIV, a 602; (Women), a b 672
—— in Abyssinia, I, a 63, b 64; in Africa, a 233, a 235, a b 237; in Arabia, II, b 224; in Baalbec, III, a 153; in Corea, VI, a 350; in Damascus, b 696, b 697, a 698; in Egypt, VII, *b* 648-9, a b 651, a 652, b 655, a b 656; in Guiana, XI, a 224
—— in India (Dalhousie), VI, b 685; (Lahore), XIV, a 215; (India), XII, b 784-5
—— in Islam (Mohammedanism), XVI, a 571, b 583, b 585, b 597, a 608, a 622; (Mosul), a 896; (Spain), XXII, b 324, a 327
—— in Japan, XIII, b 592, a b 593
—— in Persia, XVIII, a b 620, a b 621, a 622, note, a b 623, b 624, a 625; in Turkish Army, II, a 540; in Yemen, XXIV, b 778
——, British conversion to (Alfred the Great), I, b 447; (Caerleon), IV, b 562; (Edwin), VII, b 599-600; (England), VIII, a 242, a 246, a 251-3, b 257; (England, Church of), a 332; (English Literature), a *b* 360-1; (Glastonbury), X, b 601; (Scotland), XXI, b 494, a 496-7; (Stanley), XXII, a b 470-2
—— conversion to (Denmark), VII, a 74; (Europe), VIII, a 625-6; (Finland), IX, a b 190; Frankish (Salic Law), XXI, b 223; (Frisians), IX, b 691-2; Gaul (France), a b 466; (Paris), XVIII, b 292, a 293; (Georgia), X, *a* 388, a 389; (Germany), a 428, a b 429; (Goths), a b 754; (Holland), XII, a 73; (Hungary), a 382; (Iceland), b 655; (Ireland), XIII, b 248, a b 253, a 260; (Normandy), XVII, a 583-4; (Norway), a b 600, a *b* 601; (Nubia), a 627; (Oxus), XVIII, a 105; Peru (Atahuallpa), II, a 723; (Poland), XIX, b 297-8, b 300; (Russia), XXI, b 97; (Saxony), a b 367, note; (Schleswig-Holstein), a 433; (Spain), XXII, a b 323, b 325-6
—— customs of early (Diptychs), VII, b 223-4; (Easter), a b 531; (Fasting), IX, b 41-2; (Funeral Rites), a 726; (Festivals), b 101-3; (Fountain), a 429
—— denial of (Blasphemy), III, a 701
—— philosophical relations of (Ficino), IX, a 122; (Hegel), XI, a 554; (Lessing), XIV, b 481-2; (Metaphysic), XVI, a 87, a b 107; (Neoplatonism), XVII, b 343, b 346, b 347-8
—— primitive (Antioch), II, a 429; (Asia), a 611; (Celsus), V, a b 257; (Clemens Alexandrinus), a b 717; (Ebionites), VII, a b 535; (Flagellants), IX, a 245; (Gnosticism), X, b 625-6, b 628; (Israel), XIII, b 438, a b 439, a b 440; (Macedonian Empire), XV, a b 144, a 145; (Mandæans), a 477, a 478; (Manichæans), a b 491, *b* 492, *a b* 493, *a b* 494; (Marcion), a 541-2; (Millennium), XVI, a 327, b 330;

Christianity, *continued* (Minucius Felix), b 515; (Montanism), b 800, b 801; (Phrygia), XVIII, b 867; (Pliny the Younger), XIX, b 237, note; (Valentinus), XXIV, a *b* 45
—— Roman empire (Aurelius), III, a b 77; (Constantine), VI, a b 267–8; (Gibbon), X, a 517, note, b 519; (Jovianus), XIII, b 765; (Lucian), XV, a b 44, note, a 46; (Milman), XVI, b 335; (Roman Law), XX, b 729-30; (Rutilius), XXI, b 121; (Slavery), XXII, b 142-3; (Socrates), a b 252. See CHURCH, CHURCH HISTORY, CREEDS, DOGMATICS, ETHICS, THEISM, THEOLOGY.
——, *Essence of* (Feuerbach), IX, a 108
——, *Evidences of* (Gregory, O.), XI, a 164; (Whately), XXIV, b 559
—— *Not Mysterious* (Toland), XXIII, b 462, note, a 463
—— *as Old as Creation* (Tindal), XXIII, b 430–1
Christians, Against the (Neoplatonism), XVII, a 346
Christians, Oriental, massacre of (Nestorians), XVII, b 366; origin of the name (Paul), XVIII, b 427; Palestinian (Semitic Languages), XXI, *b* 680; of St. Thomas, XXIII, a 329
CHRISTIANSAND, stift and town, V, a 610; (Norway), XVII, a 596, b 597
Christiansborg, fort (Accra), I, a 87; (Gold Coast), X, b 672, a 673
——, palace (Copenhagen), VI, a 305
Christianshaab, station (Greenland), XI, b 152
Christianshavn, suburb (Copenhagen), VI, b 304
Christiansöe, island (Bornholm), IV, a 54
CHRISTIANSTAD, town, V, a 610; (Sweden), XXII, *a* 775, b 777, *a* 778, b 780
Christiansted, town (St. Croix), XXI, a 169
Christiansten, fort (Throndhjem), XXIII, a 342
CHRISTIANSUND, town, V, a 610
Christianus Democritus, pseudonym. See DIPPEL, J. C.
Christie, biographer (Shaftesbury), XXI, a 767
——, Captain, English adventurer (Persia), XVIII, a b 659
Christina of Austria, queen (Spain), XXII, b 360
CHRISTINA, queen of Sweden, V, a 610–1; (Charles Gustavus X.), a 364; (Descartes), VII, *b* 102, *b* 104; (Filicaia), IX, a 143; (Fontainebleau), a 318; (Innsbruck), XIII, a 93; (Scarlatti), XXI, b 392; (Sweden), XXII, b 787–8
——, Mirabilis, nun (Stigmatization), XXII, b 577
Christine (Dumas), VII, a b 450
CHRISTINE DE PISAN, author, V, a b 611; (France), IX, *b* 569, b 570
Christ in Theology (Bushnell), IV, b 513
Christis Kirk on the Grene (James I., Scotland), XIII, a 566
Christison, Sir Robert, physician (Cinchona), V, b 682, a 683; (Pathology), XVIII, b 403, b 413, a 417 note; (Tobacco), XXIII, a 455
Christliche Glaube (Schleiermacher), XXI, a *b* 428
—— *Glaubenslehre* (Strauss), XXII, *b* 620
Christliches Burgrecht, league (Switzerland), XXII, *a* 829
CHRISTMAS DAY, V, b 611–2; (Chronology), *a* 619; (Festivals), IX, *a* 102; (Holly), XII, b 105; (Jesus Christ), XIII, b 670
Christmas Carol (Dickens), VII, a 153
—— rose (Hellebore), XI, b 566
Christodulus, St., abbot (Patmos), XVIII, b 418
Christofle's process (Nickel), XVII, a 501
Christologie des Alten Testaments (Hengstenberg), XI, *b* 582
Christology (Christianity), V, b 598–600; (Greek Church), XI, b 138–9; (Origen), XVII, b 866, a 867; (Schwenkfeld), XXI, a 485; Pauline (Philippians), XVIII, b 761; primitive (Paul of Samosata), a b 440; sibylline (Apocalyptic Literature), II, a 156–7
Christ on the Cross (Velazquez), XXIV, b 146–7
Christophe, Henri, king (Boyer), IV, a 166; (Hayti), XI, *a* 487
CHRISTOPHER, St., V, a 612
—— II., Denmark, king (Hanseatic League), XI, b 402
—— III., Denmark (Sweden), XXII, b 785
—— of Würtemberg, duke, XXIV, a 738
—— North, pseudonym of WILSON, John
CHRISTOPOULOUS, Athanasius, poet, V, a 612; (Greece), XI, *a* 135
Christo Sacrum Society (Delft), VII, a 41
Christ's Baptism (Leonardo), XIV, b 456
Christ's College (Cambridge, town), IV, a 647
—— Hospital, school (England), VIII, *a* b 230; (Hunt), XII, a 398; (London), XIV, *b* 844
Christ's letter to Akbar (Armenian Church), II, a 481; seamless coat (German Catholics), X, b 399
Christ's Victory and Triumph, poem (Fletcher, Giles), IX, *a* 266
Christus (Mendelssohn), XVI, b 12
Chrodegangus of Metz, bishop (Canon), V, *a* b 15; (Cathedral), a 199; (Monachism), XVI, b 733, a 734, b 741
Chromates (Chromium), V, *b* 612-3; (Poisons), XIX, a 290; printing with (Photography), XVIII, b 844
—— of Lead, XIV, a 379; (Dyeing), VII, b 499–500
Chromatic aberration (Microscope), XVI, a b 270, *b* 272; (Optics), XVII, a b 827; (Telescope), XXIII, a 153–5, a 157
Chromatic chords (Music), XVII, a 97 note; order, introduction of (Pianoforte), XIX, a 74; scale (Acoustics), I, b 101; (Music), XVII, b 86, b 98
Chromatin (Protozoa) (Ill.), XIX, b 854, a 855
Chromatophores, organs (Actinozoa), I, a 120; (Cuttle-Fish), VI, a b 649; (Ichthyology), XII, b 702–3; (Mollusca), XVI, b 689, a 707
Chromatrope, slide (Magic Lantern) (Ill.), XV, b 213
Chrome colors (Chromium), V, a 613; (Pigments), XIX, a 96; black (Calico-Printing), IV, a 612; ochre (Mineralogy), XVI, b 442; red (Lead), XIV, a 379
—— Ink, XIII, *a* 87
—— tanned Leather, XIV, a b 390
Chromeisen, alloy (Chromium), V, a 613; (Iron), XIII, b 290, *b* 361–2
Chromic acid (Chemistry), V, b 463; (Embryology), VIII, b 154; (Mineralogy), XVI, b 419, a 420
—— salts, spectrum effects on (Photography), XVIII, b 851–2
Chromides, fishes (Ichthyology), XII, *b* 709, b 710, *a* b 711, a 712, a 730
Chromis, genus (Ichthyology), XII, a 699, a 711
Chromite (Mineralogy), XVI, a 402
Chromites (Chromium), V, b 612
CHROMIUM, metal, V, a 612–3; (Chemistry), a 462–4; (Maryland), XV, b 609; (Mineralogy), XVI, a 402; (Vauquelin), XXIV, a 127; spectra (Spectroscopy), XXII, b 391
Chromium-steel. See Chromeisen
Chromo-Lithography, XIV, a 706; (Typography), XXIII, b 755
Chromophore (Chemistry), V, a 501
Chromophyton, alga (Vegetable Kingdom), XXIV, b 137
Chromosphere, solar (Astronomy), II, a 690–1; (Corona), VI, a 380; (Sun), XXII, *a* b 679; chemistry of (Sun), b 680–1, a b 682, b 683, a 685
Chromo - Typography, XXIII, a *b* 755
Chromous salts (Chromium), V, a b 612
Chromule (Botany), IV, b 77
Chronic infective diseases (Pathology), XVIII, a 414–7
Chronica (Severus), XXI, a b 735, a 736; *de Mailros* (Melrose), XV, a 851; *Majora* (Matthew of Paris), b 640–1; *de Origine Civitatis* (Villani), XXIV, b 245
Chronicle of Dalimel (Slavs), XXII, b 159; of Hardyng, XI, b 425; of Hovedon, XII, a 333; of Robert of Gloucester, XX, a b 612; of Ingulphus (Congé d' Elire), VI, a 235; of Jacob of Edessa (Syriac Literature), XXII, a 882; of Malalas (Bentley), III, a 499; of the Malespini (Villani), XXIV, b 245; of Villani, *a b* 245, a 246; (Villehardouin), b 247–8
—— *of England* (Capgrave), V, b 50; (England), VIII, a 243, a 258; *of the Kings of England* (Baker, Sir R.), III, a 215
——, *London Daily* (Newspapers), XVII, a 432; *London Morning* (Newspapers), b 427, b 428
Chronicle, Spanish (Alphonso III.), I, a 541; (Pulgar), XX, a 109
—— *of the World* (Hungary), XII, a 391
Chroniclers (Georgia), X, a 388; and chronologers (Byzantine Historians), IV, b 545–6; ecclesiastical (Church History), V, a b 668; English (Drama), VII, a 370; (Geoffrey of Monmouth), X, b 154; Ionian (Thucydides), XXIII, a 346; modern (Greece), XI, b 134
Chronicles, Bohemian (Slavs), XXII, b 160, *a* 161; Catalan (Spain), b 377; Celtic (Scotland), XXI, a 496, note, b 498–9; English (Godwine), X, b 640–1; (Hemingford), XI, a b 576; (Fabyan), VIII, a 738; (France), IX, b 568–9; (Germany), X, b 471; (Hindustani), XI, b 753; (Holinshed), XII, a b 61; (Hrosvitha), a 341; Italian (Liutprand), XIV, b 718; (Italy), XIII, a b 515; Latin (Hungary), XII, b 390; (Poland), XIX, a b 311; (Portugal), b 571; (Russia), XXI, a 112; (Scotland), a 566, a b 567; (Servia), a b 722; (Siena), XXII, a 49; Spanish (Cid), V, *a* 677; (Spain), XXII, a b 368, a 373; (Sweden), a 792; Swiss (Winkelried), XXIV, a *b* 645
CHRONICLES, *Books of*, V, a 613–6
    authorship, b 613–4
    composition of, b 614–5
    Levitical character of, a 614
    literature, a 616
    variations, b 615
—— (Bible), III, a 550; (David), VI, a 737–8; (Hezekiah), XI, a 703; (Lamentations), XIV, b 242–3; (Tabernacle), XXIII, b 9; De Wette on (Pentateuch), XVIII, a 516
Chronicon of Prosper, XIX, b 846, a 847; of Zonaras, XXIV, *b* 837
—— *Edessenum* (Syriac Literature), XXII, a b 876; *Helveticum* (Tschudi), XXIII, b 638; *Hirsaugiense* (Hirschau), XII, b 3; *Januense* (Voragine), XXIV, a *b* 317 note; *Paschale* (Byzantine

Chronicon, *continued*
Historians), IV, a 546; *Rerum Hungaricarum* (Hungary), XII, b 390, note; *ab Urbe Condita* (Hermann), XI, b 661
Chronique de Michel le Grand (Syriac Literature), XXII, a 896
Chroniques de Espanya (Pedro IV.), XVIII, a 461
Chronograph (Geodesy), X, a 154; (Watch), XXIV, b 419; in Gunnery (Ill.), XI, b 264–8; in determining longitude (Time), XXIII, a b 422. See CHRONOSCOPE
Chronograph, Kubasoff's (Russia), XXI, a 113
Chronologia (Mercator), XVI, b 34
CHRONOLOGICAL TABLE to 1876, V, a 625-60
—— *Tables* (Ptolemy), XX, b 96
CHRONOLOGY, V, a 616–60
  Actian era, b 621
  Alexandrian era, a b 620
  Antiochian era, b 620, a b 621
  Armenian era, a b 622
  authorities, b 624–5
  Chinese era, a b 623
  creation era, b 619
  Christian era, b 618–9
  Constantinopolitan era, b 620
  Diocletian era, b 621–2
  history of the art, a 616–7
  indiction, a 622
  Indian eras, b 623–4
  Jewish era, b 619–20
  Julian era, b 617, b 621
  Macedonian and Tyrian era, a 621
  Mahometan era, b 622
  Nabonassar era, b 620
  Olympiads, b 617–8
  Persian era, b 622-3
  Roman era, a b 618
  Spanish era, b 621
  TABLE of principal events to 1876, a 625–60
—— (Abraham), I, a 56; (Africanus, Julius), a 244; (Calvisius), IV, a 638; (Jesus Christ), XIII, b 670–1; (Judges), b 773–4, note; (Kings, Books of), XIV, a b 86; (Newton), XVII, b 459–60; (Usher), XXIV, b 22
——, Assyrian (Babylonia), III, a b 161; (Berosus), b 524–5; V, b 620
——, Egyptian (Apis), II, a 153; (Cheops), V, a 506; (Chephren), a 506; (Egypt), VII, b 631–3
——, geological (Archæology), II, a *b* 293; (Geology), X, a 261, a b 262, b 288–9; palæontological (Geology), a b 283, a 285–8
——, Greek (Archon), II, b 419; V, b 617–8; (Hellanicus), XI, *b* 566; (Thucydides), XXIII, b 347
——, Hindu (Asia), II, b 610; V, b 623–4; (Hill Tipperah), XI, a 733; (India), XII, b 827, *a* 829, notes
Chronology of History (Nicholas), XVII, a 503
——, Japanese, XIII, a 591, note
——, Persian, V, b 622-3; XVIII, b 573–4, a b 578 note, b 580 note
——, Rabbinical (Egypt), VII, b 641
CHRONOMETER, V, a 660; (Berthoud), III, b 526; (Harrison), XI, a b 442; (Navigation), XVII, b 265–6, b 269–70, a b 278; (Watch) (Ill.), XXIV, a 415–20; rating (Navigation), XVII, a 281–2; transport of (Time), XXIII, b 421
—— escapements (Watch) (Ill.), XXIV, b 417, b 418–9
Chronos, myth (Mythology), XVII, a 147
Chronoscope (Gunmaking), XI, a b 259; (Gunnery) (Ill.), b 264–8
CHRUDIM, town, V, a 660
Chrysalis (Butterflies and Moths) (Plates XXVII–XXX), IV, b 528–9
Chrysanthemum, flowers (Horticulture), XII, a b 262; (Marigold), XV, a b 551
Chrysaor, legend of (Gorgon), X, *a* 698
Chrysaora (Hydrozoa) (Ill.), XII, *a b* 590, *a b* 591
Chryse, Homeric town (Troad), XXIII, b 617
Chryselephantine art (Archæology), II, b 306, a 311, *a* b 312; (Carving), V, b 146; (Ivory), XIII, b 532, b 533
Chrysene (Tar), XXIII, b 63
Chrysididæ, family (Hymenoptera) (Ill.), XII, a 606, *b* 607, a 608, a 611
Chrysippus, myth (Pelops), XVIII, b 490
CHRYSIPPUS, Stoic, V, a b 660; (Carneades), b 106; (Ethics), VIII, a 516; (Scepticism), XXI, a 397; (Stoics), XXII, a b 590, a 591, a b 592, *a b* 594, *b* 595, b 596, *b* 598, b 599, *a* 600, a 601
Chrysoberyl (Mineralogy) (Ill.), XVI, b 377, b 379, a 388, b 402
Chrysocheir, chief (Paulicians), XVIII, a 445
Chrysochloridæ, family (Mammalia), XV, a b 409
Chrysochloris, genus (Mammalia) (Ill.), XV, a b 409, *b* 424, a 351
Chrysocolla, ore (Copper), VI, b 308; (Mineralogy), XVI, b 428
Chrysolampis, genus (Humming-Bird), XII, b 373
Chrysolite, gem (Magnesium) XV, b 218; (Mineralogy) (Ill.), XVI, a 385, a 387, b 402, b 427, b 432; (Peridote), XVIII, b 544, a 545; (Topaz), XXIII, b 474
Chrysoloras, John, scholar (Filelfo, F.), IX, b 141; (Greece), XI, a 133
CHRYSOLORAS, Manuel, scholar, V, b 660; (Greece), XI, *a* 133
Chrysomela (Herrick), XI, a 683
Chrysomelidæ, family (Coleoptera) (Ill.), VI, b 115, a b 121; (Insects), XIII, a b 156
Chrysomitra, stage of development (Hydrozoa), XII, a 599
Chrysomitris, genus of birds (Siskin), XXII, *b* 106, a 107
Chrysomonadina, family (Protozoa), XIX, b 881
Chrysopelea, species (Snake), XXII, b 205
Chrysophan, chemical (Rhubarb), XX, *b* 544
Chrysophanic acid (Lichens), XIV, a b 562
Chrysopolis, city (Constantinople), VI, b 269; (Scutari), XXI, b 600
—— (Ingolstadt), XIII, b 81
Chrysoprase (Agate), I, b 248; (Mineralogy), XVI, b 387, a 392, b 405
Chrysopoulos, scholar (Greece), XI, b 132
Chrysostom, rhetorician. See DION Chrysostom
CHRYSOSTOM, St. John, patriarch, V, b 660–2; (Canon), b 11; (Comana, Pontus), VI, b 158; (Cyril, Alexandria), a 663; (Easter), VII, a 531; (Epiphanius), VIII, b 428; (Fathers of the Church), IX, b 44, a 45; (Flavian I.), *b* 255; (Hermeneutics), XI, b 667; (Liturgy), XIV, *b* 712–3; (Missions), XVI, a 535; (Monachism), a 728, a 729; (Pelagia), XVIII, b 481; (Sunday), XXII, b 688
Chrysothrix, genus (Ape), II, b 135, a b 137, *b* 138, *a* 139, a 140, *a b* 141, a b 142, a 143, b 144, *b* 146
Chrysotis, genus (Parrot), XVIII, a b 329
Chrysotoluidine (Coal Tar Colors), XVIII, b 902, a b 904
Chrystalbin, resin (Gutta Percha), XI, b 302
Chthonian cult (Ethnography), VIII, a b 547; (Hecate), XI, *b* 543; (Hermes), a 670
Chu fibre. See RHEA
Chuapa, river (Zaire), XXIV, b 802
Chub, fish (Angling) (Ill.), II, a 39; (Roach), XX, a 597
Chubb, Charles, inventor (Safes), XXI, *b* 152; Locks of (Ill.), XIV, b 752–3
CHUBB, Thomas, deist, V, a b 662; (Deism), VII, a 31, b 32, a 33
Chubil Khāns, monks (Lāmäism), XIV, a 231
Chubu-Shoto island (Lew-Chew Islands), XIV, a b 489
Chubut river (Patagonia), XVIII, a 358
Chucks, tools (Lathe), XIV, a 325
Chuck-will's-widow, bird (Goatsucker), X, b 634
Chudic people (Finland), IX, a 191
Chufut-Kali, town (Bakhchisarai), III, b 215
Chu-hang, Buddhist priest (Ricci), XX, a 552
Chuintante, letter (Hieroglyphics), XI, a 714
Chukchees or Tchuktchis, tribe (Maritime Province), XV, b 554, a 555; (Siberia), XXII, b 13; (Walrus), XXIV, b 358, a 359
Chukotskiy, cape (Maritime Province), XV, b 554
Chumbe, ore (Zinc), XXIV, b 823
CHUNAR or Chunarghur, town, V, b 662
CHUND or Chandra Bardai, Hindu poet, V, b 662; (Hindustani), XI, b 750, a b 753
Chunda, goldsmith (Buddhism), IV, b 386
—— Sahib, pretender (Clive), VI, b 9, a 10
Chundernagore, town. See CHANDARNAGAR
Chunga burmeisteri, bird (Seriema), XXI, b 709
Chung-king Foo, department (China), V, b 554, a 555
Chung-too, city (Confucius), VI, b 231
Chunkhead, snake (Zoology, U. S.), XXIV, b 924
Chunnia, bird (Seriema), XXI, b 709, note
Chun Tsew or *Ch'un Ts'iu*, annals (China), V, a b 574. See CONFUCIUS
Chung-tsung, emperor (China), V, *a* 561
CHUPRAH, town, V, a 663
Chuquibamba Mt. (Andes), II, a 17
CHUQUISACA, city, V, a 663; department (Bolivia), IV, *a* 11, b 13, *a* 14, *a* 15. See SUCRE
CHUR or Coire, city, V, a 663; (Grisons), XI, b 182; (Switzerland), XXII, b 815 b 816
CHURCH, V, a 663–4
  definition of, a 663
  government of, a b 664
  Scriptures and, b 663–4
—— (Christianity), V, b 606–9; (Canon), *a* 9, b 10; (Councils), VI, a 198; (Church History), V, b 664–70; (Dream), VII, b 392–3; (Dogmatic), b 288–97; (Festivals), IX, b 101–3; (Finance), a 150; (History), XII, a b 26; (James), XIII, a b 563-4; (Latin Language), XIV, a b 339, b 340, a 342; (Paul), XVIII, a 438; (Priest), XIX, a 749; (Sacrifice), XXI, a 146–7; (Salutations), a 248; (Slavery), XXII, a b 908, b 909; (Torture), XXIII, b 492–3; (Witchcraft), XXIV, a 653–4, *a* 656
Church, town (St. Andrews), XXI, a b 166
——, Arthur Herbert, chemist (Flour), IX, b 302, b 303; (Wheat), XXIV, b 561, b 562; (Yam), b 763
——, Richard William, divine (Wordsworth), XXIV, b 709–10, note
——, Abyssinian (Greek Church), XI, a 139, a 142
——, amusements and the (Chess), V, a 521; (Drama), VII, b 363, b 364; (Horse), XII, a b 203
——, ARMENIAN, II, a 481-2; (Greek Church), XI, a 138, a 139, a 142. See ARMENIAN CHURCH
—— attendance (Census), V, b 291; (Sunday), XXII, b 689

Church, Architecture (Ill.), II, a 369–89; (Exeter), VIII, b 701; (Mural Decoration), XVII, a b 50-1, *a* b 52, a b 54; (Rickman), XX, b 563; (Rome), a 826, note, a 829, b 855, note; (Somerset), XXII, a 273. See Cathedral and Churches
—— in Asia Minor (Irenæus), XIII, b 279
——, Augustine's theory of (Baptism), III, b 301
—— authority (Heresy), XI, a 657; (Hermeneutics), a 667, b 668–9. See Church and State, Papal Supremacy
—— buildings, regulation of (London), XIV, a 860; (Nonconformity), XVII, b 546
—— Clocks (Ill.), VI, a 27–31
—— condemnation of books (Bibliography), III, b 569–70. See Censorship and INDEX
——, corruption of (Reformation), XX, b 333–4, a 336, a b 337–8, a 347
—— of the desert (Camisards), IV, b 657, *b* 658
—— decorations (Mural Decorations), XVII, a b 50–1, *a* b 52, a b 54; (Wood-Carving), XXIV, a 681–2
—— discipline (Law), XIV, b 360; (Mennonites), b 15, a 16; (Penance), XVIII, b 496–7; Act of (England), VIII, b 341; in New England (United States), XXIII, a 780, note
—— disestablishment (Austria), III, a 115; (Geneva), X, a 135; (Italy), XIII, b 469-70; (Ireland), b 246; (Milton), XVI, b 346; (Mexico), XXI, a 905
——, Early (Antioch), II, a b 116; (Deacon), VII, *a* 3; (Drama), b 356-7; (Homily), XII, b 128-9; (Horse), a 203; (Image Worship), a 750, b 752; (Incense), b 759-60; (Inspiration), XIII, b 161–2; (Jesus Christ), a b 681–2; (Libraries), XIV, b 511; (Mauretania), XV, a 644; (Relics), XX, b 368-9; (Romans), a 746-9; (Sabbath), XXI, b 133-4; (Stephen), XXII, a 560; organization of (Pastoral Epistles), XVIII, b 353–4; (Paul), a 439
——, Eastern (Bishop), III, a 684; (Canon Law), V, a 16; (Greek Church), XI, a 137–42; (Heresy), b 655
—— of England, VIII, b 224–5, a b 252, b 291–2, a 304, b 305–6, a 312; (Advowson), I, b 162; (Altar), b 563, *a* 564; (Articles), II, b 571–2; (Baptism), III, b 303; (Benefice), b 482–3; (Bishop), a 684–5; (Breviary), IV, b 235; (Burial), a b 480; (Calendar), a 601; (Canada), b 675–6, b 689–90; (Canon), V, b 14; (Catechism), *a* 192; (Confession), VI, a 229; (Consistory), a 261; (Deacon), VII, a 3; (Dean), b 14, a 15; (Divorce), b 262; (Ecclesiastical Commission), a b 542; (Ecclesiastical Law), a b 543; (Fasting), IX, *b* 43; (Festivals), a 103; (Hampden), XI, b 383; (Harold II., Eng.), b 435-6; (Henry VIII.), b 592; (Hierarchy), b 707; (Hoadley), XII, b 31; (Homily), b 129; (Hymns), b 623–30; (Incense), a 760; (Independents), b 761, a b 762, b 766; (Indulgence), a 888; (Jamaica), XIII, a 560; (Knox), XIV, a 132; (Laud), a b 347; (Lanfranc), a 284; (Liturgy), a 716–7; (Methodism), XVI, b 194, a 195; (Milton), b 340–1, b 346; (New Jersey), XVII, b 408; (Order), b 844; (Penance), XVIII, b 498; (Predestination), XIX, b 690–1; (Presbyterianism), a 705–10; (Relics), XX, a 370; (Saint), XXI, a 164; (Sponsors), XXII, b 446; (Stanley), b 468, b 470-71; (Vestments), XXIV, b 211; (William I., II.), a 608, b 609-10
—— Augustine and the (England), VIII, a 251; (Parker), XVIII, b 305; Norman (Parliament), b 309; (Normandy), XVII, a 557; revenues (Peel), XVIII, a 467; settlement of (Parker), b 305; subscription in (Paley), a 186
—— Fathers. See FATHERS OF THE CHURCH
—— of God (Winebrenner), XXIV, a b 902
—— government. See Church polity
—— *Government* (Milton), XVI, a 341
——, Greek. See GREEK CHURCH
Church-hand, writing (Typography), XXIII, *a* 725
CHURCH HISTORY, V, b 664–a 670
  definition, b 664–5
  literature, b 667–70
  method, a 666–7
  reformation, b 668–9
  scientific, a 669–70
  sources, b 665–6

—— (Fleury), IX, b 267; (Gieseler), X, a b 526; (Mosheim), XVI, b 890; (Neander), XVII, *a* 314; (Socrates), XXII, *b* 251, a 252-3
—— of Jesus (Mexico), XVI, a 227
—— interdicts of learning (Arabian Philosophy), II, b 236
—— lands (Crusades), VI, a 551; mediæval administrators of (Rome), XX, a 803; sale of (France), IX, a 529; seizure of, in England (Arboriculture), II, b 275; sequestered (Scotland), XXI, a b 530
——, Latin or Western. See Latin Church
——, mediæval (Germany), X, a b 429, a 435, *b* 436, b 437, a 438–9, a 446; (Iceland), XII, b 655–7; (Israel), XIII, b 440, notes; (Knighthood), XIV, b 117; (Libraries), a 512–13; (Luther), XV, a b 74, a 76; (Neoplatonism), XVII, a b 347–8; (Political Economy), XIX, a b 365; Roman (Scotland), XXI, b 503, a *b* 504–5, a b 506, b 513, a 518
——, Orthodox or Russian. See Orthodox Church
—— polity (Baptists), III, a 307; (Brownists), IV, a 353; (Calvin), a 635, b 636, b 637; (Independents), XII, a b 761, a b 762, a b 763, a b 764, note, a b 765, b 766–7; (Mandæans), XV, a 477; (Manichæans), a 492; (Pastoral Epistles), XVIII, b 353–4; (Presbyter), XIX, a b 695; (Presbyterianism), a b 698; (Scotland), XXI, a 525; French (Presbyterianism), XIX, a 713, b 715; Netherland (Presbyterianism), a b 716
—— property, rise of (England), VIII, b 252
—— rates. See Rates
——, Roman. See ROMAN CATHOLIC CHURCH
—— Russian. See Orthodox Church and Russian Church
—— of Scotland. See FREE CHURCH OF SCOTLAND, PRESBYTERIANISM, and SCOTLAND, CHURCH OF
Church of Scotland, History of (Calderwood), IV, b 587
——, secularization of (Montanism), XVI, a 801
—— and State (Brazil), IV, a 214, a 215; (England, Church of), VIII, b 340–1; (Germany), X, a 422; (Hooker, R.), XII, a 156; (Independents), b 761, a b 762, a b 764-5; (Presbyterianism), XIX, a 697–8; (Prussia), XX, a 21; (Rothe), XXI, a 6; (Stanley), XXII, b 470–1. See Erastianism
Church and State (Coleridge), VI, *b* 123, a b 124
CHURCH, STATES OF THE, or Papal States, XXII, b 477–8
—— Union Society (Burgess), IV, b 477
—— of Utrecht (Jansenism), XIII, a 577
—— vaults (Cemetery), V, a 286
——, Visigothic (Spain), XXII, b 323–4
—— wardens (Bishop), III, b 684; (Parish), XVIII, a 302
—— windows (Glass), X, b 579
CHURCHES. List of those especially described. See also Abbeys, Cathedrals, Chapels
  Aal, Norway (Wood-Carving), XXIV, a b 680–1
  Abbeville, St. Wolfran, I, b 16
  Aberdeen, West and East, I, b 43
  Abergavenny (Wood-Carving), XXIV, b 680, a 681
  Amsterdam, Old and New, I, b 684
  Antioch, Syria, II, a b 116
  Antwerp, St. Charles

CHURCHES, *continued*
  (Rubens), XXI, b 48; St. James, II, a 128
  Arundel, St. Nicholas, II, a 586
  Assisi, St. Francis's, II, b 637-8; (Fresco), IX, b 676, a b 677; (Giottino), X, a b 543; (Giotto), a b 544; (Guinta Pisano), a 577; (Glass), *b* 590, *a* 597, a b 598

  Benedictine (Abbey), I, b 18, *a* 19
  Bethlehem, Nativity (Basilica) (Ill.), III, b 361, a 362; (Monreale), XVI, b 786
  Beverley, St. John's, III, b 536
  Birmingham, St. Martin's, III, a 679
  Bishopstone (Architecture), II, b 402
  Bologna, San Domenico (Pisano), XIX, b 133; San Petronio, IV, b 18; (Architecture), II, b 399; San Stefano, IV, b 18
  Bonn, St. Cassius, IV, b 30
  Boston, England, St. Botolph's, IV, a 64
  Bourg, Notre Dame, IV, b 159
  Bradford, St. Peter's, IV, a 179
  Brescia, St. Clement's (Moretto) (Ill.), XVI, b 847
  Bristol, All Hallows, IV, a 317; St. Mary Redcliff's, b 317; (Chatterton), V, *b* 385–6, b 389; St. Stephen's, IV, b 317
  Brixworth (Basilica), III, a 362; (Northampton), XVII, b 570
  Bruges, Notre Dame, IV, a 356
  Burlington, N. J., St. Mary's (Talbot), XXIII, a 919
  Bury St. Edmond's, St. Mary's, IV, a b 511
  Busto Arsizio, Santa Maria, IV, a 516

  Caen, St. Étienne, IV, a 561; St. Pierre, a 561
  Calais, Notre Dame, IV, a 578
  Cambridge, St. Benet's, IV, b 645; Sepulchre, b 645
  Canterbury, Christ Church (Cloister), VI, b 35; St. Martin's, V, a 28
  Casale, San Domenico, V, b 149
  Châlons-sur-Marne, Notre Dame, V, b 328; St. Prudentius, b 328
  Chatillon-sur-Seine, St. Vorle, V, a 385
  Chepstow, priory, V, b 506
  Chesterfield, All Hallows, V, b 526
  Chivasso, St. Peter's, V, b 587
  Cistercian (Abbey), I, *a* 24
  Cividale (Sculpture), XXI, b 583

CHURCHES, *continued*
Clairvaux(Abbey),I, b 22
Clermont, Notre Dame, (Architecture), II, b 399; V, b 723
Clugny (Abbey), I, a 21
Como, St. Abondia, VI, a 196
Condom, St. Peter's, VI, a 225
Constantinople, ancient, VI, b 271, a b 272; mosques, a b 272; St. Benedict's, b 273; St. John's Studios (Basilica), III, b 361; St. Sophia (Anthemius), II, b 91; (Florence), IX, b 579; (Metal Work), XVI, a 80; SS. Sergius and Bacchus, XIII, a 805
Copenhagen,FrueKirke, VI, a 306; Saviour's VI, 306
Corhampton (Hampshire), XI, a 386
Courtrai, St. Martin's, VI, b 462
Coventry, St. Michael's, VI, b 470
Cranbrook, St. Dunstan's, VI, a 484
Cremona, St. Margaret's (Campi), IV, b 672
Cumbrae (Cathedral), V, a 198

Dantzic, St. Mary's,VII, b 456
Deggendorf, Sacred Tomb, VII, a 30
Devizes, St. John's (Arcade) (Ill.), II, *b* 285; VII, b 119
Dover, parish,VII,a 329; St. Mary's the Virgin, b 329
Dumfries, Greyfriars, VII, b 456; St. Mary's, b 456; St. Michael's, b 455
Dunbar, VII, a 459
Dunfermline,VII,a b 468

Earl's Barton (Architecture), II, b 372
Edinburgh,St.Giles,VII, a 572, a 573, a 579
Escorial, VIII, b 477
Essex, Saxon,VIII, b 489

Ferney (Voltaire), XXIV, a 311
Florence, San Ambrogio (Rosselli), XX, a 879; San Francesco di Paolo (Robbia), a 605; San Lorenzo (Michel Angelo), XVI, b 241-2; San Michele (Ghiberti), X, b 506; (Orcagna), XVII, b838-9; San Salvatore (Glass), X, b 593; Santa Croce (Gaddi), *b* 6; (Giottino), a 543; (Giotto), a 545; (Glass), *a* 597, a 598, b 599; Santa Maria Novella(Cimabue), V, *a* b 680; (Gaddi), X, b 6, a 7; (Ghirlandajo), *b* 507, a 508; (Giottino), a 543; (Glass), a 598; (Orcagna), XVII, a 838; (Robbia), XX, a 607; Santa Trinita (Ghirlandajo), X, b 507

CHURCHES, *continued*
Fontevrault (Architecture), II, b 376; IX, a 320
Fountains Abbey, I, a 25
Frankfort, St. Bartholomew's, IX, a 621; St. Leonhard's, a 621
Freiburg, St. Nicholas, IX, b 671

Galway, St. Nicholas, X, a 52
Genoa, Annunziata, X, a 139; San Matteo, b 139; Santa Maria de Carignano,b 139,b 142; SS. Ambrogio e Piètro, a b 139
Gerona, St. Felix, X, a 490
Ghent, St. Bavon, X, b 503-4; (Schools of Painting), XXI, b 466
Girgenti, S. Maria dei Greci, X, b 555
Gisors, X, a 557
Glasgow, St. John's (Chalmers), V, b 325-6
Goes, St. Mary Magdalene's, X, b 642
Gondar, of the Light, X, b 685; Quisquam, b 685
Gotha, Margaret, X, b 750
Gouda, St. James, XI, a 3
Grantham, XI, b 46
Gratz, Sacred Blood, XI, a 57; St. Catherine's, a 57
Great Malvern (Encaustic Tiles), VIII, a 171
Grenoble, St. André, XI, a 165

Haddington, Lucerna, XI, a 324
Hal, XI, a 339
Halberstadt,Liebfrauen, XI, *b* 339
Halifax, All Souls', XI, a b 343
Ham, Notre Dame, XI, a 358
Hamburg, St. Michael's, XI, a b 361-2; St. Nicholas, *b* 361; St. Peter's, a b 362
Hamstead, St. John's, XI, b 386
Harfleur, St. Martin's, XI, *a* b 428
Hartlepool, St. Hilda, XI, a 445
Heilbronn, St. Kilian, XI, a b 557
Hereford, Irish-Norman, XI, b 653
Hexham, XI, a b 700; (Northumberland), XVII, b 581, a 582
Hitchin, XII, b 27
Holyhead, St. Gybi,XII, a b 108
Honfleur, St. Catherine's, XII, a 144
Horsham, XII, b 212
Hull, Holy Trinity,XII, b 354
Hythe, St. Leonard's, XII, a 636

Ingelheim, XIII, b 80
Innsbruck, court, XIII, a 93
Ipswich, St. Margaret's, XIII, b 218; St. Pancras, b 218

CHURCHES, *continued*
Issoire, St. Paul's, XIII, b 442
Issoudun, St. Cyr, XIII, b 442

Jerusalem, Holy Sepulchre (Basilica), III, b 361; (Prester John), XIX, a 737, note; (Sepulchre), XXI, b 702, b 703-4
Jumilla Santiago, a 842

Kampin, St. Nicholas, XIII, a 843
Kempley (Mural Decorations), XVII, a 51; (Tempera), XXIII, a 843

Lastingham (Crypt),VI, b 591
Lesuwarden, Jacobin, XIV, b 410
Linlithgow, St. Michael's, XIV, b 677, note
Lisbon, St. John the Baptist's,XIV, b 697-8
London, All-Hallows, Barking, XIV, a 848; French Savoy (Camisards),IV, b 658, a 659; St. Andrew's Undershaft, XIV, a 848; St. Bartholomew's (Whittington),XXIV,b 586; St. Clement Dane's, XIV, b 848; St. Giles, Cripplegate, a 848; St. Margaret's, Westminster, a 848; St. Mary-le-Bow, a b 848; St. Mary-le-Strand, a b 848; St. Pancras,b 848; St. Saviour's, Southwark, a 844, a 848, b 855; St. Swithin's, b 848; St. Thomas of Acon, a *b* 844, a 848; Temple (Sculpture), XXI, b 584, note; Trinity in the Minories, XIV, a 848
Loreto, Santa Casa, XV, b 5-6; (Sansovino), XXI, a 310
Louviers, Notre Dame, XV, a 28

Maestricht, Our Lady, XV, a 197
Maidstone, All Saints, XV, b 296
Marseilles, Notre Dame, XV, a 579; St. Victor, a 579
Mendicant Friars (Abbey), I, *a* b 27
Meran, St. Nicholas, XVI, b 34
Meteora, XVI, b 119
Mézières, XVI, b 231
Middleton, St. Leonards, XVI, a 294
Milan, S. Ambrogio (Architecture), II, b 380; XVI, b 303; Santa Maria, XVI, b 303; San Maurizio (Luini),XV, b 63; San Satiro, XVI, b 303
Mons, St. Wandru, XVI, a 788
Montefalco, St. Francis (Gozzoli), XI, a 23
Monte San Angelo, St. Michael's, XVI, b 808

CHURCHES, *continued*
Monza, Santa Maria, XVI, b 824
Murano, San Donato, XVII, a 54

Nancy, Cordeliers', XVII, b 177
Naples, Certosa, XVII, b 196; Monte Oliveto (Pontanus),XIX,a 469
Narbonne, St. Paul's, XVII, a 236
Neri, Santa Maria in Vallacelli,XVII, a 356
Nevers, St. Étienne, XVII, a 378
Newark, St. Mary Magdalene, XVII, b 378-9
Newport, England, St. Woollos, XVII, a 416
New York, St. Paul's (Montgomery),XXIII, a 839, note; XVII, b 896; Trinity, b 896
Nimeguen, St. Stephens, XVII, b 522-3
Niort, Notre Dame, XVII, a 527
Normantown, All Saints, XVII, a 565
Northampton, St. Sepulchre, XVII, a 571
Norwich, St. Peter Mancroft, XVII, a 609
Nuremberg, St. Sebald's (Sculpture), XXI, *a* b 592

Odense, St. Canute, XVII, b 744
Oppenheim, St. Catherine's, XVII, a 820
Orleans, St. Aignan, XVII, b 874-5
Oviedo, Santa Maria (Architecture), II, b 378
Oxford, St. Mary's, XVIII, b 98; St. Peter's (Crypt), VI, a 592

Padua, Eremitani (Guariento), XI, a 210; XVIII, a 136; St. Anthony's, a 136
Paris, Madeleine, XVIII, b 281; St. Étienne (Largilliere), XIV, b 314; Ste. Genevieve, XVIII, b 281, a b 293, a 298, b 299; St. Germain l'Auxerrois, b 281, b 294; St. Germain des Prés, b 281, b 293, a b 294; St. Sulpice, b 281; Vow of the Sacred Heart, b 281
Parma, San Giovanni, XVIII, a 320: (Parmigiano), a 323; Santa Maria della Steccata, a 320; (Parmigiano), b 323
Pavia, Certosa (Fossano), IX, b 415; (Pianoforte), XIX, b 73; (Sculpture), XXI, a 595-6; San Michele (Architecture), II, a 381
Périgueux, St. Front (Architecture), II, b 369, a 376; XVIII, b 545
Perth, St. John's, XVIII, b 680, a 681

CHURCHES, *continued*
Perugia, San Domenico, XVIII, a 694; (Pisano), XIX, a 132; San Pietro, XVIII, a 694; Santa Maria de' Fossi (Pinturrichio), XIX, b 117
Peterborough, St. John's, XVIII, b 713
Philadelphia, Christ Church, XVIII, a b 751
Piacenza, San Francesco, XIX, *a* 72; San Sisto, a 72; Sant' Antonia, a 72
Poitiers, St. Jean's, XIX, b 293
Pontefract, All Saints, XIX, b 469; St. Giles, b 469
Portsmouth, St. Thomas's, XIX, a 550
Provins, St. Ayoul, XIX, b 912; St. Quiriace, b 911
Puy, St. Michel's, XX, a 125

Råda, Sweden (Mural Decorations) (Plate I), XVII, b 54
Ravenna, S. Apollinare Nuova and in Classe (Architecture), II, *b* 380; (Basilica) (Ill.), III, *a* b 358, b 360; XX, *a* 309; SS. Nazario e Celso, a 309; San Vitale (Architecture), II, a 372, b 376, b 380; (Justinian I.), XIII, a 805; (Mosaic) (Ill.) XVI, b 879, a 880; XX, a 309; (Theodora), XXIII, b 273
Reigate, St. Mary's, XX, a 365
Repton (Crypt), VI, b 591–2
Rimini, St. Francis's, XX, b 571, b 572–3
Ripon (Wilfrid), XXIV, *b* 597
Rome, Ara Cœli (Mosaic), XVI, b 881; (Pinturrichio), XIX, b 117; Early buildings (Plate VIII), XX, b 854–6; Saint Agnes (Architecture), II, a b 380; (Basilica), III, a 358, a 360; St. Cecilia, V, b 247; (Pinturrichio), XIX, b 117; San Clemente (Architecture), II, a 380; (Basilica) (Ill.), III, a b 360, a 361; (Catechumens), V, *a* 193; (Mural Decorations), XVII, a 50; (Rome) (Ill.), XX, b 854, note, a 855, note; San Constanza, (Ill.) XX, b 855–6; (Mosaic), XVI, b 878, a 879; San Giovanni dei Fiorentino (Sangallo), XXI, a b 278; San Giovanni Lateran (Basilica), III, *a* b 358, b 359; (Cloister), VI, a 36; San Laurente (Basilica), III, b 357, a b 358, b 359–60; San Paolo (Architecture), II, b 380; (Cloister), VI, a 36; S. Paolo fuori, XX, a b 826, note, b 856, b 858; (Metal-Work), XVI, b 80; S. Pietro. See St. Peter's; S. Pietro in Vincoli, XX, a 826, note, b 855, a 856, note; Santa Croce (Basilica), III, b 357, b 359, a 360; Santa Maria, Cosmedin (Architecture), II, b 380; S. Maria del Popolo (Mino de Giovanni), XVI, b 500; (Pinturrichio), XIX, a 117; (Sansovino), XXI, b 309; (Tiles), XXIII, a 416; S. Maria di Loreto (Sangallo), XXI, a 278; S. Maria Maggiore (Basilica), III, b 357, *a* 358, b 359; (Gaddi), X, b 6; (Mosaic), XVI, a b 879; (Rome), XX, a 826, note, *b* 855, *b* 856, a 857, b 859; S. Maria Sopra Minerva, XX, b 857; (Lippi), XIV, a 691
Rouen, St. Gervase (Crypt), VI a 592; St. Maclou, XXI, b 17; St. Ouen, a b 17

Saffron-Walden, St. Mary the Virgin, XXI, a b 154
St. Albans, St. Michael's, XXI, a 164 (Wood-Carving), XXIV, b 681, note
Saintes, St. Eutropius, XXI, b 175–6
St. Quentin, XXI, b 206
San Gemignano (Gozzoli), XI, a 23
Segovia, San Millan (Architecture), II, b 378, b 379
Sevenoaks, St. Nicholas, XXI, a 730
Sheffield, St. Peter's, XXI, b 822
Shrewsbury, Holy Cross, XXI, b 884; St. Mary's, b 884; (Pianoforte), XIX, a b 73
Siena, San Domenico, XXII b 44; (Guido), XI, b 229; San Francesco, XXII, a 44; San Giovanni, a 44
Stafford, St. Chad's, XXII, b 460
Sterling, Greyfriars, XXII, b 582
Stratford, Holy Trinity, XXII, a 619; (Shakespeare), XXI, b 778, a 803

Tangermünde, St. Stephens (Terra Cotta), XXIII, b 211
Tenby, St. Mary's, XXIII, a 189
Thessalonica, St. Demetrius (Venice), XXIV, a b 163 note
Torcello, St. Fosca, XXIII, b 475
Tottenham, All Hallows, XXIII, b 506
Toul, St. Étienne, XXIII, b 513
Toulouse, Jacobin, XXIII, a 516; St. Sernin, *b* 515–6, note; (Architecture), II, b 378
Trent, Santa Maria, XXIII, a 578
Tudela, XXIII, a 642

Ulverston, St. Mary's, XXIII, b 769

Verona, San Fermo, XXIV, a b 185, b 186; (Architecture), II, b 399, a 400; Santa Anastasia, XXIV, a 185, b 186, b 187; (Architecture), II, b 381, b 399; San Zeno, XXIV, b 184, *b* 186, a 187; (Architecture), II, a 372, b 399
Venice, Frari (Architecture), II, b 381; St. Mark's (Architecture), b 369, b 380–1, b 381, a 383, b 398, b 399; (Crypt), VI, a 592; (Dandolo), a 707; (Fine Arts), IX, a 178; (Glass), X, a b 579; (Metal-Work), XVI, a 77, a 79, a 80; (Mosaic), b 879, *b* 880, a 881; (Venice) (Plan), XXIV, a 154, a 155, b 160, a b 162–5, b 169; San Giacomo, a 167; San Gregorio, a 167; San Sabastiano (Veronese), b 187, a 188; San Stefano, a 167; SS. Giovanni e Paolo, b 166; Santa Maria dei Miracoli, a 167, a 169; S. Maria dell 'Orto (Robusti), XX, a 624–5, a 626; S. Maria Gloriosa, b 166
Vienne, St. Peter's, XXIV, b 240
Vienna, Alsergrund, XXIV, a 238
Villefranche de Rouergue, Notre Dame, XXIV, b 246

Wakefield, All Saints, XXIV, b 338–9
Walthamston, St. Mary's, XXIV, a 361
Walton, St. Leonard's, XXIV, a 362
Ware, St. Mary's, XXIV, a 391
Warwick, St. Mary's, XXIV, *a* 401
Wednesbury, St. Bartholomew's, XXIV, b 503
Wellington, St. John's XXIV, a 521
Wells, St. Cuthbert's XXIV, a 528
West Ham, All Saints, XXIV, b 537
Wicklow, St. Kevin's XXIV, b 726
Wimborne minster, XXIV, b 627
Wisbech, SS. Peter and Paul, XXIV, b 648
Wolverhampton, St. Mary's, XXIV, a b 670
Woodstock, St. Mary Magdalene's, XXIV, a 687
Wrexham, St. Giles, XXIV, b 726
Wycombe, XXIV, b 747

CHURCHES, *continued*
Yarmouth, St. Nicholas, XXIV, a 765
Yeovil, XXIV, b 780, a 781
York, St. Mary's, XXIV, a 787
Youghal, St. Mary's, XXIV, b 792

Zittau, XXIV, b 829
Zurich, Dominican, XXIV, b 869; Munster, b 869, a 870; St. Peter's, a 869; Wasser Kirche, b 869–70

CHURCHES, REFORMED, XX, a b 352. See specific names of Reformed Churches
——, round (Essex), VIII, b 489; (Inns of Court,) XIII, a 96; (Northampton), XVII, a 571; (Rome) (Ill.), XX, b 855–6
Churchill. See MARLBOROUGH, dukes of
——, Arabella, concubine (Marlborough), XV, a 560
CHURCHILL, Charles, satirist, V, a b 670; (Hogarth), XII, *a* 52; (Johnson, S.), XIII, a 736; (Sheridan), XXI, a 833
——, Colonel (Druses), VII, b 418 note, a b 419, note, *b* 420
Churchman, The (Seabury), XXI, a 914
CHURCHYARD, Thomas, poet, V, b 670
Church-yards (Burial), IV, a *b* 480; Crosses in, VI, a b 541
Churns and churning (Dairy), VI, a b 679
Churriguerra, Joseph, architect (Architecture), II, b 386
Churrus, drug (Bhang), III, *b* 542; (Hemp), XI, a 579; (India), XII, b 811. See Charas
Churton, Edward, archdeacon (Góngora y Argote), X, b 686
CHUSAN, island, V, b 670–1; (China), b 552, *b* 565; daisy (Horticulture), XII, a 262
Chusquea, genus (Grasses), XI, a b 53
Chute d'un Ange (Lamartine), XIV, *b* 234, a 235
CHUTIÁ NÁGPUR, district, V, a b 671; Tributary States, b 671–2; hills (Madras), XV, a 185, *a* 188; table-land (Lohárdagá), XIV, a b 815
Chutisgurh, division. See CHHATISGARH
CHUTTERPUR, city, V, a b 672
Chutuktus, abbots (Lāmāism), XIV, a 231
Chuvash Dictionaries, VII, a 167
Chwan-chow, town (Polo), XIX, b 419
Chwang-tsze, historian (Lâotsze), XIV, *b* 295, a 298
Chwen-Chang, town (Kirin), XIV, a b 98
Chwolsohn, Daniel, antiquary (Sabians), XXI, b 136
Chydenius, Samuel, machinist (Baltic), III, *a* 255

Chyle (Anatomy), I, a 743, b 796; (Digestive Organs), VII, a 197; (Hunter, J.), XII, b 406; (Nutrition), XVII, *b* 688, b 697–8
Chyluria, disease (Parasitism), XVIII, b 275
Chyme (Nutrition), XVII, b 689, a 693, *b* 696
Chytridieæ, fungi (Parasitism), XVIII, b 271
Chytridiaceæ, order of fungi (Reproduction), XX, b 438; (Vegetable Kingdom), XXIV, a *b* 139, a 140
Cialdi, Capt. A. (Harbors and Docks), XI, b 407, b 408, a 422
Cialina, Catharine, nun (Stigmatization), XXII, b 577
Ciamberi, town (Chambery), V, a 331
Cian or Conn, god (Celtic Literature), V, *b* 260
CIBBER or Cibert, Caius Gabriel, sculptor, V, *b* 672
CIBBER, Colley, actor, V, *b* 672–3; (Drama), VII, a b 377; (Fielding, H.), IX, a 126, a 127; (Pantomime), XVIII, b 219, a 220
Cibo, Giovanni Battista. See pope INNOCENT VIII.
Cibo or Cybo, duchess (Capuchins), V, *b* 71
Ciborium, tabernacle (Architecture), II, b 405
Cibotium, genus (Tree-fern), XXIII, *b* 568
Ciboule, plant (Horticulture), XII, b 297
Cibrario, Luigi, historian (Chieri), V, b 534; (San Marino), XXI, a 280; (Political Economy), XIX, b 400
Cibyra, town (Numismatics), XVII, a 666
CICACOLE, town, V, a 673
Cicadæ (Insects), XIII, a 160; (Locust), XIV, b 771; (Hemiptera), XI, b 576
Cicalfa, Mount, volcano (Riobamba), XX, a 577
Cicer arietinum (Gram), XI, b 33
CICERO, Marcus Tullius, orator, V, a 673–5; (Academy), I, *a b* 67–8; (Æsop, Clodius), a 191; (Agriculture), a 261; (Anatomy), b 703; (Antonius, M.), II, b 123, *a* 124; (Archimedes), a 333; (Asconius), b 593; (Atticus), III, a 54; (Augustus), *b* 69; (Bellenden, Wm.), *a* 471; (Book-Keeping), IV, a 40; (Burke), *a* 482; (Cæsar), b 563, *a b* 564; (Catilina), V, b 207, *a* 208; (Catullus), a 216, *a* 218; (Cilicia), a 680; (Cratippus), VI, a 491; (Dialling), VII, a 132; (Divination), b 254; (Dolabella), b 297, a 298; (Dream), *b* 392, a 393; (Druidism), b 412; (Eclectic), a 558; (Exchange), VIII, a 686; (F.), a 729
—— (Finance), IX, a 152; (Games), X, a 59; (Gladiators), *b* 563; (Government), XI, a 10; (Hannibal), b 397; (Hortensius), XII, *b* 214, b 215; (Hume), a 361; (Isocrates), XIII, a b 399, a b 402; (Latin), XIV, b 330, a 332, a *b* 333, a 334; (Livy), a 738; (Lucretius), XV, a b 53 note, a 54, b 56; (Macrobius), b 168; (Magic), a b 203; (Milo), XVI, a 336
—— (Pacuvius), XVIII, a b 135; (Panætius), a 212; (Posidonius), XIX, a 576; (Quintilian), XX, *a b* 194; (Rhetoric), b 525, b 528; (Roman Law), *b* 697, a 698, a 699, a 704, b 705, b 706–7, b 714, a b 716, a 717, a 718, a 719 note, b 720 note; (Roman Literature), a b 738, a 739–40; (Rome), b 751 note, a 774, *a* 778, a 779, b 781, a b 782–4, b 786–7, b 842
—— (Scepticism), XXI, a b 397; (Stoics), XXII, a b 600, note; (Syracuse), b 856; (Terence), XXIII, a 205; (Torture), b 490, a 491, note; (Tusculum), a 714; (Valerius Maximus), XXIV, a 48; (Varro), *a b* 100; (Verres), b 189; (Virgil), a b 267
—— on Aristotle, II, b 450, and note; on Art, b 557, a 558
——, *Life of* (Middleton, Conyers), XVI, b 294
Cicero, MSS. (Palæography), XVIII, b 156, a 157, b 166, a 168
——, villa of (Arpino), II, a 549
Cicero, Quintus Tullius, officer (Drama), VII, a 355; (Dream), b 392
Ciceronian age (Roman Literature), XX, a 739–41
Cicero's *Familiar Letters* (Petrarch), XVIII, a 721; *Orations* (Italy), XIII, b 516
Cicester, town (Cirencester), V, a 692
Cichorium, plants (Horticulture), XII, a 293, b 294
Cichyrus or Ephyra, town (Epirus), VIII, b 429
Cici of Istria, colony (Vlachs), XXIV, a 290
Cicindelidæ (Coleoptera), VI, a b 115, b 116, a b 117
Ciclatoun, gold cloth (Textiles), XXIII, a 228
Cicogna, Pasquale, doge (Venice), XXIV, a 158
CICOGNARA, Leopoldo, Count, archæologist, V, a b 675; (Ghiberti), X, b 506
Cicognini, G. A., dramatist (Drama), VII, a 362
Ciconia, bird (Adjutant), I, *a* 141; (Birds), III, b 671; (Stork), XXII, *b* 605, a b 606
Cicuta virosa (Botany), IV, b 87
CID, The, Rodrigo Diaz de Bivar, or Ruy Diaz Campeador, V, b 675–7; (Alphonso VI.), I, a 541; (Burgos), IV, a 478; (Spain), XXII, a 330, a 367
Cid (Corneille), VI, a *b* 370, *b* 371, b 372, a 373
Cidaris, genus (Echinodermata) (Ill.), VII, b 545, *a* b 546, *a* 547
CIDER, beverage, V, a b 677; (Apple), II, a 185; (Calvados), IV, b 631; (Devonshire), VII, a 122; (France), IX, b 460; (Manche), XV, b 466
Cieco, Francesco, of Ferrara, poet (Italy), XIII, a 518
CIENFUEGOS, Nicasio Alvarez de, poet, V, b 677; (Spain), XXII, b 374
Cienkowski, naturalist (Parasitism), XVIII, b 273, b 274 note; (Protozoa), XIX, *b* 866, *b* 875
Cieza, town (Murcia), XVII, a b 58
Cieza or Cieça de Leon, Pedro, historian (Geography), X, a 163; (Peru), XVIII, b 692, a 693
CIGAR, V, a 678; (Manila), XV, a b 495; (Tobacco), XXIII, a *b* 453, a b 454; Royal factory (Seville), XXI, a 743
Cigarette wrappers (Fibres, Textile), IX, b 116
Cigarettes (Tobacco), XXIII, b 454
Cigna, Giovanni Francesco, anatomist (Lagrange), XIV, a 208
CIGNANI, Carlo, painter, V, a 678
CIGOLI, Luigi Cardi da, painter, V, a b 678; (Galileo), X, a 29
Cilia (Anatomy), I, a 744; (Histology) (Ill.), XII, a 6, *b* 7, b 11; (Ichthyology), a 694
Ciliary muscle (Anatomy), I, b 779, a 782; nerves (Anatomy), I, b 774, a b 779, a 780; plant movement (Physiology), XIX, a b 69, b 70; processes (Anatomy), I, a *b* 779, b 781
Ciliata, class (Protozoa) (Ill.), XIX, a b 855, b 857, *a* b 858, *b* 860, a b 885, a *b* 886–9; (Zoology), XXIV, a 851
Ciliated forms (Schizomycetes) (Ill.), XXI, b 418; rings (Mollusca) (Ill.), XVI, a 662, b 688, b 691
CILICIA, province, V, b 678–80; (Asia Minor), II, b 615, a 616, a b 619, b 620, a 621; (Cappadocia), V, *b* 67; (Numismatics), XVII, b 665, *b* 677; (Phœnicia), XVIII, a b 818; (Piracy), XIX, a 126; coinage in (Weights and Measures), XXIV, b 515
Cilician gates (Asia Minor), II, a 616
Cilicians, people (Asia Minor), II, a 622; (Semitic Languages), XXI, b 676
Cilioflagellata, order (Protozoa), XIX, b 884
Cilnii, family (Mæcenas), XV, a b 195
CIMABUE, Giovanni, painter, V, a 680–1; (Fresco), IX, b 676, *a* b 677, b 678; (Giotto), X, a 544; (Guido), b 229; (Mosaic), XVI, a 879, a 880; (Schools of Painting) (Ill.), XXI, *a b* 451, b 452
CIMAROSA, Domenico, composer, V, a b 681
Cimbex, insect (Hymenoptera), XII, b 606, *b* 608, a 610
CIMBRI or Cimbrians, tribe, V, b 681–2; (Alps), I, b 554; (Germany), X, b 426; (Spain), XXII, b 321
Cimbrian Celts (Gaelic), X, *a* 8
Cimmerian invasion (Gyges), XI, *a* 310; (Ionia), XIII, a 211
CIMMERII or Cimmerians, people, V, *a* 682; (Babylonia), III, a 163; (Gomer), X, b 684–5; (Lydia), XV, *a* 101; (Phrygia), XVIII, b 865; (Scythia), XXI, *a* 604
Cimolite (Mineralogy), XVI, b 442
Cimolos, island (Melos), XV, b 850
CIMON, of Athens, general, V, a 682; (Archæology), II, *b* 313, a 314; (Aristides), II, b 444; (Athens), III, a 6; (Greece), XI, b 89, b 90, *a* 91; (Pericles), XVIII, a 540, b 541, note, a 542; (Persia), a b 585; (Thucydides), XXIII, b 343
—— of Cleonæ, painter (Archæology), II, a 309
Cinæthus of Chios, poet (Scio), XXI, a b 487
CINCHONA, tree and bark, V, a 682–3; (Botany), IV, a 81, a b 102, a 125; (Ceylon), V, b 320; (Colombia), VI, a 139; (Forests), IX, a 356, b 357, a 358; (Himalaya), XI, a 744; (India), XII, a b 789; (Jamaica), XIII, a b 559; (Java), b 614; (Madras), XV, a 187; (Malaria), b 322; (Peru), XVIII, a 687; (Quinine), XX, a 191, *b* 192, note, a 193
—— culture (Nilgiri Hills), XVII, b 522
Cinchonaceæ, family (Botany), IV, a 106; (Ipecacuanha), XIII, a 216, a 217
Cinchonidine, alkaloid (Quinine), XX, a *b* 191, *a* b 192
Cinchonine, drug (Peru), XVIII, a 687; (Quinine), XX, a b 191, *a* b 192, *a* 193
Cinchotannic acid (Quinine), XX, *a* 191
CINCINNATI, Ohio, city (Ill.), V, a 683–5; (Libraries), XIV, b 535, a 553; (Ohio), XVII, b 757, b 758, a 759; (Workingmen in U. S.), XXIV, a 918
—— axis, geological (Ohio), XVII, a b 755, a 756
—— observatory, XVII, b 735
——, Society of the (Mirabeau), XVI, b 517; (Tammany Society), XXIII, a 920; (United States), b 793
CINCINNATUS, Lucius Quintius, dictator, V, b 685; (Roman Law), XX, b 690, note
Cincinnatus, Considérations sur l'ordre de (Mirabeau), XVI, a b 517, b 520
Cinclocerthia (Birds), III, a 650
Cinclus, genus of birds (Ousel), XVIII, b 78
Cinctus Gabinus (Costume), VI, a b 403; (Gabii), X, a 4
Cinder (Iron), XIII, b 302–3; analysis of puddling (Iron), a 334; calcareous (Iron), a 356; collection of (Iron), b 313–14; explosive effect of (Iron), a b 313; notch (Iron), a 305, b 306; precipitation, process (Iron),

Cinder, *continued* b 346-7; from Roman smelting (Iron), a b 345; scouring (Iron), b 302, a 303, a 306; tap (Iron), b 328; utilization of (Iron), b 313 note, b 314–15
—— cones (Geology), X, b 224
Cinderella, legend (Egypt), VII, b 636; (Tales), XXIII, *b* 33
CINEAS, Thessalian, V, b 685; (Pyrrhus), XX, a b 143; (Rome), a 763
Cinenchyma (Botany), IV, a 77
Cineraria, plants (Horticulture), XII, b 271
Cinerary urns (Pottery and Porcelain) (Ill.), XIX, b 619, a b 642
Cinisi, town (Manna), XV, a 500
Cinna, Helvius, poet (Catullus), V, b 217
CINNA, Lucius Cornelius, consul, V, a 686; (Rome), XX, a b 779, *a* 782
CINNABAR, ore, V, a 686; (California), IV, b 622; (Mercury), XVI, b 36, b 38; (Mineralogy) (Ill.), a 410; (Mining), b 490, b 491, a b 492; red (Pigments), XIX, a 96
Cinnamic acid (Indigo), XII, a b 885; alcohol (Chemistry), V, b 489
CINNAMON, bark, V, a b 686; (Bhutan), III, a 546; (Botany), IV, *a* b 98; (Cassia Bark), V, *b* 160; (Ceylon), b 315, a 320; (Incense), XII, b 756
——, Land of (Ptolemy), XX, *a* 98
Cinnamon-stone (Garnet), X, *a* 74; (Jacinth), XIII, a 542; (Mineralogy) (Ill.), XVI, a 383, b 428
Cinnamus, John, historian (Byzantine Historians), IV, a 545
Cinnyris, genus (Sun-Bird), XXII, b 686
CINO DA PISTOIA, poet and jurist, V, b 686–7; (Italy), XIII, b 512; (Pistoia), XIX, a 141
Cinosternidæ, family of chelonians (Tortoise), XXIII, a 486, b 487
CINQ-MARS, Henri Coiffier de Ruzé, Marquis de, courtier, V, a 687; (France), IX, b 502; (Molière), XVI, a 647
Cinq-Mars (De Vigny), VII, a b 117; (Vigny), XXIV, *b* 243
Cinquecento (Arabesque), II, b 203, a 204; (Architecture), a b 382, a b 383–4, b 385, a *b* 386, a *b* 387; (Cameo), IV, a 654; (Glass), X, a b 596; (Jewellery), XIII, a 688
Cinque Porte, ship (Juan Fernandez), XIII, *a* 768
CINQUE PORTS, V, a b 687; (England), VIII, b 195, b 197; (Finance), IX, a 157; (Hastings), XI, b 457; (Heraldry), b 630; (Hythe), XII, a b 636; (Kent), XIV, b 40; (Navy), XVII, a 287; (Rye), XXI, b 126; (Wreck), XXIV, b 722; (Yarmouth), b 765, a 766
——, Barons of, III, a 335
Cinquefoil, ornament (Architect), II, b, 405
Cinthio or Cintio, G. See GIRALDI, Giovanni
Cinto, Mont (Corsica), VI, b 388
CINTRA, town, V, b 687; convention of, 1808 (Lisbon), XIV, b 699
Ciompi, faction (Medici), XV, *a* 794; rebellion of, 1378 (Florence), IX, a 293; (Italy), XIII, b 489
Cione, Andrea di, painter and sculptor (Orcagna), XVII, a 838
——, Matteo di, artist (Orcagna), XVII, a 838, a 839
——, Nardo or Lionardo di, painter (Orcagna), XVII, a b 838
Cionocrania, sub-order (Lizard), XIV, a 739–40
Cipactli, calendar sign (Zodiac), XXIV, b 830
Cipango, country (Columbus), VI, b 154
Cipher (Columbus), VI, a 158; (Cryptography), b 592–4; (Kabbalah), XIII, a b 822
Cipollino, marble (Architecture), II, b 364; (Eubœa), VIII, b 569; (Mineralogy), XVI, b 413
Cippus Abellanus (Italy), XIII, a 455; of Perusia (Etruria), VIII, b 558, b 560
CIPRIANI, Giovanni Battista, artist, V, a 688
CIRCAR, district, V, a 688; (Hyderabad), XII, b 444
CIRCASSIA, V, a 688–9
Circassian Dictionary, VII, a 165
Circassians, people (Caucasus), V, a 224, a 225; (Kuban), XIV, a b 151
CIRCE, sorceress, V, b 689; (Magic), XV, a 203
Circeian promontory (Latium), XIV, a b 344
CIRCEII, town, V, b 689; (Rome), XX, b 758, *b* 759
Circello, Monte (Latium), XIV, a 344
Circesium, town (Mesopotamia), XVI, *b* 52
Circle, The (Anthology), II, a 92
Circle (Conic Sections), VI, b 242, b 247, a 252; (Curve), b 632; (Graduation), XI, a b 25–6, a 27; (Hodograph), XII, b 44, a b 45; (Infinitesimal Calculus), XIII, b 7; (Mensuration), XVI, a 21–3
—— of curvature (Conic Sections), VI, a b 253; (Geometry), X, b 372
——, definition of (Measurement), XV, a 672
——, diameter of (Geometry), X, a 359; division of (Map), XV, a 523; generation of (Geometry), X, b 357
Circle, Measure of the (Archimedes), II, a b 333
Circle, propositions relating to (Geometry), X, a 338–9
—— and right line equations (Geometry), X, a 370–1
CIRCLE, SQUARING OF THE, XXII, b 450–4
—— of Willis (Anatomy), I, b 794
Circle-readers (Surveying), XXII, b 754
Circles, angle-measuring (Surveying), XXII, b 754
——, astronomical (Ramsden), XX, a 280
——, circumscribed (Trigonometry), XXIII, a 601; concentric (Measurement), XV, *b* 667
——, judicial divisions (Maximilian I.), XV, a b 651
—— of sensibility (Touch), XXIII, a b 512
—— stone, ancient (Architecture), II, b 335–6, a b 395; (Cornwall), VI, b 378; (Rude Stone Monuments), XXI, b 57, b 58
Circondario or district (Italy), XIII, b 457
Circuit (Curve), VI, a b 639
——, voltaic (Electricity), VIII, a 40
CIRCUIT, law-term, V, b 689–90
—— Courts (United States), XXIII, a 799
Circuit-closer (Torpedo), XXIII, b 478
Circuits (Methodism), XVI, *b* 195, a 197, a 198
——, assize (England), VIII, a 237; Scotch (Justiciary), XIII, a 799
——, electric (Electricity), VIII, a 63–7, a b 71; (Telephone), a 143–4; working (Telegraph) (Ill.), XXIII, a 131–2; (Telephone), b 144–5
Circular aperture in object glasses (Wave Theory), XXIV, a 455–8, b 474
—— circuit (Electricity) (Ill.), VIII, a 67
—— error (Clocks), VI, b 14
—— Hodograph, XII, a b 45
—— measure of angles (Trigonometry), XXIII, a b 598
—— motions, component (Mechanics), XV, a 696
—— points (Curve), VI, b 639–40
—— polarization (Wave Theory), XXIV, b 471, b 474
—— Saws, XXI, a b 359, a 360
"Circular sittings" (Hungary), XII, b 378 note
"Circular System" of Ornithology, XVIII, b 18–20
Circulating decimals (Tables), XXIII, b 12–3, a b 18
Circulation of the blood (Anatomy), I, a 710–1, b 789-90, a 792; (Harvey), XI, b 449–51; (Leeuwenhoek), XIV, a b 411; (Malpighi), XV, b 340; (Medicine), a b 819; (Nemesius), XVII, a 341; (Pathology), XVIII, b 384; (Physiology), XIX, a 14; (Sarpi), XXI, b 326; (Servetus), XXI, *a* 718; (Sleep), XXII, a 165–6; (Tunicata) (Ill.), XXIII, a 647, a b 651; (Vascular System) (Ill.), XXIV, b 103, a 106–20
——, hot water (Horticulture) (Ill.), XII, a 233
—— of liquids (Hydromechanics), XII, a b 468
—— of Money, XVI, a b 747, a b 748; gold coin (Mint), a 514
——, newspaper (American Journalism), XVII, a 888, a b 890; British, 1856 (Newspapers), XVII, 431
—— in plants (Physiology), XIX, b 52–5
——, renal (Pathology), XVIII, b 395–6
Circulatory organs (Amphibia), I, a 669–72; (Cuttle-Fish) (Ill.), VI, b 650; (Ichthyology), XII, a 696–7
—— system (Annelida), II, *a* b 59, b 61, a b 63; (Arachnida), a 239, a 241, b 242, a 244, b 246, b 248, a 250, b 257–8; (Brachiopoda), IV, a 173, a 174; (Insects), XIII, a 152; (Leech), XIV, a b 402; (Myriapoda), XVII, b 124; (Nemertines), b 339–40; chiton (Mollusca), XVI, b 665
Circumcelliones, ascetics (Donatists), VII, *b* 311; (Jesuits), XIII, a 657
CIRCUMCISION, V, a 690–1; (Abraham), I, b 54, a b 55; (Bechwana), III, a 413; (Congo), VI, a 237; (Copts), b 314; (Egypt), VII, b 624, a b 628; (Hottentots), XII, b 324
—— (Israel), XIII, a 441; (Jesus Christ), b 671; (Kaffraria), a 829; (Madagascar), XV, a 174; (Priest), XIX, a 747, note; (Senegambia), XXI, a 695; (Tahiti), XXIII, b 28
Circumcision, painting (Bellini), III, b 472
—— and baptism (Paul), XVIII, b 439; controversy (Paul), b 428; (Philippians), a 761
Circumference of circle (Geometry), X, a b 338; (Mensuration), XVI, a 21
Circumflex nerve (Anatomy), I, b 762
Circumnavigation of the earth (Drake), VII, b 337; (Geography), X, b 163
Circumposition, propagation by (Horticulture) (Ill.), XII, b 241, a 242
Circumstantial Evidence, VIII, b 647–8
Circus, bird (Harrier), XI, *b* 439–40
CIRCUS, early Roman, V, a 691–2; (Games), X, b 59–60; (Hunting), XII, a 409; (Trajan), XXIII, a 536; of Caracalla or Maxentius (Rome), XX, b 850, note
—— Maximus, Rome, V, b 691; (Rome), XX, b 850, notes
—— Neronis, V, a 692
CIRENCESTER, town, V, a b 692; (Gloucester), X, *a* b 613, b 615
—— college (Agriculture), I, b 362; (Gloucester), X, a 614
——, RICHARD OF, XX, b 557–8
Cire perdue casting (Bronze), IV, b 330; (Metal-Work), XVI, a 78, b 82, b 84
Cirey, château (Voltaire), XXIV, b 307–8
CIRILLO, Domenico, physician, V, b 692
Cirksena, Edzard, president (Frisians), IX, b 692
Cirl-bunting (Bunting), IV, b 470

Cirphis, mountain (Phocis), XVIII, a 814
Cirques, pot-holes (Caves), V, b 231; (Pyrénées), XX, b 131
Cirrha, town (Crissa), VI, *b* 522
Cirrhipedia. See Cirripedia
Cirrhitidæ, fishes (Ichthyology), XII, a 716, a 727
Cirrhopoda, class (Mollusca), XVI, b 654, a 655
Cirrhosis of kidneys (Bright's Disease), IV, a 312; of liver (Hypertrophy), XII, b 632; of liver (Pathology), XVIII, b 396, b 417; of lung (Pneumonia), XIX, a 262, a b 263
Cirrhoteuthis, genus (Mollusca) (Ill.), XVI, a 695, a 696
Cirripedia (Crustacea), VI, a 561, a 563, note, b 572, a b 576, a b 577, note, a 579, b 582, b 588-9; (Distribution), VII, b 242-3, 246; (Parasitism), XVIII, b 264, a b 265; (Sex), XXI, b 756
Cirro-cumulus, cloud (Meteorology), XVI, a 132
Cirrostomi, fish (Ichthyology), XII, b 733
Cirro-stratus cloud (Meteorology), XVI, a 132
Cirrus, cloud (Meteorology), XVI, b 131
—— organ (Tape-Worm), XXIII, b 56
—— pouch (Trematoda), XXIII, b 570, a b 571
CIRTA, city, V, b 692; (Constantine), VI, a 266; (Jugurtha), XIII, b 776; (Masinissa), XV, a 615; (Numidia), XVII, b 643
Cisalpine Gaul (Italy), XIII, *a* 456
—— Republic (Galvani), X, b 44; (Italy), XIII, *b* 495
Cisianus, broadside (Typography), XXIII, b 727
Cisii, tribe (Elam), VII, a b 689
Cismontanism. See Gallicanism
Cispadane republic (Italy), XIII, b 495
Cissa, genus (Jay), XIII, a 622
Cissa, king, Sussex (Chichester), V, b 533
Cissoid (Curve), VI, b 632; of Diocles (Infinitesimal Calculus), XIII, b 55-6
CIS-SUTLEJ STATES, V, b 692-3
Cisteaux, village. See CITEAUX
Cistercian monasteries (Cloister), VI, b 35
CISTERCIANS, monks, V, a 693-4; (Abbey), I, *b* 21-5; (England), VIII, b 273; (England, Church of), a b 234; (Ireland), XIII, b 268, a 269; (Monachism), XVI, a 735, a 736, a 742; (Trappists), XXIII, a 556, a b 557
Cistern-barometer (Ill.), III, b 329
—— filter, IX, a 149
Cisterns (Constantinople), VI, a 271
—— and pipes (Building), IV, b 450; (Sewerage) (Ill.), XXI, a 753
Cisticola, genus (Birds), III, b 659; (Warbler), XXIV, b 387, a 388
Cistineæ, plants (Spain), XXII, a 311
Cistophorus coin (Numismatics), XVII, b 662, a b 663
Cistudo, genus of Tortoise, XXIII, a b 486
Citadel (Belfort), III, b 443; (Bijapur), b 578-9; (Gætulia), X, *a* 14; (Ghent), *a* 505; (Hué), XII, b 347; (Kandahar), XIII, b 845; (Lahore), XIV, b 212; (Widdin), XXIV, b 589; El-Kálah (Cairo), IV, b 572, a 573
Citadella Paolina (Perugia), XVIII, b 693
Citation, legal (Summons), XXII, b 676, a 677; mode of (Canon Law), V, a *b* 19
Citations, law of (Roman Law), XX, b 730-1
CITEAUX or Cisteaux, village, V, a 694; abbey (Ill.), I, a 21, b 23-4; (Cistercians), V, *a* 693
CITHÆRON, mountains, V, a 694; (Attica), III, *b* 51, *a* b 52; (Greece), XI, a 74, a 75, b 79
Cithara, musical instrument (Lyre) (Ill.), XV, a b 115
Cities (Municipality), XVII, a 33-7
——, American (Municipality), XVII, a 37; growth of (United States), XXIII, a 832, b 834, b 875, a b 876, b 877, b 882
——, counties of (County), VI, a 456
Cities, Free Imperial, IX, b 656-7; (Diet), VII, b 173; (Germany), X, b 438, a 440, a b 442, a *b* 443, *a* 444, a 445, a 450; (Hanseatic League), XI, b 402-3; (Municipality), XVII, b 35
——, Italian, early (Lombards), XIV, a b 825
—— of Latin League (Latium), XIV, b 344-5
——, mediæval (Consul), VI, a 281; (German Literature), X, a 471; (Henry VII. emperor), XI, b 596
——, statistical table (Europe), VIII, b 618-9; (England), VIII, a b 200
—— and kingdoms, allotment of (Zodiac), XXIV, a 834
Citium, city (Numismatics), XVII, b 665
Citizenship, American (Homestead), XII, b 125, b 126; (United States), XXIII, a 830
——, Athenian (Pericles), XVIII, a 543; (Solon), XXII, b 267-8
——, Greek (Government), XI, b 11
——, Jewish, XIII, b 692, a 693, b 694, a 695, a b 696, a 698
——, Roman (Government), XI, b 11; (Roman Law), XX, b 704-5; (Rome), a *b* 764, b 777, a *b* 778, *a* 779, b 786; imperial (Roman Law), b 722, a 794; plebeian (Roman Law), b 693, b 694, a 696
Citlaltepetl, mountain (Orizaba), XVII, a 870
Citrates (Citric Acid), V, b 694; (Magnesium), XV, b 219; (Aërated Waters), I, b 166
CITRIC ACID, V, a b 694; (Chemistry), b 495; (Lemon), XIV, b 438, a 439
CITRON, plant, V, b 694-5; (Lemon), XIV, *a* b 438, b 439
Citrus, genus (Botany), IV, a 134, a 139, b 140, a 141; (Lemon), XIV, b 437, a 438, b 439, a 440; (Orange), XVII, a 834, b 835; wood (Mauretania), XV, b 643
CITTÀ DI CASTELLO, town, V, a 695; (Raphael), XX, *a* 287
Città Notabile, town (Città Vecchia), V, a 695
CITTÀ DELLA PIEVE, town, V, a 695
CITTÀ VECCHIA, town, V, a 695; (Malta), XV, a b 343, *a b* 345
CITY, V, a b 695. See Cities and Citizenship
——, The (London), XIV, a b 827-9, a *b* 830, *a b* 831, a 841, a b 842, *a* 843, a 857
—— accounts (London), XIV, b 828-9
City of Dreadful Night, poem (Thomson), XXIII, b 332
City of God or *Civitas Dei* (St. Augustine), III, b 68; (Orosius), XVIII, a 54
City government (London), XIV, a 827-9; (Milan), XVI, a 305; (Paris), XVIII, a 283-4; (Philadelphia), a 752; (Tokio), XXIII, a 461. See MUNICIPALITY
—— Hall (Baltimore), III, b 257; (Detroit), VII, a 115; (New York), XVII, a 896; (Philadelphia), XVIII, b 751
—— life, illustrated (Gavarni), X, b 106, a 107
—— of London School (London), XIV, b 838, b 844
Ciuccio, Andrea Calcese, actor (Punchinello), XX, b 111
Ciudad Bolivar, town (Angostura), II, a 42; (Venezuela), XXIV, *b*.152
—— del Principe (Puerto Principe), XX, b 104
CIUDAD REAL, Mexico, town, V, b 695; (San Cristobal), XXI, b 267
CIUDAD REAL, Spain, town, V, b 695; province (Mancha), XV, b 465; (Spain), XXII, b 312
CIUDAD RODRIGO, town, V, b 695; (Salamanca), XXI, b 213; (Wellington), XXIV, *b* 523, a 524
—— de Victoria, town (Durango), VII, b 477
CIUDADELA, city, V, b 695; (Balearic Islands), III, a b 240
Ciullo d'Alcamo, poet (Italy), XIII, a 510
Civet, mammal, V, b 695-6; (Mammalia), XV, a 442
Civic buildings (Architecture), II, b 396-7
—— Greek coins (Numismatics), XVII, b 647, b 648
CIVIDALE DEL FRIULI, town, V, a 696
Civil Engineering, VIII, b 194-5
CIVIL LAW, V, a b 696; (Accursius), I, a b 86; (Cape Colony), V, b 43; (College), VI, b 128; (Consanguinity), a 260; (Corporation), b 382-3; (Ecclesiastical Law), VII, a 543; (Gravina), XI, a 59; (Heresy), a 658; (Libel and Slander), XIV, b 504, a 505-6; (Mortgage), XVI, a 875
—— —— (Roman Law), XX, a 696-713
Civil Laws of the Emperors (Syriac Literature), XXII, b 875-6
Civil list (France), IX, a 450
—— offices (Navy), XVII, 302
—— rights (Medical Jurisprudence), XV, a 788-90; (Pardon), XVIII, a 277
—— —— Acts (United States), XXIII, b 832; (Republican Party), XX, *a* 907
—— service (Ceylon), V, b 317; (China), V, a 581; (Greece), XI, a 77; French (Souvestre), XXII, a 305; in India (Dalhousie), VI, b 685
—— —— in New York, XVII, a 476
—— —— in United States (Jackson, A.), XIII, a 544; (United States), XXIII, b 798, a b 812; corruption of (Indians), XII, a 871; senators' quarrel over (United States), XXIII, b 833, a 834, b 837; statistics (United States), b 883
—— —— Reform (Grant), XXIII, b 838; (Republican Party), XX, b 907-8; (United States), XXIII, b 833-4; (Wright), XXIV, b 727, note
—— society, Roman Empire (Finance), IX, b 152
Civil War, American, 1861-1865. See Secession (United States), XXIII, a 822-9
—— ——, English, 1642-1647 (Carlisle), V, b 96; (Channel Islands), a 341-3; (Charles I.), b 352-3; (Chester), b 526; (Cromwell), VI, a 529-30; (Davenant), b 735; (Drama) VII, a 375; (Dublin), b 433; (England), VIII, b 311-2; (Finance), IX, b 156, b 157; (Monk), XVI, b 778; (Montrose), b 822; (Rupert), XXI, b 57-8; (Scotland), a 535-6; (Weymouth), XXIV, a 551; (York), b 786
—— ——, Roman (Sertorius), XXI, a b 716; (Slavery), XXII, b 141; (Sulla), a b 666
—— —— (Japan), XIII, b 591-2, b 593
Civil Wars of France (Davila), VI, a 743
Civil year (Calendar), IV, b 590-2
Civilis, Claudius (Gaul), X, a 101; (Germany), a 427; (Holland), XII, b 72-3; (Rome), XX, b 793
Civilization (Ethnography), VIII, a 539-50; (Festivals), IX, b 99; (Insanity), XIII, b 102; growth of (Anthropology), II, a 104,

Civilization, *continued* b 106–7; (Condorcet), VI, b 226–7; (Wine), XXIV, a 636; origin of (Archæology), II, a 299; promotion of (Taboo), XXIII, b 21–2
——, American native (America), I, b 609–13
—— Aryan primitive (Greece), XI, b 81; (India), XII, b 819-20, a 823, a 867
——, Aztec (America), I, a b 610, a 611
——, Chinese ancient (China), V, a b 558
——, Greek *vs.* Persian (Persian), XVIII, a 584, a 596
Civilization, History of (Buckle), IV, b 378-9
—— and language (Anthropology), II, b 106
——, Mayan (Yucatan), XXIV, a b 796, b 797
——, mediæval (Germany), X, b 441
——, Peruvian ancient (America), I, b 611–4
——, prehistoric (Geology), X, a 328
—— and religion (Gioberti), X, a 541
——, Saracenic (Spain), XXII, a b 328
——, Syrian ancient (Syria), XXII, a 861
CIVITA CASTELLANA, town, V, b 696
CIVITA DI CHIETI, V, b 531
CIVITA DI PENNE, town, V, b 696
CIVITA VECCHIA, town, V, b 696–7; state (States of the Church), XXII, b 477, a 478
Civitas Leonina, Rome (Leo IV.), XIV, a 450
Civitas Solis, romance (Campanella), IV, a 665
Civoli, painter. See CIGOLI
Clacey's objectives (Telescopic Work), XXIII, *a* 934
Clach-na-Cudain, palladium (Inverness), XIII, a 207
Clack valve blowers (Iron), XIII, a 310
CLACKMANNAN, county and town, V, a b 697; (Coal), VI, a 51
Claddagh, village (Galway), X, a 52
Cladeus river (Olympia) XVII, a 787
Cladina, genus (Lichens), XIV, b 561, *a* b 563, b 564
Cladobates, animal (Mimicry), XVI, b 353
Cladocera, genus (Crustacea) (Ill.), VI, a 573, *b* 575
Cladodei, sub-family (Lichens), XIV, b 564
Cladonia, genus (Lichens), XIV, b 559, b 564, b 565, *b* 566
Cladophora (Biology), III, b 598
Cladotricheæ, group (Schizomycetes (Ill.), XXI, a 416, *a* b 419, a b 421, a b 422, b 423
Claëson, K., philosopher (Sweden), XXII, a 796
Clafen, town (Chiavenna), V, a 530
Clagget, Charles, musician (Tuning-Fork), XXIII, b 659
Claim (Patent), XVIII, b 875
CLAIRAULT, Alexis Claude, mathematician, V, b 697; (Academy), I, a 69; (Astronomy), II, a 663, a 712; (Capillary Action), V, a 51; (Earth), VII, a 519
Clairfait, F. S. C. J. de Croix, marshal (Austria), III, *b* 113
Clairmont, Claire (Shelley), XXI, *a* b 828, a 829
Clairvaux Abbey (Ill.), I, b 21–b 23; (Bernard), III, a b 520; (Cistercians), V, a b 693
Clairvoyance (Kant), XIII, a 857; (Magic), XV, a 209; (Magnetism, Animal), *b* 279, b 284; (Spiritualism), XXII, a 420
Clajus, Johannes, grammarian (Germany), X, a 466
Clam (Mollusca) (Ill.), XVI, a b 712; soft (Mussel), XVII, b 117
Clamatores, birds (Ornithology), XVIII, b 33, a 34, a 44
CLAMÉCY, town, V, b 697; (Nièvre), XVII, *b* 509
Clamenges, Nicolas de, theologian (Monachism), XVI, b 737 note
Clamps (Brick), IV, *b* 250; ancient (Rome), XX, a 828, a 829
CLAN, V, b 697–9; (Family), IX, b 17, a 19, b 20; (Tartan), XXIII, b 74; history (Gaelic), X, b 11–2; organization (Ireland), XIII, a 264; (Micronesia), XVI, a b 267; (Polynesia), XIX, a 438–9; relations (Totemism), XXIII, b 501–2; totems (Totemism), b 496–505. See Clans
Clandestine Marriage (Garrick), X, b 76
Clangula, genus (Golden-Eye), X, b 674–5; (Merganser), XVI, b 40, note; (Morillon), XVI, b 850
Clanny's safety-lamp (Coal), VI, a 68
Clanricarde, earldom (Ireland), XIII, b 266, b 268
Clans of Argyllshire, II, b 440
—— (Ireland), XIII, a b 257
——, dissensions of the (Scotland), XXI, a 513, a 515
—— in Irish Church (Ireland), XIII, a b 254, b 256
——, Sawaiori (Polynesia), XIX, a b 438, a 439
——, Sikh (Punjab), XX, b 117
CLAPARÈDE, Jean Louis René Antoine Édouard, naturalist, V, b 699–700; (Annelida), II, b 61, *a* 62; (Arachnida), a 240, a 241, b 257 notes, a 258, a 263
Clapham, suburb (London), XIV, a 827, a b 831, b 833, a b 842
CLAPPERTON, Hugh, traveller, V, a b 700; (Africa), I, b 220; (Geography), X, a b 171; (Sokota), XXII, *a* 262
CLAQUE, V, b 700–1; (Acclamation), I, a 80; (Drama), VII, b 356
Clara of Assisi, saint (Franciscans), IX, a 616
Clarabella stop (Organ), XVII, a 855
CLARAC, Charles Othon Frédéric, Count, antiquarian, V, a 701
Clare College (Cambridge, town), IV, b 646–7
CLARE, county, V, a 701–2; (Ireland), XIII, a b 251
—— Island (Mayo), XV, a 657
—— market (London), XIV, a b 837
CLARE, John, poet, V, b 702–3
—— of Montfaucon, nun (Stigmatization), XXII, b 577
——, Richard de, earl of Pembroke (Ireland), XIII, b 264–5, b 266; (Wexford), XXIV, *a b* 550
——, Thomas de, freebooter (Clare), V, b 702
——, Viscount (Nugent, Robert, earl), XVII, b 627
Clare constat (Writ), XXIV, a 733
Claregalway river (Galway), X, a 51
Clarence, duchy of (Lancaster, House), XIV, b 256
—— river (New South Wales), XVII, b 418, a 420
——, Elizabeth, duchess of (Ireland), XIII, b 266
——, George, duke of (Edward IV.), VII, b 594; (England), VIII, b 294; (Ireland), XIII, b 267; (Warwick), XXIV, b 401, b 402, *a* 403
——, Lionel, duke of (York, House of), XXIV, b 789, a 790
——, Thomas, duke of (Ireland), XIII, a 267
——, William, duke of (William IV., England), XXIV, b 612
Clarendon, assize of, 1166 (England), VIII, b 276
Clarendon Constitutions (Henry II.), XI, b 586, a 587; (Jury), XIII, *a* 794; (Peerage), XVIII, a 476
——, mount (Africa), I, b 224
CLARENDON, Edward Hyde, earl of, V, a 703–5
    character of, b 704–5
    Charles I., reign of, b 703
    Restoration, b 703–4
    youth of, a 703
—— (Cabinet), IV, a 550; (Cryptography), VI, a 594; (Earle, Bishop), VII, a b 515; (Gauden), X, *b* 98; (Ministry), XVI, b 495; (Missions), b 537; (Owen), XVIII, b 89; (Oxford), a 99; (Waller), XXIV, *b* 350, a b 351
CLARENDON, George William Frederick Villiers, earl of, V, b 705–7
——, Thomas Villiers, earl of, V, b 705
—— Press (Oxford), XVIII, b 98, a b 99; (Wyttenbach), XXIV, *a* 751
Clarenins, friars (Franciscans), IX, b 615
Clares, Poor, nuns (Franciscans), IX, a 616
Claret Wines, XXIV, b 635, a b 637
CLARI, Giovanni Carlo Maria, composer, V, a 707
Clarias, fish (Siluridæ), XXII, b 74
Claridge, captain (Hydropathy), XII, b 575, a 578
Clariina, fishes (Ichthyology), XII, b 710, b 711, b 730
Clarinet (Oboe), XVII, a 727–8; (Trumpet), XXIII, a 631; d'amour (Oboe), XVII, a 728
Clarino Trumpet, XXIII, *b* 630–1
Clariodus, poem (Scotland), XXI, b 566
Clarion stop (Organ), XVII, a b 856, b 857
Clarionet stop (Organ), XVII, b 856
Clarissa Harlowe, Richardson's (Michaelis), XVI, a 236
Clarisses, nuns (Francis, St.), IX, b 610
Clarite (Mineralogy), XVI, a 412
Clark, Alvan, optician, *b.* 1804; *d.* 1888 (Telescope), XXIII, a b 155, b 161, a 164, *a* b 165–6, note; (Telescopic Work), b 934–5
——, B. J., philanthropist (Temperance), XXIII, b 174
——, D. K., engineer (Steam-Engine), XXII, a 507
——, George Rogers, general, *b.* 1752; *d.* 1818 (Indiana), XII, a 854; (Kentucky), XIV, b 46; (Louisville), XV, b 25; (United States), XXIII, a 793
——, James, naturalist (Hydrozoa), XII, a 590; (Protozoa), XIX, a 883, b 891
CLARK, Sir James, physician, V, a b 707
——, Myron H., governor (Seymour), XXI, a 921
CLARK, Thomas, chemist, V, b 707
CLARKE, Adam, commentator, V, b 707; (Bibliography), III, b 571; (Rymer), XXI, a 128
——, A. R., engineer (Surveying), XXII, a 737, b 759
CLARKE, Edward Daniel, traveller, V, a b 708
——, F. W., chemist (Surveys), XXII, b 937
——, James Freeman, divine, *b.* 1810; *d.* 1888 (Religions), XX, b 383-4
——, John, dean, V, b 708, b 709
——, Joseph T., architect (Troad), XXIII, a b 617, note, b 619
——, Latimer, physicist (Electricity), VIII, b 13, b 15, b 81, a 88, a 98
——, Richard, clergyman (Universalist), XXIII, b 951
CLARKE, Samuel, theologian, V, b 708–10; (Balguy), III, *b* 242; (Butler), IV, *a* 519; (Collins), VI, b 132–3; (Ethics), VIII, a b 527; (Theism), XXIII, b 253–4
——, William, explorer (Lewis, M.), XIV, b 493
——, W. B., divine (Australia), III, *a* b 94
Clarke's Constants of Nature (Heat), XI, b 514
—— Fork, river (Montana), XVI, a b 799; (United States), XXIII, *b* 847; (Washington), XXIV, a 407

Clarksburg, city (West Virginia), XXIV, a b 547
Clark's column (Physiology) (Ill.), XIX, b 39, a 40, a 41
——, Edwin, Lift (Harbors and Docks), XI, a 420
—— Hydrometer, XII, a b 569
—— filar Micrometer, XVI, b 254, a 257, a 258
CLARKSON, Thomas, abolitionist, V, b 710–1; (Quakers), XX, a 156; (Slavery), XXII, b 147, b 152, b 153; (Wilberforce), XXIV, *b* 596, a 597
Claro river (Venezuela), XXIV, b 150
Claros Varones de Castilla (Pulgar), XX, a 109
Clarotæ, serfs (Slavery), XXII, b 139
Clarre, drink (Honey), XII, a 141
Clarsach (Harp), XI, b 437
Clarus, Julius, jurist (Torture), XXIII, *a* 496
Clasper, Henry, boatbuilder (Rowing), XXI, b 36, a 37
Claspers, organs (Ichthyology) (Ill.), XII, b 699-700; (Reproduction), XX, a 422, note
Class-distinctions (Caste), V, b 162–6; Athenian (Greece), XI, a b 87
Class-meetings (Methodism), XVI, a 192, *a* 194, b 200
Classen, classicist (Thucydides), XXIII, b 347
Classical Abbreviations, I, a 31-3
—— Ana, I, b 687
—— archæologists (Antiquity), II, a 119
CLASSICAL ARCHÆOLOGY, (Plate IV (Ill.), II, b 300–22
—— art (Hegel), XI, a 554
—— criticism (Bentley), III, b 500
—— drama (Shakespeare), XXI, b 797–8
—— fictions (Romance), XX, a b 649-53; pseudo- (Romance), XX, a 653–7
—— learning (Italy), XIII, b 516–20, a 523-5
—— medicine (Gout), XI, b 6–7
—— political economy (Boeckh), III, a 740
—— school in literature, (Hungary), XII, a 392
—— studies in America (Universities), XXIII, b 959, b 960, b 961–2
—— study, revival of (Germany), X, b 476
Classicism (Italy), XIII, b 516-20, a 523-5
—— in art (David), VI, a b 741
—— in French literature (France), IX, a b 294
—— reaction from (Homer), XII, a 119
Classics Chinese (China), V, b 573–4, a 575
Classics, editions of (Bekker), III, b 441; (Bibliography), a 567–8; (Bodoni), a 738; (Boissonade), b 751; (Burmann), IV, b 501; (Elzevirs), VIII, a b 145; (Foulis), IX, a 423; (Gronovius), XI, *b* 184-5; (Haupt), b 466; (Havercamp), a 470; (Heinsius, D.), a 561; (Hermann, J. G J.), b 662; (Iamblichus), XII, b 638; (Muret), XVII, b 60; (Politian), XIX, a b 358; (Porson), a b 538, a b 539; (Stephens), XXII, a *b* 562, *a* 563
——, Bipontine editions of (Deux Ponts), VII, b 116; Delphin edition (Huet), XII, a 349
——, preservation of the (Euripides), VIII, a 596
——, recovery of (Poggio), XIX, a b 286
——, translations of (Dryden), VII, b 425
Classification (Abstraction), I, a b 59; (Animal Kingdom), II, b 44–5; (Ape), b 130, b 136–7; (Arachnida), b 239–40; (Arthropoda), a b 566; (Brachiopoda), IV, a 176–8; (Echinodermata), VII, b 546-7, a 549, a 550, b 552, a 555; (Hemiptera), XI, b 576–7; (Herbarium), XI, b 640; (Ichthyology), XII, a b 667, a b 668, a b 670, a b 709, a 723-33; (Libraries), XIV, b 537–8
—— (Mammalia), XV, a 373–5; (Religions), XX, b 371–82; (Rotifera), XXI, a b 12; (Schizomycetes), a b 423; (Snakes), XXII, b 202–4; (Socialism), a 229; (Species), b 385–6; (Sponges), a 437–40; (Treaties), XXIII, a 564; (Trematoda), a b 573; (Tunicata), a 653-8; (Vegetable Kingdom), XXIV, a 136–43; (Worm), b 718–9; (Zoology), a 842–53
—— of animals (Animal Kingdom), II, b 44-9; (Mammalia), XV, a 373–6; (Oken), XVII, b 771, b 772; (Zoology), XXIV, a 842-53
—— of birds (Birds), III, a b 605; Bonaparte's (Ornithology), XVIII, b 34; Cabanis' (Ornithology), b 33–4; Cornay's (Ornithology), a b 33; Garrod and Forbes' (Ornithology), b 44; Huxley's (Ornithology), a 38–40; L'Herminier's (Ornithology), b 25–6; Merrem's (Ornithology), a 23–4; Newton's (Ornithology), b 47–8; Nitzsch's (Ornithology), a b 26, b 30-1; physiological (Ornithology), a 35, a 50; Sclater's (Ornithology), a b 45; Sundervall's (Ornithology), b 41–3
—— of elements (Chemistry), V, a b 412
—— of fishes (Agassiz), I, a 246; (Ichthyology), XII, a 667–8, a b 670, a b 709, a 723-33
—— of languages (Philology), XVIII, b 787–8, b 790, a b 791–4
—— of learning (D'Alembert), VI, a 683
—— of letters (Alphabet), I, a 538
—— of living forms (Biology), III, a b 591
—— of nerves (Anatomy), I, a 754
—— of organic acids (Chemistry), V, b 493, a 494; organic compounds (Chemistry), a 478–80
—— of Parasites, XVIII, b 265–6
—— of plants (Biology), III, a 597–602; (Botany), IV, a 70–2; (Jussieu), XIII, b 797–8; (Lichens), XIV, b 563-5; (Linnæus), b 680; (Ray), XX, b 313, a 314: (Vegetable Kingdom), XXIV, a 136–43
—— of races (Anthropology), II, b 99–100
—— of rocks (Geology), X, b 206–14
—— of sciences (Anthropology), II, a 95, a b 96; (Physical Sciences), XIX, b 5
——, universal method of (Adanson), I, *a* 133
Clastic rocks (Geology), X, b 204, b 206, a 211–4
Clathroptychiaceæ (Protozoa), XIX, a 863
Clathrulina (Protozoa) (Ill), XIX, a 860, a 866, b 867
CLAUBERG, John, philosopher, V, a b 711; (Descartes), VII, b 109
Clauda, island (Crete), VI, a 504
CLAUDE, Jean, controversialist, V, b 711; (Bossuet), IV, a 63; (Camisards), b 658–9
CLAUDE of Lorraine, painter, V, b 711–2; (Engraving), VIII, a 394, a b 395; (Schools of Painting) (Ill.), XXI, a 460, a 464, *a* 466; (Turner), XXIII, b 706–7, a b 708
—— of Lorraine (Guise), XI, b 235, a b 236
CLAUDET, Antoine François, photographer, V, a 712
—— extraction process (Silver), XXII, b 77; (Copper), VI, b 311
CLAUDIANUS, Claudius, poet, V, a 712–3; (Roman Literature), XX, b 746
Claudine von Villa Bella (Goethe), X, *b* 647, b 650
Claudiopolis, city (Klausenburg), XIV, *b* 109
CLAUDIUS Appius Cæcus, censor, V, a b 713; (Cineas), b 685; (Roman Law), XX, a 698; (Roman Literature), b 735
CLAUDIUS Crassus, Appius, decemvir, V, b 713; (Roman Law), XX, a 697
CLAUDIUS, Matthias, poet, V, a 714; (Germany), X, b 483
CLAUDIUS I., Tiberius Drusus Nero Germanicus, emperor, V, b 713–4; (Agrippa, Herod I.), I, b 370; emperor (Agrippina), I, b 372; (Britannia), IV, b 318; (F.), VIII, a b 729; (France), IX, a 466; (Games), X, a 60; (Gladiators), *a* 563; (Nero), XVII, a b 357; (Rome), XX, b 790, a 791, b 793
CLAUDIUS II., Marcus Aurelius Gothicus, emperor, V, a 714; (Greece), XI, b 98; (Rome), XX, a b 794, *a* 795
—— Nero, consul (Rome), XX, b 768
——, Publius Pulcher, consul (Rome), XX, b 766
Claughton - cum - Grange (Birkenhead), III, b 677
Clauren, author (Hauff), XI, *b* 465
Claus, Karl Friedrich Wilhelm, zoologist (Hydrozoa), XII, *b* 583, b 584, a b 585, a 588, b 589, *b* 590, a 593, a 594; (Ornithology), XVIII, b 46
Clausel, Bertrand, marshal, (Algeria), I, a b 500
Clausen, Thomas (Comet), VI, b 171, a 172, a 173
Clausenburg, town (Klausenburg), XIV, b 109
Clausen's micrometer, XVI, b 266
Clausewitz, Carl von, general (War), XXIV, *a* 366, b 371, a 384
Claushavn, station (Greenland), XI, b 152
Clausius, Rudolph Julius Emanuel, physicist (Atom) III, a 36, a 37; (Electricity), VIII, a 11, b 13, a 55; (Electrolysis), a b 107; (Steam-Engine), XXII, a 496, a 497, b 500, a 504, a 506; (Thermodynamics), XXIII, *b* 303, a 305, a 308
Clausius's theorem (Atom), III, a b 35, b 36; (Molecule), XVI, a 633
Claussen, Peter, flax process (Bleaching), III, b 712; (Flax), IX, b 257; (Hosiery), XII, b 313
—— or Clausson, Peder, author (Denmark), VII, a 79
Clausthal, town (Klausthal), XIV, a 110
—— turntable (Metallurgy) (Ill.), XVI, a b 64
Clausthalite (Mineralogy), XVI, b 407
Claustrum (Anatomy), I, b 770, *a* 771, a 772
Clava (Hydrozoa) (Ill.), XII, a b 595
Clavarinei, species (Fungus), IX, b 731
"Clavecin brisé," musical instrument (Pianoforte), XIX, b 78
Clavelinidæ, family of (Tunicata), XXIII, a 656
Claverack Landing (Hudson), XII, a 345
Claverhouse. See Dundee, Viscount
Clavering, Captain, explorer (Polar Regions), XIX, a 332
——, General (Hastings), XI, *a* b 459
Claveus, Gasto, chemist (Gold), X, b 659
Clavi, stripes (Costume), VI, b 403, a b 408
Claviceps, genus (Fungus), IX, a 733
Clavichord (Pianoforte) (Ill.), XIX, b 73–5, b 85, a 87
Claviciterium (Pianoforte) (Ill.), XIX, a 74, a 78
Clavicle, collar bone (Anatomy) (Ill.), I, b 724, b 729, a 730; (Ape), II, b 141; (Birds), III, a 625; (Mammalia), XV, b 361; (Skeleton), XXII, a b 125, b 126
Clavicorde, musical instrument (Pianoforte), XIX, b 76. See Clavichord
Clavicymbalum (Pianoforte) (Ill.), XIX, b 73, a 74, a b 75, a 76, a b 77

Clavier, Das wohltemperirte (Pianoforte), XIX, b 74, a 87
Clavières, Étienne, economist (Mirabeau), XVI, b 517, b 520; (Say), XXI, *a* 376
Clavigero, Francisco Saverio, historian (Mexico), XVI, a 214
Clavigo, play (Goethe), X, a 647
CLAVIJO, Ruy Gonzalez de, traveller, V, a b 714; (Geography), X, b 160; (Trebizond), XXIII, a 567
Clavipalpi (Insects), XIII, b 156
Clavis universalis (Collier), VI, b 129-30
Clavisingel (Pianoforte), XIX, b 76, a 78
Clavitube, trumpet (Ophicleide), XVII, a 801
Clavius, Christoph, mathematician (Calendar), IV, b 595, b 604; (Napier), XVII, *b* 189; (Vernier), XXIV, b 183
Clavularia, genus (Sponges), XXII, a 439
Clavus hystericus (Hysteria), XII, b 635
Claws (Mammalia), XV, a 351, a b 440; (Skeleton), XXII, a 115
Clay (Alum), I, a 569; (Coal), VI, *b* 52; (Fire-Clay), IX, b 207–8; (Kaolin), XIV, a b 3; (Mineralogy), XVI, b 442; (Mining), a 489
——, burned (Agriculture), I, a b 313; in mortar (Building), IV, a 410
——, fire. See FIRE-CLAY
——, glacial (Sweden), XXII, b 778
—— ironstone (Geology), X, b 207; (Iron), XIII, b 291, a 292, a b 294, b 302, a 323
——, London (Kent), XIV, b 33–9
—— modelling (Butades), IV, a 516
——, porcelain (England), VIII, a 208; (Kaolin), XIV, a b 3; (South Carolina), XXII, b 301; potter's (Devonshire), VII, a b 121; Purbeck (Dorset), VII, b 321
—— rocks (Geology), X, b 212
—— slate (Wexford), XXIV, *b* 549
—— soils (Agriculture), I, b 293, b 294, a b 296, b 298, *a* 300, a *b* 302; (Horticulture), XII, a 222
—— Tiles (Ill.), XXIII, b 414, a 415
CLAY, Henry, senator, V, b 714–5; (Garrison), X, a b 77; (Taney), XXIII, *b* 921; (Tyler), a 717; (United States), b 807, a 809, a b 810, *a* 811, *b* 812, a 813, a b 815, b 817, b 818; (Whig), XXIV, *b* 894
——, ——, *Life and Services of* (Sargent), XXI, a 906
——, James, author (Whist), XXIV, *b* 574, a *b* 575
Clay-ball (Angling), II, b 31
Clayborne, William (Maryland), XV, a 611
Clay-eaters (America), I, a 617
Claying (Agriculture), I, b 312
CLAYMORE, sword, V, a 715; (Costume), VI, b 424; (Sword), XXII, a 840
Clay-retorts (Gas and Gas-Lighting) (Ill.), X, a b 82
Clays (Brick), IV, 249; (Cambridge), a 644; (Holland), XII, b 64; (New Jersey), XVII, b 406, note; (New York), b 465; (Pottery and Porcelain), XIX, a b 617, a 618, b 619, b 620, a b 633, a 663
"Clays," family of trotters (Horse), XII, a 208
Clayton, John, divine (Gas-Lighting) X, b 79; (Methodism), XVI, a 193 note
Clayton-Bulwer treaty (Honduras, British), XII, a 138
Clayton's brick-machine (Brick) (Ill.), IV, a 252
CLAZOMENÆ, town, V, a 715; (Numismatics), XVII, b 663
Clean and unclean, in religion (Taboo), XXIII, b 21
Cleander, tyrant (Gela), X, b 116
Cleaning, fall (Agriculture), I, b 300-1
Cleaning guns (Shooting), XXI, a 873
Cleanliness (Hygiene), XII, a b 602, a 603
Cleansers, beetle (Coleoptera), VI, a 118
Cleansing (Brewing), IV, b 245, a 246
CLEANTHES, philosopher, V, a b 715; (Hymns), XII, a b 612; (Stoics), XXII, a b 590-1, a b 592, a b 593, *a* 594, *b* 595, *b* 596, a 598, b 599; (Theism), XXIII, a 258
—— of Corinth, painter (Archæology), II, b 308
Clear lake (California), IV, b 618, b 620
Clearance of country exchange (Banking), III, b 283
——, explained (Steam-Engine) (Ill.), XXII, *b* 506, a 513
CLEARCHUS, Spartan, V, b 715; (Persia), XVIII, a 588
—— of Rhegium, sculptor (Archæology), II, a 304
Clearcole, painter's (Building), IV, a 458
Clearing hawse (Seamanship), XXI, b 626
Clearing-house, London (Account), I, b 86; (Banking), III, b 272, a 283; (London), XIV, b 841
—— the lunar distance (Navigation), XVII, b 267, note, *a* 268
—— nut (Nut), XVII, b 683
—— process (Calico-Printing), IV, b 610
Cleasby, R., philologist (Grimm, W. C.), XI, *b* 179–80; (Scandinavian Languages), XXI, b 384 note, a 385
Cleavage of crystals (Crystallography), VI, b 594–5, a b 596; (Mineralogy), XVI, b 358, b 360, a 387, b 393–4
Cleavage, rock (Geology), X, a b 232, b 330; (Glacier), a 562; foliation (Geology), X, a 280; planes (Geology), a 272
—— theory (Magnetism), XV, b 268
Cleddy or Cleddou, river (Pembroke), XVIII, a 492
Clee Hills (Shropshire), XXI, b 886, *a* 887
Cleeve Hill (Gloucester), X, b 613
Cleft-grafting (Horticulture) (Ill.), XII, b 242
Clegg, engineer (Gas-Lighting), X, b 79, b 87, a 93
Cleggan bay (Galway), X, a 51
Clegram, G. W. B., engineer (Canal), IV, a *b* 694
Cleirac, advocate (Sea Laws), XXI, *a b* 611, a 613
Cleisthenes of Athens. See Clisthenes
Cleland, John, physician (Physiology), XIX, b 48–9
Clemandot's iridescent patent (Glass), X, b 594
Clematis, plant (Botany), IV, b 84, b 91, a 118, b 121, b 137; training (Horticulture) (Ill.), XII, b 252
Clematius, consul (Ursula, St.), XXIV, a 18
Clémenges, Mathieu Nicolas de, theologian (Reformation), XX, *b* 333. See Clamenges
CLEMENS ALEXANDRINUS, theologian, V, b 715–7; (Acts of the Apostles), I, *a* 115; (Canon), V, b 3, b 7, a 8, a 9; (Eve), VIII, b 643; (Docetæ), VII, a 269; (Gnosticism), X, a 625; (Gospels), a 720, b 726 note; (Hebrews), XI, *a* 538, *a* 539, note; (Hermeneutics), a 666; (Hermes Trismegistus), a 671; (Hymns), XII, *b* 615; (Mary), XV, a 597; (Mysteries), XVII, a b 134, b 135–6; (Peter), XVIII, a b 707 notes; (Physiologus), XIX, a 10; (Valentinus), XXIV, a b 43, *a b* 44, b 45
Clemenshall, salt spring (Geology), X, b 240
Clemensruhe palace (Bonn), IV, a 31
Clemens Romanus or Clement of Rome, bishop (Apostolic Fathers), II, a b 171–2; (Canon), V, a 3, a b 8; (Gospels), X, a b 724, a 725; (Hebrews), XI, a b 538, *a* 539; (Paul), XVIII, a 433; (Philippians), a b 761
—— *Epistles of*. See *Clementine Epistles*
Clement I., pope. See Clemens Romanus
CLEMENT II., pope, V, b 717–8; (Popedom), XIX, b 512, a 524
Clement III., anti-pope (Gregory VII.), XI, b 158; (Guibert of Ravenna), b 226; (Henry IV., emperor), *b* 595; (Rome), XX, a 809; (Urban II.), XXIV, b 12
CLEMENT III., pope, V, a 718; (Rome), XX, a b 812
CLEMENT IV., pope, V, a 718; (Bacon), III, b 189; (Manfred), XV, b 486
CLEMENT V., pope, V, a 718; (France), IX, b 459, b 480; (Lully), XV, b 65; (Popedom), XIX, a 516, b 524; (Rome), XX, a b 816; (Templars), XXIII, b 179–80; *Decretals of* (Canon Law), V, b 18, *a b* 19
CLEMENT VI., pope, V, a b 718; (Rome), XX, a b 817, *a* b 818; (Universities), XXIII, *a* 895
Clement VII., anti-pope (Popedom), XIX, b 516, b 524; (Rome), XX, b 820, a 821; (Urban VI.), XXIV, a b 13
CLEMENT VII., pope, V, b 718; (Bonner), IV, a b 31; (Capuchins), V, a b 71; (Catherine of Aragon), *a* 206; (Charles V., Emperor), *b* 359; (France), IX, b 490, *a* 491; (Gardiner, S.), X, *b* 69; (Guicciardini), XI, *a b* 227; (Henry VIII.), *a b* 592; (Jovius), XIII, b 766; (Luther), XV, b 78, b 80, a 81, a 82; (Machiavelli), b 152; (Marcantonio), a 539; (Medici), b 796, b 797–9; (Michel Angelo), XVI, a b 242; (Orvieto), XVIII, b 57; (Parmigiano), a 320; (Reformation), XX, a b 341, a b 342, a b 343, b 347; (Trent, Council of), XXIII, *a* 579; (Wolsey), XXIV, b 669
CLEMENT VIII., pope, V, b, 718–9: (Carmelites), b 103; (Cenci), a 289, *a* 290; (Molina), XVI, a 653; (Popedom), XIX, b 519, b 524; (Sarpi), XXI, b 326; (Tasso), XXIII, a 85; (Venice), XXIV, a b 158
CLEMENT IX., pope, V, a 719; (Carnival), a 108; (Claude Lorraine), a 712
CLEMENT X., pope, V, b 719; (Carnival), a 109
CLEMENT XI., pope, V, a 719; (Camisards), IV, a 658; (Carnival), V, a 108; (Jansenism), XIII, a 577; (Marsigli), XV, a 582; (Popedom), XIX, a b 521, b 524
CLEMENT XII., pope, V, a 719; (Cardinal), V, b 86
CLEMENT XIII., pope, V, a 719; (Concordat), VI, a 215; (Jesuits), XIII, *b* 665; (Popedom), XIX, b 521, b 524
CLEMENT XIV., pope, V, a b 719; (Houdon), XII, a 328; (Popedom), XIX, a 522, b 524
CLEMENT of Alexandria. See CLEMENS ALEXANDRINUS
—— of Rome. See Clemens Romanus
Clement, St., missionary (Russia), XXI, a 98
Clément, A., biographer (Salmasius), XXI, a 231
——, David, bibliographer, III, a 567
——, Desormes, chemist (Heat), XI, *a b* 516, a 517
CLÉMENT, François, historian, V, b 719–20
Clement, Joseph, inventor (Machine Tools), XV, b 154, b 155
CLEMENTI, Muzio, composer, V, a 720; (Field, J.), IX, a 124; (Pianoforte), XIX, b 82, a 83
Clementine Epistles (Catechumen), V, a 193; (Peter), XVIII, b 708–9; (Popedom), XIX, a b 503

Clementine Homilies (Canon), V, a 3, *a* 8; (Gospels), X, b 727, a *b* 730; (Paul), XVIII, a 427; (Peter), b 709, a 710
—— League, 1526 (Reformation), XX, b 341
—— Liturgies, XIV, b 712-3, b 714
—— *Recognitions* (Gospels), X, 721 note
Clementines (Apostolic Fathers), II, b 171-2
Clementines, ecclesiastical party (France), IX, b 483
Clement's Inn (Inns of Court), XIII, b 93, b 96
Clemmys, genus of (Tortoise), XXIII, a b 486
Cleobuline, sage (Cleobulus), V, b 720
CLEOBULUS, sage, V, b 720
Cleomedes, physicist (Light), XIV, b 581
CLEOMENES I., Sparta, V, b 720-1; (Greece), XI, b 87, *a* 88, a 89, *b* 96; (Persia), XVIII, b 581 note
CLEOMENES III., Sparta, V, a 721; (Aratus), II, *b* 271; (Philopœmen), XVIII, a 804
CLEON, demagogue, V, a b 721; (Aristophanes), II, b 446, a *b* 447
—— priest (Phrygia), XVIII, b 867 note
Cleone (Dodsley), VII, b 280-1
Cleonymus of Sparta, general (Rome), XX, b 761
Cleopatra I., queen (Egypt), VII, b 646; (Israel), XIII, b 435
—— II. (Egypt), VII, a 647
—— III., Cocce (Egypt), VII, a b 647
CLEOPATRA VI., queen, V, b 721-2; (Antonius), II, a *b* 124; (Egypt), VII, b 647-8; (Numismatics), XVII, b 668
—— VII. (Egypt), VII, a 648
Cleopatra's Needles, obelisk (Alexandria), I, b 437; (Egypt), VII, b 666; (Granite), XI, a 45; (London), XIV, b 849; (Obelisk), XVII, a 723
Cléopatre Captive, Jodelle's tragedy (Drama), VII, *a* 366; (France), IX, *b* 573
Cleostratus of Tenedos, philosopher (Calendar), IV, b 592
Cleph, king (Lombards), XIV, a 823
Clepsine, genus (Leech) (Ill.), XIV, a *b* 404-5
CLEPSYDRA, clock, V, a 722; (Amontons), I, b 654; (Athens), III, b 9; (Bell), a 463; (Bernoulli), a 524; (Time), XXIII, a 419
Clerestory (Architecture), II, b 405
CLERGY, V, a 722-3; (Council), VI, b 453; (Crusades), a 552; (Finance), IX, b 154, *a* 155; (France), *b* 470, a 472, a 521, a b 529; (Germany), X, a 435, a 438
——, Anglican (Queen Anne's Bounty), XX, a b 176; (Divorce), VII, b 262; (Heresy), XI, a 660; disabilities of (Tooke), XXIII, b 473, a 474
—— of Armenian Church, II, b 481
CLERGY, BENEFIT OF, V, a 723; (Bigamy), III, a 578; (England), VIII, a 334; (Women), XXIV, b 673 note, b 675 note
——, discipline of (Trent, Council of), XXIII, b 581, a 582
——, exemptions of (Torture), XXIII, b 491, b 492, a 496; (Trent, Council of), XXIII, b 585
——, French (Talleyrand), XXIII, a b 35; (Turgot), a 669
——, marriage of (Scotland), XXI, b 496, b 497
——, mediæval (Germany), X, b 430, b 432, b 470
—— in Parliament (Ireland), XIII, b 272
—— as physicians (Surgery), XXII, a 710
——, rise of education of (Universities), XXIII, b 893, a 894
——, "Submission of the" (England, Church of), VIII, b 336, a b 341
——, trials of (Nonconformity), XVII, b 546
——, withdrawal of the (Parliament), XVIII, a b 310, a 311
Clergyman's sore-throat (Throat Diseases), XXIII, a 341
Clergymen, restrictions on (Partnership), XVIII, b 335
Clericorum, De Institutione (Hrabanus), XII, a 340
Clericus, theologian (Le Clerc, Jean), XII, b 397-8
Cleridæ, beetles (Coleoptera), VI, a 116
Clerk, Dugald, engineer (Steam-Engine), XXII, b 551, a b 552, note, a 553
——, Sir John, "baron," antiquary (Gordon), X, b 695
—— of the chafe-wax, England (Seals), XXI, b 613
—— of the Parish, XVIII, b 302
Clerke, Captain Charles, explorer (Polar Regions), XIX, a 331
Clerkenwell, district of London (Jewellery), XIII, *b* 688, *a* 689, a 690; (London), XIV, b 827, b 829, *a* 834, b 841, b 843, a 844, *a* 848, b 854, a 858
Clerkenwell Daily Chronicle (Newspapers), XVII, b 429 note, a 432
Clerk-Maxwell, James, mathematician (Ozone), XVIII, b 117
Clerks, regular (Monachism), XVI, b 725, b 737, *b* 742
Clermont, steamboat (Shipbuilding), XXI, a 862
Clermont, Louis de Bourbon-Condé, count of (France), IX, a 519
—— Manuscript (Canon), V, b 9, a 14
—— Abbey (Ill.), I, a b 26
CLERMONT EN BEAUVOISIS, town, V, b 723-4
CLERMONT FERRAND, city, V, b 723; (Puy de Dome), XX, a b 125, *a* 126
CLERMONT L'HÉRAULT *or* de Lodève, town, V, a 724
Clermont-Ganneau, orientalist (Canaanites), IV, a b 675
Clerselier, Claude, philosopher (Descartes), VII, b 103, b 104, a 110
Clevedon Pier (Harbors and Docks), XI, a 416
CLEVELAND, Ohio, city, V, a b 724; (Libraries), XIV, a 553; (Ohio), XVII, b 757
Cleveland, district (York), XXIV, a *b* 784, b 785, a 786
——, Augustus, collector (Bhágalpur), III, *b* 541; (India), XII, b 818
——, Barbara Palmer, duchess of (Wycherley), XXIV, b 741, *a* 742
——, Grover, president (United States), XXIII, b 833; (Wright), XXIV, b 727, note; presidential campaign, 1884 (Republican Party), XX, a 908
CLEVELAND, John, poet, V, b 723-4; (Milton, John), XVI, a 337
——, Moses, surveyor (Cleveland), V, a 724
Cleveland, novel (Prevost d'Exilles), XIX, a b 739
Cleveland bays, horses (Agriculture), I, b 341; (Horse), XII, a 196
Cleveland ironstone (Iron), XIII, a b 314; (Mining) (Ill.), XVI, b 461, b 474; Yorkshire (Iron), XIII, *a* b 294
Cleves, duchy (Prussia), XX, b 9, a b 11; dukes of (Guelderland), XI, *b* 216
CLEVES, town, V, a b 725
Clew, nautical term (Sail), XXI, a 162
Clew Bay (Ireland), XIII, a 222; (Mayo), XV, b 656, *a* 657
CLICHY, town, VI, a 3
Click and rachet (Mechanics), XV, b 771
Clicker, account-keeper (Typography), XXIII, a 757
"Clicks" in speech (Hottentots), XII, b 325; (Philology), XVIII, a 794
CLIENT AND PATRON, XVIII, a 423-4; (Comitia), VI, b 174; (Roman Law), XX, a b 687
——, secrets of a (Evidence), VIII, b 651
Clifden, village (Galway), X, a b 51
Cliff hills (Lincoln), XIV, a *b* 660, a 663
—— castles (Cornwall), VI, b 378
Cliff débris (Geology), X, b 211
Cliff-dwellings (Meteora), XVI, a b 119; (Pueblo Indians), XX, a 887, a b 888
Clifford, Rosamond (Rosamond, Fair), XX, b 870
Clifford, William Kingdon, mathematician (Evolution), VIII, a 670-1; (Geometry), X, a 348, a 349; (Measurement), XV, a b 666, a 667 note
Clifford's Inn (Inns of Court), XIII, b 93, b 96
—— quaternion (Hydromechanics), XII, b 468
Cliffort, George, banker (Linnæus), XIV, *b* 679-80
Clift, William, naturalist (Hunter, J.), XII, b 401 note 7, b 403 note 6, *a* 405, a 406
CLIFTON, town, VI, a 3
Clifton, R. B., physicist (Electricity), VIII, a b 80
—— mines, Arizona (United States), XXIII, b 869
Cliftonite, mineral (Western Australia), XXIV, b 535
Climacteric insanity (Insanity), XIII, a 115
CLIMATE, VI, a 3-8
  causes, general, b 3-4
  configuration, local effects of, b 4-5
  cyclone and anticyclone, a 8
  elevation, effects of, a b 4
  oceanic climates, b 6
  Ptolemaic zones, b 3
  rainfall, b 7
  towns, a 7
  vegetation and desert, a 5-6
  wind distribution, a 7-8
  water, effects of, a b 6
 See ATMOSPHERE and METEOROLOGY

—— (Acosta), I, a 93; (Agriculture), b 273-4; (Arboriculture), II, a b 276; (Costume), VI, b 411; (Distribution), VII, b 232, *b* 233; (Hygiene), XII, a 601; (Lake), XIV, b 220; (Meteorology), XVI, b 119, a b 123, b 124-5, b 139-43
—— (Alps), I, b 555-6; (America), a 593-5, b 597; (Attica), III, a 52; (Austria), b 101; (Azores), a 148; (Baltic), b 254; (Canada), IV, b 679-82; (Cannes), b 712; (Cochin China), VI, b 86-7; (Corea), b 347; (Ecuador), VII, a 561; (Edinburgh), a 570, note; (Egypt), b 609-10
—— (Europe), VIII, a b 604; (Florida), IX, a 297; (Holland), XII, b 66; (Hungary), a b 377; (Hyderabad), a 446; (Hygiene), a 601; (Iceland), a 653; (Idaho), a 736; (Jamaica), XIII, a 559; (Kentucky), XIV, b 43; (Ládac), a 198, notes; (Lapland), b 305; (Lhasa), b 501; (Lisbon), a 699; (Lofoten), a 776; (London), a b 836, b 862; (Madagascar), XV, b 170; (Madeira), b 180; (Madrid), b 191; (Malta), b 342; (Man, Isle of), b 458; (Maritime Province), b 555; (Marseilles), a 580; (Massachusetts), b 618; (Mesopotamia), XVI, b 54; (Mexico), b 225-a 226, a 230; (Minnesota), b 498, a 499
—— (Palestine), XVIII, b 174, b 177-8; (Paris), a 279; (Peru), b 683, a 684; (Philippine Islands), b 763-4; (Polynesia), XIX, b 434-5; (Portugal), b 551-2; (Queensland), XX, b 178; (Russia), XXI, b 82-4; (Scotland), a b 550; (Siam), b 890-1; (Siberia), XXII, b 10-11; (Sicily), a 35; (Soudan), a 291; (South Australia), b 297; (Spain), b 310-11; (Spitzbergen), b 423; (Sweden), a 776-7; (Switzerland), b 815-6; (Syria), a 861; (Tahiti), XXIII, a 28; (Tibet), b 363-4; (Tobolsk), b 457; (Tomsk), a 467; (Trans-

Climate, *continued*
caucasia), b 546, *a* 547; (Tunis), a 660; (Turgai), a 668; (Turkestan, West), b 675
—— (United States), XXIII, a 854–9; (Uralsk), XXIV, a 11; (Uruguay), b 19; (Vancouver Island), b 64; (Victoria), b 233; (Vologda), b 303; (Western Australia), a 535; (West Indies), a 539; (Westmorland), b 543; (Wisconsin), b 650–1; (Wyoming), a 749; (Yakutsk), b 762; (Yeniseisk), a 780; (Yucatan), a 796
——, changes of (Archæology), II, b 293, a 294; (Geology), X, b 324, a 325, a b 327; effect of leaves on (Botany), IV, a 107; fossil indications of (Geology), X, a 285
——, influence of (America), I, b 609–10; (American Literature), a 631; (Drunkenness), VII, b 416
——, man's influence on (Geology), X, a 258; sea influence on (Geology), b 252
——, secular variations of (Geology), X, a 193-6
Climate and Time (Geology), X, b 194
Climatic fever (Pathology), XVIII, a b 403–5, b 407, b 413
Climax (Drama), VII, a b 340
Climax, Pass (Lycia), XV, b 94
Climbing plants (Physiology), XIX, a 69; shrubs (Horticulture), XII, b 268, a 269
Cline, Henry, surgeon (Jenner), XIII, b 634; (Veterinary Science), XXIV, *a* 215
Clingmann, Mount (Appalachian Mountains), II, *b* 175
Clinical Baptism, III, a 303
—— instruction (Boerhaave), III, a 743; (Syme), XXII, b 849
—— Thermometers, XXIII, b 313
Clinics (Hospital), XII, b 317; (Medicine), XV, a b 819
Clinkstone (Geology), X, b 209
Clinochlore (Mineralogy) (Ill.), XVI, b 431
Clinoclase (Mineralogy) (Ill.), XVI, b 423
Clinodomes (Mineralogy), XVI, b 374
Clinometer, instrument (Surveying), XXII, b 755
CLINTON, city, Iowa, VI, a 8
CLINTON, town, Massachusetts, VI, a b 8
CLINTON, De Witt, governor, VI, b 8; (Schools), XXI, a 912; (Tammany Society), XXIII, a b 920; (United States), a 810
——, George, vice-president, *b.* 1739; *d.* 1812 (Tammany Society), XXIII, a 920
Clinton, Sir Henry, general (Sumter), XXII, a 935; (United States), XXIII, a b 792, a 793
CLINTON, Henry Fynes, scholar, VI, b 8
—— iron ore (Kentucky), XIV, b 44; (Pennsylvania), XVIII, b 512; (United States), XXIII, a 867
Clintonite (Mineralogy), XVI, a 431
Clio, muse. See MUSES
Clione, genus (Mollusca) (Ill.), XVI, a 691, a 692
Clionidæ, family (Mollusca), XVI, a 691
Clisantheæ (Grasses), XI, b 51
Clisiocampa (Butterflies), IV, a 528
Clisson, Olivier de, constable (St. Brieuc), XXI, a 168
Clistenterata (Brachiopoda), IV, a b 171, *a* 172, a 174, b 175, a 176; classification of (Brachiopoda), a b 176–7
Clisthenes, Cleisthenes or Kleisthenes, statesman (Archon), II, b 419, a 420; (Greece), XI, *a* 88; (Nobility), XVII, a b 540
——, king (Sicyon), XXII, b 37–8; (Greece), XI, a b 88; (Homer), XII, a 113
Clitarchus, historian (Persepolis), XVIII, b 570, note, a b 571
Clitellum (Worm), XXIV, b 712–3, *b* 718
CLITHEROE, town, VI, b 8-9
CLITOMACHUS, philosopher, VI, a 9; (Carneades), V, b 106
Cliton, William, count of Flanders (St. Omer), XXI, b 197
CLITOR, town, VI, a 9
Clitus, general (Alexander the Great), I, a 426, *b* 427–8
CLIVE, Robert, Baron of Plassy, conqueror, VI, a 9-13
  assailed in parliament, b 12-3
  Bengal reduced, a 10-11
  domestic life, a 10
  Madras acquired, b 9–10
  Moorshedabad, capture of, a b 11
  pacification of India, b 11–2
  personal characteristics, a 13
  reforms in Company, b 11, b 12
  youth, a b 9
—— (Arcot), II, b 421; (Army), *b* 516; (Calcutta), IV, a 583; (Chatham, Earl of), V, *a* 383; (Hastings), XI, *a b* 458, a 459; (India), XII, *a* 837, *b* 839, *a* b 840–1
Clivus Capitolinus, road (Rome) (Ill.), XX, b 829, b 836
—— Victoriæ, street (Rome), XX, a 843, note
Clizia (Machiavelli), XV, *b* 152
Cloaca, genus (Reptiles), XX, a 470
—— Maxima, Rome (Architecture), II, b 363
Cloacæ, sewers (Rome) (Plate VII) (Ill.), XX, a 825, b 832-3
Cloak (Costume), VI, *b* 410, b 411, b 412, *a* b 417, *a* b 418, *b* 419, a b 420, a 421
Clöbbergoll, association (Caroline Islands), V, a 111
Clock. See CLOCKS
——, driving (Telescope) (Ill.), XXIII, b 169-70; error (Time), a b 420, b 422
—— making (Savoie), XXI, b 348; (Würtemberg), XXIV, a 736
——, mediæval (Glastonbury), X, a 602
——, polar (Wheatstone), XXIV, b 568
CLOCKS (Ill.), VI, a 13–35
  alarums, b 24–5
  barometrical error, a b 17
  compensation pendulums (Ill.), a 16–7
  conical or revolving pendulum, a 15
  construction, general (Ill.), b 13–4
  dead escapements (Ill.), a b 19
  detached escapements (Ill.), b 19–20
  electrical clocks (Ill.), b 25–7
  equation clocks, b 22
  escapements (Ill.), b 17–22
  going barrels (Ill.), a b 22
  oil, lubricating, b 33–4
  origin, a 13
  pendulum, a 14–17
  regulation of pendulum, b 15–6
  remontoire or gravity escapements (Ill.), b 20-2
  spring clocks, a b 25
  striking clocks (Ill.), a 23–5
  suspension of pendulum, a b 15
  turret clocks (Ill.), a 27–35
    dials and hands, b 30–1
    gravity escapement, b 29–30
    teeth of wheels (Ill.), b 31–3
    train remontoire (Ill.), b 27–9
  Westminster clock (Ill.), a 34–5
—— (Dialling), VII, b 132, a 133; (France), IX, a 462
——, American (Patents), XVIII, a b 880
——, hydraulic (Clepsydra), V, a 722
Clodia, beauty (Catullus), V, b 215, *a* 216
Clodion or Claude Michel, sculptor (Sculpture), XXI, a 590
Clodius, Christian August, poet (Goethe), X, a 643–4
Clodius Pulcher, Publius, tribune (Cicero), V, *a* b 674; (Milo), XVI, a 336; (Rome), XX, b 783, *a* 784
Clodoald, monk (St. Cloud), XXI, b 168
Clogg Almanacs, I, a 520
Cloghans, houses (Ireland), XIII, b 261
Clogs (Shoemaking), XXI, a 869
Cloisonné Enamel, VIII, a 168; (Japan), XIII, b 598, b 601–2; (Jewellery), b 689; (Venice), XXIV, b 164–5
CLOISTER, VI, b 35–6; Abbey), I, *a* 19, a 20, a 21, a b 22, *a* b 23, *a* b 24; (Architecture), II, a 406; (Moissac), XVI, a 630; (Puy), XX, a 125
Cloister and the Hearth, (Reade), XX, a 316
Cloister-palace (Mafra), XV, b 197
Cloisters, Italian (Architecture), II, b 381
Cloncurry, town (Queensland), XX, a 178, b 179, a 181
Clones, town (Monaghan), XVI, b 744, a 745
CLONMEL, town, VI, b 36; (Tipperary), XXIII, a 433; (Waterford), XXIV, *b* 422, a b 423
Clontarf, battle of, 1014 (Celtic Literature), V, a 268; (Dublin, City), VII, a b 428, a 433; (Ireland), XIII, a 260; (Scotland), XXI, a 502
CLOOTZ, Jean Baptiste, Baron, or Anacharsis, revolutionist, VI, b 36–7
Clopas, in New Testament (James), XIII, a b 562
Cloquet, Dr., physician (Persia), XVIII, b 663 note
Close communion (Bunyan), IV, b 472
Closed circuit system (Telegraph) (Ill.), XXIII, b 131–2
Close prison (Prison Discipline), XIX, a 775
Close Rolls (Records), XX, b 323–4
Closers, brick (Building), IV, a b 412
Closet or reading-room (Typography), XXIII, a 757
Closter Seven or Kloster-Zeven, capitulation of, 1757 (Capitulation), V, b 66; (Cumberland, Duke), VI, b 623; (France), IX, b 518
Clostridia (Schizomycetes) (Ill.), XXI, a b 418, *b* 419, b 423
CLOT, Antoine, Bey, surgeon, VI, a 37; (Egypt), VII, a *b* 610, a 668
——, Bernat des, chronicler (Spain), XXII, b 377
Cloth, Asbestos, II, b 590; (Filter), IX, b 149; of gold (Gold Lace), X, a 671
—— manufacture (Leeds), XIV, a 408; (Sedan), XXI, a 650; (Selkirk), a 670; (Weaving), XXIV, b 489–94; (Woollen Manufactures), a 693–8
——, painted (Mural Decoration), XVII, b 43–4
Cloth-casing (Bookbinding), IV, a b 39
Clothes-moths (Butterflies and Moths) (Plate XXXI), IV, a b 531
Clothing (Felt), IX, b 60–1; (Horse), XII, a 197; (Hygiene), a 603; of British troops (Army), II, a 515; manufacture (Patents), XVIII, b 882; second-hand (London), XIV, a 842
Cloth-shearing mechanisms (Patents), XVIII, a 881
Clothworkers' Company, VI, b 199; (Pepys), XVIII, a 531
CLOTILDA, Saint, VI, a 37
Clotted cream (Dairy), VI, b 679
Clotting for eels (Angling), II, a 40
Clouds (Aëronautics), I, a b 179; (Aurora), III, b 79, b 80; (Canary Islands), IV, b 703; (Meteorology), XVI, b 130, b 131, a 143–4, b 161
Clouds, The (Aristophanes), II, b 447, b 448

Clouds, red dust (Sahara), XXI, a 159
Clouet, family, painters (Schools of Painting), XXI, a 464
CLOUGH, Arthur Hugh, poet, VI, a b 37; (Pastoral), XVIII, a 353
Clough and Warren, manufacturers (Harmonium), XI, b 432
Clough's *Grammar* (Pâli), XVIII, *a* 190
Clouston, author (Whittington), XXIV, a 587
Clouth, F. M., mathematician (Tables), XXIII, b 13
Clove hitch (Seamanship), XXI, a 618
Clove Pink, XIX, b 115
Clover or Trifolium (Agriculture), I, *a* 265, b 266, b 314, b 329, *b* 330, *b* 331, b 333–4, a 337, b 340; (Honey), XII, a 142; (Insects), XIII, a 149; red (Honey), XII, b 139–40; seed (Adulteration), I, a 159
CLOVES, plant, VI, b 37–8; (Amboyna), I, b 581; (Ternate), XXIII, b 206
Cloveshoe, council of 747 (Convocation), VI, a 289
CLOVIO, Giulio, painter, VI, a 38; (Illumination), XII, a 747
Clovis (Alaric II.), I, a 393
Clovis, king of the Franks (Arthur), II, a 571; (Clotilda), VI, a 37; (Fleur-de-Lis), IX, a 267; (France), *a b* 467, a 468; (Franks), b 636; (Germany), X, a 428; (Paris), XVIII, a 293; (Remigius), XX, *a* b 390; (Salic Law), XXI, a *b* 223, note; (Tours), XXIII, b 522; (Würtemberg), XXIV, b 737
Clowes, John, theologian (Swedenborg), XXII, *a* 798
——, William, enthusiast (Methodism), XVI, b 200
Clown, character (Germany), X, a 474
CLOYNE, town, VI, a 38
CLUB, VI, a 38–41
  classical guilds, a b 39–40
  female, a 40
  literature, a 41
  modern, a 40
  origin, a b 38
  Pagan sodalities, b 38–9
  social, ancient, b 39

——, Anthology, Boston (Periodicals), XVIII, a b 555; Hambledon (Cricket), VI, b 511, a 512, b 514; Ivy Lane (Hawkins), XI, b 478; Kit-Cat, XIV, a b 105; (Hampstead), XI, b 386; Literary (Goldsmith), X, a 678; (Johnson, S.), XIII, a 737; Surrey County (Cricket), VI, a 512, a b 514, a 515. See Clubs, GUILD and SOCIETIES
Clubbing or dredging (Seamanship), XXI, b 629
CLUB-FOOT, VI, a 41–2; (Paralysis), XVIII, b 260; (Surgery), XXII, b 711, a 712
Club-hauling (Seamanship), XXI, b 629
Club-moss or lycopodium (Botany) (Ill.), IV, b 95, a 128, a b 146; (Lycopodium), XV, a 96
Club-root, disease (Agriculture), I, a 327
Clubs (Base Ball), III, b 350; (Canoe), IV, a b 717; (Jonson), XIII, a b 753; (New York), XVII, a b 473; (Rowing), XXI, a 36, a 38; (Skating), XXII, a b 113
——, liability of (Partnership), XVIII, b 335; London (Libraries), XIV, b 517
——, gaming implement (Golf), X, a 681, note
Clugia, town (Chioggia), V, a 586
Clugni or Clugny. See Cluny
Clunch, stone (Building), IV, b 419
CLUNY or Clugni, town, VI, a 42
—— Abbey (Ill.), I, b 20–1; (Cistercians), V, *a b* 693; (Gregory VII.), XI, a 158; (Hymns), XII, *b* 618; (Monachism), XVI, b 734
Clupea, fish (Herring), XI, a 683; (Pilchard), XIX, a 99; (Shad), XXI, *a* 763; (Spat), XXII, a 449
Clupeidæ, family (Ichthyology), XII, a 691, b 695, a b 702, a 704, b 706, b 707, b 718, a 719, b 732
Cluses, gorges (Jura), XIII, b 790, a b 791, *a* 792
Clusium, town (Catacombs), (Ill.), V, a 189; (Chiusi), a 587; (Etruria), VIII, b 558
Clusius, Carolus, or De l'Escluse, Charles, botanist (Potato), XIX, *b* 611
Clusius or Cluyt, Theodor Auger, botanist (Horse Chestnut), XII, a 210
Clusone, river (Italy), XIII, b 444–5
Cluster Pine, XIX, a b 113; (Arboriculture), II, a 277, a 283
Clutha river (New Zealand) XVI, b 479
CLUVER, Philip, geographer, VI, a 42
Cluyt, Theodore Auger, or Clusius, botanist (Horse-chestnut), XII, a 210
Clwyd, river (Denbigh), VII, *a b* 67; (Flint), IX, *a* 286
Clychester, city (Shakespeare), XXI, a 774
CLYDE, river, VI, a b 42; (Dredging), VII, b 402–3; (Dumbarton), a *b* 452, a *b* 453; (Glasgow), X, b 570–1; (Lanark), XIV, b 250–1; (River Engineering), XX, a 594; (Scotland), XXI, a 545, *a b* 546, a 547, b 549, *b* 553, b 556, a 559; ship yards on the (Glasgow), X, a b 576
CLYDE, Sir Colin Campbell, Lord, general, VI, b 42–3; (India), XII, b 849, a 850
Clydesdale Horse, XII, a 196; (Agriculture), I, a 342; (Lanark), XIV, a 252
Clyde works, hot blast (Iron), XIII, a 326, note
Clymene amphistoma, species (Annelida) (Ill.), II, b 60
Clymer, George, inventor (Typography), XXIII, a 751
Clyn, annalist (Ireland), XIII, b 266
Clypeastroida, genus (Echinodermata), VII, *a b* 545, *a* 546
Clypselus, genus (Birds), III, b 665
Clysters, applying (Veterinary Science), XXIV, b 218
Clytæmnestra (Agamemnon), I, b 244, a 245; (Orestes), XVII, a 851
Clytæmnestra (Poetry), XIX, a 278
Cmetones or Kmieci, class of persons (Poland), XIX, b 297
Cnemiornis calcitrans, species (Goose), X, b 692
Cnemis, mountain (Phocis), XVIII, a b 814
Cnethocampa, moth (Butterflies), IV, a 531
Cnicnode and cnictrope, defined (Surface), XXII, b 703, a *b* 704
CNIDUS, city, VI, a 43; (Caria), V, *a* 91; battle of, 394 B.C. (Greece), XI, b 92; (Persia), XVIII, *a* 589; Lion tomb at (Architecture) (Ill.), II, a b 361; VI, a 43; school of (Medicine), XV, a 810, a b 811; weights and measures of, XXIV, a 510, b 513, b 514
Cniht, Saxon (Knighthood), XIV, a 112–3
CNOSSUS or Gnossus, city, VI, a b 43; (Numismatics), XVII, *b* 647, a 648, *b* 660
Cnut, king of England. See CANUTE
Coach Dog (Ill.), VII, b 286
Coaches, early (Carriage), V, a 119; mail (Post-Office), XIX, *b* 581. See CARRIAGES, Cars
Coaching (Horse), XII, a 196
Coachmaking (Carriage), V, b 120–1
Coactor, title (Horace), XII, b 163
Coagulation, blood (Respiration), XX, b 496
Coahuila, state (Mexico), XVI, a 223, a b 903, b 911, b 912
COAL (Plates I–V) (Ill.), VI, b 43–75
  African fields, b 55
  analysis, b 74–5
  Asiatic fields, b 55–6
  Australasian fields, b 56
  Austrian fields, b 54–5
  classification, b 44–5
  English fields, a 49–50
  extent of supply, b 57–8
  Franco-Belgian fields, b 52–3
  foreign substances in, a b 45
  German fields, b 53–4
  Irish fields, b 51
  literature, a b 75
  MINING (Ill.), a 58–74
    accidents, a b 74
    aërophores, b 68–9
    air distribution, underground, a b 67
    conveyance, underground, a 64–5
    cutting, methods of (Ill.), b 62–4
    drawing out from pit, a 69–70
    fire accidents, a 69
    gases, composition of underground, b 67–8
    laying out workings (Ill.), b 59–60
COAL, *continued*
  MINING
    lamps, safety and electric, a b 68
    lighting, b 67
    long-wall working (Ill.), a b 61
    machines for cutting (Ill), a 63–4
    methods of working, b 58
    ownership, a 73
    pillar working (Ill.), b 60
    preliminary borings for, a b 58
    proportions of coal obtained, b 72–3
    Regulation Act, a 73
    safety catches (Ill.), b 70–1
    shaft sinking, b 58–9
    striking and screening, b 71
    surface arrangements (Ill.), a 70–2
    thick-seam working (Ill.), b 61–2
    ventilation (Ill.), b 65–7
    washing machine, b 72
    wedging machines, a 64
    winding engines, a 70
    world's production, b 73–4
  names of, b 43
  North American fields, b 56–7
  origin of, b 45–6
  physical properties, b 43–4
  probable measures in S. E. of England, a 52
  Russian fields, a 55
  Scotch fields, b 50–1
  secondary and tertiary fields, b 52
  South American fields, a b 57
  Spain and Portugal, a b 55
  strata sequence (Ill.), b 46–7
  Welsh fields, b 47–8, a 50

——, fields and mines (Agriculture), I, b 265; (Alabama), b 388; (Anthracite), II, a b 94; (Antrim), a 125; (Auckland), III, b 59; (Australia), b 94, a 95; (Austria), b 104
—— (Bardwan), III, b 320; (Balearic Islands), b 239; (Belgium), a b 452; (Bengal), b 485, a 491; (Borneo), IV, a 51; (Brazil), b 201
—— (California), IV, b 622–3; (Canada), *a* 686, b 687; (Cape Breton), V, a 37; (Cardiff), a b 83; (Charleroi), b 350; (Chhindwárá), a 529; (Chili), a 541; China), b 550, *a b* 551, a b 552, a b 554, b 555, a 556; (Chutiá Nágpur), a b 671, b 672; (Clackmannan), a 697; (Colombia), VI, b 138; (Colorado), a 146; (Columbia, British), a 152; Contraband), b 285; (Cork), a 858; (Creuzot), b 508; (Cuba), b 601; (Cumberland), a b 617, a 618

Coal Denbigh, VII, b 67; (Derby), b 93; (Distillation), b 228; (Durham), b 483
—— (Edinburgh), VII, b 570–1; (England), VIII, a 205–6
—— (Fife), IX, *b* 131, *a* 132; (Fire-Clay), *b* 207; (Forge), a 364; (Formosa), a b 366; (France), a 461; (Fuel), *a* 710
—— (Germany), X, b 406, a b 407, b 412; (Glamorgan), a 565; (Gloucester), *b* 613; (Greenland), XI, *a* b 150
—— (Haddington), XI, *a* 323; (Hainault), a 336; (Hazaribagh), a 489; (Heraclea), a 607
—— (Illinois), XII, b 742; (India), a 775, a b 803; (Indiana), b 852; (Iowa), XIII, a 214; (Ireland), a b 223; (Italy), a b 466; (Japan), a b 582
—— Kentucky), XIV, a b 43, b 44; (Kilkenny), a 76
—— (Labuan), XIV, b 179; (Lanark), a b 251; (Lancashire), *b* 253; (Leicester), b 424; (Linlithgow), *a* 676; (Lohárdagá), b 815; (Loire, Department), b 816; (Lugansk), XV, a 62
—— (Manitoba), XV, a 498; (Maryland), b 609; (Merthyr Tydfil), XVI, a 46; (Mexico), a 998, a 999; (Michigan), a 248; (Mineralogy), b 386, a b 448; (Mining), a b 489, a b 490, a b 491, a 492, b 493; (Missouri), b 548; (Mohács), a 568; (Monmouth), b 780; (Mons), a 788; (Moravia), b 836; (Moscow), a 883; (Mozambique), XVII, a 14
—— (Nagasaki), XVII, b 170; (Natal), b 246–7; (Nebraska), a b 317; (Neunkirchen), b 372; (Newcastle), a b 388; (Newfoundland), b 392, a 394; (New Mexico), b 410; (New South Wales), a *b* 419; (New Zealand), a b 481; (Nord), *b* 548; (North America), I, a 592, a b 597; (North Carolina), b 573; (Northumberland), a b 579; (Nottingham), b 612; (Nova Scotia), b 616; (Ohio), a 756
—— (Pay de Calais), XVIII, b 344; (Pembroke), a b 492; (Pennsylvania), a 511–2; (Philippines), b 763; (Pittsburgh), XIX, a b 161; (Poland), a 320, b 322; (Prussia), XX, *a* 19; (Puy de Dôme), a 126; (Queensland), a b 179
—— (Rive de Gier), XX, b 586; (Russia), XXI, a 94
—— (Saarbrucken), XXI, b 130; (St. Étienne), a 176; (Saône-et-Loire), b 316; (Saxony), b 369, a b 373, b 375; (Scotland), a 557; (Shropshire), a 887; (Somerset), XXII, a *b* 271; (Stafford), b 459; (Switzerland), b 816; (Sumatra), *a* b 672; (Sunderland), a 692; (Sydney), b 847
—— (Tennessee), XXIII, a 193; (T'ientsin), a 409; (Tula), b 642; (Tyrone), b 759
—— (United States), XXIII, *a* b 864–5; (Ural Mountains), XXIV, a 10; (Valenciennes), a 41; (Vancouver), *b* 64; (Virginia), *b* 277
—— (Warwick), XXIV, a 400; (Washington), b 407; (West Virginia), *b* 546; (Westmorland), b 543–4; (Westphalia), a 545; (Wyoming), a 749
——
—— area (United States), XXIII, b 830–1; combustion (Smoke Abatement), XXII, a b 190; comparison in various processes (Iron), XIII, a b 347, b 348; consumption, marine boilers (Steam-Engine), XXII, a 523; distillation of (Paraffin), XVIII, b 244, a 245; dust furnaces, IX, a b 742; (Steam-Engine), XXII, a 523; exhaustion of (England), VIII, a b 205
—— gas (Charcoal), V, b 346; (Chemistry), b 484, a 485; (Flame) IX, b 246, a b 247; (Fuel), b 710; future of (Gas-Lighting), X, b 92–3; horse-power of (Steam-Engine), XXII, a b 553; products of making (Gas-Lighting), X, a 80–1, b 90–1
—— and gas as fuel (Natural Gas), XVIII, b 898
Coal gases, composition of, VI, b 67
——, glance (Mineralogy), XVI, a 387
——, heat development of (Iron), XIII, a 322; (Steam-Engine), XXII, *a* 509; in marine engines (Steam-Engine), a b 546
——, introduction of (Glass), X, a 583; market sizes of (Pennsylvania), XVIII, a 512
—— measures (Appalachian Mountains), II, a 176; (Assam), b 629; (Asturias), a 722; (Geology), X, a 213, b 306, a b 309, a b 310; (Pacific Railroads), XIX, b 915; (Russia), XXI, b 81; (Transvaal), XXIII, b 550; (United States), b 845, a 846; (Westmorland), XXIV, *a* b 784; (York), *a* b 784; Coast Ranges (United States), XXIII, a 852; intrusive rocks in (Geology), X, a b 275; a 277; miocene (Geology), *a* b 323; superposition of seams (Geology), *b* 261
—— oil (Petroleum), XVIII, b 888
—— in smelting (England), VIII, b 206; (Iron), XIII, b 298
—— staiths (Harbors and Docks), XI, b 421
—— Tar, XXIII, a 63–5; (Carbolic Acid), V, a b 76; (Chemistry), a 484; industrial working of (Tar), XXIII, b 63
COAL TAR COLORS, XVIII, b 899–905
  aniline, manufacture of, a b 901
  alizarin or artificial madder, a b 905
  benzol, manufacture of, b 900–1
COAL TAR COLORS, *continued*
  distillates of bituminous coal, b 899–900
  dye colors, a 903–5
  naphthalene colors, a 905
  phenol derivatives, b 904–5
  rosaniline, manufacture of, a 902
  toluidine, b 901–2
——
—— trains (Railway), XX, a 257
Coalbrookdale (Bridges) (Ill.), IV, a 300, a 302, b 307; (Shropshire), XXI, *a* 887; measures (Coal), VI, b 48
—— crab locomotive (Steam-Engine), XXII, a 923
—— fish (Ichthyology), XII, a 730
Coalition, European, the first (Napoleon I.), XVII, b 210; third (Napoleon I.), a b 215, b 216; fourth (Napoleon I.), a b 217; fifth (Napoleon I.), a 225–8, a b 230
Coalition of Fox and North (George III. and IV.), X, a 382, a 384; (Ministry), XVI, a 495; (North), XVII, b 567; (Pitt), XIX, b 147–50
——, Titmouse, XXIII, b 446
Coaking machine (Block Machinery), III, a 725
COANZA, river, VI, b 75; (Africa), I, a 228
Coapin, cereal (Millet), XVI, b 333
Coarceate, form of pupa (Hymenoptera), XII, b 608
Coarse Copper, VI, a b 309, a 310
Coast battery rangefinders (Telemeter), XXIII, b 137
—— Brigade, British, II, a 507
—— defence, British (Gunnery), XI, b a 275; U. S. (Totten), XXIII, a b 943
—— guard (Navy), XVII, a 305
Coast Pilot (Surveys), XXII, b 939
—— Range, mountains (America), I, b 595; (California), IV, b 617, a 618, b 620–1; (Oregon), XVII, a b 847; (United States), XXIII, b 851–2, b 855, a 861, *a* 862
—— survey (Japan), XIII, a 580, a 590; (Navigation), XVII, a 265, a 269
—— survey, American (Admiralty Charts), I, a 148; (Bache), III, a 170; (Earth), VII, b 518; (Time), XXIII, a 422, a 423; XXII, b 938–40; apparatus (Geodesy), X, b 146–7; maps (Geography), a 187
—— swamp region (Louisiana), XV, b 21, *a b* 22, a 23
Coasting (Seamanship), XXI, a 630; trade (France), IX, a 462
Coasts, parallelism of Atlantic, III, b 15, a 16
Coat and badge, prize (Rowing), XXI, *a* 36
Coat-armor (Nobility), XVII, a b 543
COATBRIDGE, town, VI, b 75
Coati, genus (Mammalia), XV, b 447
Coatings, protective (Iron), XIII, a 367–8
Coats, garments (Costume), VI, a 422
—— of arms (Drawing), VII, a 386; (Heraldry), XI, b 608–37; (Hungary), XII, b 381; records of (Heraldry), XI, b 609–10
——, Captain, explorer (Polar Regions), XIX, a 330
Coatzacoalcos river (Mexico), XVI, b 904, b 906
Cob, the (Horse), XII, b 194
Cobaji Indians, XII, b 866
COBALT, metal, VI, b 75–7; (Chemistry), V, a 462–4, a b 466; (Chili), b 540–1; (Mineralogy), XVI, b 406, b 407, b 421; (Mining), a 489, a 491; (Nickel), XVII, *a* b 501, a 502; analysis of (Blowpipe), III, a 729
—— blue, VI, b 76; (Pigment), XIX, b 95; cyanides (Prussic Acid), XX, b 28, a 30; earthy (Manganese), XV, a 487; glass, absorption by (Light)(Ill.), XIV, a b 606; green (Copper), VI, a 312; (Pigments), XIX, b 96; oxides (Iron), XIII, b 286
Cobaltine (Cobalt), VI, b 75–6; (Mineralogy), XVI, a b 368
Cobaltite (Mineralogy), XVI, b 406
Cobaltspath (Mineralogy), XVI, b 414
COBÁN or Santo Domingo Cobán, city, VI, a b 77
Cobang, coin (Numismatics), XVII, a 680
Cobbe, Frances Power, author (Parker), XVIII, b 307
Cobbeîh, town (Africa), I, a 243
COBBETT, William, political writer, VI, b 77–8; *Weekly Register* of (Newspapers), XVII, a 430
Cobbing, ore breaking (Copper), VI, a 309, note; (Mining), XVI, b 484
Cobbler of Agawam (Ward), XXIV, a 883
Cobbold, T. Spencer, naturalist (Arachnida), II, a 240, b 241; (Parasitism), XVIII, a 263, b 264 note; (Trematoda), XXIII, a b 573, *a* 574, a 575
COBDEN, Richard, economist VI, b 78–82
  American war, attitude toward, a 82
  begins his propaganda, a b 79
  early life and business, b 78–9
  European travels, a b 80
  French negotiations, a b 81
  last days, a b 82
  parliamentary career under Peel, b 79–80
  peace projects, b 80–1

—— (Faucher), IX, b 46; (Protection), XIX, a 934, a 938; school (Protection), b 937
Cobden Club Essays (Ireland), XIII, a 245
Cobequid bay and mountains (Nova Scotia), XVII, *a* 616

Cobham, John Oldcastle, lord (Arundel), II, a 586; (Oldcastle), XVII, a 775; (Reformation), XX, b 335
——, Lord, conspirator (Raleigh), XX, a b 275
COBIJA town, VI, b 82; (Bolivia), IV, a 11, b 14
Cobitidina, genus (Ichthyology), XII, b 710, a b 714, note, b 731; (Loach), XIV, a 748
Cobitina, genus (Ichthyology), XII, a 695
COBLENTZ, city (Map), VI, b 82-3; (Prussia), XX, *b* 25, *a* 26; bridge (Bridges) (Ill.), IV, b 305, 307
—— rocks (Geology), X, b 302
Cob nut (Horticulture), XII, b 282; (Jamaica), XIII, a 683, a 684
Cobourg, town (Ontario), XVII, b 797, a 798
COBRA, snake, VI, b 83-4; (Assam), II, b 630; (India), XII, b 781; (Snake) (Ill.), XXII, b 201 note, b 205, b 206-7, a 210; poison (Insectivorous plants), XIII, a 142
Cobre Cimadel, mountain (Chili), V, b 535
COBURG, city, VI, a 84; and duchy (Saxe-Coburg-Gotha), XXI, *a b* 363
COCA or Cuca, plant, VI, a 605; (Peru), XVIII, a 687
—— river (Ecuador), VII, a 560
Cocaine, alkaloid (Cuca), VI, b 605
Cocajo or Coccajo, poet. See FOLENGO, Teofilo
Cocanada, town (Godávari), X, *a* 637
Coccaceæ, class (Schizomycetes), XXI, a 423
COCCEIUS or Coch, Johann, theologian, VI, b 84; (Hermeneutics), XI, a 669
Cocceji, Samuel von, Chancellor (Frederick II.), IX, a 649
Cocci, carpels (Botany), IV, b 136, b 138
—— cells (Schizomycetes), XXI, b 418, *a* b 420, a *b* 421, *a* 422
Coccidæ, family (Ant), II, b 87; (Insects), XIII, a 160
Coccidiidea, sub-class (Protozoa), XIX, b 878-9, *b* 879
Coccidium, genus (Protozoa), XIX, b 860
Coccinella, genus (Coleoptera) (Ill.), VI, b 116, b 121; (Wheat), XXIV, a 565
Coccinite (Mineralogy), XVI, a 400
Coccium, station (Walton), XXIV, a 362
Coccoloba macrophylla or ortegon, tree (Porto Rico), XIX, a 547
Coccothraustes, genus (Hawfinch), XI, b 476
Coccus, insects (Cochineal), VI, *b* 89; (Hemiptera), XI, a 577; (Kermes), XIV, b 51; (Lac), b 182; ceriferus (Wax), XXIV, b 485; piuicorticis (Galls), X, b 41; vitis (Vine), XXIV, b 256
Coccygeal gland (Pathology), XVIII, b 391
Coccygomorphæ, group (Birds), III, b 619, b 620
Coccyx, bone (Amphibia), I, a 660; (Anatomy), b 719, b 720, b 728; (Skeleton), XXII, a b 120
Coch, theologian. See COCCEIUS
COCHABAMBA, city, VI, b 84; department (Bolivia), IV, *a* 11, b 13, *a* 15
COCHIN, district, VI, b 84-5; (Malabar), XV, *a b* 315; lagoon (Madras), b 185
COCHIN CHINA (Map), VI, b 85-9
  animals, a 87
  bibliography, a b 89
  climate, b 86-7
  communications, b 87
  ethnology, b 87-8
  history, a 89
  language, a 88
  physical features, b 85-6
  political features, b 88-9
  productions, a b 87
—— (Asia), II, b 598; (Cambodia), IV, a 640, a 641; (China), V, b 562, a 563, a 565; (France), IX, b 465; (Garnier, M. J. F.), X, *b* 74
—— fowl (Agriculture), I, a 356; (Poultry), XIX, a b 665
COCHINEAL, dyestuff, VI, b 89-90; (Canary Islands), IV, b 703; (Cactus), b 556; (Carmine), V, a 104; (Dyeing), VII, a 494, b 495-7; (Insects), XIII, a 160; (Lac), XIV, b 182
Cochlea (Anatomy), I, *b* 783-6; (Ear), VII, a 512
Cochlearia, genus (Horseradish), XII, b 211
Cochliopodium (Protozoa) (Ill.), XIX, a b 864
Cochrane, Alexander Thomas, lord admiral (Chili), V, b 537. See DUNDONALD
——, Archibald (Gas-Lighting), X, b 79
——, John, player (Chess), V, b 522, a 524
——, Robert, earl of Mar (Scotland), XXI, a *b* 517
——, Thomas, Lord. See DUNDONALD
Cochull, cloak (Ireland), XIII, b 263
Cock in water pipe (Hydromechanics), XII, b 512-3; measuring (Hydromechanics), b 499
Cock-a-leekie dish (Leek), XIV, a 410
Cockamaroo, game (Bagatelle), III, b 198
Cock and Hen Paddle, fish (Lumpsucker), XV, b 66, a 67, note
COCKATOO, bird, VI, a 90; (Parrot), XVIII, a b 328, a 329
COCKATRICE, myth, VI, a b 90
COCKBURN, Mrs. Alison, poetess, VI, b 90
COCKBURN, Sir George, admiral, VI, b 90-1
COCKBURN, Henry Dundas, Lord, jurist, VI, a 91; (Kennedy), XIV, a 37
——, James, poet (Scotland), XXI, a 568
Cockchafers, beetles (Coleoptera), VI, b 119; (Wheat), XXIV, b 566
Cocked Hats, XI, b 462
COCKER, Edward, mathematician, VI, a 91
COCKERELL, Charles Robert, architect, VI, a b 91; (Ægina), I, b 163, *a* 164; (Archæology), II, a 302, b 314; (Architecture), a 353, b 400; (Phigalia), XVIII, b 748, a 749
Cockerill, John, machinist (Seraing), XXI, *b* 706
COCKERMOUTH, town, VI, b 91
Cockfighting (Manila), XV, b 495
Cocking, Robert (Aëronautics), I, b 181
COCKLE, mollusk, VI, b 91-2
Cock of the Rock, bird (Manakin), XV, b 462, note
Cock of the wood, bird (Capercally), V, *a* 49
COCKROACH, insect, VI, a 92; (Insects), XIII, a 159
Cockscomb mountains (Honduras, British), XII, *b* 136
Cockx, Jerome, engraver (Cort), VI, a 390
COCLES, Horatius, hero, VI, a 92
Coco, river (Nicaragua), XVII, b 491
COCOA, seeds (Ill.), VI, a 92-4; (Adulteration), I, a 155, a 158; (Brazil), IV, a 204; (Celebes), V, b 251; (Chocolate), a 591; (Coffee), VI, a 101; (Ecuador), VII, a 562; (Forests), IX, b 357, a 358; (Mexico), XVI, b 221; Brazilian (Guarana), XI, a 209
—— butter (Oils), XVII, b 760, a 761
COCOANUT PALM, VI, a b 94; XVIII, a 195; (Botany), IV, b 93, b 134, b 137, *a* 141; (Ceylon), V, a 315, b 320; (Jamaica), XIII, a 559
——, fruit (Malabar), XV, a 315; (Polynesia), XIX, *a* 433, a 434, b 437 note; (Seychelles), XXI, *b* 762
—— oil (Soap), XXII, a b 215
Coco de mer, tree (Palm), XVIII, a 195
Cocoon (Arachnida), II, *b* 261, *a* b 262; (Bee), III, b 424-5; (Butterflies and Moths) (Ill.), IV, b 528-9; (Hymenoptera), XII, b 608; (Ichneumon-Fly), b 666; (Leech), XIV, b 402; (Micrometer), XVI, a 258
Cocos Islands (Keeling Islands), XIV, b 28
Cocos, palms (Horticulture), XII, b 276
Cocx, painter. See COQUES, Gonzales
COCYTUS, river, VI, a 95
Cocyzus, species (Cuckoo), VI, b 607
Cod, cape (Massachusetts), XV, *a* b 618, b 621, a 622
Cod, fish, VI, a 95; (Foraminifera), IX, b 325, note 6; (Ichthyology), XII, a b 698, a 730; (Ling), XIV, b 674-5; (Touch), XXIII, b 508
—— Fishery, IX, a 212, *a b* 213, a b 217, a 223-4, *a b* 229, a 231; (Labrador), XIV, a b 177; (Lofoten and Vesteraalen), a 776; (Newfoundland), XVII, a b 393-4, a b 395
Coda, appendix (Music), XVII, b 103
Codazzi, A., geographer (Venezuela), XXIV, a b 151, *b* 153
Coddington lens (Microscope), XVI, b 270, note
CODE, legal, VI, b 95-7
—— of Alfonso X. (Spain), XXII, *b* 333; French civil (Thibaut), XXIII, b 322; German national (Thibaut), b 321, a 322; of Holy Office (Inquisition), XIII, a b 100; International, a 203; of Justinian. See Justinian's Code; Mexican, XVI, b 899; Moslem (Mohammedanism), XVI, a 617
Code Napoléon, VI, a 96, b 97; (France), IX, a 541; (Marriage), XV, a 575; (Napoleon) XVII, a 212; (Portalis), XIX, a b 541; (Zachariae), XXIV, a 801
—— *Noir* (Slavery), XXII, b 148; Roman (Justinian), XIII, *a* 802; Russian, XXI, b 97, a b 100, b 104, a 108, a 110, b 112, b 116; Scotch (Act of Parliament), I, b 114; Swedish, Early, XXII, b 791; *of War for U. S. Army* (Lieber), XIV, a 568
Codeia alkaloid (Opium), XVII, a b 815, *a* 816, a 817
Codera, orientalist (Tabarí), XXIII, *b* 8
Codex Alexandrinus, I, b 438; (Apostolic Fathers), II, b 171; (Palæography) (Ill.), XVIII, a 149, b 151, b 167
—— *Argenteus* (Goths), X, b 757; (Illumination), XII, a 746; (Palæography), XVIII, b 148, a 152
—— *Aureus* (Illumination), XII, a b 746; Stockholm (Libraries), XIV, b 531; (Treves), XXIII, a 588
—— *Babylonicus Petropolitanus* (Hosea), XII, b 311
—— *Bezæ* (Acts of the Apostles), I, *b* 114, b 116; (Bible), III, a 559; (Cambridge), IV, b 645; (Libraries), XIV, a 519
—— *Bobbiensis* (Gospels), X, a 722
—— *Brixiánus* (Goths), X, a 722, note
—— *Constitutionum* (Justinian), XIII, *b* 802, a *b* 803, *a* 804
—— *Corbeiensis* (Gospels), X, a 722, note
—— *Cumanicus* (Turks), XXIII, a 702, note
—— *Ephraemi* (Palæography), XVIII, b 151, b 166; (Tischendorf), XXIII, b 436
——, French (Pharmacopœia), XVIII, a 745
—— *Gregorianus et Hermogenianus* (Code), VI, a 96
—— *Juris Ecclesiastici Anglicani* (Gibson), X, *b* 523, a 524
—— *Juris Gentium* (Treaties), XXIII, a 565
—— *Laudianus* (Latin Language), XIV, b 342
—— *Marcianus* (Palæography), XVIII, b 152
—— *of Obay* (Mohammedanism), XVI, a b 627
——, original meaning of (Palæography), XVIII, *a* 148

Codex Ostromir (Russia), XXI, b 111, a 117
—— *Romanus*, Virgil (Miniature), XVI, a 457
—— *Rossanensis* (Rossano), XX, a 878
—— *Sinaiticus* (Greece), XI, a 132; (Libraries), XIV, b 532; (Palæography), XVIII, b 151, b 166; (Tischendorf), XXIII, b 436; (Tobit), b 456
—— *Supraslien̄sis* (Slavs), XXII, b 158
—— *Theodosianus* (Heresy), XI, a 658; (Holy Week), XII, b 109; (Theodosius II.), XXIII, a 279
—— *Townleianus* (Homer), XII, b 118 note
—— *Utinensis* (Breviarium Alaricanum), IV, a 235
—— *Vaticanus* (Libraries), XIV, a b 528; (Mai), XV, a 296; (Palæography), XVIII, b 151, b 166
Codice Atlantico (Leonardo), XIV, a 463
Codices, minuscule (Palæography), XVIII, a 154–5; of New. Testament (Bible), III, b 558–9
Codicil, legal instrument (Roman Law), XX, a 726, b 733; (Will), XXIV, a b 602
Codification period (Roman Law), XX, a 729–35; (Tribonian), XXIII, a 590–1
Codilla (Flax), IX, a b 260
Codinus, Georgius, chronicler (Byzantine Historians), IV, a 546
COD-LIVER OIL, VI, a b 95; (Ichthyology), XII, a 704; (Oils), XVII, b 765, a 766, b 768; (Phthisis), XVIII, b 872
Codman, John, philanthropist (Stuart), XXII, a 932
CODOGNO, town, VI, b 97
Codolada, versification (Spain), XXII, a 377
Codonaster (Echinodermata), VII, b 553
Codonœcina (Protozoa), XIX, a 881
Codosiga (Protozoa) (Ill.), XIX, a 882, *a* 883
CODRINGTON, Sir Edward, admiral, VI, b 97–8
——, R. H., divine (Mythology), XVII, a 155
—— College (Barbados), III, b 312
CODRUS, king, VI, a 98; (Archon), II, b 419
"Cods and Hooks," parties (Holland), XII, *b* 75, *b* 76
Coefficient (Algebra), I, a 458, a b 480; (Constitution of Bodies), VI, b 277; (Laplace), XIV, b 303–4; (Legendre), b 414; (Magnetism), XV, b 245, a 246; detached (Algebra), I, b 459–60; roots and (Algebra), I, a b 480
COEHORN, Menno, Baron van, engineer, VI, a b 98; (Fortification), IX, a 390, *a b* 408
Cœla. pass (Thessaly), XXIII, *b* 319
Cœlata Plate), XIX, b 192
Cœlebs, pseudonym (Whist), XXIV, b 574
CŒLENTERA or Cœlenterata, animals, VI, b 98–9; (Animal Kingdom), II, b 46, a 47, a 48; (Histology), XII, b 6, a 8, a 9, a 10; (Hydrozoa), a 580 *sq.*; (Mollusca), XVI, b 655; (Parasitism), XVIII, b 263, a 264; (Reproduction), XX, b 420–1, a 426, a b 431; (Sex), XXI, a 756; (Skeleton), XXII, a 114; (Touch), XXIII, a 508; (Zoology), XXIV, b 848, a b 851
Cœlestine, sulphate (Strontium), XXII, b 639, a 640
Cœlestinus, pope. See CELESTINE
Cœlestius, monk (Augustine), III, *a* 68; (Pelagius), XVIII, a b 482
Cœlesyria, province (Syria), XXII, *a* 862. See LEBANON
Cœlho, Estavan, poet (Portugal), XIX, b 570
——, Nicholas, navigator (Geography), X, *a* 162
Cœliac axis, arterial (Anatomy), I, a b 793; canal (Echinodermata), VII, b 551, a 552
Cœlian Hill (Rome), XX, a *b* 831, b 848
Cœlicanthidæ, family (Ichthyology), XII, b 725
Cœlius Aurelianus (Medicine), XV, a b 814
COELLO, Alonso Sanchez, painter, VI, a 99
——, D. Fr., geographer (Spain), XXII, *b* 319
——, Isabella Sanchez, painter, VI, a 99
Cœloblastæ (Biology), III, a b 600
Cœlocormidæ, family (Tunicata), XXIII, a 657
Cœlodendrum (Protozoa) (Ill.), XIX, a 874, a 875
Cœlogenys, genus (Mammalia), XV, a 426
Cœlom, cavity (Embryology), VIII, a b 154; (Mollusca), XVI, b 655, b 658; (Polyzoa), XIX, a b 446, a 453; of Siphonopoda (Mollusca), XVI, a 703, b 704; (Trematoda), XXIII, a 570; (Worm), XXIV, a b 713
Cœlomata, grade (Hydrozoa), XII, b 581, note; (Mollusca), XVI, b 655, a 657, b 660
Cœlomonadina (Protozoa), XIX, a 881
Cœlopleurus, genus (Echinodermata), VII, b 545
Cœlops, genus (Mammalia), XV, a 417
Cœlum Britannicum (Carew, Thos.), V, a 90
Cœlurus, genus (Reptiles), XX, b 456 note
Coemption, ceremony (Roman Law), XX, b 694
COEN, Jan Pieterszoon, merchant, VI, a 99; (Batavia), III, b 373; (Indian Archipelago), XII, b 859
Cœnenchyma, calcareous tissue (Actinozoa), I, a 121; (Corals), VI, b 332, b 338, *b* 342, a 343
Cœnobia, retreat (Abbey), I, a b 17; (Ireland), XIII, a 254
CŒNOBITES, religious order, VI, a 99; (Monachism), XVI, a 724, a b 726
Cœnœcia or dwellings (Polyzoa), XIX, b 445, b 449, b 450, a 451; of Flagellata (Protozoa), b 880
Cœnogonium (Lichens), XIV, b 556, b 559, a 565
Cœnopithecus lemuroides (Ape), II, b 145
Cœnosarc, fleshy crust (Corals), VI, b 329, b 330, a 331, a b 341, *a b* 342
Cœnosteum, coral (Hydrozoa), XII, b 597
Cœnurus, parasite (Tapeworms), XXIII, a 58; (Veterinary Science), XXIV, a b 223
Coercion, husband's (Women), XXIV, b 675, notes
Cœruleolactin (Mineralogy), XVI, b 422
Cœsyra of Athens, wife of Pisistratus, XIX, a 140
Cœtlogon, Dennis de, editor (Encyclopædia), VIII, b 179
Cœur d'Alene, mountains (United States), XXIII, b 847
CŒUR, Jacques, merchant, VI, a 99–100; (Charles VII., France), V, *b* 356; (Roanne), XX, a b 604
COFFEE, berry (Ill.), VI, a 100–4
    adulterations, a 104
    analysis, b 102
    culture, a b 102
    description, a b 100
    dietetic use, a 103, a 104
    history, b 100–1
    preparation of beverage (Ill.), a 103–4
    sources, a 101–2

—— (Arabia), II, a b 207, a 213, *a* b 219; (Botany), IV, *a* 141; (Brazil), a 204; (Celebes), V, *b* 251; (Ceylon), a b 320; (Cocoa), VI, a 93; (Costa Rica), a b 398; (Cuba), a 602; (India), XII, b 788, a 796, b 797; (Jamaica), XIII, a b 559; (Java), a 611, a b 614; (Kádúr), b 824; (Liberia), XIV, b 507, note; (Madras), XV, b 186, *a* 187; (Mexico), XVI, b 898, b 903, a b 911; (Mocha), a 564; (Philippine Islands), XVIII, a 765; (Rio de Janeiro), XX, a 578; (Sumatra), XXII, b 673, b 674; (Thousand and One Nights), XXIII, a 338; (Venezuela), XXIV, b 151
—— Adulteration, I, b 153–4; (Chicory), V, a b 534; bags (Fibres, Textile), IX, b 116; houses (Arabia), II, b 218; eighteenth century (Foote), IX, a *b* 322; leaf disease (Parasitism), XVIII, b 271; substitute for (Iris), XIII, a 282
COFFER-DAM (Ill.), VI, a 104–6; (Bridges) (Ill.), IV, a b 293
Coffey's still (Distillation), VII, *a* b 231
Coffin (Amphora), I, b 681; (Funeral Rites), IX, a 724; (Mummy), XVII, b 27; clay (Pottery), XIX, a 623; wicker (Cemeteries), V, a 287; (Wood-Carving), XXIV, b 679, note
——, Charles, poet (Hymns), XII, *b* 619
——, James H., meteorologist (Signal Service), XXII, a 904
—— joint (Horse), XII, b 181
Cogan, Milo de (Cork), VI, a 359
Coggia's comet (Astronomy), II, a 714; VI, *b* 168–9
Cogging (Building) (Ill.), IV, a b 430
Cogidubnus, king (Chichester), V, b 533; (Sussex), XXII, a 763
Cogitata et Visa (Bacon), III, b 176, a 182
"Cogito ergo sum," premise (Cartesianism), V, *b* 125, a 126
COGNAC, town, VI, a 106; district (Brandy), IV, b 194
Cognate heirs, jus gentium (Roman Law), XX, a 721; jus naturale (Roman Law), a 726
Cogni or Konijah, town (Iconium), XII, a 735
Cognition (Fichte), IX, a 120–1; (Hamilton, Sir W.), XI, *b* 372, a 373, *a* b 374; (Hume), XII, b 365, a b 366, a 367, a b 368; (Jacobi), XIII, b 547–8; (Kant), a b 858, a 859, a b 860, a 861, b 862, a 863; (Logic), XIV, a b 789, b 790, b 791, a 794, note, a b 799, b 800–1, a b 804, a b 805, a b 808–9; (Psychology) XX, a b 46, *a* b 49; (Schleiermacher), XXI, b 429, *a* b 431; grades of (Xenocrates), XXIV, a 755; objectivity of (Psychology), XX, b 87–8; relation to feeling of (Psychology), b 45
Cognition of Insane Persons (Writ), XXIV, a 733
Cogominho, Fernão Fernandez, poet (Portugal), XIX, b 570
Cogs (Mechanics), XV, a 766
——, vessels (Navy), XVII, b 288
Cohabitation (Contract) VI, b 287
Cohanim, priests (Jews), XIII, b 695
Coheleth or the Preacher (Ecclesiastes), VII, b 539–41, a 542
Cohen, historian. See PALGRAVE, Sir Francis
Cohesion (Mineralogy), XVI, b 361, a 362, a 393, a 394; floral (Botany), IV, a b 116; limit of (Capillary Action), V, b 50, a 53; molecular (Henry, J.) XI, a 602; specific (Capillary Action), V, b 63–4
Cohit, river (Gaboon), X, b 4, a 5
Cohn, Ferdinand, botanist (Schizomycetes), XXI, *b* 416, *a b* 417, a b 418, b 421 note, a 422, *a* b 423, a b 424, notes, a 425 note; on cryptogams (Biology), III, b 600, a 601; on temperature and life (Biology), *b* 588–9
Cohnheim, Julius Friedrich, pathologist (Pathology), XVIII, b 366, b 373, a 395, a 397, a 399 note, b 409, a b 410, note, b 415, a 417 note

Cohoes, town, VI, a b 106
Cohorts (Army), II, a 493
Cohosh or leontice thalictroides, plant (Botany), IV, a 132
Coignet, Michael, geographer (Navigation), XVII, b 260
Coil system (Gunmaking) (Ill.), XI, a 256–7; (Gunnery), a 273
Coils, induction (Electricity), VIII, a 74
Coimbatore, district, VI, b 106; town, b 106
Coimbra, city, VI, b 106–7; (Meteorology), XVI, a 125, a 128, a 130, a 131, a 132, a b 133, a 137; (Portugal), XIX, *b* 551, *a* 552, a 553, b 554, a 555; school of (Portugal), a b 573; (Observatory), XVII, a 734; (Universities), XXIII, b 895, b 907
Coin, town, VI, a 107
Coinage (Adulteration), I, b 159–60; (Bronze), IV, a 330, b 331; (Bullion), a 464
—— Act, British (Mint), XVI, a 507; alloys (Gold), X, a b 668; depreciation of (Money), XVI, a 752–4; relative values in (Money), XVI, 758, 759; (Silver), XXII, a b 80; restriction of (Money), XVI, a 748; systems of tables (Money), a 758–9; unification of (Italy), XIII, a 477; (Money), XVI, a b 760. See Money, Numismatics
—— of Afghânistân, I, *a b* 214, *a* 216
——, American (Jefferson), XIII, a 626; (Mint), XVI, a b 514; (Money), a 759, note; (United States), XXIII, a *b* 881
——, Arabian (Geography), X, b 159; (Mohammedanism), XVI, a 595; (Numismatics), XVII, a 678–9
—— of Bactria, III, a 192; (Lassen), XIV, a 323; (Persia), XVIII, b 601, a 602; (Yemen), XXIV, *b* 778
——, British (Bristol), IV, *b* 314; (Bury St. Edmunds), IV, a 511; (Essex), VIII, a 490; (Folkes), IX, a 312; (Halifax, Earl), XI, a 345; (Macedonian Empire), XV, a 140; (Money), XVI, a b 758-9; (Numismatics), XVII, a b 674; (Sussex), XXII, *a* 763; depreciation of (Money), XVI, a b 753
——, Byzantine (Numismatics), XVII, a b 672
——, Carthaginian (Azores), III, b 147; (Numismatics), XVII, a b 669
—— of Ceylon, V, a b 321
—— of Chili, V, b 542–3; (Money), XVI, a 759
—— of China (Canton), V, b 35; (Hong Kong), XII, a 146; (Numismatics), XVII, a 680
——, Cuban, VI, a 603
Coinage, Decimal, VII, b 19–29; (Finance), IX, a 156, b 159; (Mint), XVI, a 503, a 504, a b 505, a 514; (Money), b 750 *seq.*; (Nickel), XVII, a 502; (Numismatics), a 643–80; (Silver), XXII, a 78; (Weights and Measures), XXIV, b 509
——, Egyptian, VII, b 645, a 646, b 683; (Numismatics), XVII, a 668; Ptolemaic (Egypt), VII, b 632, a 646; (Weights and Measures), XXIV, *b* 513, a b 515
——, French (Bordeaux), IV, a 47; (Huy), XII, b 431; (France), IX, a 464; (Money), XVI, a 758; (Numismatics), XVII, b 651, b 673; depreciation of (Money), XVI, b 753
——, German, X, a 418–9; (Money), XVI, *a* 758; (Numismatics), XVII, a b 676
——, Greek (Antioch), II, b 115, a 116; (Archæology), a 310, a 311, a 317; Aspendus (Pamphylia), XVIII, a 211; (Cyzicus), VI, a 665; (Eleusis), VIII, a 121; (Ephesus), b 414; (Greece), XI, b 80; (Gythium), a 317; (Hierapolis), b 706, a 707; (Juno), XIII, b 788; (Laodicea), XIV, b 293, a 294; (Lydia), XV, b 101; (Macedonian Empire), a 142, b 143; (Miletus), XVI, a 307 note; (Numismatics), XVII, b 646–69; (Palmyra), XVIII, a 206, a 207; (Phrygia), a b 866, note; (Selinus), XXI, a 665, note; (Taormina), XXIII, b 53; depreciation of (Money), XVI, b 752; of Themistocles (Persia), XVIII, b 585
—— in India (Calcutta), IV, a 583; (India), XII, b 827, b 828; (Kandahar), XIII, a 846; (Mahmúd), XV, b 289; (Money), XVI, b 759; (Nepal), XVII, a 352; (Numismatics), b 679–80
—— of Italy (Etruria) (Ill.), VIII, a 557, b 560, a 562, b 563; (Italy), XIII, a 477; (Mercury), XVI, b 36; (Numismatics), XVII, b 652–4, a 675–6; (Pæstum) (Ill.), XVIII, a b 137; (Palermo), b 172 note; (Umbria), XXIII, b 771; Sicilian (Archæology), II, a 313; (Numismatics), XVII, a 654–6
——, Irish, XIII, *b* 267
——, Japanese (Money), XVI, b 759; (Numismatics), XVII, a 680
——, Khokand, XIV, a 68
——, Mexican, XVI, b 217; (Money), a 759
——, Mongolian, XVI, a b 773, a b 774
——, Persian (Darius), VI, b 726; (Numismatics), XVII, b 677, a 679; (Pahlavi), XVIII, a 140; (Sálaníds), XXI, b 253
——, Roman (As), II, a 590; (Baalbec), III, a 153; (Constantine), VI, a 268; (Copper), b 311; (Helena, St.), XI, a 562; (Juno), XIII, b 788; (Manchester), XV, a 471; (Numismatics), XVII, b 669–72; (Pembroke), XVIII, a 498; (Roman Law), XX, a 694
——, Russian (Money), XVI, b 758; (Numismatics), XVII, a 677; (Platinum), XIX, b 201
——, Saxon (Hexham), XI, a 700; (Rome), XX, a 839 note; of Alfred the Great (Oxford), XVIII, a 102
——, Scandinavian (Arboga), II, a 275; (Denmark), VII, a 72; (Money), XVI, a 658; (Numismatics), XVII, b 676
——, Scotch (Banking), III, a 287; depreciation of (Money), XVI, b 753
——, Siamese, XXI, b 891
——, Spanish (Iberians) (Ill.), XII, b 639, a 640; (Numismatics), XVII, a 651
——, Tibetan (Lhasa) (Ill.), XIV, b 497–8, a 503
——, Walachian (Roumania), XXI, *a* 23, note. See Currency, Money, Numismatics
Coindet, Jean François, physician (Goitre), X, b 658
Corn Exchange, Amsterdam (Banking), III, b 290–1
Coingt's gas collector (Iron), XIII, a 316
Coining (Boulton), IV, b 157; (Die Sinking), VII, b 171; by hand (Mint), XVI, a 504, a 513; press (Mint) (Ill.), a 504; private (Money), b 751
Coins (Cattle), V, a 213; (Cave), a b 235; (Crown), VI, b 548; (Lake Dwellings), XIV, a 225. See Coinage, Numismatics
Coir, fibre, VI, a 107; (Ceylon), a 321; (Cocoa-nut Palm), b 94; (Laccadives), XIV, b 183, a 184; (Maldive Islands), XV, a 333, a 334; (Matting), b 641
Coire, town, VI, a b 107
Coiter, Volcher (Anatomy), I, a 710; (Embryology), VIII, a 151 note; (Ornithology), XVIII, a 8
Coitus disease (Veterinary Science), XXIV, a b 219
Coix, genus (Grasses), XI, a 50, a 51, a 52
Cojutepec, town, VI, b 107; volcanoes (San Salvador), XXI, a 281
Coke, fuel, VI, b 107–9; (Carbon), V, a b 77; (Coal), VI, a 45, a b 46, b 49, b 74; (Gas and Gas-Lighting), X, b 90–1; (Nitrogen), XVII, b 530–1; (Tar), XXIII, b 64
——, Chemistry in furnace of (Iron), XIII, b 317; combustion of (Smoke Abatement), XXII, a 192; economy in (Iron), XIII, a b 325; heat development of (Iron), b 320–1; refinery (Iron), a b 328, b 340; smelting (Iron), b 298–9
Coke, Sir Edward, jurist, VI, a 109–10; (Bacon), III, b 175, a b 178, b 179, b 181; (Chancery), V, a 338; (Copyhold), VI, b 315; (Corporation), *b* 384; (Cowell), b 471; (Knighthood), XIV, b 115, b 116; (Littleton), *a* b 711; (Monopoly), XVI, a b 784; (Tithes), XXIII, b 439; (Torture), *a* 494; (Williams), XXIV, *a* 618; (Writ), *a* b 729
——, Dr. Thomas, superintendent (Methodism), XVI, b 195, b 199
Coking chambered furnaces (Iron), XIII, b 307
Cokum butter (Oils), XVII, b 765, a 768
Colac, lake (Victoria), XXIV, a 233
Colæus, navigator (Samos), XXI, a 262
Colantonio, painter (Schools of Painting), XXI, b 463
Cola Nut, XVII, b 683, a 684
Colaptes, genus (Woodpecker), XXIV, b 686–7
Colar, district. See Kolár
Colaxis, patriarch (Scythia), XXI, b 603
Colay, lake (Ecuador), VII, b 560
Colberg, town, VI, a b 110
Colbert, Jean Baptiste, statesman, VI, b 110–2; (Academy), I, *a* 69, *a* 74; (Bookbinding), IV, b 37; (Carpets), V, *a* 113; (Chaplain), b 343, a 344; (Charpentier), *a* 373; (France), IX, *b* 505, a b 506, *a* 507; (Libraries), XIV, a 524; (Mirror), XVI, a b 523; (Periodicals), XVIII, b 549; (Perrault), a 568; (Political Economy), XIX, *b* 368, a 409
Colbertine manuscript (Creeds), VI, a 498
Colbertism (Protection), XIX, b 936
Colburn, Thomas, publisher (Periodicals), XVIII, a 548
——, Zerah, prodigy (Hamilton, Sir W. R.), XI, b 376
Colby, Thomas, engineer (Drummond), VII, *b* 414; apparatus of (Surveying), XXII, a 732; base apparatus (Geodesy), X, b 146, a 147; compensation bars (Earth), VII, a b 518
Colchagua, province (Chili), V, a 535, a b 536, a 540
Colchester, town, VI, b 112–3; (Abbey), I, a 25
Colchester, Charles Abbot, Lord, statesman, VI, a b 113
Colchicine, alkaloid (Colchicum), VI, b 113
Colchicum, plant, VI, b 113–4; (Botany) (Ill.), IV, *b* 87, a 88, a 94, *b* 135, b 138, (Gout), XI, b 8 9; (Horticulture), XII, a 258
Colchist, district, VI, a 114; (Argonauts), II, *a* 437; (Mingrelia), XVI, b 456; (Numismatics), XVII, a 662
Colcothar, polishing powder (Copperas), VI, a 313
Cold, malady (Catarrh), V, 190–1
——, temperature, effects of (Drunkenness), VII, a b 416; (London), XIV, a 860, a b 861; (Magnetism), XV, a 274; (Medical Jurisprudence), b 791
——, therapeutics of (Hydropathy), XII, b 576; (Typhus), XXIII, b 722; *Bathing, History of* (Hydropathy), XII, a 575
Cold-blast (Iron), XIII, b 325–6
—— gilding (Gilding), X, b 530
—— Harbor, battle of, 1864 (United States), XXIII, b 827
Colding, physicist (Energy), VIII, b 189

Coldingham, village (Berwickshire), III, *b* 529
Cold-rolling (Iron) (Ill.) XIII, b 339-40
Cold-swaging (Elasticity), VII, b 693
COLDSTREAM, town, VI, a b 114; (Berwickshire), III, b 529, *a* 530; guards (Army), II, b 499; VI, b 114
"Cold wall" (Atlantic Ocean), III, b 18
—— -Water Cure. See HYDROPATHY
—— waves, climatic (United States), XXIII, a b 856
Coleanthus, genus (Grasses), XI, b 52, b 53
COLEBROOKE, Henry Thomas, orientalist, VI, b 114; (Algebra), I, *a b* 456; (Andaman Islands), II, a 13, *a* 14; (Caste), V, a 164, b 166; (Sanskrit), XXI, a b 302 notes, b 303 note, b 307 notes, b 309 note; (Wilson), XXIV, a 622, *a* 623
Colella, genus (Tunicata), XXIII, b 656
Coleman, Edward, farrier (Veterinary Science), XXIV, *a* 215
——, Elihu, abolitionist (Slavery), XXII, b 908
——, J. J., inventor (Preserved Food), XIX, b 727, b 728; his press (Cider), V, a b 677
Colenso, John William, bishop (Circumcision), V, b 690; (Natal), XVII, b 248; (Pentateuch), XVIII, b 522; (Thirlwall), XXIII, b 326; (Wilberforce), XXIV, a 596
Coleochæte, plants (Reproduction), XX, b 443; (Vegetable Kingdom), XXIV, a b 137, b 140
COLEOPTERA (Plates VI–VIII), VI, b 114-22
  cabinet specimens, b 121-2
  classification, a 117
  color and markings, b 115
  distribution, b 116-7
  heteromera, a 120-1
  metamorphoses, a b 116
  pentamera, a 117-20
    amphibious, b 117-8
    geodephaga, a b 117
    horned group, a 119-20
    scavenger group, a 118-9
  structure, b 114-6
  tetramera, b 120
  trimera, b 121

—— (Galls), X, a 42; (Insects), XIII, b 147, b 149, *a b* 153, a b 154-6; (Madeira), XV, a 181; (Mimicry), XVI, b 354; (St. Helena), XXI, a 180
Coleorhiza, sheath (Botany), IV, b 84; (Grasses) (Ill.), XI, a b 51
Colepepper, Sir John, politician (Clarendon), V, *b* 703
COLERAINE, town, VI, a 122
COLERIDGE, Hartley, poet and essayist, VI, a b 122; (Apparitions), II, b 177
——, Henry Nelson, author, VI, b 123, a *b* 125
COLERIDGE, Sir John Taylor, Lord, jurist, VI, b 122; (Keble), XIV, a 26, *b* 27, a 28
COLERIDGE, Samuel Taylor, poet, VI, b 122-5
  German period, a b 123
  literary character and influence of, b 123-4
  literature, a 125
  opium and Highgate period, b 123
  Southey and Wordsworth association, a 123
  theologico-philosophical position of, a 124-5
  youth and education, b 122-3

—— (Campbell, Thomas), IV, a 669; (Davy), VI, b 745; (Drama), VII, a 379; (Encyclopædia), VIII, a 186; (English Literature), *b* 385, b 386, a b 387; (Hazlitt), XI, b 490, *a b* 491; (Maurice), XV, a 645; (Newspapers), XVII, a 428; (Niebuhr, B. G.), b 506; (Poetry), XIX, a b 273, a 277; (Rossetti), XX, *b* 882, *a* 883; (Scott), XXI, b 572; (Sonnet), XXII, b 275; (Southey), *a* 304; (Wordsworth), XXIV, *b* 704, notes, *a* b 705, a 706, note, *a* 707, a 709, a 710, a 711
COLERIDGE, Sara, authoress, VI, b 124, *a* b 125; (Dobrizhoffer), VII, a 268
Coleroon or Kalerun river, channel (Arcot), II, a 421; (Káveri), XIV, a 21
Cole's Hill (Plymouth), XIX, a 250
Cole's *History of Plants* (Hops), XII, b 161; (Horseradish), a 212
COLET, John, dean, VI, b 125-6; (England), VIII, a 299; (England, Church of), b 334, a 335; (English Literature), b 366, b 369-70; (Lilye), XIV, *b* 650
COLET, Louise Revoil, poetess, VI, a 126
Coleüra, genus (Mammalia), XV, b 417
Coleus, plant (Horticulture), XII, a 275
Colewort, vegetable (Horticulture), XII, b 291
Colfax county (New Mexico), XVII, *a b* 410, a 411
——, town (California), IV, a 620
COLFAX, Schuyler, vice-president (United States), XXIII, b 837
Colgan, John, friar (Celtic Literature), V, a 265, a 267; (Ireland), XIII, a 253
Colguën pass (Chili), V, b 535
Colias (Butterflies) (Plate XXVIII), IV, b 529
Colibris, genus (Humming-Bird), XII, *b* 372
COLIC, disease, VI, a 126-7; equine (Veterinary Science), XXIV, b 222
—— arteries (Anatomy), I, a b 793
COLIGNI, Gaspard de, Admiral of France, VI, a b 127; (Condé), *a* b 218; (France), IX, *a b* 493, *b* 494, *a* 495; (South Carolina), XXII, b 302
Coliguë or Coleu, plant (Chili), V, b 541
Coliidæ, family (Mouse Bird), XVII, b 12-3
COLIMA, city, VI, b 127; and State (Mexico), XVI, a 223, b 898, b 901, b 903, a b 911; mountain (Mexico), a 224
Colin, bird (Quail), XX, *b* 153
——, Alexander, sculptor, VI, b 127
Colin Clout, satire (Shelton), XXII, *a* 128
—— *Clout's Come Home Again* (Spenser), XXII, b 409, b 410
"Colin the Singular," baron (Inverary), XIII, b 204
Coll, Bernat des, chronicler (Spain), XXII, b 377
Colla, race (Peru), XVIII, a 690
Colla Uas, king (Ireland), XIII, b 251
Colladon constitution (Geneva), X, *b* 134
COLLAERT, Hans, engraver, VI, b 127
Collagen (Gelatin), X, a 117, a 119
Collapse or shock (Surgery), XXII, a 715
Collar bone (Anatomy), I, b 724, b 729, a 730. See Clavicle
Collard, W. F., manufacturer (Pianoforte), XIX, b 81, b 83, a 85
Collared Dove, VII, a 329
Collars (Costume), VI, a 413, a 416, a b 417, *a* b 418, a b 419, *a* 420, a 422
—— in Mechanics, XV, b 776
Collateral Consanguinity, VI, b 259-60
Collatinus, Tarquinius, consul (Brutus), IV, a 365
Collatio Legum Mosaicarum et Romanarum (Roman Law), XX, a 731
Collationes Patrum, Cassian's (Monachism), XVI, b 728, b 730
COLLÉ, Charles, poet, VI, b 127-8
COLLÉ, Raffaelle, del, painter, VI, a 128
Collectarium (Liturgy), XIV, a 716
Collection, commercial (Banking), III, b 272
Collection or *Synagogé* (Pappus), XVIII, a 234-5; (Porism), XIX, a 534
Collector, British magistrate (India), XII, a 808, a b 842-3
Cölleda, town (Peppermint), XVIII, b 529
Colleen Bawn (Griffin, G.), XI, b 174
COLLEGE, VI, a 128-9
——, Airedale (Bradford), IV, a 179
—— (Ajmir), I, b 384
——, Amherst, Massachusetts. See Amherst College
—— (Armagh), II, a 479
—— of Arms (Precedence), XIX, b 681
——, Athletic Sports, III, b 12-3
——, Azhar (Egypt), VII, a 681
——, Bryn Mawr (Women), XXIV, 912
——, Cardinal Lemoine's (Geoffroy-Saint-Hilaire), X, b 155-6
—— of Cardinals (Pius IX.), XIX, a 167
——, Char Minar (Hyderabad), XII, b 444-5
—— de Clermont (Molière), XVI, a 647
——, Columbia, New York. See Columbia College
—— (Delhi), VII, b 42
——, Dickinson (Carlisle), V, a 97
—— of Doctors of Law (Doctors' Commons), VII, a 277
——, Dulwich (Alleyn), I, b 514, a 515; VII, b 449
——, Eton, VIII, b 555-6
——, Evelyn, Princeton (Women), XXIV, b 911
——, Fort William (Wellesley), XXIV, *a* 520
——, Four Nations (France), IX, b 505
——, France, IX, b 453; (Sainte-Beuve), XXI, b 171; (Universities), XXIII, a 907
——, Georgetown, X, a 387
——, Georgia Female (Women), XXIV, a 911
——, Girard (Philadelphia), XVIII, b 753
——, Gresham, XI, b 166, a 167
——, de Guienne (Montaigne), XVI, a 794
——, Harvard. See Harvard College
——, Hooghly, XII, a 151
——, Hobart (Geneva), X, a 136
——, Ispahan, XIII, a *b* 404
——, King's (Aberdeen), I, *a* 43, a 46
——, Lampeter (Burgess), IV, *b* 477
——, Louis le Grand (Voltaire), XXIV, b 305-6
——, Marlborough, XV, a 516
——, Maynooth, XV, b 656
——, Mercer (Georgia), X, a 393
——, Navarre (Geoffroy-Saint-Hilaire), X, b 155-6
——, New (Edinburgh), VII, b 577
—— of New Jersey. See Princeton
——, Oberlin, XVII, b 723; (Women), XXIV, 912
——, Pedro II., imperial (Brazil), IV, a 214
—— of Physicians, London (Adulteration), I, a 159; (Gilbert), X, *b* 528; (Linacre), XIV, a b 659; (Sydenham), XXII, *a* b 844
——, Prince of Wales (Prince Edward Island), XIX, b 760
—— of the Propaganda (Missions), XVI, a 537
——, Queen's (Benares), III, b 479
——, Rájumár (Indore), XII, a 886
——, St. Aidan's (Birkenhead), III, b 676
——, St. Côme (Surgery), XXII, a 710, a 711
——, St. Leonard's (St. Andrews), XXI, *b* 166
——, St. Salvator (St. Andrews), XXI, *b* 166
——, Smith (Women), XXIV, 912
——, Trinity, Dublin. See Trinity College, Dublin
——, Upper Canada (Toronto), XXIII, b 476, b 477
——, Vassar. See Vassar College

College, Wellesley. See Wellesley College
——, Yale. See Yale College. See University
—— (Cambridge), IV, a 646–7; (Canada), b 689–90; (Cheltenham), V, a 397; (Cloister), VI, b 36; (Corporation), a b 384; (India), XII, b 814; (Massachusetts), XV, b 620–1; (New York), XVII, a 897; (Ontario), b 797–8; (Oxford), XVIII, b 99–101; (Paris), a b 286; (Peru), b 688; (Plymouth), XIX, a 248; (Tunis), XXIII, a 662
——, Agricultural, I, b 362, b 363; (Circenster), V, a 692; (Gloucester), X, a 614; (Lansing), XIV, b 290
——, dental (Dentistry), VII, a 84
—— of Heraldry, XI, a b 612
——, military, in England, (Army), II, a b 512. See West Point
——, Mohammedan (Samarkand), XXI, *a* b 259
——, Queen's University, Ireland, XXIII, b 911–2
——, religious (Propaganda), XIX, b 831, a 832
——, rise of (Universities), XXIII, b 889, b 893, a 894, a 895, b 896, *a* b 897, b 898–9, b 900–1, a 902
——, United States (Schools), XXI, b 909–10; (Universities), XXIII, b 952–63; origin of (United States), a 780
—— for Women, XXIV, a b 911–2
—— for Veterinary Science, XXIV, b 214–6
——, and university (England), VIII, b 284–5
——, Welsh (Universities), XXIII, a 912
Collegia opificum (Caste), V, b 162; Roman (Guild), XI, *b* 230, note; (Slavery), XXII, b 143; (Lupercalia), XV, b 68
Collegians (Griffin), XI, b 174
Collegiants, sect (Spinoza), XXII, b 415, note
Collegiate foundations (Canon), V, b 15; reform (Brougham), IV, b 339
Collegio Alberoni (Piacenza), XIX, b 72
—— Romano (Jesuits), XIII, a 664, a 666; (Libraries), XIV, b 528
Collegium Curiosum (Academy), I, b 69; de Propaganda Fide, Rome (Libraries), XIV, a 529, b 550; Roman (Club), VI, a 39–40; (Colleges), a b 128; (Corporation), b 382–3
Collema, genus (Fungus) (Ill.), IX, a 733; (Lichens) (Ill.), XIV, b 555, a b 556, b 558, b 559, b 560, b 562, a 564, b 565
Collemaceæ, group (Fungus), IX, b 733; (Lichens), XIV, a 556, b 559, a 560, a b 561
Collembola, group (Insects), XIII, a 153, a 154, a b 160
Collenchyma, tissue (Histology), XII, a 21; (Sponges) (Ill.), XXII, a b 435
Colleoni, Bartolomeo, statue of (Sculpture), XXI, b 595; (Venice), XXIV, a b 169
Collencytes, corpuscles (Sponges) (Ill.), XXII, a b 435, b 436
Collerye, Roger de, poet (France), IX, b 572
Collet, John, artist (Caricature), V, b 92
Colleters, hairs (Botany), IV, b 81; (Histology), XII, a 20
Colleto-cystophors (Hydrozoa), XII, b 584, b 588, b 589
Colleton, General (Pontoon), XIX, b 471
Collett, Jacobine Camilla, novelist (Norway), XVII, a 606
——, Robert, naturalist (Lemming), XIV, b 436
Colletta, Pietro, historian (Italy), XIII, b 524
Collett's Inn (Inns of Court), XIII, a 97
Colliberts, people (Cagots), IV, b 569
Collie, Scotch (Dog), VII, b 283
COLLIER, Arthur, metaphysician, VI, a 129–30; (Norris), XVII, a 566
COLLIER, Jeremy, divine, VI, b 130–1; (Cibber), V, b 672, a 673; (Drama), VII, a 377, note; (Wycherley), XXIV, a *b* 743
——, John Payne, critic (Henslowe), XI, b 604; controversy, works on the (Shakespeare), XXI, a b 807
Collieries, mode of working (Coöperation), VI, a b 302; anthracite (Pennsylvania), XVIII, a 512. See Coal fields, MINING
Colligation of facts (Whewell), XXIV, *a* 570
Collimator, instrument (Kater), XIV, b 16; (Optics), XVII, a 824, b 825, a 826; magnet (Magnetism), XV, b 239; of Spectroscope, XXII, *b* 387; Time, XXIII, a 423
Collin, Matthieu, critic (Drama), VII, a 383
Colling, Messrs., breeders (Agriculture), I, b 343
COLLINGWOOD, Cuthbert, baron, VI, a 131–2; (Nelson), XVII, b 332, a 333
"Collingwood," ship (Navy), XVII, b 294–6
COLLINS, Anthony, metaphysician, VI, a 132–3; (Deism), VII, a b 32; (Woolston), XXIV, a 699
——, J. H., geologist (Kaolin), XIV, *a* b 3
COLLINS, Mortimer, novelist, VI, a 133
—— Samuel (Anatomy), I, a 713
COLLINS, William, painter, VI, a 134
COLLINS, William, poet, VI, a 133–4; (Warton), XXIV, b 398
Collinson, Sir Richard, explorer (Geography), X, *b* 174; (Polar Regions), XIX, a b 333
Collision, laws of (Elasticity) VII, b 700–4
Collisions (Seamanship), XXI, a 631
Collocalia, genus of birds (Swift), XXII, *a* 799
Collocation of words in syntax (China), V, b 570–1, *a* 573
Collo-chromate charting (Surveying), XXII, a 753
Collodio-chloride emulsion (Photography), XVIII, a 841
—— -gelatin process (Photography), XVIII, b 842
COLLODION, chemical substance, VI, a 134
—— photography (Parallax), XVIII, a 253; (Photography), b 837–8, b 840
Colloid cancer (Pathology) (Ill.), XVIII, b 389
Colloids (Albumen), I, a 404; (Diffusion), VII, b 188; (Graham, T.), XI, b 30
Collon's turbine sluice (Hydromechanics), XII, a b 562
Colloque or synod (Huguenots), XII, b 351, a 352, a 353; (Presbyterianism), XIX, b 712, a 715
Colloquia (Corderius) VI, b 345
—— *Mensalia*, Luther (Ana), I, b 689
Colloquium Heptaplomeres (Bodin), III, a 737
Colloredo, Hieronymus, Count of, Bishop (Mozart), XVII, b 15, *a* b 16
—— Lazarus (Monster), XVI, b 792
COLLOT D'HERBOIS, Jean Marie, revolutionist, VI, b 134; (Robespierre), XX, *a* 619
Collotype, charting (Surveying), XXII, b 753–4
Collozoum (Protozoa) (Ill.), XIX, a *b* 873
Collusion (Divorce), VII, b 262–3
Collyridians, sect (Mary), XV, a 598 note
Collytus, deme (Athens), III, b 3
Colman, bishop of Lindisfarne (Northumberland), XVII, b 583; (Scotland), XXI, a 498
COLMAN, George the Elder, dramatist, VI, b 134–5; (Drama), VII, b 378, note
COLMAN, George the Younger, VI, a 135; (Drama), VII, a 379, note; (Theatre), XXIII, b 246
COLMAR, town, VI, a b 135; (Schongauer), XXI, *a* 450; (Voltaire), XXIV, *a* b 310
—— Thomas de, mathematician (Tables), XXIII, b 13
Colmata, reclaiming land (Agriculture), I, b 360
Colmont river (Mayenne), XV, a 655
Coln, town. See COLOGNE
Colne river (Essex), VIII, *a* 488
——, river (Hertford), XI, b 688; (Middlesex), XVI, b 291; (Uxbridge), XXIV, *b* 27
COLNE, town, VI, b 135
Coloboma, disease (Ophthalmology), XVII, a 804, b 805
Coloburis, genus (Pitta), XIX, b 159
Colobus, genus (Ape), II, b 132–3, b 136, *b* 137, a 138, a 142, b 146
Colocasia esculenta, plant (Hawaiian Islands), XI, b 472, *a* 473
Colocotronis, Theodorus, patriot (Greece), XI, b 111, b 112; (Hydra), XII, b 446
COLOCYNTH, plant, VI, b 135–6; (Gourd), XI, a 6
COLOGNA, town, VI, a 136
COLOGNE, city (Plan), VI, a 136–7; (Agrippina), I, b 372; (Deutz), VII, *b* 116; (Glass), X, b 581, a 582; (Hanseatic League), XI, *a* 402, a 403; (Libraries), XIV, a 548; (Prussia), XX, *b* 25, *a* 26; (Ursula), XXIV, b 17, *a* 18; early printing at (Typography), XXIII, a 729; stoneware (Pottery and Porcelain), XIX, b 650; Walraf-Richartz gallery (Schools of Painting), XXI, b 466
—— earth, pigment (Coal), VI, a 45, b 54
COLOGNE, EAU DE, VII, a 533
Cololites (Coprolites), VI, a 313
Coloma, town (California), IV, b 621
Coloman, king (Hungary), XII, a b 382, b 390
Colomb, Philip, inventor (Signals), XXII, a b 55
Colomba (Mérimée), XVI, a 42, b 43
COLOMBIA, republic, VI, a 137–41
  climate, b 138–9
  coast and surface, a b 137
  history, b 140–1
  literature, a 140, a 141
  minerals, b 138
  political and social features, b 139–40
  population, a b 140
  productions, a b 139
  water system, b 137–8
—— (America), I, a b 625; (Andes), II, b 15; (Mining), XVI, b 493; (Miranda), a 522; (Ecuador), VII, a 563; (Panamá), XVIII, b 213; (Railway), XX, a 263; (Bolivar), IV, a b 9–10. See VENEZUELA
Colombino, spice (Ginger), X, b 538
COLOMBO, city, VI, b 141; (Ceylon), V, b 312, *a* b 313, *a* 314, *b* 316, a 317, a *b* 319, b 321; lake (Ceylon), *a* 313
Colombo. See COLUMBUS
——, Bartolomeo (Columbus), VI, a 154, a 156
——, Diego, navigator (Columbus), VI, a b 156
——, Diego, 2d (Columbus), VI, a b 154, a 156, *b* 157; (Jamaica), XIII, a 560
——, Fernando, navigator, (Columbus), VI, b 153, a b 157
Colon, city (Aspinwall), II, a 626; territory (Venezuela), XXIV, b 152
——, intestine (Digestive Organs), VII, b 198, a 199; (Horse), XII, b 183–4; (Mammalia) (Ill.), XV, a b 365; (Nutrition), XVII, b 687, a 688
"Colon and Spondee," pseudonym (Tyler), XXIII, a 950
Colonæ, ancient town (Troad), XXIII, b 617
Colonel Jack, History of (Defoe), VII, *a* 27, a 29
Coloni, Roman (Slavery), XXII, a b 144–5
Colonia, department (Uruguay), XXIV, *a* 20, *a* 21

Colonia Agrippina, town (Cologne), VI, b 136
—— Perpetua, tenure (Corfu), VI, a b 351
—— Victrix Julia Nova Carthago (Cartagena), V, b 123
Coloniæ (Rome), XX, a *b* 764, b 775
Colonial agriculture, Portuguese (Brazil), IV, b 208; bishoprics (Bishop), III, a b 685; (Copyright,) VI, b 321-2; departments (Post-Office), XIX, b 580, a 582, b 594-5
—— government (Jamaica), XIII, b 560-1; (Natal), XVII, a 248; theories of (United States), XXIII, a 784-5, a b 786; governors (Veto), XXIV, a 224, a 225
—— law, British (Statute), XXII, a 488; monopoly (Canada), IV, b 686, b 687
—— office, British (Taylor), XXIII, a b 99
—— policy, English (Federal Government), IX, a 56; (Shipping), XXI, b 866-7; (Slavery), XXII, a 908; (United States), XXIII, b 780-1, a 784-5
—— Precedence, XIX, a 687
—— secretary (Ministry), XVI, b 495, a 496
Colonies (Admiralty Courts), I, b 145-6, a 147; (Denmark), VII, b 73; (France), IX, b 464-5; (Maine), XV, a b 303; (Nonconformity), XVII, a 547; (Paraguay), XVIII, a b 249; (Phœnicia), b 818-20; (Rio Grande), XX, *a* 579; (Spain), XXII, a 313, a 318, b 341; (Uruguay), XXIV, a 20; Sabæan (Yemen), b 776; (Zinzendorf), a 828
—— of Alexander the Great (Persia), XVIII, a 594
—— American, oppression of (America), I, a 621-2, b 624, a b 627; (American Literature), a b 632; (Maine), XV, b 303; (Prison Discipline), XIX, a b 767; (England), VIII, b 319-21; (Franklin, B.), IX, b 627, a b 628-30; (Shirley), XXI, a 923; (United States), XXIII, b 780-1, a 784-5; union of, first (Winthrop), XXIV, a 904
——, British, VI, b 144; (Government), XI, a b 19; (International Law), XIII, b 202; (Libraries), XIV, b 533-4; (Press Laws), XIX, b 731; (Prison Discipline), a 777; (Savings Banks), XXI, b 245; (Scotland), a 533; (Treason), XXIII, a 563
——, Danish, VI, a 145; (Denmark), VII, b 73; (Greenland), XI, b 151-2, a 153
——, doctrine of fossil (Geology), X, a b 286, a 288
——, French, VI, a 143, b 144
——, Greek, VI, a b 142; (Epirus), VIII, a 429; (Greece), XI, b 85-6; (Oracle), XVII, b 832; (Macedonian Empire), XV, a 142, b 143, *a* b 144; (Pericles), XVIII, a 542; (Prytanis), XX, a 33; of Alexander (Persia), XVIII, b 594, a 598
——, Jewish (Israel), XIII, b 439
——, jurisdiction in (Habeas Corpus), XI, a 321
——, pauper (Poor Laws), XIX, a 496
——, Roman, VI, a 143; (Sabines), XXI, a 137; military (Sulla), XXII, b 666
——, Russian (Samara), XXI, *b* 255; (Russia), b 73, a *b* 74, *b* 86, a 90; (Siberia), XXII, b 15
Colonization (Brazil), IV, a b 211; methods of (South Australia), XXII, a b 300; schemes for (Mexico), XVI, a 902
—— Society, American (Garrison), X, a 78
Colonna, Cape (Falconer, W.), IX, a 6; (Samos), XXI, b 262
——, house of (Eugenius IV.), VIII, a 582; (Rome), XX, b 813, a 814, b 815, a 817, a 818, *b* 821, *a* b 822, *a* b 823, a 824
——, Giacomo, bishop (Petrarch), XVIII, a b 720, a 721, b 724
Colonna, Giovanni Paolo, composer, VI, b 141-2
——, Jacopo, canon (Rome), XX, a 817. a b 821
——, Marc Antonio, admiral (Cervantes), V, b 302, a b 303, a 305
——, Otto di. See pope Martin V.
——, Niccolo, insurgent (Rome), XX, b 815, a 816
——, Sciarra, captain (Rome), XX, b 815, a b 816
Colonna, Vittoria, poetess, VI, a 142; (Michel Angelo), XVI, a b 243
Colonnades, streets of (Palmyra), XVIII, a 204
Colony, settlement, VI, a 142-5
  ancient period, a b 142
  British dependencies, b 143-4
  constitutional development, a b 143
  list of European colonies, b 144-5
  modern period, b 142-3. See Colonies

Colophon, city, VI, a 145; (Numismatics), XVII, b 663, b 677; (Smyrna), XXII, b 195
—— in printing, VI, a 145; (Typography), XXIII, a b 731, b 733, a 734, a b 736
Colophonite (Garnet), X, a 74; (Mineralogy), XVI, a 429
Colophonius, poet (Nicander), XVII, a 490
Colophony, gum (Rosin), XX, b 875-6
Coloquintida. See Colocynth
Color (Acoustic), I, b 100, b 110; (Fine Arts), IX, b 179, a 180; (Fresco), *b* 677, a b 678, *a b* 680, *a* 681; (Light), XIV, a 605-7, b 608, b 613-14; (Metals), XVI, a 69, b 73; (Mineralogy), b 387; (Music), XVII, a b 109; (Negro), a 326 note; (Pyrotechny), XX, b 141; (Taboo), XXIII, a 21
—— in Algæ (Vegetable Kingdom), XXIV, b 136
——, ancient ideas of (Light), XIV, b 581-2
—— of animals (Ape), II, a 138; (Iguana), XII, b 739-40; (Ichthyology), b 701, b 702-3; (Mimicry), XVI, a 354-a 357; eggs (Birds), III, b 670; seasonal change (Plover), XIX, b 239, note
—— blindness (Dalton), VI, a b 691; (Eye) (Ill.), VIII, b 721-2; (Hystero-Epilepsy), XII, a 636; (Light), XIV, *b* 522-3; (Lighthouse), b 634; (Magnetism, Animal), XV, a 285; (Méryon), XVI, b 49
—— in architecture, II, a 335, a 398-400; (Bricks), IV, b 249-50; (Terra-Cotta), XXIII, a *b* 210, note, a 211; Assyrian (Architecture), II, a 350; Greek (Architecture), b 358; (Mural Decoration), XVII, a 47; mediæval churches (Mural Decoration), 49, b 50; Roman decoration (Glass), X a b 578
—— in cell wall (Histology), XII, b 13-4
—— correction (Telescope), XXIII, 153-5, a 157
——, experiments on (Talbot, W. H. F.), XXIII, a 32
——, garden arrangement of (Horticulture), XII, b 256
—— in Japanese Art, XIII, a *b* 600
——, melody in (Castel), V, a 168
—— of meteor trains, XVI, b 117
——, organ of (Phrenology), XVIII, a 860
—— pans (Calico-Printing) (Ill.), IV, a *b* 608
—— perception, binocular (Eye), VIII, b 723-4
—— Photography, XVIII, b 847-8
——, pleasure from (Psychology), XX, a 74
—— printing (Lithography), XIV, a 706; (Photography), XVIII, a 835; (Typography), XXIII, a b 755
——, racial (America), I, b 603; (Anthropology), II, b 98; (Indians), XII, a b 864; in India (Caste), V, a 165, note
—— of rocks (Geology), X, b 204-5
—— in sculpture (Ægina), I, a 164; (Archæology), II, b 305, *a* 306, *a* 308, b 311, b 315; (Architecture), b 362, a 398; (Babylonia), III, a b 164, a 165; (Gibson), X, a 525; (Sculpture), XXI, b 585, note, b 587, a 594; (Terra-Cotta), XXIII, *b* 207, a 208, a 209; (Wood-Carving), XXIV, a b 681, *b* 682, a 683
——, sense of (Eye), VIII, a 720-4; (Light), XIV, b 582-3; (Psychology), XX, *a* 56, b 63
—— of stars (Astronomy), II, a 716; (Sun), XXII, b 684-5
—— of steel in tempering (Iron), XIII, a 363
—— tests (Oils), XVII, a 766
——, theory of (Goethe), X, a b 651, b 653-4; (Newton), XVII, b 451-2; (Schopenhauer), XXI, a b 471
Colorado River, VI, a 147; (Mexico), XVI, b 904; (Pacific Ocean), XVIII, a b 120, note; (Utah), XXIV, b 24; gorges of (Arizona), II, b 472; (Geology), X, b 245; Powell's survey of (Surveys), XXII, b 937. See Cañons
—— river in Texas, XXIII, b 220, a 223
Colorado, State (Map), VI, a 145-7; (Mining), XVI, a b 492; (United States), XXIII, b 830, a 833, *b* 853, a 855, a *b* 856, a 857, a 859, b 861, *a* 862, b 864, a 865 note, a *b* 868, b 870, a 873; (Universities), a 913, a b 953; topography (United States), a b 846; gems of (Topaz), a 475; mines (Gold), X, a 662, a 666; (Lead), XIV, a 375
—— plateau (United States), XXIII, a 849-50
—— City (Texas), XXIII, b 221
—— Springs, town (United States), XXIII, b 856
Coloradoite (Mineralogy), XVI, a 410
Colored Glass, X, b 583, a b 584, a b 594, a 596-601; lights (Lighthouse), XIV, b 634
—— Methodist Episcopal Church, XVI, a 200
Coloring hides (Leather), XIV, b 384
—— matter of plants (Physiology), XIX, b 59
Colors in art (Jewellery), XIII, b 689; (Palissy), XVIII, a 191; (Titian), XXIII, a b 443; (Turner), b 708, a 709, a 710. See Color in Architecture and Color in Sculpture
——, compound (Optics), XVII, a b 825
——, crystalline planes (Wave Theory), XXIV, b 475-6
—— in Heraldry (Ill.), XI, b 615, a 616
—— in industrial art (Aniline), II, a b 44; (Tar), XXIII, b 64, a 65. See Aniline; (Building), IV, a b 457; (Calico-Printing), IV, a b 608-14; (Dyeing), VII, a b 494, b 495-501; (Painting), XVIII, b 142-3; (Paper), b 224; (Photography), b 847; (Pigment), XIX, b 94-7
——, mixtures (Light), XIV, a b 605
——, rapture for (Tarantula), XXIII, a 66
—— of religions (Thousand and One Nights), XXIII, a 338
—— of thin plates (Wave Theory), XXIV, a 448-50
Colossæ, city, VI, a b 147
Colosseum of Rome (Amphitheatre), I, a b 680; (Architecture) (Plate XVI), II, a 364, b 366, a 367; (Rome) (Ill.), XX, *b* 827, *a* 850; (Titus), XXIII, a 448; inauguration of (Games), X, a 60

Colossi, statues (Egypt), VII, a 676; of Rameses II. (Egypt), b 870, b 675

COLOSSIANS, *Epistle to the*, VI, b 147–9; (Ephesians), VIII, b 411–2; (Philemon), XVIII, b 755

Colossochelys, genus (Reptiles), XX, b 479

COLOSSUS of Rhodes, VI, a 149; (Amasis), I, b 574; (Archæology), II, b 319; (Bronze), IV, b 331; (Rhodes), XX, a 541

Colot, Lawrence, physician (Surgery), XXII, b 710

Colquhoun, Patrick, economist (Police), XIX, a 351

COLSTON, Edward, benefactor, VI, a b 149; (Bristol), IV, a b 316, *b* 317; Charity Hospital of (Chatterton), V, b 385, a b 386

COLT, Samuel, inventor, VI, b 149

—— Firearms Company (Hartford), XI, a 444

Colta, lake (Ecuador), VII, b 560

Colt's revolver (Gunmaking) XI, a 253; (Patents), XVIII, a 880

Coltsfoot, sweet scented (Heliotrope), XI, a 566

Colubridæ, family (Snakes), XXII, a b 201, a 203, b 204, b 206–9

Colubriformes, order (Snakes), XXII, b 202–4

COLUMBA or Columcille, ST., VI, b 149–50; (Celtic Literature), V, *a* 263, b 267, b 271, b 275, a 284; (Druidism), VII, a 413; (Iona), XIII, b 209–10; (Ireland), a 255, a b 256; (Missions), XVI, a 535; (Scotland), XXI, *b* 496–7, b 499, a b 500

——, *Life of* (Adamnan), I, b 129; (Ireland), XIII, b 256

——, rule of (Monachism), XVI, b 729, a 733

Columbæ, family (Dove), VII, a 328–9; (Ornithology), XVIII, a 50; (Pigeon), XIX, b 93

COLUMBANUS, monk, VI, b 150; (Monachism), XVI, a 733

Columbara, island (Trapani), XXIII, a 556

COLUMBIA, capital of S. C., VI, b 150; (South Carolina), XXII, b 301, b 302

Columbia or New Granada. See COLOMBIA

COLUMBIA, BRITISH, province, VI, b 151–3; meteorology of (Canada), IV, 680–1; trade of (Canada), 689

Columbia, District of. See DISTRICT OF COLUMBIA

——College (Libraries), XIV, b 553; (New York), XVII, a b 468, b 473, a 474, b 896–7; (Universities), XXIII, a b 956, b 960, *a* 961, b 962; (Women), XXIV, b 911

—— market (London), XIV, a b 838

—— River (Montana), XVI, a 799; (Oregon), XVII, a b 846, *a b* 847, b 848, a 849; (Pacific Ocean), XVIII, b 120, note; (Washington), XXIV, *a* b 406, a 407, *a b* 408; basin of (United States), XXIII, b 848–9, a 855; ores (Gold), X, *b* 661

Columbian Order (Tammany), XXIII, *a* 920

—— press (Typography), XXIII, a 751

—— races (Indians), XII, a b 866

Columbia Writing Machine, XXIV, a 734

Columbidæ, family (Birds), III, a 641, *a* 642, a 643, a b 655, b 660

Columbine, character (Pantomime), XVIII, b 220

—— or aquilegia, plant (Botany) (Ill.), IV, a 117, b 119, a 120, a 138; (Horticulture), XII, a 257; (India), b 778

Columbite (Mineralogy) (Ill.), XVI, a 392, b 445–a 446

Columbkille. See COLUMBA, ST.

COLUMBUS, city, Georgia, VI, b 153; (Georgia), X, a 391, *a b* 392, a b 393, b 394

COLUMBUS, city, Ohio, VI, a b 153; (Ohio), XVII, b 757, b 758, *a* 759

Columbus. See Colombo

COLUMBUS, Christopher, discoverer, VI, b 153–8
  closing years, b 157
  early history, b 153–4
  first voyage, b 154–5
  fourth voyage, a b 157
  literature, a 158
  personal features, a 158
  search for patrons, a b 154
  second voyage, b 155–6
  third voyage, a 156–7

—— (America), I, b 620, a 621; (Bacon, Roger), III, b 190; (Bahamas) a 204; (China), V, a 547; (Geography), X, b 161, a b 162; (Honduras), XII, a 136; (Isabella, the Catholic), XIII, b 385; (Jamaica), a 560; (Pacific Ocean), XVIII, a b 118; (Pavia), a 450; (Pinzon), XIX, *b* 118; (Polo), b 422, a 423; (Ptolemy), XX, a 99; (Salamanca), XXI, a 214 note; (Slavery), XXII, a 146; (Spain), *b* 341; (Tobacco), XXIII, a 451; (Trinidad), a 611; (West Indies), XXIV, a b 537

Columbus, History of the Life and Voyages of (Irving, W.), XIII, b 383

——, Diego. See Colombo

——, Johan, poet (Sweden), XXII, a 793

——, Matthieu Realdus (Anatomy), I, b 709, b 710; (Harvey), XI, a b 450, note; (Phrenology), XVIII, a 858; (Vascular System), XXIV, b 103–4

——, Samuel, poet (Sweden), XXII, a 793

Columcille. See COLUMBA, ST.

Columella, axial rod (Botany) (Ill.), IV, b 135; (Corals), VI, b 330, b 332, a b 339; (Muscineæ) (Ill.), XVII, *a* 76, a 79, a b 80, a 81

—— auris, bone (Amphibia), I, b 661–2, a 663, a 674, a 675; (Ear), VII, b 511; (Reptiles), XX, b 462, a b 463

COLUMELLA, Lucius Junius, farmer, VI, a b 158; (Guinea Fowl), XI, b 234, note; (Political Economy), XIX, *b* 363, a 364; (Slavery), XXII, *a* 141; (Veterinary Science), XXIV, b 213

Column of Antoninus (Aurelius), III, a 77; (Rome), XX, b 851–2; of Marcus Aurelius (Rome), a 852; of Trajan (Apollodorus), II, b 163. See Columns, monumental

——, burnt (Constantinople), VI, b 271, a 272, a 275

——, jointing of (Building) (Ill.), IV, a 438. See Columns

—— at Susa (Architecture), II, a 351

Columna, Fabio, naturalist (Brachiopoda), IV, a 176

——, rostrata (Latin Language), XIV, b 329; (Rome), XX, a 835, note

Columnæ carneæ (Anatomy), I, a 791

Columnar arrangement of Greek temples (Architecture), II, b 359

—— joints (Geology), X, b 263, a 264

—— rocks (Geology), X, a b 222, b 230, a 278

Columns or struts (Strength of Materials), XXII, a 638–9

—— of Artillery, II, a 584

——, architectural (Babylonia), III, b 164; Assyrian (Architecture), II, *a* 349; Corinthian (Architecture) (Plate XII), b 356, a 357, b 360, b 364; Doric (Architecture) (Plates VIII, IX), II, b 353–4, a 355; Egyptian (Architecture) (Plate VII), b 341, b 342–3; engaged, in architecture (Rome), XX, a 827 note; Greek wooden (Architecture), II, a 353; Ionic (Architecture), II, *b* 355, a b 356, b 358, b 360; Modern Italian (Architecture) (Plate XXIV), *b* 384; Persian (Architecture) (Ill.), *a* 351; Roman (Architecture), b 365, *sq.*; stone (Building), IV, b 423; Venetian, XXIV, b 163–4, *a* b 166. See Column

—— of Goll (Physiology), XIX, a 46

——, monumental (Rome), XX, b 851–2

Colvill on the Plague, XIX, a b 170, a 171, a 172, b 177, b 178

Colville district (Washington), XXIV, b 406, b 407

Colymbidæ, family (Birds), III, a 632, a 633, b 652

Colymbus, genus (Birds), III, b 622, b 623, b 629, a 633; (Diver), VII, a 254; (Loon), XV, a b 4

COLZA OIL, VI, b 158; (Lamp), XIV, a 245; (Oil), XVII, a 765; (Paraffin), XVIII, b 243, a 244, a 247; (Rape Oil), XX, *b* 285, a 286

Coma, state (Sleep), XXII, a 165; vigil (Typhus Fever), XXIII, b 719, a 722

COMACCHIO, town, VI, b 158

COMANA or Comana Chryse, city, VI, b 158; (Pontus), XIX, a 474

—— in Cappadocia, VI, b 158; (Cappadocia), V, a 68; (Iphigenia), XIII, b 217

COMANCHES, tribe, VI, a 159; tribes (Indians), XII, b 866

Comans or Cumani, people (Turks), XXIII, *a* 702

Comarba, ecclesiastical chief (Ireland), XIII, a 254

Comarocystites (Echinodermata), VII, a 553

Comatricha (Protozoa), XIX, a 863

Comatula (Echinodermata) (Ill.), VII, a b 550, b 551, *a b* 552, a b 555

Comayagua, department (Honduras), XII, *a* 135

COMAYAGUA, city, VI, a 159; plain of (Honduras), XII, *b* 133, a 135

COMB, VI, a 159–60; works (Aberdeen), I, a 45

——, mechanism (Micrometer), XVI, b 254

Comb of bee. See Combs

COMBACONUM, town, VI, a 160; (Tanjore), XXIII, a 52

Combat. See Battle, Ordeal of

Combatants (International Law), XIII, a 200, a 201

Combativeness, organ of (Phrenology), XVIII, a 859

COMBE, Andrew, physician, VI, a b 160

——, Francis de la, mystic (Guyon), XI, b 305, a b 306

COMBE, George, phrenologist, VI, b 160–1; (Phrenology), XVIII, a b 858, a 862, b 863

COMBE, William, essayist, VI, b 161–2

COMBERMERE, Stapleton Cotton, viscount, general, VI, a b 162; (Bhartpur), III, b 543

Combe's heckling machine (Linen Manufacture) (Ill.), XIV, b 671

Combination (Algebra), I, a 494

—— laws (Trade Unions), XXIII, a b 531

—— locks, XIV, b 752

—— tones (Music), XVII, b 112–13

Combinations, aggregate (Mechanics), XV, a 772–4; elementary (Mechanics), b 763–71; classification of (Mechanics), a 764

COMBINATIONS, workingmen's, VI, b 162. See TRADE UNIONS, WORKINGMEN

Combing Wool, XXIV, b 694–5

Combo, British (Gambia), X, b 54

Combs or cummings (Brewing), IV, b 240

——, construction of (Bee), III, b 422, b 423–4; forms of (Bee), b 422–3

Combustion (Chemistry) (Ill.), V, b 416, a 472; (Gunpowder), XI, b 286, a b 287, a b 288; (Lamp), XIV, *b* 245–7; (Smoke Abatement), XXII, a b 190; (Tobacco), XXIII, b 452–3

Combustion, animal (Nutrition), XVII, a b 686; of gases, Clerk's experiments (Steam-Engine), XXII, b 552–3; heat of coals (Iron), XIII, a b 299
—— tube (Chemistry) (Ill.), V, a *b* 472, a 473
Comédie Française (Drama), VII, a 369
Comédie Humaine (Balzac), III, b 262, *a* 263
—— *de la Mort* (Gautier), X, b 105
"Comedies of Cloak and Sword" (Calderon de la Barca), IV, a 586
Comedones, malady (Skin Diseases), XXII, a 129
Comedy (Drama), VII, a b 342
——, American (Tyler), XXIII, a 950
——, Danish (Holberg), XII, a 59
——, English (Beaumont and Fletcher), III, b 407–9; (Cumberland), VI, b 621–2; (Drama), VII, *a* b 370, a b 371, a b 372, a b 374, a 375, b 376–7, a 378–9; (Dryden), a b 422, a b 423, (Foote), IX, a 322–4; (Gay) X, *b* 107, a 108; (Jonson), XIII, a b 752, a b 753, a b 755; (Matthews), XV, b 638–9; (Robertson), XX, a b 614; (Shakespeare), XXI, a *b* 798, a b 799, a b 800; (Udall), XXIII, b 763; (Vanbrugh), XXIV, b 62, a 63; (Webster), b 500
——, French (Corneille), VI, b 372; (Drama), VII, a b 366, a 367, a 368–9; (Fabre d'Eglantine), VIII, b 735; (France), IX, b 567–8, b 573, a b 579, b 585, a 591, b 594; (Regnard), XX, a b 359
——, Greek (Aristophanes), II, b 446–8; (Crates of Athens), VI, b 490; (Cratinus), a 491; (Drama), VII, a 341, a 349, a 350, a 352–3, a 354; (Eupolis), VIII, a 590; (Greece), XI, b 123, a b 125, a 126; (Philemon), XVIII, a b 755; (Phrynichus), b 868; New Attic (Menander), XVI, *a b*, 6; (Philemon), XVIII, a b 755
——, Italian (Ariosto), II, a 443; (Atella), b 724; (Drama), VII, a 360, a 361–2; (Goldoni), X, b 676; (Italy), XIII, a 520, a 523; (Pantomime), XVIII, a 219
——, Latin (Drama), VII, a 341, a b 354, b 355–6; (Nævius), XVII, a b 169; (Plautus), XIX, b 226–8; (Roman Literature), XX, a *b* 736, b 737–8; (Terence), XXIII, a 203–5
——, Scotch, old (Scotland), XXI, a 568
——, Sicilian (Sophron), XXII, b 287–8
——, Spanish (Calderon), IV, a 586; (Drama), VII, b 363, a b 364, a b 365; (Peru), XVIII, a 689; (Vega Carpio), XXIV, b 134–5
Comedy of Errors, play (Plautus), XIX, a 228; (Shakespeare), XXI, a b 799, a 800, a 805
Comenin, de (Pamphlet), XVIII, a 210
COMENIUS or Komensky, Johann Amos, theologian, VI, b 162–3; (Astrology), II, b 647; (Education), VII, b 584, a 589; (Hartlib), XI, a 446; (Hungary), XII, b 389; (Slavs), XXII, b 161
Come out of Her, My People (Lilburne), XIV, a b 647 note
Comentarios Reales (Garcilaso Inca de la Vega), X, b 67
Comephorus genus (Ichthyology), XII, b 707, a 714
COMET, VI, a 163–73
  Barker's table, a b 170
  Borelly's comet, a 165–8
  correcting approximate elements, b 169–70
  great comet of Coggia, b 168–9
  group A, a 171–3
  group B, a b 173
  Lambert's theorem, a 164
  method of calculating orbit, b 163 *sq.*
  Olbers's theorem, a 165–8

—— (Calpurnius), IV, a 631; (Meteors), XVI, b 115–6, b 118; (Mongols), b 769; Coggia's (Astronomy) (Ill.), II, a 714; VI, a 165–8; Encke's (Astronomy), II, b 712; Halley's (Astronomy), b 663, a 712; Lexell's (Astronomy), b 712; name of (Berenice), III, b 506
"Comet," steamboat (Bell, Henry), III, a 468; (Shipbuilding), XXI, *a* 862; (Steam-Engine), XXII, a 496, a 543
Cometary orbits (Halley), XI, *a* 355; (Lagrange), XIV, a 211; (Olbers), XVII, a b 774
Comet-claret (Famines), IX, a 24
—— -seeker, Brashear's (Telescopic Work), XXIII, b 933
Comets (Astronomy) (Ill.), II, a 712–4; (Cassini, G. D.), V, a 161; (Donati), VII, a 311; (Famines), IX, b 23; (Galileo), X, b 30, a 32; (Herschel, C. L.), XI, b 683; (Leverrier), XIV, b 486; (Light), a 583; (Nebular Theory), XVII, b 319; nucleus of (Astronomy), II, b 712; list of (Astronomy), a 713; spectra of (Astronomy), a 713, a 714; (Sun), XXII, b 685
Come Where My Love Lies Dreaming (Foster), IX, b 419
Comfits, hard confections (Confectionery), VI, a b 228
Comfrey or symphytum, plant (Botany) (Ill.), IV, a 120, a 137
Comgall, Saint (Ireland), XIII, a 255
Comic Annual (Hood), XII, a 149
—— *History of Rome* (Leech), XIV, a 406
—— opera (Music), XVII, a 100, b 101, b 106
—— papers (American Journalism), XVII, a b 889
—— poetry, mediæval (Italy), XIII, a 516
Comillah, river (Tipperah), XXIII, a 432
COMINES, town, VI, b 173
COMINES, Philippe de, historian, VI, b 173–4; (Charles the Bold), V, a b 368; (Chateau-Gontier), a 380; (France), IX, a 571; (History), XII, a 23; (Renaissance), XX, a 403
Coming Race (Lytton), XV, b 124, a 125
Comino, island (Malta), XV, a 342
Cominotto island (Malta), XV, a 342
COMITAN or Comitlan, town, VI, a 174
Comitatus (Royal Household), XXI, b 41
Comites, nobles (Count, Countess), VI, a 455; commanders (Rome), XX, *a* 796; Gothic (Rome), a 800
COMITIA, assembly, VI, a 174–5; (Rome), XX, a 774–5, a b 776, a 779, b 780, *a* 786; abolition of (Tiberius), XXIII, a 358
—— centuriata (Consul), VI, b 279–80; (Curia), b 627; (Rome), XX, a b 696, b 753 note, b 754, a 755, a b 756, b 757
—— curiata (Curia), VI, b 627; (Rome), XX, a 752, b 754, a 755
—— tributa (Roman Law), XX, a b 696–7, b 715; (Rome), a b 756, a 757; imperial (Roman Law), b 722, a 723, a b 789
Comitium, place (Rome), (Plate VII) (Ill.), XX, a *b* 834, note, a 835
Comitlan, town. See COMITAN
Commachio, breeding establishment (Eels), VII, b 601
Commagene, kingdom (Syria), XXII, a 862; (Numismatics), XVII, b 666
Command, altitude (Fortification), IX, b 372
——, defined (Law), XIV, a 356, b 357
Commander, officer (Navy), XVII, b 301, a *b* 303
Commander Islands (Seal), XXI, a b 610; (Siberia), XXII, b 10
Commanderies (Saint John of Jerusalem), XXI, a 183
Commander-in-chief, British (Army), II, b 501, a 502; (Ministry) XVI, a b 496
Commandine, Frederic, mathematician (Archimedes), II, b 333; (Euclid), VIII, *a* b 577
Commandments, Seven (Druses), VII, b 418
——, Ten. See DECALOGUE
Commedia dell'arte (Drama), VII, b 361, a 362
—— *in Prosa* (Machiavelli), XV, b 152
Commelinus, Hieronymus, printer (Sylburg), XXII, b 848
Commemoration, rite (Saint) XXI, b 163
Commendam, system (Trappists), XXIII, a 556
Commendation (Abbot), I, b 29
Commensalism (Annelida), II, b 60, a 62; (Bee), III, a 422; (Parasitism), XVIII, a b 264–5
Commentaires (Montluc), XVI, a 817
Commentaries (Augustine), III, b 68; (Cæsar), IV, b 563, b 567; (Jerome), XIII, a 642; (Maimonides), XV, b 298; (Philo), XVIII, a 776–7
—— on Aristotle (Averroes), III, a 132
——, Blackstone's, III, a b 696; (Law), XIV, a b 362, note, a 363
—— of Dionysius of Amid (Syriac Literature), XXII, b 895
Commentaries, New Testament (Chrysostom), V, b 661; (Goodsir), X, b 690–1; (Valentinus), XXIV, a b 44
——, *Old Testament* (Abenezra), I, b 39; mediæval (Guibert of Nogent), XI, b 226
—— *of his own Times* (Pius II.), XIX, b 163
Commentators of Aristotle, II, b 459; of Koran (Mohammedanism), XVI, a 628
Commentry coal mines (Montluçon), XVI, b 817
Commeragh mountains (Waterford), XXIV, a 422
COMMERCE, VI, b 175–85
  British free trade, b 183–4
  colonies, influence of modern, b 180–1
  communications, modern, b 184
  conclusions, a b 185
  defects of ancient, b 177–8
  expansion of, recent, a 182–3
  foreign loans, b 184–5
  function of, b 175–6
  gold discoveries, a b 184
  mediæval, a 179–80
  oceanic routes opened, a b 180
  Oriental, primitive, a 176–7
  Roman, conquest of trade centres, a b 178
  tariffs, b 181–2
  Venice, b 178–9

—— (Algeria), I, a 498; (Arabia), II, b 213–4; (Babylonia), III, b 166; (Baghdad), b 201; (Bokhara), IV, a 4; (Canada), a b 677, a 686–7, b 688–9; (Condillac), VI, b 224; (Denmark), VII, b 71–2; (Dublin), b 432–3; (England), VIII, b 211–3, a 297, a 307; (Ethnography), a 543; table (Europe), b 620–1; (Glasgow) X, a b 570, a b 571, b 576; (Hamburg), XI, b 363–4, a 365; (Hobart Town), XII, b 32; (Holland), b 70–1, a 76, a 83; (Hong Kong), a 146; (Incense), b 757; (India), a 795–9; (Ireland), XIII, b 257; (Ispahan), a 405; (Jesuits), b 662, *a b* 665; (Lisbon), XIV, b 698; (Liverpool), b 721; (London), b 838–41; (Lübec), XV, *b* 33, *a* b 34; (Madagascar), a b 173, note; (Massachusetts), a b 619; (Mohammedanism), XVI, a–b 619; (Polynesia), XIX, a 442; (Pro-

Commerce, *continued*
tection), a 935; (Ragusa), XX, a b 228; (Rhine), b 534–5; (Russia), XXI, a b 95; (Scotland), b 558-9; (Shipping), b 864–7; (Southampton), XXII, b 296–7; (Switzerland), b 818; (United States), XXIII, a 880–1; (Uruguay), XXIV, b 20
——, ancient (Macedonian Empire), XV, b 143; Byzantine (Greece), XI, b 104, a 105, b 106, a 107
——, Chinese, history (Canton), V, a b 35, b 547–8
—— Colbert, VI, a b 111; (France), IX, b 506; colonial (United States), XXIII, b 780–1, *a* 785, b 787
——, encouragement of (Lotteries), XV, b 12
Commerce et le Gouvernement (Condillac), VI, b 224
Commerce, infection through (Plague), XIX, b 172–3, b 175, *b* 176; international (Political Economy), a 392, b 394–5; interstate (Liquor Laws), XIV, a 695, note; Jefferson's policy (United States), XXIII, b 806–7
——, Phœnician (Greece), XI, a b 82; and religion (Mecca), XV, a 677; restrictions on (Ireland), XIII, *a* b 275; Ricardo on (Political Economy), XIX, a 389; rise of (Roman Law), XX, b 713, a 714, b 718; Spanish, decline of, XXII, b 316; tribunals of (France), IX, a 451; Turkish treaty of, 1838 (Dalling), VI, a 689; Venetian, decay of (Geography), X, b 162; rise of Oriental (Venice), XXIV, a 155; in war (International Law), XIII, b 200, b 202
"Commercen" case (Contraband), VI, b 285, note
Commercial buildings (Architecture), II, *b* 396–7; (New York), XVII, a b 897; (Philadelphia), XVIII, b 751
—— communities (Greece), XI, b 110
—— companies, French (Guiana), XI, *a* 226
—— Department, Board of Trade, XXIII, b 529
—— Law, XIV, b 367; (Sunday), XXII, a 690–1; laws, Spanish (Buenos Ayres), IV, a b 395
—— paper (Notary), XVII, b 611; increase of (Banking), III, b 280, a 281
—— powers of Congress (United States), XXIII, *a* 798
—— routes (Meteorology), XVI, b 151
—— statistics (M'Culloch), XV, a 136
Commerçon, Philibert, botanist (Bougainville), IV, b 154, a 155
COMMERCY, town, VI, b 185
Commesso work (Beccafumi), III, b 411
Commewijne, river (Guiana), XI, b 223
Commidendrons, plants (St. Helena), XXI, *b* 179
Commination, ritual of Penance), XVIII, b 498
Comminution (Metallurgy), XVI, b 63
Commissaires de Police, XIX, b 355
Commissaries, mediæval (Army), II, b 494
Commissars (Claque), V, b 700
Commission (Arithmetic), II, b 470
—— for Correction of Oriental Books (Roman Catholic Church), XX, b 645
—— of the Peace (Justice of the Peace), XIII, a 799
Commissioner of Works, first (Ministry), XVI, b 496
Commissioners of Insurance, U. S., XIII, a b 189; of Longitude (Navigation), XVII, b 264–5, a 266, a 267, b 268; Lords (Admiral), I, *b* 143, a 147; of prisons (Prison Discipline), XIX, b 773, b 774, b 776
Commissions (Brokers), IV, a 325
—— (Prerogative), XIX, b 692
—— in British Army, II, a 504, b 505–6
Commissural fibres of cerebrum (Physiology), XIX, a b 46
Commissures, nerve (Mollusca), XVI, b 659
Committee on Christian Life and Work (Scotland), XXI, a 565
—— of Public Safety (France), IX, a 533; (Robespierre), XX, a 619–20; (Saint-Just), XXI, b 185
—— of the whole (Parliament), XVIII, a b 318
Committees of Correspondence (United States), XXIII, a 787
——, grand and standing (Parliament), XVIII, a b 318; select (Parliament), a 318
Commius, Celtic chief (Sussex), XXII, a 763
Commodities, taxes on (Taxation), XXIII, b 95
Commodore, officer (Navy), XVII, a 301
COMMODUS, Lucius Aurelius Antoninus, emperor, VI, b 185; (Anubis), II, a 129; (Aurelius), III, a 76. *a* b 77; (Severus), XXI, a 733
Common, The (Boston, U.S), IV, a 67. See COMMONS
—— Andrew Ainslie (Observatory), XVII, a 731; (Telescope), XXIII, a 159
Common Council (Borough), IV, a 56; (Company), VI, b 199; (London), XIV, *a* 828
—— divisor (Algebra), I, b 467–8
—— lands (Northumberland), XVII, a 581; (Stafford), XXII, b 460; (Sussex), b 762; (Unterwalden), XXIII, b 915–6; enclosure of (Shakespeare), XXI, a 780. See COMMONS
COMMON LAW, VI, a 186; (Commons), b 187; on Copyright, a 316, a 317, b 323–4; (Protection), XIX, a 927, b 928, a 930, a 931; (Costs), VI, b 399–400; (Damages), b 693; (Distress), VII, b 231–2; (Ecclesiastical Law), a 543; (Habeas Corpus), XI, b 320; (Hotch-Pot), XII, a 322; (Husband and Wife), b 416–17; (Interest), XIII, b 194-5; (Law), XIV, a b 358; (Lien), a b 573; (Littleton), b 709–11; (Mortgage), XVI, a 875; (Pleading), XIX, a b 229–31; (Prescription), b 724; (Real Estate), XX, b 318; (Remainder), b 384, a 385; (Statute), XXII, b 486–7; (Tort), XXIII, b 482, a 483; (Trade Unions), a *b* 531; (Treason), b 559, a b 561, a 562; (Treasure-Trove), b 563; (Women), XXIV, b 674, a 675, notes, *b* 908, a 910
Common Law Courts (Action), I, b 122–3; (Courts), VI, b 458–9; Procedure Act (Arbitration), II, a b 274; (Writ), XXIV, a 730, b 731
——, United States (Pleading), XIX, b 231. See Law, Common
Common Place Book (Berkeley), III, *a* b 509
COMMON PLEAS, court of, VI, a b 186; (Court), b 458, a b 459; (Records), XX, b 324–5
Common Prayer, Book of (Copyright), VI, a 321; (Cranmer), a 488; (Vestments), XXIV, b 211. See *Book of Common Prayer*
Common rights (Government), XI, a 12, note
Common Sense (Paine), XVIII, a 141; (United States), XXIII, b 790
Common Sense philosophy (Beattie), III, a 403; (Buffier), IV, b 397; (Cousin), VI, a 466; (Hamilton), XI, a b 373, b 374, a 375; (Reid), XX, *a* 364
Commoner, English caste (Heraldry), XI, b 632; (Nobility), XVII, a 540, b 543
Common Lot. See Brethren of the Common Life
Common's mounting (Telescope) (Ill.), XXIII, b 166–7
Commons or Plebeians, Tribunes of, XXIII, b 591
——, House of. See House of Commons
——, mediæval (Ireland), XIII, b 263, a 264; rise of the (Scotland), XXI, a 537
COMMONS, public lands, VI, b 186–8; (London), XIV, b 833
Commonwealth of England (Army), II, a 499; (England), VIII, a b 312; (Independents), XII, b 765–6; (Parliament), XVIII, a b 313; (Poor Laws), XIX, b 480; (Post-Office), b 579–80, note; (Presbyterianism), a 709; (Shaftesbury), XXI, a b 764; (Seals), b 614. See Protectorate
Commonwealths, ancient (Political Economy), XIX, a b 361
Commosis of Pliny (Bee), III, a 424
Communal government (Greece), XI, b 110; (Italy), XIII, b 474; (Java), a 614, b 615
COMMUNE, political unit, VI, a b 188; (France), IX, b 450–1, a 529; (Guild), XI, a 231; (Normandy), XVII, b 555; (Poland), XIX, *a* 323; (Rome), XX, a 800, a b 801–2, a b 805; use of the word (Communism), VI, a 189; (Italy), XIII, b 480, b 482
—— (Belgium), III, b 446, a b 447; (Municipality), XVII, a 35, b 36; (Prussia), XX, b 22, a b 23; (Thurgau), XXIII, b 352; (Italy), XIII, a 482–7; rising of, 1519 (Spain), XXII, a 343, b 360
—— of Paris, party (Cemetery), V, b 287; (Darboy), VI, a 724; XVIII, b 294, b 298, b 300; (Socialism), XXII, b 225-6; (Thiers), XXIII, b 324-5
Commune Sanctorum (Missal), XVI, b 533
Communication of Houses of Parliament, XVIII, b 318
—— line of (War), XXIV, b 370–1
Communications, early (United States), XXIII, a b 801, b 805
Communio (Missal), XVI, a 533
Communion, sacrament (Eucharist), VIII, b 571–2; in both kinds (Trent, Council of), XXIII, a *b* 584; close (Bunyan), IV, b 742; open (Baptists), III, b 306; tables (Altar), I, *a* 564. See EUCHARIST, Lord's Supper, SACRAMENT
Communion of the Apostles, painting (Ghent), X, a b 505
—— *of St. Jerome*, painting (Domenichino), VII, b 302, a 303
COMMUNISM, VI, b 188–95
Blanc, Louis, b 190–1
coöperation, b 194–5
credit banks, a b 191
domestic life, a b 193
education, a b 190
French commune, a 189
England, a 192
failures in, a b 195
More's *Utopia*, b 189–90
Plato's *Republic*, a b 189
political liberalism, b 191–2
population, checks on, b 192–3
prevalence of theoretical, b 188–9
self-interest, b 193–4

—— (Cabet), IV, b 549; (Campanella), a 665; (Coöperation), VI, a 301; (Cossacks), b 397; (Flourens, G.), IX, b 304; (Fourier), a 432–3; (International), XIII, a 196; (Land), XIV, b 266; (Oneida Community), XVII, b 794-5; (Russia), XXI, *a* 90, b 91-2; (Tyrol), XXIII, b 758
——, Christian (Agape), I, a 245; defined (Socialism), XXII, b 218, note, a 219; Indian, South America, I, b 612–3, a 617; industrial

Communism, *continued* (Owen, Robert), XVIII, a 91; of Plato, resisted by Aristotle, II, a 456; religious (Glas), X, a b 568; (Mennonites), XVI, *a* 16
Communist League (Socialism), XXII, a 222
Communistic sects (Apostolici), II, b 173; villages (Shakers), XXI, b 773, notes; (Servia), XXI, b 719–20, b 721
Communists, Persian (Shi'ites), XXII, a 700 note
Communities, political (Law), XIV, b 359–60; patriarchal (Agriculture), I, b 369
——, zoological (Ant), II, b 84 *sq.*, b 86, a b 87, b 88; (Wasp), XXIV, a 412–3. See Commensalism
Community arms (Heraldry) XI, a 614
—— of goods (Husband and Wife), XII, a 416, b 417; influence of the (Priest), XIX, a b 744, b 745
Commutation of Tithes, XXIII, a b 439–40
—— methods of calculation (Annuities), II, a 72–3; (Insurance), XIII, a b 178
—— of sentences (Reformatories), XX, a 903
Commutative laws (Geometry), X, b 337
Commutators, electric current (Lighting, Electric), XIV, b 637, *a* 638
Comnena, historian. See ANNA COMNENA
Comnenian age (Greece), XI, a 105–7
Comnenus, emperor. See ALEXIUS, ANDRONICUS, ISAAC JOHN, MANUEL
COMO, city, VI, b 195–6
COMO, Lake of, VI, a b 196; (Alps), I, b 550, a b 551, a 552; (Italy), XIII, a 445, b 449
Comocladia, plant (Guaco), XI, b 202
COMONFORT, Ignacio, president, VI, b 196; (Mexico), XVI, b 228, b 897, b 898
COMORES or Comoro Islands, VI, b 196–7; (Africa), I, a 237, b 243; (Slavery), XXII, *b* 152
Comoru, town. See Komorn
Comoyei Indians, XII, a 867
Compact of Stanz, 1481 (Switzerland), XXII, *a* 827
Compactata, articles of agreement, 1433 (Hussites), XII, *a* 423
Compagnacci, party (Savonarola), XXI; b 352, *a* 353
Compagni, Dino, chronicler, (Italy), XIII, a b 515; (Villani), XXIV, *b* 245
Compagnia della Morte, armed band (Falcone, A.), IX, b 5; (Rosa), XX, *b* 869
Compagnie des Indes (India), XII, a 839; (Law, J.), XIV, *a* b 368–9; (L'Orient, XV, b 6.
Compagnies d'ordonnance (Army), II, b 494; (Gendarmerie), X, a 127
Compagnon, traveller (Bambouk), III, a 265
Compagnonnage, trade combination (Free-Masonry); IX, a 658, note
Compagus, boot (Costume), VI, a 404
Companies' Act, VI, a b 198
——, theatrical (Drama), VII, b 375
Companionship, printers' (Typography), XXIII, a 757
COMPANY, VI, a 197–200
  joint stock, a 197–8
  livery, b 198–200
    history, b 198–200
    list of, a 200
    present state of, a b 200
—— (London), XIV, a b 828, b 862; (Partnership), XVIII, b 335, a 337; (Registration), XX, b 356
——, early organization of (Army), II, *a* 495
—— of Jesus. See JESUITS
COMPARATIVE ANATOMY, VI, b 200; I, b 701, a 702, a 712–3, b 717; (Cuvier), VI, a 655; (Zoology), XXIV, a 839; of nervous centres (Physiology), XIX, a 35–39
—— Geography defined, X, a 157
—— Grammar, XI, b 34–5, a 38
—— *Grammar* (Bopp), IV, b 44; *of Modern Aryan Languages* (Hindūstānī), XI, a b 750, notes, a b 751, *a* 752, a 753 note
COMPARATIVE PHILOLOGY of Aryan Languages, XVIII, a 794–803
—— religion, theory of (Schleiermacher), XXI, a 431
—— Theology, XXIII, a b 281, b 284
—— vigor theory (Sex), XXI, b 758
Comparetti, Domenico, philologist (Herculaneum), XI, *b* 648
Comparison (Psychology), XX, b 84–5; organ of (Phrenology), XVIII, a 860
——, grammatical (China), V, a 572
Compartment ships (Navy), XVII, b 298; (Shipbuilding), XXI, *b* 854–5
COMPASS, MARINER'S (Ill.), VI, b 200–3
  description (Ill.), b 200
  history, a 201
  improvements (Ill.), a 203
  variations, a 201
—— (Amalfi), I, b 573; (Arabia), II, b 232; (Commerce), VI, b 179–80; (Geography), X, b 160; (Flinders, M.), IX, a 285
——, azimuth (Meteorology) (Ill.), XVI, a 166
—— courses (Navigation), XVII, a 272; maps, XV, b 525; sine and tangent (Galvanometer), X, b 47; Thomson's (Magnetism), XV, a 254; theodolite (Surveying), XXII, b 755; triangular (Surveying), b 758
—— variation (Dialling), VII, a 136; (Geography), X, b 162, b 167; (Magnetism), XV, b 252–4; (Navigation), XVII, a b 282
——, musical (Organ), XVII, b 852, b 859; keyboard (Pianoforte), XIX, a b 75
—— Berg, mountain (Cape Colony), V, a 38
—— planes (Hand Tools), XI, b 391
Compasses, plotting (Surveying), XXII, a 758; proportional (Galileo), X, b 29
"Compassionate allowances" (British Army), II, a 505
Compendium Gaufredi (Geoffrey of Monmouth), X, b 154
Compensation (Damages), VI, b 693; clauses (Landlord and Tenant), XIV, *b* 275
—— balances (Watch) (Ill.), XXIV, b 416–7
—— bars (Earth), VII, b 517, a b 518; (Surveying), XXII, a b 732–3; (Surveys), *a* 939
—— levers (Steam-Engine), XXII, a 924, b 925
—— pendulums (Clocks), VI, a 16–7
Competition, economic (Cairnes), IV, a 572; (Political Economy), XIX, b 394–5; (Value), XXIV, a 55, *a* 58; (Wages), a 330
——, effects of (Socialism), XXII, a 219, a 224, b 225, b 229, *a* b 230, b 231; foreign (Protection), XIX, b 932–3; overthrow of economic (United States), XXIII, a 835
COMPIÈGNE, town, VI, b 203–4; siege of, 1429 (Joan of Arc), XIII, b 707
Compilationes Antiquæ (Canon Law), V, a 18
Compitalia, festival (Lares), XIV, *a* 314
Complaint of Rosamond (Daniel, S.), VI, b 710, a 711
Complaint, rule of (Summary Jurisdiction), XXII, *b* 675
Complaints (Spenser), XXII, *a* 410
Complaynt of Scotland (Scotland), XXI, a 567
Compleat Angler (Walton), XXIV, b 362, *a* 363
Complementary signs (Hieroglyphics), XI, a 719–20
Complex cubic Curves, VI, a b 639; of lines (Surface), XXII, b 702, a 705; quantities (Trigonometry), XXIII, a b 604; as exponentials (Trigonometry), b 605
Complexes (Plücker), XIX, b 241, a 242
Complex variable. See VARIABLE
Compline, service (Breviary), IV, a 235
Complutensian Polyglott, XIX, a 431; (Bible), III, a *b* 560; (Jimenes), XIII, a 705
Complutum, town (Alcala de Henares), I, a 405
Components of force (Mechanics), XV, b 706
Composing or type-setting (Typography), XXIII, a b 745, b 756; stick (Typography), b 745
Compositæ, division of plants (Botany), IV, *a* 108, *a* b 111, *b* 116, *a* 119, *a* 121, a 124, b 125, b 130, a *b* 131, a 132, b 133, a 137, *a* 140, a 141; (Distribution), VII, a 252; (Grasses), XI, *a* b 53
Composite candles (Candles), IV, b 709
—— Egyptian columns (Architecture), II, a 343; Roman order (Architecture) (Plate XV), b 365–6, *b* 382, *b* 384
—— modulus (Numbers), XVII, a b 633
—— Numbers, XVII, a b 630, a 638
—— system (Money), XVI, b 761 *seq.*
Composition (Drawing), VII, a b 389
—— in language (Grammar), XI, b 34, a b 38; (Rhetoric), XX, b 527–8; Greek, XI, b 114, b 120; (Isæus), XIII, a 387
—— Buttons, IV, b 533
——, gilder's (Carving and Gilding), V, b 148
—— of like period waves (Wave Theory), XXIV, b 444
—— of stress and strain (Elasticity), VII, a 712
Compositions, device (Organ), XVII, a 858, a b 859
Compositors, printers (Trade Unions), XXIII, a 533; qualifications of (Typography), b 745, b 756, b 757
Composizione del Monde (Italy), XIII, a 512; (Latin Language), XIV, a 342
Compost (Agriculture), I, a 275, b 311–2; (Horticulture), XII, a 238
COMPOSTELLA, city, VI, a 204. See SANTIAGO DE COMPOSTELLA
Compound Bridges, IV, a 290–1
—— colors (Dyeing), VII, a 500–1
—— engine (Steam-Engine), XXII, a 495–6; hunting in (Steam-Engine), *b* 530
—— expansion (Steam-Engine) (Ill.), XXII, a 514–7; effect of (Steam-Engine), a 509
—— fracture (Surgery), XXII, a b 716
—— harmonic motion (Mechanics), XV, b 693, a 694–7
—— horizontal engines (Steam-Engine), XXII, b 539–40
—— lever Balance (Ill.), III, a 230
—— locomotive (Steam-Engine) (Ill.), XXII, a 548–9
—— marine engines (Steam-Engine) (Ill.), XXII, b 543–6
—— Microscope (Ill.), XVI, b 271–7; (Malpighi), XV, b 340
—— radicals (Liebig), XIV, b 569
—— river Tides, XXIII, a b 386
—— tides and schedule (Tides), XXIII, b 389
—— vertical engines (Steam-Engine), XXII, a 540
Compounding Theft, XXIII, b 252
Compressed air (Coal), VI, b 63; engines (Air), I, a b 379; (Steam-Engine), XXII, a 549, a 550; excavations in (Bridges), IV, a

Compressed air, *continued* 294; Manometer (Ill.), XV, a 503; motors (Tramway), XXIII, b 540
Compressed casting (Iron), XIII, b 366
Compressers (Cable), IV, b 552
Compresses (Hydropathy), XII, a 577
Compressibility, cubic, modulus of (Strength of Materials), XXII, b 624–5; of liquids (Hydromechanics), XII, a b 455, b 479–80; moduli of (Elasticity), VII, a 698, a 699, b 707, b 709; of water (Thermodynamics), XXIII, b 307–8
Compression of brain (Surgery), XXII, b 724
—— in cylinder (Steam-Engine), XXII, b 506–7
—— in fluid of Waves, XXIV, a b 440
—— fountain (Hydromechanics), XII, a 451
—— fracture by (Strength of Materials), XXII, a b 632
——, resistance to (Elasticity), VII, a 699
——, thermodynamics of (Elasticity), VII, b 705, a b 706, a b 707
"Compromise, The," 1566 (Holland), XII, b 77
——, Missouri. See Missouri Compromise
—— of 1850 (United States), XXIII, b 816–7
Compsognathus, genus (Reptiles), XX, b 456 note
Compte courant of Bank of France, III, b 292
—— rendu, national balance sheet (France), IX, b 523, a 524
Compton Church (Surrey), XXII, a 730
COMPTON, Henry, Bishop, VI, a 204
—— Spencer. See NORTHAMPTON, earl of
Comptroller, official (Mint), XVI, b 503; general (Auditor), III, a b 61
Compulsory education (England), VIII, b 225, a 226; (Schools), XXI, a b 909
—— Sale, XXI, a 219
Compurgation, trial (Jury), XIII, a b 794, note; (Oath), XVII, a 721; (Perjury), XVIII, a 559
Computation (Arithmetic), II, a b 462
Comstock lode (Gold), X, b 662 note; (Gold Hill), b 675; (Mining) (Ill.), XVI, b 460, a 470, a 471, a b 474, a 478, a 479, b 480, b 492; (Nevada), XVII, *a* 377; (United States), XXIII, b 867; (Virginia City), XXIV, a 281
COMTE, Auguste, philosopher, VI, b 204–12
  closing year, a 208
  domestic life, b 205
  literary method, a b 207
  literature, a 212
  Mill, J. S., b 206–7
  pecuniary resources, b 206–7
  Positive Philosophy prepared, b 205–6
  Saint Simon, b 204–5
  system of, a 208–12
COMTE, *continued*
    classification of sciences, a 209–10
    philosophy, a 208–9
    religion, a 211–2
    sociology, a 210–1
    women, a 212
  Vaux, Madame de, b 207
  youth, b 204
—— (Age), I, a 249; (Caste), V, a b 165 note; (Ethics), VIII, b 535–6; (Evolution), a 668; (Fetichism), IX, a 104; (Fine Arts), b 175; (History), XII, b 23, a 27; (Littré), XIV, b 711–2; (Metaphysic), XVI, b 100, a b 106; (Political Economy), XIX, *b* 391, b 392, b 394, b 395, b 403–4, a b 405
——, François Charles Louis, jurist (Say), XXI, a 377
Comum, city (Como), VI, a 196
COMUS, myth, VI, a b 212
Comus, Milton's (Lawes), XIV, b 370; (Milton), XVI, a b 338, b 350; (Taylor), XXIII, b 100
Comus, quack-doctor (Ledru-Rollin), XIV, b 398
Comyn, John, the Red, regent (Dumfries), VII, *a* b 45–6; (Robert), XX, *b* 608, *a* 609; (Scotland), XXI, b 510
—— of Menteith, earl (Scotland), XXI, *b* 507
Comyns, the (Alexander III. of Scotland), I, a 434
Conagar or Conna-Ghair, cliff (St. Kilda), XXI, a 186
Conaire, king (Ireland), XIII, a b 252
Conan, river (Ross Co.), XX, a b 877
—— II., III. and IV., dukes (Brittany), IV, b 320
—— the Fomorian (Ireland), XIII, a 249
Conarion or pineal gland (Descartes), VII, a b 109
Conation (Hamilton, Sir W.), XI, b 372, b 374; defined (Psychology), XX, a 48–9; relation of feeling to (Psychology), XX, b 45
Conative action (Psychology), XX, a 77–9
CONCA, Sebastiano, painter, VI, b 212
CONCAN, district, VI, b 212–3
Concave gratings, Rowland's (Wave Theory), XXIV, a b 463
—— lens (Optics), XVII, b 826; (Spectacles), XXII, a b 387
Concealment of birth (Infanticide), XIII, b 5
Concentration of food (Dietetics), VII, a b 175
—— processes (Lead), XIV, a b 377
—— of troops (War), XXIV, a b 372, b 373
Concentrations-stein, smelting substance (Nickel), XVII, b 500
Concentrativeness, organ of (Phrenology), XVIII, a 859
Concentric spheres, hypothesis (Ptolemy), XX, a 95
CONCEPCION, city, VI, a 213; province and town (Chili), V, a b 535, a *b* 536, a 538, a *b* 539, *a* 540, a 542
——, town (Paraguay), XVIII, b 248
Conceptacle of spermogones (Lichens), XIV, a 558
Conception Bay (Newfoundland), XVII, a *b* 392
—— de la Vega, town (Hayti), XI, a 486, b 487
Conceptions, nature of mental (Hume), XII, a *b* 366, a 367; (Psychology), XX, a 80–90; (Schleiermacher), XXI, a 430
Conceptism, style (Quevedo Villegas), XX, a 186; (Spain), XXII, a 374
Conceptualism (Abelard), I, b 39; (Psychology), XX, b 80–1; (Scholasticism), XXI, a 437, a b 442, a 446
Concerning the team of horses, (Isocrates), XIII, *b* 402
Concert, painting, Pitti Gallery (Giorgione), X, a 543
Concertina, musical (Wheatstone), XXIV, b 568
Concert rooms (London), XIV, a b 846
Concertos (Chopin), V, b 595, a b 596; (Mendelssohn), XVI, b 11, *a* b 12; (Music), XVII, b 100, b 102, a b 104
Concession, arms of (Heraldry), XI, b 614–5
"*Concessions*" of New Jersey (Penn), XVIII, b 504–5
Concha d'Oro (Monreale), XVI, a 785
Conchagua, volcano (Honduras), XII, *b* 133
Conchaguita, island (Honduras), XII, *b* 133
Conchifera, class (Brachiopoda), IV, b 171, a 172, a 173; (Mollusca), XVI, a 710
Conchobar Mac Nessa, king (Celtic Literature), V, a 263, b 269, a 279
Conchoid Curve, VI, b 632
Concideraciones (Valdes), XXIV, *b* 38
Conciliatore, journal (Pellico), XVIII, a 489; (Periodicals), a 553
Conciliatori, judges (Italy), XIII, a 473
Conciliorum collectio regia maxima (Hardouin), XI, b 424
Concilium ordinarium, English (Privy Council), XIX, a 785
—— plebis (Roman Law), XX, a b 696–7, b 715; (Rome), *a* b 756
—— Tullense, 859 (Hincmar), XI, a 747
Concini, Concino, Marquis d' Ancre, courtier (France), IX, b 499, a 500; (Longueville), XIV, a 878; (Louis XIII.), XV, a b 20; (Medici), b 802
CONCLAVE, assembly, VI, a 213–4
CONCORD, town, Mass., VI, a 214; (Thoreau), XXIII, b 333, a 334; Gage sends to (United States), a b 788; Reformatory at, XX, a 903
CONCORD, city, N. H., VI, a 214
CONCORDANCE, VI, a b 214
—— Biblical (Calasio), IV, b 579; (Cruden), VI, a 549; (Index), XII, b 767
——, *Hebrew* (Buxtorf), IV, b 535, b 536; (Hebrew Language and Literature), XI, b 537
Concordances (Shakespeare), XXI, b 805–6
Concordantiæ S. Jacobi (Hugh of St. Cher), XII, a 351
CONCORDAT, VI, b 214–6; (Bishop), III, a 684; (Treaties), XXIII, b 564
—— 1855 (Austria), III, b 120, b 122
——, Aschaffenburg, 1448, II, a 592; (Germany), X, a 445. See Concordat of Vienna
—— of Bologna, 1516 (Popedom), XIX, b 517
—— French, 1516 (Francis I.), IX, b 607; 1801 (Consalvi), VI, a 259; (France), IX, a b 541; (Napoleon I.), XVII, b 211, a b 212; (Pius VII.), XIX, b 165, a 166; (Talleyrand), XXIII, b 36
—— of Vienna, 1448 (Popedom), XIX, a b 517
—— of Worms, 1122 (Germany), X, a 439; (Henry V., Emperor), XI, a 596; (Investiture), XIII, b 207, a 208; (Italy), a 482; (Popedom), XIX, a b 514
CONCORDIA, town, VI, a 216
CONCORDIA, goddess, VI, a 216
—— league (Italy), XIII, a 484
—— *discordantium Canonum* (Gratianus, F.), XI, a *b* 54
—— ordinum of Cicero (Rome), XX, a 783
Concrescence (Mollusca), XVI, a 714, b 716
CONCRETE, VI, a 216–17; (Building), IV, *a* b 405, b 408, a 422; (Harbors and Docks), XI, b 414; (Rome), XX, *b* 825; domes (Rome), a 827, note; foundations (Bridges), IV, a b 293; quay walls (Harbors and Docks), XI, a 420; walls, construction (Rome) (Ill.), XX, a b 828–9
Concretions (Ear), VII, a 514; in rocks (Geology) (Ill.), X, b 260–1
CONCUBINAGE, VI, a b 217; (China), V, a b 579; (Egypt), VII, b 628; (Ireland), XIII, b 262–3; (Israel), b 418; (Marriage), XV, a 576; (Popedom), XIX, b 512
Concussion of brain (Insanity), XIII, a 107
Cond, "of the Hundred Battles," chief (Ireland), XIII, a b 251. See Conn
Condamine, Charles Marie de la, traveller (Earth), VII, b 516; (La Condamine), XIV, a 194; (Trumpeter), XXIII, b 631–2
Condapilly, district (Circar), V, *a* 688
Condate, Roman town (Libourne), XIV, b 508
——. See RENNES
CONDÉ, town, VI, b 217
CONDÉ, princes of, VI, b 217–9; (La Bruyere), XIV, *a* 178
——, Henry II., de Bourbon, prince de, VI, b 217, (Longueville), XIV, b 877, a 878
——, Henry III., de Bourbon, prince de, VI, b 217–8

Condé, Henry Jules V., prince de, VI, a 218
CONDÉ, José Antonio, orientalist, VI, a 221; (Gunpowder), XI, b 283
CONDÉ, Louis I., de Bourbon, prince de, VI, b 217, a b 218; (Coligni), a 127; (France), IX, b 493, a *b* 494; (Jarnac), XIII, a 604; (Mornay), XVI, a 855
CONDÉ, Louis de Bourbon, the Great, Prince of, VI, b 218-21
  character of, b 220-1
  Fronde wars, b 219-20
  majority of Louis XV., quarrels at the, a b 220
  Mazarin's contest with, a 219-20
  Spanish exile and last years of, b 221
  youth as Duc d'Enghien, b 218
—— (Chantilly), V, a 343; (Charolles), b 372; (Chateauroux), a 380; (Deshoulières), VII, a 112; (France), IX, *b* 503, *b* 504, *a* b 505; (Paris), XVIII, b 297; (Rocroi), XX, a 632; (Turenne), XXIII, b 666, a 667
CONDÉ, Louis Henry Joseph de Bourbon, last prince de, VI, a 221
CONDÉ SUR NOIREAU, town, VI, b 217
Condensation (Constitution of Bodies), VI, a 277; (Diffusion), VII, a 189; (Evaporation), VIII, a 640, a b 642
—— of air (Diving), VII, a b 260; of steam, initial cylinder (Steam-Engine), XXII, a b 507, a 509, a 513; of vapor (Meteorology), XVI, b 152
Condensed milk (Adulteration), I, b 153
Condenser (Distillation), VII, a 227, a b 229, b 230, a 231; (Gas and Gas Lighting) (Ill.), X, b 83-4; (Magic Lantern) (Ill.), XV, b 212, a 213; (Phosphorus), XVIII, b 828
Condenser, achromatic (Microscope), XVI, b 281-2
——, electrical (Electricity) (Ill.), VIII, a 32, a 34; (Telephone), XXIII, a b 139
—— machine (Wool), XXIV, b 693
Condenser, steam, efficiency of (Steam-Engine), XXII, a 921; marine surface Engine (Ill.), a 547; stationary Engine (Ill.), b 538, a 539, a 542; Watts's (Steam-Engine) (Ill.), XXII, b 492-3; (Watt), XXIV, b 434
Condensing air pumps (Pneumatics), XIX, a 259
—— light system (Lighthouse) (Ill.), XIV, a 628-32
—— slide valve cylinder, diagram (Steam-Engine), XXII, b 511
Conder, Charles R., explorer (Jerusalem), XIII, a 647, b 649, a b 652 notes; (Sepulchre), XXI, a 705
CONDER, Josiah, editor, VI, a b 221
Condictio, process (Law), XIV, b 365-6; (Roman Law), XX, a 701-2; in jus gentium (Roman Law), a b 719; jus naturale (Roman Law), b 726, a 727 note
Condie's steam hammer (Iron) (Ill.), XIII, b 336, b 337
CONDILLAC, Étienne Bonnot de, philosopher, VI, b 221-5
  biography, b 221
  economy, b 224
  education, b 224-5 note
  literature, b 224-5
  personality, b 223-4
  philosophy, b 221-3
  psychology, a 223-4
  reasoning, a 222, a b 224
—— (Analysis), I, a 699; (Association of Ideas), II, b 640; (France), IX, a b 588, b 591; (Logic), XIV, *a* 802 a 808, b 809 note; (Maine de Biran), XV, a 305; (Tracy), XXIII, b 528, a 529
Condistat, town (Canstatt), V, a 25
Conditional syllogisms (Hamilton, Sir W.), XI, a 375
Conditioned, philosophy of (Antinomy), II, a 115; the (Hamilton, Sir W.), XI, a 373, a b 374; (Jacobi), XIII, b 547
Conditioning process (Silk), XXII, a 69
Condivi, Ascanio, painter (Michel Angelo), XVI, b 243
Condolmieri. See pope EUGENIUS IV.
CONDOM, town, VI, a 225
Condonation in Divorce, VII, a 263
CONDOR, bird, VI, a b 225; (Chili), V, a 542; (Vulture), XXIV, *b* 322
CONDORCET, Marie Jean Antoine Nicolas Caritat, marquis de, philosopher, VI, 225-7; (Burke), IV, a 488; (Comte), VI, b 204, a 205, b 207; (France), IX, a 522, a 587; (Lighthouse), XIV, b 624; (Pascal), XVIII, a 341; (Political Economy), XIX, a b 384
Condore islands (Cambodia), IV, a 641
CONDOTTIERI, troops, VI, a b 227; (Hawkwood), XI, b 478; (Italy), XIII, a 488
Conduct (Psychology), XX, a 89-90; future consequences of (Butler), IV, a 511
Conduct of the Solitary (Avempace), III, a 126
Conduction of heat (Diffusion), VII, a b 189-90; electrolytic (Electricity), VIII, a b 44; (Electrolysis), a b 107; (Glass), X, b 584; (Heat), XI, a 515-9, a 523; (Meteorology), XVI, b 120; (Radiation), XX, *b* 219
Conductivity, electric, VIII, a 48, a 51, a 53; (Heat), XI, a 518, b 523; (Iron), XIII, b 284; (Magnetism), XV, b 275; (Metals), XVI, b 72; (Meteorology), b 189; (Selenium), XXI, b 663-4; (Telegraph), XXIII, b 123
—— boxes (Electricity), VIII, a 43; electric and thermal (Gold), X, b 659
—— of nerves (Physiology) (Ill.), XIX, a b 29
"Conductor" (Horse), XII, b 188
—— systems (Traction), XXIII, a b 527
Conductors (Electricity), VIII, b 5, *a* 6, a 16, a 17, b 38-44, b 93; (Electrolysis), a 99-100; composite (Electricity), a b 22; hollow, potential in (Electricity), b 25; relative values of (Electricity), b 9
Conduits (Water Supply), XXIV, a 430
Condurrite (Mineralogy), XVI, b 409
Condylopa or arthropoda (Arachnida), II, *b* 237-8; (Arthropoda), b 566
Condy's fluid (Light), XIV, a 606
Cone (Conic Sections), VI, b 251-3; (Curve), a 639; (Infinitesimal Calculus), XIII, b 7; (Mensuration), XVI, b 29, a 32; class of the (Surface), XXII, a 703; mensuration of (Geometry), X, a 346; order of the (Surface), XXII, b 702, a 703, a 705. See Cones
CONECTE, Thomas, monk, VI, b 227
CONEGLIANO, town, VI, b 227
Conejera or Rabbit island (Balearic Islands), III, b 240
Conepatl or Conepatus, mammal (Skunk), XXII, b 134
Cones, equation of (Geometry), X, a-b 375; rolling (Mechanics) (Ill.), XV, b 762-3; second order (Geometry), X, a 354-7
——, seed cases (Botany) (Ill.), IV, a b 105, a 106, b 107, b 110, a 139; (Sequoia) (Ill.), XXI, *b* 705-6
——, volcanic (Geology), X, a 224-5
Coney Island (Long Island), XIV, a b 876; (New York), XVII, a 473
CONFARREATIO, marriage, VI, a 228; (Roman Law), XX, a 689, b 691, a 706, a 725, a 732
CONFECTIONERY, VI, a b 228; (Adulteration), I, a 158
Confederacy, play (Vanburgh), XXIV, a 62
Confederate States, American (Montgomery), XVI, a 816; history of the (United States), XXIII, b 821-9. See Secession War
—— Congress, (Montgomery), XVI, a 816, note; (International Law), XIII, b 200; cruisers (International Law), a 202; (Navy), XVII, a 310; (War), XXIV, b 385
Confederation or Bund (Germany), X, b 452-4, a b 456-8
——, American colonial (United States), XXIII, b 793-7, a b 799, b 800
—— of Bar, 1768 (Poland), XIX, a 309; (Pulaski), XX, a 870
——, Les Gueux, 1566 (Egmont), VII, b 606
——, Northern, 1878 (Germany), X, b 458-9
—— of the Rhine, 1806 (Austria), III, a 116; (Federal Government), IX, a b 55; (Ferdinand III., Tuscany), a 74; (France), a 542; (Germany), X, *a* 452; (Napoleon I.), XVII, a 217, b 218, a b 225, *a* 226
—— Swiss (Zurich), XXIV, b 870
Conferences (Congress), VI, a b 239
—— (Methodism), XVI, a 195, a b 196, b 198-9; American (Methodism), b 199; Calvinistic (Methodism), b 201
——, charity (Reformatories), XX, b 903
Confervoideæ, order (Zoology), XXIV, a *b* 137, b 138
Confessio, altar (Basilica), III, a 358; (Crypt), VI, a 591; (Rome), XX, b 855
Confessio Amantis (Gower), XI, a *b* 20
—— *Belgica* (Canon), V, b 14; (Creeds), VI, *a* 500
—— *Catholica* (Gerhard, J.), X, b 398
—— *Gallicana* (Creeds), VI, *a* 500
—— *Tetrapolitana* (Creeds), VI, b 499; (Luther), XV, a 84
CONFESSION, sacrament, VI, b 228-9; (Buddhism), IV, a 390; auricular (Absolution), I, b 58; (Evidence), VIII, b 651; (Lignori), XIV, *b* 643, a 644; (Penance), XVIII, a 496, a b 497, a b 498; revival of (Pusey), XX, a 123
—— of crime (Criminal Law), VI, b 521; (Evidence), VIII, b 649; (Torture), XXIII, b 490, a b 492, a 493
—— *d'un Enfant du Siècle* (Musset), XVII, a 119
Confession of Faith (Creeds), VI, a 494-500; (Baptists), III, b 304, *b* 305-6; (Greek Church), XI, b 141; (United Brethren), XXIII, a 951; (Universalism), b 952; (Universalists), b 886
—— of Augsburg (Germany), X, a 447; (Luther), XV, b 83-4; (Reformation), XX, *a* b 346
Confession of Faith, Scotch (Balnaves), III, b 252; (Henderson), XI, b 581; (Knox), XIV, b 131; (Presbyterianism), XIX, a 699, b 704; (Scotland), XXI, *a* 525
Confession, Flechia's edition (Italy), XIII, a 507
——, *Helvetic* (Creeds), VI, *a* 500; (Gaussen), X, a 105
——, *Negative* (Scotland), XXI, a 534
——, Peter's (Gospels), X, a 742
—— of Reformed Churches (Canon), V, b 14
——, *Westminster*. See *Westminster Confession*
—— *of St. Patrick*, XVIII, a b 422
—— *du Zulmé* (Ginguené), X, a 539
Confessional, VI, a b 229; (Abbess), I, b 16; (Ballot), III, b 250, b 251

Confessional theology (Dogmatic), VII, a b 296
Confessions (Rousseau), XXI, a 29, b 31, *a* b 32, *a* 33
—— (St. Augustine), III, b 68
—— *of an English Opium-eater* (De Quincey), VII, *a b* 89, a b 90
—— *of an Enquiring Spirit* (Coleridge, S. T.), VI, a 125
Confessor (Confession), VI, a 229; (Damasus I.), b 698
——, shrine of the, Westminster (Mosaic), XVI, a b 881
Confessors of the Glory of Christ, sect (Schwenkfeld), XXI, a 485
Configuration, diagram of (Ill.), VII, a b 129, b 131
CONFIRMATION, sacrament, VI, b 229; (Denmark), VII, a 73
Confiscation (International Law), XIII, b 200; (Ireland), *b* 225, a b 272, a 273; Sulla's (Rome), XX, a 780
Conflagrations (Fire), IX, b 202-4. See Fires
Conflict of laws (International Law), XIII, b 197; (Law), XIV, a b 367
Confluent smallpox, XXII, a b 173
Confocal quadric surface (Surface), XXII, a 706
Confolens, arrondissement and town (Charente), V, b 347
Confrérie de la Passion, company (Drama), VII, a 358; (France), IX, b 567, b 573
Confucian Analects (China), V, *b* 574
Confucianism (China), V, b 582-3; (Cochin China), VI a b 88; (Corea), b 348, a 349; (Religions), XX, a 376, *a b* 381, a 382
CONFUCIUS, teacher, VI, b 229-35
  condition of China, b 229-30
  government, his ideas of, b 231-2
  history of, b 230-2
  influence of, a 233-4
  literature, b 233-4
  maxims and religion, b 234-5
  obsequies, a 233
  wanderings, a b 232
—— (China), V, a 551, a b 558, a 559, a 563, *b* 573-5, a 577, a 580, b 582; (Lâotsze), XIV, *b* 295; (Mencius), XVI, *a* b 7, *a* b 8, a 9, a 10; temple of (Peking), XVIII, a b 481
Congal Claen, king (Ireland), XIII, b 256
Congaree river (Columbia, S. C.), VI, b 150
CONGÉ D'ELIRE, English system of free election license, VI, a 235; (Concordat), a 215
Congeniès, village (Quakers), XX, *a* 159
Congenital deafness (Deaf and Dumb), VII, b 5-7; disease (Pathology), XVIII, a 381-2, a 393; epilepsy (Pathology), b 400; (Pellagra), a 488; syphilis (Pathology), a 415; tuberculosis (Pathology), b 415; tumors (Pathology) (Ill.), b 373 *sq.*; variations, causes of (Zoology), XXIV, a b 857
Conger eels (Cornwall), VI, a 378; (Eel), VII, b 601; (Ichthyology), XII, b 691, a 733
Congestion (Insanity), XIII, b 106, a 107; (Pneumonia), XIX, a b 262
Congius, liquid measure (Weights and Measures), XXIV, *b* 513
CONGLETON, town (Ill.), VI, b 235; (Cheshire), V, b 512; viaduct (Railway), XX, b 242
CONGLETON, Henry Brook Parnell, baron, politician, VI, b 235
Conglomerate rock (Geology), X, b 204, b 211, a 214, b 261; brecciated, Scotch (Geology), b 305; rain, effects on (Geology), b 238-9
CONGO, territory, VI, b 235-8; (Africa), I, b 241; (Demonology), VII, b 56; explorations (Geography), X, a 163, b 171, a 174
—— Free State (Slavery), XXII, a 153; (Zaire), XXIV, *b* 803
—— languages (Zululand), XXIV, a 867
—— Lakes (Africa), I, a 229
—— river (Africa), I, b 220, b 222, a 223, a 225, b 227; (Tanganyika), XXIII, b 50. See ZAIRE
Congou Tea, XXIII, a b 106, b 107, a 109
Congregate system in the U. S. (Reformatories), XX, *b* 900, *a* 903
Congregatio de Propaganda (Monachism), XVI, b 749
Congregation of the Council of Trent, XXIII, a 586; (Roman Catholic Church), XX, b 645
—— of the Index (Index Librorum Prohibitorum), XII, b 768
——, Lords of the (Scotland), XXI, *a* 523, *a b* 524, b 525
—— of the Oratory (Neri), XVII, a b 356-7
—— of Rites (Plain Song), XIX, b 180
Congregational Union, English (Congregationalism), VI, a b 238
CONGREGATIONALISM, VI, a 238-9; (Ainsworth), I, b 378; (Independents), XII, a 761-7; (Unitarianism), XXIII, a 774
Congregations, legislative assemblies (Convocation), VI, b 290
——, administrative (Roman Catholic Church), XX, a 645
CONGRESS, diplomatic, VI, a 239-40
—— of Aix-la-Chapelle, 1818, (Metternich), XVI, b 209; (Wellington), XXIV, b 525, a 526
—— of Berlin. See Treaty of Berlin
——, Confederate (United States), XXIII, a 825
——, Continental (Adams, J.), I, a 130; (Franklin), IX, a 330; (Jay, J.), XIII, *b* 622; (Jefferson, T.), a b 625; (Lee, R. H.), XIV, b 399; (Thomson), XXIII, b 940; (United States), a 785, a b 787-8, b 788-9, *a b* 790, a b 791, a 792, *b* 793, *b* 794, a b 795, a b 800; (Washington), XXIV, b 409
—— of Gotha, 1875 (Socialism), XXII, a 226, b 229, a 231
—— of Greek states (Pericles), XVIII, b 542-3
—— of Laybach, 1821 (Italy), XIII, b 496; (Metternich), XVI, a 210
—— of Lisbon, 1885 (Post-Office), XIX, b 601
—— of London, 1831 (Belgium), III, a *b* 456-7
—— of Mantua, 1459 (Pius II.), XIX, a 163
—— of Mexico, XVI, b 898-9
——, Münster, 1643 (France), IX, *b* 503. See Treaty of Westphalia
——, Osnabrück, 1643, (France), IX, *b* 503
—— of Paris, 1856 (Blockade), III, b 725; (Cavour), V, b 239, a 240; (Clarendon), b 706-7; (Privateer), XIX, b 784; (Prize), a b 786. See Treaty of Paris
—— of Paris, 1863 (Post-Office), XIX, b 600; 1878 (Post-Office), a 601
—— of Peru, first, XVIII, b 691, b 692
—— of Prague, 1814 (Metternich), XVI, b 208
—— of Rastadt, 1798 (Metternich), XVI, b 207
——, Stamp Act, 1765 (United States), XXIII, b 785-6
—— of Troppau, 1820 (Metternich), XVI, a 210; (Troppau), XXIII, b 625
—— of United States (Bankruptcy), III, a 297; (Habeas Corpus), XI, a 321; (Mississippi), XVI, b 543-4; (Newspapers), XVII, a 445; (Pacific Railroads), XIX, a 914; (Philadelphia), XVIII, a 755; constitution of (United States), XXIII, b 797, *a b* 798; Library of, XIV, a 535; powers of (United States), XXIII, b 814, b 816, b 820, *b* 823, a 830; presidential caucus in (United States), b 837; sectional representation in (United States), a 818
—— of Verona, 1822 (Chateaubriand), V, *a* 379; (Ferdinand VII.), IX, b 73; (Metternich), XVI, a 210; (Wellington), XXIV, b 525-6
—— of Vienna, 1815-19 (Denmark), VII, *b* 77; (Gentz), X, *a* 146; (Londonderry), XIV, a 866; (Metternich), XVI, a 209; (Talleyrand), XXIII, a 37; (Germany), X, b 452; (Italy), XIII, b 495, a 496; (Saxony), XXI, a 371; (Wellington), XXIV, *b* 524
Congresses (Trades Unions), XXIII, a b 533
—— scientific (Societies), XXII, b 232-3
Congressional printer (Press Laws), XIX, b 731; reports (American Journalism), XVII, a 887; (Newspapers), XVII, a 445
CONGREVE, William, dramatist, VI, b 240; (Cibber), V, b 672; (Drama), VII, b 376, a 377; (English Literature), VIII, b 378, a 379; (Farquhar, G.), IX, *b* 37; (Pinto), XIX, b 116; (Vanbrugh), XXIV, b 61, *a b* 62; (Wycherley), b 741, *b* 742, *a b* 743
CONGREVE, Sir William, inventor, VI, b 241; (Gunpowder), XI, b 291; (Matches), XV, b 631; (Perpetual Motion), XVIII, a b 566
Congrogadina, fishes (Ichthyology), XII, b 730
Congruence (Numbers), XVII, b 631, a b 632, b 638-9; of lines (Geometry), X, b 365-6; (Surface), XXII, a b 702, b 704, a b 705
Congruism (Suarez), XXII, b 648
CONI or Cuneo, city, VI, b 241
Conic, focal properties (Geometry), X, b 362-3
—— involution (Geometry), X, b 360-3
CONIC SECTIONS or Conics, VI, b 241-54
  cone and its sections, b 251-3
  curvature, a 253-4
  definitions, a b 242, b 244, b 247, b 251, a 253
  ellipse, b 244-7
  history, a 242
  hyperbola, b 247-51
  parabola, b 242-4
—— (Apollonius of Perga), II, a b 164; (Curve), VI, a 634, a 638-9, *b* 641; (Euclid), VIII, b 577; (Geometry), X, a 357-60, b 371-2; (Measurement), XV, *b* 672, *a b* 673, a b 674; (Pascal), XVIII, a 339, a b 343; (Projection), XIX, a 819-21; (Serenus), XXI, a b 707
Conical burner (Lamp) (Ill.), XIV, a b 247
—— development (Geography), X, b 183-5
—— pendulum (Clocks), VI, a 15
—— refraction (Hamilton, Sir W. R.), XI, b 377; (Wave Theory), XXIV, a 475
Conicoxæ (Insects), XIII, b 155
Conidia, organs (Botany), IV, b 145; (Fungus), IX, a 728
Conies, animals (Hyrax), XII, b 633
Coniferin (Chemistry), V, a 497
Conifers (Arboriculture), II, b 276-7, a 282; (America), I, b 601; (Botany), IV, b 82, b 89, a 92, a 97, b 108, b 114, a 126, *b* 131, a b 139, a b 142; (Fir), IX, a 193; (India), XII, a 778; (Physiology), XIX, b 65, b 67; (Vegetable Kingdom), XXIV, *b* 142, *a* b 143; circulation in (Physiology), XIX, a b 54; forests of (Russia), XXI, *a* b 84
Conine or conia, alkaloid (Chemistry), V, *b* 500; (Hemlock), XI, b 577
CONINGTON, John, translator, VI, a b 254
Conisbee's color-printing press (Typography), XXIII, a 755

Conisci or Concani, tribe (Cantabria), V, b 25
Coniston, lake (Lancashire), XIV, a 253
—— Old Man, mountain (Lancashire), XIV, b 252
—— rocks (Geology), X, a b 294, b 298; (Westmorland), XXIV, *b* 542, a 543, a 544
Conium, plant (Hemlock), XI, a b 577; (Narcotics), XVII, b 237
CONJEVERAM, town, VI, b 254
Conjugate, mathematical term (Conic Sections), VI, b 244, a b 247, a 249, b 250, a 251; (Geometry), X, b 358, a 359, b 360
—— conductors (Electricity), VIII, a 41
—— diameters (Geometry), X, b 358–9
—— foci (Light), XIV, a 592
—— functions (Electricity), VIII, a 32
—— points (Geometry), X, b 360, a b 361; (Infinitesimal Calculus), XIII, a 28
—— poles (Geometry), X, b 358
—— strains (Mechanics), XV, *b* 701, b 702–3
—— terms (Harmonic Analysis), XI, a 431
Conjugation, plant (Algæ), I, b 448, a 449; (Reproduction), XX, *b* 437–9, a 440–2; (Histology), XII, a b 15; (Morphology), XVI, b 867; (Protozoa), XIX, b 858, b 859, b 875
—— of Ciliata (Protozoa), XIX, b 886, b 888–9; in cryptogams (Botany) (Ill.), IV, b 144; of Flagellata (Protozoa), XIX, b 880; Sporozoa (Protozoa), a 877
—— of verbs. See GRAMMAR
Conjunctions (Grammar), XI, a b 37
Conjunctiva, tissue (Anatomy), I, a 782; (Ophthalmology), XVII, a b 802, a 808
Conjuration de Fiesque (Retz), XX, b 502
Conjurer Unmasked (Magic), XV, a 212
Conjuring (Legerdemain), XIV, a 415–6; (Spiritualism), XXII, b 421–2; (Witchcraft), XXIV, a 654. See MAGIC
Conjurors, Lama (Lhasa), XIV, a b 499
Conkling Roscoe, senator, *b.* 1828, *d.* 1888 (Weed), XXIV, b 889
Conn or Scalbalb, god (Celtic Literature), V, *b* 260
—— of the Hundred Battles, hero (Celtic Literature), V, *a* b 269, a 280, *a* 282; (Fenians), IX, b 66. See Cond
——, Lough (Mayo), XV, *a* 657
Connaigre bay (Newfoundland), XVII, a 392
Connaissance des Temps (Navigation), XVII, a 267 note, b 268
CONNAUGHT, province, VI, b 254; (Ireland), XIII, b 249, note, b 250, b 251; coal fields (Roscommon), XX, b 872; (Ireland), XIII, a b 223; farming (Ireland), b 226, 227–9, 230, 231; landowners in (Ireland), 234; population (Ireland), a b 242
CONNECTICUT, state (Plate and Map), VI, b 254–8
  financial statistics, b 256
  government, b 257–8
  history, a b 258
  industrial features, b 255–6
  physical description, b 254–5
  population, b 255
  social description, b 256–7
—— (Reformatories), XX, *b* 900, *a* 901, b 902; (Schools), XXI, b 908, *a* b 909; (Slavery), XXII, a 908, a b 909; (Suicide), b 663; (Tryon), XXIII, b 946; (Universities), a 913, a b 953
—— Academy of Arts and Sciences (Societies), XXII, a 235
——, colony (United States), XXIII, b 777, a 778, a 779, a b 780, b 785, b 787
—— fishery (Oyster), XVIII, b 112 note, a b 113, a 114; history (United States), XXIII, a 796, a 800, a b 801, a 822, a 834; plan of Constitution (United States), XXIII, b 796; Reserve, land (Ohio), XVII, a b 758–9; revolutionary services of (Trumbull), XXIII, a 945; statistics (United States), b 853, b 856, b 863, a b 867, b 878
Connecticut, History of (Trumbull), XXIII, b 944
Connecticut river (America), I, a 596; VI, a 255; (Hartford), XI, *a* 444; (United States), XXIII, a b 842, a 843, b 845
Connecting rod inertia (Steam-Engine) (Ill.), XXII, a b 535
Connection, Methodist, XVI, a 194, a 195–6 a 199; New (Methodism), *a b* 197, b 198, b 200
Connective, antherine (Botany) (Ill.), IV, a b 124
—— tissue (Anatomy), I, a 745–7, *a* 797; (Digestive Organs), VII, b 197; (Histology), XII, *b* 6, a 8–10; (Nemertines), XVII, b 337
Connellite (Mineralogy), XVI, b 400
CONNEMARA, district, VI, b 258; (Galway), X, b 50, a b 51
CONNOR, Bernard, physician, VI, b 258; (Poland), XIX, a 302, a 307
Connubium (Marriage), XV, b 575; (Roman Law), XX, a 689, b 694
Conococha lake (Peru), XVIII, a 684
Conodonts, fossils (Ichthyology), XII, a 705
Conoids and Spheroids (Archimedes), II, a b 333
CONOLLY, John, physician, VI, b 258; (Insanity), XIII, b 116, a 117
Conomedusæ, order (Hydrozoa), XII, b 580, a 593
Conomitrium, mosses (Muscineæ), XVII, b 76, a 78
CONON of Athens, general, VI, b 258; (Greece), XI, b 92; (Persia), XVIII, *a* 589
——, Roman historian (Romance), XX, a 650
—— of Samos, mathematician (Astronomy), II, b 654
——. See emperor Leo III.
Conoteuthis, fossil (Mollusca), XVI, b 695, a 697
Conquest in law (Inheritance), XIII, b 84
"Conquest, The" (Mohammedanism), XVI, b 583
Conquest of Granada (Dryden), VII, b 423
—— *of Granada* (Irving, W.), XIII, b 383
Conquest Island (Wan-Chon-Fu), XXIV, b 363
Conquest of Mexico (American Literature), I, a 635; (Prescott), XIX, *b* 722
——, Norman. See Norman Conquest
—— *of Peru* (American Literature), I, a 635; (Prescott), XIX, b 722, a 723
Conquéte de Constantinople (Villehardouin), XXIV, a 247–8
Conrad I., emperor (Germany), X, b 432–3
—— II., Salic, emperor (Geneva), X, b 133; (Germany), b 436–7; (Italy), XIII, b 480, a 481; (John XIX., Pope), b 722; (Salic Law), XXI, a 226; (Rome), XX, a 808; (Utrecht), XXIV, a 27
—— III., emperor (Crusades), VI, a 554; (Germany), X, *a* b 439; (Italy), XIII, a 483; (Kerner), XIV, a 52; (Rome), XX, a 811; (Saxony), XXI, a 368; (Templars), XXIII, b 176
—— IV., emperor (Germany), X, a b 441
——, J., jurist (Universities), XXIII, b 904, a 905, b 914
——, Timothy Abbott, naturalist (Surveys), XXII, *a* 936, a 938
—— of Kirchberg, minnesinger (Germany), X, b 468
—— of Lorraine, duke. See LORRAINE
—— of Masovia, duke (Prussia), XX, *a* 10
—— of Montferrat, prince of Tyre (Richard I.), XX, *a* b 555; (Templars), XXIII, *b* 177
—— of Wettin, count of Meissen (Saxony), XXI, b 368, a 370
—— von Wurzburg, poet (Germany), X, a 469
CONRADIN, king of Sicily, or Conrad V., emperor, VI, b 258–9; (Italy), XIII, a 486; (Popedom), XIX, a 515; (Sicily), XXII, *b* 32
CONRART or Conrard, Valentin, litterateur, VI, a 259
Conring, Herrman, physician (Statistics), XXII, a 479
CONSALVI, Ercole, cardinal, VI, a b 259
CONSANGUINITY or Kindred, VI, b 259–60; (Affinity), I, a 203; (Deaf and Dumb), VII, a b 6; (Marriage), XV, a 573; claims of recognized (Roman Law), XX, a 722, b 733; degrees of (Roman Law), b 706, note; law of (Intestacy), XIII, a b 204
Consanguinity, Systems of (Family), IX, b 21
Conscience (Butler), IV, *a* b 522–3; (Hutcheson), XII, b 424–5; (Jesuits), XIII, b 657, a b 661; defined (Schleiermacher), XXI, a 430. See ETHICS, Moral Sense
Conscientiousness, organ of (Phrenology), XVIII, b 859
Consciousness (Attention), III, b 46–7; (Cousin), VI, b 465–6; (Eleatic School), VIII, b 3; (Hamilton, Sir W.), XI, b 372–4; (Hartley), b 445; (Hegel), *b* 551; (Herbart), b 643; (Hutcheson), XII, b 424, b 426; (Insanity), XIII, b 105–6; (Kant), b 857–8, a 860, b 862, b 863, a 864; (Metaphysic), XVI, b 87, a 89, a 91–2, b 94–5, b 97–9, b 101, a 103, a 107; (Physiology), XIX, a 24, b 25, b 48–9; (Schopenhauer), XXI, a 472
——, continuity of (Psychology), XX, b 47, a 60–2; latent modifications of (Psychology), a 52–4, b 66; primary ground of knowledge (Cartesianism), V, b 125, b 126–7; rise of (Beneke), III, a b 484
——, self (Mysticism), XVII, b 136, a b 140; (Philosophy), XVIII, a 807; Malebranche on (Cartesianism), V, a b 131; Schopenhauer on, XXI, a b 475
——, somatic (Psychology), XX, b 72–3, a b 88; Spinoza on defects of (Cartesianism), b V, 135; theory of, exploded (Psychology), XX, b 46, a b 49
——, unity in (Categories), V, b 195–6; (Schleiermacher), XXI, *a b* 429, b 430
——, veracity of (Belief), III, *b* 459; (Descartes), VII, b 106
Conscription (Army), II, b 495, b 496–7, a 525, *a* b 526, b 527, *b* 528
—— in Austria (Army), II, *b* 528
—— in France (Army), II, b 495, a 525, *a* b 526, b 527
—— in Germany (Army), II, a 520; X, b 419, a 421
—— in Italy, XIII, a 468
——, Navy, XVII, b 307–9
—— in Norway, XVII, b 596
—— in Persia, XVIII, a 640
—— in Peru, XVIII, a b 691
—— in Prussia (Army), II, a 520–1
——, Roman (Army), II, b 492
—— in Russia (Army), II, a 532
——, Turkish (Army), II, a 540
—— in United States (Lincoln), XIV, a 668; (United States), XXIII, b 827, a 829

Conscription, effects of (Emigration), VIII, a 161; (Suicide), XXII, b 662; labor (Peru), XVIII, a b 691
CONSECRATION, VI, a 260; (Anointing), II, b 80; of burial plots (Burial and Burial Acts), IV, b 480; English (Bishop), III, a 685; popes (Roman Catholic Church), XX, b 644
Conseil, municipal (Commune), VI, a b 188
Conseils de Prud'hommes, tribunal (Labor), XIV, a 174; (Paris), XVIII, a 292
Consensual contracts (Roman Law), XX, b 718-20
Consensus Italiæ (Rome), XX, a 783; Sandomiriensis, 1570 (Sandomir), XXI, a 272
Conserve (Rose), XX, a 874
Conservation of areas (Mechanics), XV, a 723
Conservation of Energy, VIII, b 188; (Capillary Action), V, a 51, b 53; (Electricity), VIII, a 14, a 38, b 78; (Leibnitz), XIV, a 422; (Mayer, J. R.), XV, a 658; (Mohr), XVI, b 629; (Perpetual Motion), XVIII, b 564; (Thermodynamics), XXIII, a b 303, note; in machines (Mechanics), XV, b 779
—— of matter (Mechanics), XV, b 755
Conservatism (Metternich), XVI, b 207, a 209; (Mexico), b 227, a 228; (Renaissance), XX, b 405-6
Conservative party, English (Palmerston), XVIII, b 197-8; (Peel), a b 466, b 467; (Whig and Tory), XXIV, a 571; rise of (England), VIII, b 327
—— system (Energy), VIII, a 188
—— Surgery, XXII, a b 723
Conservatoire des Arts (Paris), XVIII, b 286, b 294, b 299
Conservatorio delle Fieschine (Genoa), X, a 140
Conservatores, magistrates (Rome), XX, a b 820, a 821, a 822
CONSERVATORY, musical, VI, a b 260; (Italy), XIII, b 471; (Music), XVII, b 90, note
—— for plants (Horticulture), XII, a b 226
Consi, Ara or altar (Rome), XX, a 830 note
Considérant, Victor, socialist (Fourier), IX, b 432
Considerantes Dudum, bull (Templars), XXIII, b 180
Consideration in law (Contract), VI, b 286, a 287; (Guarantee), XI, b 209
Conserva (Medicine), XV, a 817
Consistoire, court (Presbyterianism), XIX, b 712, a 713, a 714, a 715. See CONSISTORY
Consistorial action (Divorce), VII, a 264
—— Congregation (Roman Catholic Church), XX, a 645
—— System (Lutherans), XV, a 87
Consistoriaux, sect (Presbyterianism), XIX, a 714
CONSISTORY, council, VI, b 260-1; court (Presbyterianism), XIX, a b 698, b 712, a 713, a 714, a 715; Jewish, France (Jews), XIII, b 693
Consiva or Ops, goddess (Saturn), XXI, b 336
Consociations (Congregationalism), VI, b 238
Consolatio of Boetius. See *De Consolatione Philosophiæ*
—— of Hotman, XII, b 322, a 323
Consolation à Du Perrier (Malherbe), XV, b 336
Consolation to his Wife (Plutarch), XIX, b 243, a 246
Consolations, poems (Sainte-Beuve), XXI, b 170
Consolato del Mare (Prize), XIX, a 786. See CONSULATE OF THE SEA
Console or Consol, in Architecture, II, a 406
CONSOLIDATION ACTS, VI, a 261; (Company), b 198
—— locomotive (Steam-Engine), XXII, b 924
CONSOLS, funds, VI, b 261; (Annuities), II, b 65; (Arbitrage), a 273; (National Debt), XVII, b 251
Consonance (Music), XVII, b 112-3
Consonants, Aryan (Philology), XVIII, b 800, a 801; Catalan (Spain), XXII, a b 362; Castilian (Spain), b 363-4; (Hebrew Language and Literature), XI, a 534; (Hindûstânî), a 751; (Holland), XII, a 89-91; (Iceland), a 664; (Latin), XIV, a 328, b 329, a b 331; Magyar (Hungary), XII, b 289; Portuguese (Spain), XXII, a 356; (Provençal Language), XIX, b 894; (Sanskrit), XXI, b 282, a 283; (Tamils), XXIII, a 47; phonetic, old Latin, changes of (Romance Languages), XX, a b 679-80
——, tables of (Speech-Sounds), XXII, b 399, a 400
Conspiracies, Roman servile (Slavery), XXII, a b 141
CONSPIRACY, VI, b 261-3; (Combinations), b 162; laws (Labor), XIV, b 168, a 171; (Trade Unions), XXIII, b 530-1, a 532
CONSTABLE, officer, VI, a 263; (England), VIII, a 268; powers of (Police), XIX, b 346; (Warrant), XXIV, b 392
——, Lord High (Marshal), XV, a 581; (Precedence), XIX, b 682 note
CONSTABLE, Archibald, publisher, VI, b 263; (Encyclopædia), VIII, a b 182, a b 183, a 184; (Scott), XXI, a 574, a 576
CONSTABLE, Henry, sonneteer, VI, a 264
CONSTABLE, John, painter, VI, a b 264; (Rousseau, T.), XXI, a 33
——, Sir Robert, rebel (Hull), XII, a 356
CONSTANCE, city, VI, b 264-5; (Switzerland), XXII, a 828, a 829
——, council of. See Council of Constance
——, peace of, 1183 (Italy), XIII, b 484
CONSTANCE, Lake of, or Bodensee, VI, a 265; (Germany), X, b 402, a 404; (Lake), XIV, a 218, a b 221; (Lake Dwellings), a 224; (Switzerland), XXII, a 815; (Würtemberg), XXIV, a b 735, a 737
Constance of Aquitaine, queen (France), IX, a 474; (Henry I., France), XI, b 596; (Provençal Literature), XIX, a 900
Constans I., emperor (Donatists), VII, b 311; (Rome), XX, b 796
—— II., emperor (Monothelites), XVI, a 785; (Sicily), XXII, b 28
CONSTANT DE REBECQUE, Henri Benjamin, economist, VI, a b 265; (Caste), V, a 163, b 165; (Napoleon I.), XVII, a 230; (Récamier), XX, a 322; (Switzerland), XXII, b 837
——, Samuel, romancist (Switzerland), XXII, b 837
Constantia, empress (Constantine I.), VI, a b 267
Constantiana, town (Kustendje), XIV, b 162
Constantine, province (Algeria), I, b 496, b 497, a 498; (Numidia), XVII, b 642, a 643
CONSTANTINE, city, VI, b 265-6
CONSTANTINE, emperors, VI, a 266
CONSTANTINE I., the Great, emperor, VI, a 266-9
  Christianity, relation to, a b 268
  Eastern empire acquired, a b 267
  estimate of, b 268
  Galerius and Constantius, colleagues, a b 266
  sole emperor period, b 267-8
  Western empire acquired b 266-7

——

—— (Arius), II, b 472; (Athanasius), II, b 725; (Athens), III, b 10; (Byzantium), IV, b 547; (Canon), V, a 10; (Christianity), a 603, b 605, a 606; (Constantinople), VI, b 269-70; (Creeds), b 495; (Donatists), VII, b 311; (England, Church of), VIII, a 332; (Festivals), IX, b 102; (France), b 466; (Greece), XI, a b 99, a 100, a 101; (Hosius), XII, a 314; (Inquisition), XIII, b 98; (Israel), a 440; (Libraries), XIV, b 511; (Licinius), a b 567; (Milton), XVI, b 346; (Popedom), XIX, a 505 note, b 507; (Roman Law), XX, b 729, a b 730; (Rome), b 595, a b 796, b 797, a 798; (Slavery), XXII, a 143, a 144; (Sofia), b 259; (Sylvester I.), a 81; (Treves), XXIII, b 587; (York), XXIV, b 789
——, Basilica of, III, a 357
——, *Constitution of* (Sunday), XXII, a 689
——, Font of (Architecture), II, a 408
——, Hall of, Vatican (Pippi), XIX, b 121
——, Labarum of (Halo), XI, b 356
—— II., Claudius Flavius Julius, emperor (Rome), XX, b 796
—— III., emperor (Alexandria), I, a 437
—— IV., emperor (Mohammedanism), XVI, a 590; (Vitalianus), XXIV, b 281
—— V., Copronymus, emperor (Greece), XI, b 102, b 103, b 104; (Image Worship), XII, b 751; (Papyrus), XVIII, a 237
—— VI., emperor (Irene), XIII, b 280-1
CONSTANTINE VII., Porphyrogenitus, emperor, VI, a 269; (Byzantine Historians), IV, b 544; (Greece), XI, b 129, a 130; (Mohammedanism), XVI, a 603; (Roman Law), XX, b 734
—— IX., emperor (Romanus), XX, b 749, note
—— XI., Ducas, emperor (Isaac I.), XIII, b 384
—— XII., emperor (Greece), XI, b 107
—— XIII., emperor (Palæologus), XVIII, a 170; (Turkey), XXIII, b 683
Constantine I., king of Scotland, XXI, b 500
—— II., king of Scotland, XXI, a b 501; (Ireland), XIII, b 258
CONSTANTINE of Spain, emperor, VI, a 269
—— or Cyril, Slavic missionary (Methodius), XVI, a 202
CONSTANTINE PAVLOVICH, of Russia, grand-duke, VI, a b 269; (Nicholas I.), XVII, b 498, a 499; (Poland), XIX, a b 310; (Russia), XXI, b 109
—— of Harrân, bishop (Syriac Literature), XXII, a 884
—— Mac Fergus, Pictish king (Scotland), XXI, a 499
—— of Mananalis, sectary (Paulicians), XVIII, b 444
Constantine Sylvanus, sectary. See Sylvanus
Constantinian indiction (Chronology), V, a 622
CONSTANTINOPLE (Map), VI, b 269-75
  bridges, a 274
  Constantine's work, a 270
  Galata and Pera, a 273-4
  history, b 274-5
  miscellaneous features, a b 274
  modern city, a 271-3
  mosques, b 272-3
  palaces, imperial, a 271
  St. Sophia (Plan), b 271-2
  topography and origin, b 269-70
  walls, a 270-1

——

—— (Aqueduct) (Plate III), II, a b 193; (Byzantium), IV, b 546, b 547; (Cemetery), V, b 288; (Constantine I.), VI, b 267; (Libraries), XIV, b 511, 513; (Michael VIII.), XVI, b 235; (Mohammedanism), a 590, b 596, a 597, a 603; (Mongols), a 775; (Montagu), b 793; (Newspapers), XVII, a 443; (Opium), a b 811, a 814; (Plague), XIX, a b 176, a b 177; (Popedom), XIX, a 505

Constantinople, Coffee houses at, VI, a 101
——, Councils of. See Council of Constantinople
——, era of (Chronology), V, a 620; indiction of (Chronology), a 622
——, fall of (Greece), XI, b 107-8; (Nicholas V.), XVII, a 498; (Russia), XXI, a 100; (Turkey), XXIII, a b 683
——, founding of (Greece), XI, b 99-100
Constantinople, History of Conquest of (Ramusio), XX, a 282
——, Latin conquests of (Crusades), VI, b 555-6; (Dandolo), a 707; (Villehardouin), XXIV, a *b* 247-8
——, patriarchate of (Greek Church), XI, a b 137-8, b 140-1
——, Russian captures of, XXI, *b* 96, a 97
Constantinus II., pope (Rome), XX, b 803
—— Brancovan voivode (Roumania), XXI, b 22-3
——, Cephalas, compiler (Anthology), II, a 92
—— of Africa, monk (Medicine), XV, b 816; (Universities), XXIII, a 888
—— Manasses, poet (Romance), XX, a 652
CONSTANTIUS I., Flavius Valerius or Chlorus, emperor, VI, a 275; (Constantine I.), *a* b 266, a 268, (Helena, Saint), XI, a 562; (Hilarius), *b* 726; (Paris), XVIII, a 293; (Rome), XX, *b* 795, note; (Scotland), XXI, b 494; (York), XXIV, b 789
—— II., emperor (Athanasius), II, b 725-6; (Felix II.), IX, b 58; (Gregory, Nazianzus), XI, b 160; (Julian), XIII, *a b* 778; (Liberius), XIV, a 508; (Persia), XVIII, a 620; (Rome), XX, b 796, a 797, note
Constant-pressure method (Pyrometer) (Ill.), XX, b 136-7
Constants, form of (Tides), XXIII, b 389-90, a 393; mathematical (Tables), a b 18; of strain (Mechanics), XV, a 701
"Constellation," frigate (Truxton), XXIII, a 946
Constellations, list of (Astronomy), II, b 714-5; names of (Dupuis), VII, b 475
Constituent Assembly, 1791 (France), IX, a 527; (Guillotine), XI, b 233; (Vergniaud), XXIV, b 178. See French Revolution
Constitutio Criminalis Carolina (Medical Jurisprudence), XV, a 793
—— *Valdemaria* (Schleswig-Holstein), XXI, a 433
CONSTITUTION AND CONSTITUTIONAL LAW, VI, a 275-6
—— of Andorre, II, b 18
—— of Argentine Republic, II, a b 432, a 435
—— of Austria, III, a b 120, a 121, b 122-3
—— of Belgium, III, b 445-6
—— of Bolivia, IV, b 15-6
—— of Brazil, IV, b 208-9, b 211-2
—— of Canada, IV, a 676, a b 689, b 690
—— of Carthage, V, a 142
—— of Chili, V, a 538
—— of Connecticut, VI, *a* 258
—— (Denmark), VII, a 72, b 74
——, ecclesiastical (Church History), V, a b 665
——, English (Cromwell), VI, a 533; (Delolme), VII, a 46; (George II.), X, a b 380; (England), VIII, b 234-5, b 265-9; (Peerage), XVIII, a b 472, b 473, a 474; (Rights, Bill of), XX, b 569-70; acts under the (Statute), XXII, b 487; *History of* (Hallam), XI, a b 351
—— of France, IX, b 528-9; (Guizot), XI, b 240; (Napoleon I.), XVII, a b 210, a 213; (Sieyes), XXII, *b* 51-2
—— of Geneva, X, b 134-5
—— of Germany, confederate, X, b 458-9
—— of Greece, XI, a b 112
—— of Hamburg, state, XI, b 360-1; city, b 365
—— of Hanover, XI, a b 409
—— of Holland, XII, b 67-8
—— of Hungary, XII, a 381, b 388
—— in Italy, XIII, a 498; (Charles Albert), V, *b* 368
—— mediæval forms of (Andorre), II, b 18; Aragonese (Spain), XXII, b 336-7; Castile (Spain), b 332-3; (Rome), XX, b 801-3; (Venice), XXIV, a b 154, a b 155
—— of Mexico, XVI, b 227, b 228, a 229, b 898-9; (Santa Ana), XXI, *b* 905
—— of New York, XVII, a 468
—— of Norway, XVII, a b 597
—— of Pennsylvania, proprietary (Penn), XVIII, a b 506, a 507, a 508
—— of Portugal (Miguel), XVI, a 302
—— of Prussia, XX, a 22-3; (Bunsen), IV, *a* 469
—— of Rome, Augustan, XX, b 787-91; Cæsar's, b 785-6; fourth century, b 795-6; mediæval, b 801-3; republican, b 773-9; Syllan, a 780-1
—— of Roumania, XXI, b 26
—— in Saxony, XXI, a b 371, b 374-5
—— of Sweden, XXII, b 781-2
——, Swiss forms of (Glarus), X, a b 567; (Soleure), XXII, a 264; (Switzerland), b 834-5; (Thurgau), XXIII, a b 352; (Veto), XXIV, b 224-5; (Zurich), a 871
—— of Templars, XXIII, a b 179
—— of United States, XXIII, a 797-800; (Adams), I, b 130; (Copyright), VI, b 323; (Franklin), IX, b 631; (Hamilton), XI, a 369; (Henry), a 603; (Lee), XIV, b 399; (Madison), XV, a 183-4; (Obligation), XVII, b 724; (Privilege), XIX, b 784-5; (Slavery), XXII, b 908; (Wilson), XXIV, b 904: amendments of (Republican Party), XX, b 906, a 907; (United States), XXIII, *b* 829, a b 830, *b* 832; (Women), XXIV, a 913; colonial theories of (United States), XXIII, a 784-5, a b 786; *Commentaries on* (Story), XXII, a 607, a b 929; Confederate States form (United States), XXIII, b 821; ratification of (United States), a b 800, b 802-3
——, West Jersey, proprietary (Penn), XVIII, b 504-5
—— of Würtemberg, XXIV, a b 737
——, ship (Stewart), XXII, b 928
Constitutional Convention, 1787 (Slavery), XXII, b 150; (United States), XXIII, b 795-6; (Washington), XXIV, b 410-11
—— government, XI, b 12-3, a 14, b 15; (Cabinet), IV, a b 550; (Hobbes), XII, a b 41; (United States), XXIII, b 781, a 784-5
—— Law (Canon Law), V, a 20. See CONSTITUTION
Constitutionalism (Germany), X, a 453-7; (Metternich), XVI, a b 209; (Prussia), XX, *a b* 16; Russia (Anna Ivanovna), II, a 54
Constitutional Union Party (Republican Party), XX, a 906; (United States), XXIII, a 821
Constitutiones de Foresta (Hunting), XII, b 409
Constitutionnel (Newspapers), XVII, *a* b 437, *a* b 438; (Sainte-Beuve), XXI, *b* 171
CONSTITUTION OF BODIES, VI, b 276-9; (Dalton), VI, b 692; formulæ in chemistry of, V, b 409, b 410, b 417
Constitution of Man (Combe), VI, a b 161
Constitutions, Apostolic (Decretals), VII, a 21
—— of Justinian I., XIII, a 802, *b* 803
—— *of Clarendon* (À Becket), I, b 36; (England), VIII, b 274-5, b 276, b 298; (England, Church of), a b 334
——, State (United States), XXIII, a b 789
Constraint (Mechanics), XV, b 684, b 685-6; by curve (Mechanics), b 712-4; varying (Mechanics), b 720-1, a 743
Constructio (Napier, J.), XVII, *b* 186, notes, *b* 188, b 190, b 191, *a* 192
Construction (Railway) (Ill.), XX, a 240-8, a b 264; (Roads and Streets), b 597-604
——, Greek dramatic (Sophocles), XXII, a b 286
——, historical (Church History), V, a b 667
——, legal (Statute), XXII, b 486-7
——, principles of (Building), IV, *a* 400-9
Constructive pardon, XVIII, a 277; Trust, XXIII, b 634
Constructiveness, organ of (Phrenology), XVIII, b 859
Consubstantiation, doctrine (Eucharist), VIII, a 574; (Luther), XV, b 82-3; (Lutherans), b 86; (Occam), XVII, a 739
CONSUEGRA, town, VI, a 279
Consuetudinary law (Roman Law), XX, a b 716
CONSUL, chief magistrate, VI, a 279-80; (Army), II, a 493; (Italy), XIII, b 482, b 484, a 487; (Quæstor), XX, *a* 152; (Prætor), XIX, b 675, a 676; (Province), b 910; imperial (Augustus), III, b 70; jurisdiction of (Roman Law), XX, a 728; year of the (Chronology), V, b 618. See Consulate
CONSUL, commercial officer, VI, b 280-2; (International Law), XIII, b 199; (Wreck), XXIV, a 723; *General Instructions to British*, VI, b 281; of the United States (Press Laws), XIX, b 731
Consular courts (Egypt), VII, a 628, b 665; (Shanghai), XXI, b 808, *a* 809
Consulat et l'Empire (Thiers), XXIII, a 324
Consulate, French (France), IX, b 539-42; (Napoleon I.), XVII, b 209, a 210, a 212, a b 213
——, Roman imperial (Justinian I.), XIII, b 804; (Rome), XX, b 788, a b 789, notes; mediæval (Rome), a 803, a 805, b 809; (Roman Law), a 697, a 704; (Rome), b 754, *b* 755, b 756, *a* b 757
CONSULATE OF THE SEA or *Consolato del Mare*, book, VI, a 282-3; (Sea Laws), XXI, a 612; (Prize), XIX, a 786
"Consulta," Roman (Pius IX.), XIX, a 167
Consultatio Jurisconsulti veteris (Roman Law), XX, b 731
Consultation of Hermann (England, Church of), VIII, a *b* 339, a 340
Consumer and producer (Protection), XIX, a 935; (Wealth), XXIV, a 488
Consumption, disease (Dietetics), VII, a 180; (Dyspepsia), a 507; (Egypt), b 609, b 610; (Insanity), XIII, b 107-8; (Iron, Therapeutics of), a 370; (Murrain), XVII, a 67; (Pathology), XVIII, b 415, b 416; (Phthisis), a 869-72
Consus, god (Jupiter), XIII, b 789
Contact force (Electricity), VIII, b 78-83; theory of (Electricity), a 14
——, rolling (Mechanics), XV, a 764-5
Contades, Louis George Érasme, marshal (France), IX, *b* 519, a 520
Contagion (Diphtheria), VII, b 217-18; (Dysentery), b 505; (Hooping-Cough),

Contagion, *continued* XII, b 157; (Leprosy), XIV, b 470; (Measles), XV, b 664–5; (Meningitis), XVI, b 15; (Murrain), XVII, b 67, a 68; (Mumps), a 29; (Ophthalmology), a b 802; (Pathology), XVIII, a 413; (Plague), XIX, a 172–3, a b 175, *b* 176; (Quarantine), XX, a b 163; (Scarlet Fever), XXI, a 393; (Schizomycetes), a b 417, b 424; (Small-pox), XXII, b 172; (Typhus Fever), XXIII, b 718–9, a 720; (Veterinary Science), XXIV, b 218–20
"Contagious Animals' Diseases Act" (Agriculture), I, b 271
—— Diseases Act (Army), II, b 511; (Police), XIX, b 352
Contango, stock term (Account), I, a 87
——, Andrea, doge (Venice), XXIV, a 156
——, Ambrogio, ambassador (Persia), XVIII, b 644
——, Francesco, procurator (Ramusio), XX, a 282
——, Gasparo, cardinal (Trent, Council of), XXIII, b 578, *a* 579
——, Simone, Il Pesarese, painter (Reni), XX, b 409
Conté, Nicolas Jacques, painter (Pencil), XVIII, b 500
Contemplations upon the New Testament (Hall, Joseph), XI, a b 348
Contemporaneous fossils defined (Geology), X, b 285
Contemporary Review (Alford), I, b 446
CONTEMPT OF COURT, VI, a 283–4; (Attachment); III, *b* 45; (Monition), XVI, a 778; (Parliament), XVIII, a 317; (Press Laws), XIX, b 730; (Summary Jurisdiction), XXII, a b 675
—— of Parliament, XVIII, b 316; (Perjury), a 560
Contempt of the World (Hymns), XII, b 618
Contention between the two Famous Houses of York and Lancaster, the (Marlowe), XV, b 564
Contes (La Fontaine), XIV, a *b* 205, a 206–7
—— *Drolatiques* (Balzac), III, *a* 263
—— *Moraux* (Marmontel), XV, a 566
Contí, Abbé (Newton), XVII, b 459, a 460
——, Armand de Bourbon, prince of, VI, a 284; (Condé the Great), a b 219; (Molière), XVI, a 647, b 648, a 649
——, François Louis de Bourbon, prince of, VI, b 284; (Augustus II.), III, a 74; (Polignac), XIX, b 357
——, popes. See INNOCENT III. and XIII., and VICTOR IV.
——, Louis François, prince of, VI, b 284
——, Nicolodi, traveller (Gaur), X, a 103; (Geography), b 160; (Ginger), b 538
Contiguity, association by (Psychology), XX, a b 65, b 86; law of (Hartley), XI, b 445
Continental Congress. See Congress, Continental
—— currency (United States), XXIII, a 790, b 791
—— System of Napoleon, XVII, a b 222; (Protection), XIX, b 937
Continentalist (Hamilton, A.), XI, a 369
Continents, origin of (Atlantic Ocean), III, a 16; weight of (Tides), XXIII, a 399
Contingency (Kant), XIII, b 864
Contingent Remainders, XX, b 384, note
—— values (Annuities), II, b 68, b 74, a 75
Contingents of German Army, II, b 519, a b 520
"Continual Claim" (Possession), XIX, b 577
Continued fraction computation (Tides), XXIII, a 383, a b 384
—— fractions (Algebra), I, a 492-3
Continuity of bodies (Atom), III, a *b* 33, b 34–5
—— equation (Hydromechanics), XII, a b 462, a b 466; (Tides), XXIII, a b 381; principle of (Hydromechanics), XII, b 481–2
——, philosophical (Heraclitus), XI, b 607; (Herbart), a 643; (Leibnitz), XIV, b 421
Continuous Annuities, II, a 77
—— girder (Bridges), IV, a 267-9
—— intrinsic thermoscopes (Heat) (Ill.), XI, a 500-14
Contour lines (Diagrams), VII, a 129; (Ivory), XIII, *b* 530; (Geography) (Ill.), X, a 188
Contouring, instrumental (Surveying), XXII, a b 748
CONTRABAND, VI, b 284-6; (Prize), XIX, b 786
Contrabass, instrument (Oboe), XVII, a 727
CONTRACT, VI, a 286–8; (Brehon Law), IV, *b* 226, a 227; (Company), VI, b 198; (Corporation), b 383; (Damages), b 693, a b 694, a 695; (Deed), VII, a 22; (Evidence), VIII, b 650; (Fraud), IX, a b 639; (Free Trade), b 661; (Government), XI, b 17; (Hiring), XII, a 3; (Hypothec), a 633; (Infant), XIII, b 3; (Injunction), b 85; (Innkeepers), b 88, a 89; (Insanity), a 119; (Interest), b 194–5; (Limitations), XIV, b 657; (Mandate), XV, a 479; (Marriage), a *b* 572, a 573, b 574; (Novation), XVII, b 618; (Sale), XXI, a b 216, b 217, b 219; (Settlement), XXI, *b* 726, note, b 728, a b 729; (Warranty), XXIV, a *b* 393; (Women), a b 909
——, ancient view of (Bankruptcy), III, b 294
——, breach of, regal period (Roman Law), XX, a b 692. See Breach of Contract
——, development of (Roman Law), XX, b 717–21
——, fire Insurance, XIII, b 170
——, illegal (Gaming), X, a b 61; (Sale), XXI, a b 218, a 220
——, increase of (Money), XVI, b 746
——, in jus civile (Roman Law), XX, b 710–3; in jus gentium, a b 716, b 717–21
——, life Insurance, XIII, a b 175, a b 186
——, marine Insurance, XIII, a b 192
—— of marriage. See Breach of Contract
——, parol (Sale), XXI, a 217, b 219
—— of Partnership, XVIII, b 335, a 336
—— per aes et libram (Roman Law), XX, a 695
——, real estate (Sale), XXI, b 216, *b* 219
——, service (Army), II, b 498, a 500; (Conspiracy), VI, a b 262; (Labor), XIV, b 170–1, note, a b 172, b 173, b 175; (Master and Servant), XV, a b 627; (Reformatories), XX, b 899-900, b 902, a 903; breach of (Trade Unions), XXIII, a 532
——, social. See *Contrat*
—— of States (International Law), XIII, b 199
—— of tenancy (Landlord and Tenant), XIV, b 274–8
——, validity of (Slavery), XXII, b 907; (Sunday), a 690, a 691
—— in war, private (International Law), XIII, b 200
Contractile substance (Physiology), XIX, a b 23
Contractility (Physiology), XIX, a 17, b 70; (Protoplasm), b 850; of capillaries (Vascular System), XXIV, b 877; of plants (Physiology), XIX, b 70
Contraction, jet (Hydromechanics), XII, a 483–5, a 491–2, b 493–4
—— of the sun (Nebular Theory), XVII, b 320
Contractions, verbal (Palæography), XVIII, b 168–9, b 170; in earliest printing (Typography), XXIII, b 729, b 730
Contracts, Doctrine of (Verplanck), XXIV, b 877
——, era of (Chronology), V, a 620, a 621
——, obligation of, in the United States, XXIII, a 834; (Obligation), XVII, b 724
Contradiction (Axiom), III, b 137, a 140; (Metaphysic), XVI, b 101
Contra Gentiles (Aquinas), II, a *b* 202
—— *Henricum regem Angliæ* (Luther), XV, a 79
Contraria contrariis, maxim (Homœopathy), XII, b 130
Contrast in Association of Ideas, II, b 641
Contrasti (Drama), VII, b 358, b 361
Contrasto, song (Italy), XIII, a 510
Contrat Social (France), IX, a 522; (Rousseau), XXI, a *b* 31, b 32
Contra Vigilantium of Jerome (Vigilantius), XXIV, *b* 242
Contrecoup, law of (Surgery), XXII, a 724
Contribution, commercial (Average), III, a b 129
—— policies (Insurance), XIII, a b 171
Contributory Negligence, XVII, a 325; (Tort), XXIII, b 483
Control department of British Army, II, a 502, b 509
—— drill (War), XXIV, b 375–6
Contubernium (Marriage), XV, b 575; (Slavery), XXII, b 140, a 141
Contusion, bruise (Surgery), XXII, b 715; joint (Surgery), b 716–7, b 720–1
Conubium. See Connubium
Conulariidæ, fossil (Mollusca), XVI, b 690
Conurus, genus (Parrot), XVIII, b 327, a 328
Conus arteriosus, organ (Ichthyology), XII, b 696
Convallaria, plants (Horticulture), XII, a 258
Convection (Diffusion), VII, a b 189; (Meteorology), XVI, a 121
——, atmospheric (Meteorology), XVI, b 181; currents (Meteorology), XVI, b 192
CONVECTION AND RADIATION, XX, b 219, a 223–4
——, solar (Meteorology), XVI, b 188
Convective discharge (Electricity), VIII, a 60
Convent (Chartreuse), V, b 376–7; Augustinas Recoletas (Salamanca), XXI, a 214; of Gray Friars (Preston), XIX, b 738; La Brang (Lamaism), XIV, b 229, a 230; Miraflores (Sculpture), XXI, *b* 593; Piazza Barberini (Capuchins), V, b 71; St. Anthony (Copts), VI, b 314; St. Mary Deipara (Libraries), XIV, a 515; St. Saviour, Bermondsey (London), b 854; Sts. Felix and Regula (Switzerland), XXII, a b 820; (Mexico), XVI, b 229; San Esteban (Salamanca), XXI, a 214, note; of Sta. Chiara, Naples (Giotto), X, a 545; Sta. Maria de las Huelgas (Burgos), IV, a 478; of the Virgin (Egypt), VII, a 672. See Convents
Conventicle Act (England), VIII, b 312; (Independents), XII, *a* 766; (Presbyterianism), XIX, *a* 710
Conventicles, suppression of (Presbyterianism), XIX, b 702, b 703; (Scotland), XXI, b 537, a *b* 538, a b 539
Convention of Cintra, 1808 (Wellington), XXIV, a 523
—— French. See National Convention of France
—— Parliament (Prynne), XX, a b 32; (Somers), XXII, *a* 270

Convention of Royal Burghs, Scotch (Borough), IV, a 57
Conventional language Philology), XVIII, a b 782, a b 783
Conventionalism (Drawing), VII, b 386–7
Conventions, international, duration of (Treaties), XXIII, a 565
——, political (United States), XXIII, b 812; (Whigs), XXIV, a 894
——, Women's Rights, XXIV, *a* 913
——. See Treaties and Peaces
Convents (Brahmanism), IV, b 189; (Carmel), V, b 102; (Dervish), VII, a 99; (Salzburg), XXI, b 252
——, Coptic (Egypt), VII, a 680; Lama (Lhasa), XIV, a b 499, a b 500; of Seville (Murillo), XVII, b 61, a *b* 62; suppression of (Italy), XIII, b 469–70
Conventual Churches (London), XIV, a 848
Conventuals, friars (Franciscans), IX, a 616
Convergency of infinite Series (Algebra), I, a b 495
CONVERSANO, city, VI, a 288
Conversation (Hall, Robert), XI, a 350; (Johnson, S.), XIII, b 736–7; (Macaulay), XV, b 127
Conversation de Hocquincourt avec Canaye (Saint-Évremond), XXI, a 177
Conversations at Hawthornden, XIII, b 753, a 756
Conversations-Lexicon (Brockhaus), IV, b 322, a 323
Conversazione, society (Helps), XI, a b 570
Conversion, law term (Trover), XXIII, b 626
—— of guns (Gun-making), XI, a 257; (Gunnery), a 274
—— of relief (Microscope), XVI, a 284, b 285
——, religious (Methodism), XVI, a 192, a b 193; (Paul), XVIII, a 426–7
Converters (Iron) (Ill.), XIII, a 353–4
Convex lens (Microscope), (Ill.), XVI, b 268, a b 269; (Spectacles), XXII, a b 387
Conveyance (Charter), V, a 375; (Gift), X, a 527; (Real Estate), XX, b 318, *a* 319, a b 320; (Sale), XXI, b 216–7, a 219; (Seisin), XXI, b 657; (Term), XXIII, b 205; (Trust), b 633, a b 634, *a* b 635; (Warranty), XXIV, b 393; Egyptian (Agriculture), I, a 260; forms of (Finance), IX, a b 153; in jus civile (Roman Law), XX, a 707–8; in Justinian code (Roman Law), a 733; by emancipation (Roman Law), b 693–4, b 695; real estate (Land), XIV, b 265; (Surrender), XXII, a 728
CONVEYANCING, VI, a b 288; (Barristers), III, a 340
——, Scotch (Burgage), IV, a 476
Convict agitation (Cape Colony), V, b 41
—— colony (Guiana), XI, b 225, a 226; (Juan Fernandez), XIII, b 768; (New Caledonia), XVII, b 386; (New South Wales), *b* 422; (Patagonia), XVIII, b 357
—— labor. See Labor, convict
—— scourger (Prison Discipline), XIX, b 770
Convito, poem (Dante), VI, b 716; (Italy), XIII, a 513
Conviviorum saturnaliorum (Macrobius), XV, a b 168
Convivium seu Lapithæ (Lucian), XV, b 46
CONVOCATION, VI, b 288–93
    bibliography, a 293
    constitution, b 288–9
    history, b 290–2
        first period, b 290
        Georgian period, b 291–2
        Revolution - Stuart period, b 291
        Tudor-Stuart period a b 291
        Victorian period, a b 292
    judicial features, a 290
    order of convening, b 292–3
    political features, b 289–90
Convocations (Archbishop), II, a 323; (Atterbury), III, b 48; (Cranmer), VI, b 486, a 487; (Ecclesiastical Law), VII, *a* 543; (Heresy), XI, a 660; (Parliament), XVIII, a 308, b 310
Convolulaceæ, order (Botany), IV, a 116, *a* 118
Convolutions of brain (Anatomy), I, *b* 766, *a b* 767, *b* 770, a 771, *a* b 772; (Phrenology), XVIII, b 860, a 861; relations to cranium of (Surgery), XXII, b 724–5
Convolvulin, extract (Jalap), XIII, b 556, note, a 557
Convolvulus, plant (Botany) (Ill.), IV, b 84, a 100, b 119, b 142; (Scammony), XXI, *a* 381
Convulsions, infantile (Pathology), XVIII, a b 400
CONWAY, town, VI, a b 293; valley (Carnarvon), V, *a* 105
——, Henry Seymour, general (Walpole), XXIV, b 354, a 355
——, Lady (Moore, Henry), XVI, a–b 841
——, Thomas, general (United States), XXIII, b 791, a 792; (Washington), XXIV, a 410
——, viscount, general (Lisburn), XIV, b 699
——, William Augustus, actor (Piozzi), XIX, a 119
Cony, animal. See Conies
CONYBEARE, John, bishop, VI, b 293
CONYBEARE, William Daniel, geologist, VI, b 293
——, William John, commentator, VI, b 293
Conze, Alexander Christian Leopold, archæologist (Imbros), XII, *b* 753; (Lemnos), XIV, *b* 437; (Samothrace), XXI, a 263
Coogee, village (Sydney), XXII, a 846
Cook mountain (New Zealand), XVII, b 479; (Canterbury), V, b 28
—— strait (New Zealand), XVII, a 480
——, Frederick Charles, canon (Egypt), VII, a 623, b 625
COOK, Capt. James, navigator, VI, a b 294; (Aleutian Islands), I, a 424; (Australia), III, b 90; (Banks), a 298; (Foster, J. G. A.), IX, a 369; (Geography), X, a b 169, *a* 170; (Hawaiian Islands), XI, *b* 471, b 472, b 473, a 475; (Hawkesworth), a 478; (Ichthyology), XII, a b 718; (Kangaroo), XIII, b 847; (New Zealand), XVII, b 484; (Oregon), a 849; (Polar Regions), XIX, a 331, b 341, *a* 342; (Sheathbill), XXI, b 818; (Sydney), XXII, a b 845; (Tahiti), XXIII, a 27, b 29, a 30
——, John, pirate (Buccaneers), IV, b 368
——, W., gamester (Billiards), III, *a* 585
Cooke, Thomas, optician (Telescope), XXIII, a 163–4; his illuminator (Micrometer) (Ill.), XVI, a b 253, a 258; his mounting (Telescope) (Ill.), XXIII, a 160, b 162, a b 163
——, William Fothergill, inventor (Telegraph), XXIII, b 120, a 121
COOKERY, VI, b 294–6; (Arabia), II, a 219; (Medical Jurisprudence), XV, b 792–3
Cooking Stoves, XXII, a 608
Cook's Inlet (Vancouver), XXIV, a 64
—— Islands, VI, b 294
—— spectroscope micrometer (Rainband), XX, b 268
Cooktown (Queensland), XX, a b 178, a 181
Cookworthy, William, potter (Pottery and Porcelain), XIX, a 661, *b* 662
Coolhas, Gaspard, theologian (Leyden), XIV, a 495
COOLIE, laborer, VI, b 296–8
    Chinese, b 296–7
    Hindustan, b 297–8
    origin of system, b 297
    treatment of, a b 298
—— (Assam), II, b 630; (Cuba), VI, b 603; (Guiana), XI, a b 222, *a* 224; (Hong-Kong), XII, a 146; (Japan), XIII, *b* 586 (Mauritius), XV, b 648; (Tamils), XXIII, b 46; (Trinidad), b 610
Cooling wort (Brewing), IV, a 245
COOMASSIE, city, VI, b 298; (Ashantee), II, *a* b 595, a 596
Coomptah, town. See KUMPTA
Cooper river (South Carolina), XXII, a 301
COOPER, Abraham, painter, VI, b 298–9
COOPER, Sir Astley Paston, surgeon, VI, a 299; (Veterinary Science), XXIV, a 215
COOPER, Charles Henry, historian, VI, a b 299; (Universities), XXIII, b 914
COOPER, James Fenimore, novelist, VI, b 299; (American Literature), I, b 631, a b 636
——, Peter, manufacturer (Patents), XVIII, a 879; (Steam-Engine), XXII, b 922–3; Institute of (New York), XVII, a b 479
——, Samuel, painter (Schools of Painting), XXI, b 460, a 464
COOPERAGE, VI, a b 300
COÖPERATION, VI, b 300–2; (Agriculture), I, a 369–70; (Communism), VI, b 191, b 194, a 195; (Government), XI, a 17; (Political Economy), XIX, b 393, a 395; (Russia), XXI, b 92; (Workingmen in U. S.), XXIV, b 920, a 921; associations for (Socialism), XXII, b 220, *b* 221, *a* 227, a b 229; banks (Workingmen in U. S.), XXIV, a 918, b 920; industries (Tver), XXIII; *a* 715
Coöperative newspaper lists (American Journalism), XVII, b 889–90
Cooper's creek (South Australia), XXII, b 297
—— *Hill* (Denman), VII, b 69
—— Observatory, Ireland, XVII, a 731
Coördinate constants (Comet), VI, b 170
Coördinates (Curve), VI, b 632, b 634–5; (Geometry), X, a 367, b 368–70, a b 373; (Measurement), XV, *a b* 667, *a* b 668, b 672; (Variable), XXIV, b 76
——, Cartesian (Mechanics), XV, a 685–6, b 688; curvilinear (Surface), XXII, *a* 706; generalized (Lagrange), XIV, a 211; (Mechanics), XV, b 685–6, b 734–6; Rodrigues's (Mechanics), b 700, b 738; surface (Geometry), X, a 374; transformation of (Geometry), b 370–1, b 375–6; (Surveying), XXII, a 743
Coords. See Kurds
COORG, district, VI, b 302–3; (India), XII, a 780, b 782, a 785, *b* 788; annexation of (India), a 846
Coornhert, Dirck Volckertsen, humanist. See CORNHERT
Corrup, coachbuilder's, tree (Western Australia), XXIV, a 536
Coos Bay (Oregon), XVII, b 846, b 848
Coosh Behar, state. See KUCH BEHAR
COOT, water-fowl, VI, a b 303; (Birds), III, *b* 635; (Scoter), XXI, b 491, note; Fulica (Birds), III, b 643
COOTE, Sir Eyre, general, VI, b 303–4; (Clive), a b 11; (Hastings), XI, *a* 460; (Hyder Ali), XII, b 443; (India), a 840, b 842
Cop, Nicholas, reformer (Calvin), IV, b 633
Copa, poem (Virgil), XXIV, *b* 269
Copaiba, Balsam of, III, a 253
Copais, lake (Bœotia), III, a 742; (Greece), XI, a 74, a 83
COPAL, resin, VI, a b 394; (Congo), a 236; (Forests), IX, *b* 359; fossil (Mineralogy), XVI, a b 447; Varnish, XXIV, *b* 99, a 100
Copaline (Mineralogy), XVI, a b 447; (Resins), XX, a 488

COPAN, town, VI, b 304; ruins at (America), I, a 609; (Yucatan), XXIV, b 796, a b 797
— valley (Honduras), XII, a 135
Cope, vestment (Costume), VI, b 409
—, Edward Drinker, naturalist (Geology), X, *b* 319, a 324; (Horse), XII, a 176; (Ichthyology), b 714 note; (Lemur), XIV, *b* 445; (Ornithology), XVIII, a 47; (Reptiles), XX, *a* b 451, b 455 note, b 457, a 478; (Siredon), XXII, *a b* 104, a 105; (Surveys), b 936, a 937, a 938; (Tortoise), XXIII, b 485; (Zoology), XXIV, *b* 924, *a b* 925, a 926
—, Sir John, soldier (Charles Edward), V, *b* 369
COPENHAGEN (Plan), VI, b 304-7 (Absalon), I, b 57; (Academy), a 71; (Denmark), VII, a *b* 71, a b 72, *a* 73, *b* 75, *a* 77, a 79, b 82; (Hanseatic League), XI, a 403; (Libraries), XIV, b 531, a b 551; (Newspapers), XVII, a 441; (Observatory), a 735; (Universities), XXIII, b 898, b 906
—, bombardment of, 1801 (France), IX, b 540; (Nelson), XVII, a 332; in 1807 (Canning), IV, b 714; (Gambier), X, a 55; (Londonderry), XIV, b 865
— Fields, market (London), XIV, *b* 837, a 838
Copepoda, group (Crustacea) (Ill.), VI, a 561, a 563 note, a 564, b 575-6, b 582, b 587, *a* b 588; (Parasitism), XVIII, a b 264
Copernican system (Aristarchus), II, a 444; (Astronomy) (Ill.), a b 657, a 680-1; (Galileo), X, b 29-30, a b 32; (Godwin, F.), a 638; (Pythagoras), XX, b 145
COPERNICUS, Nicolaus, astronomer, VI, a b 307; (Alchemy), I, b 406; (Astronomy), II, a 657, a 680; (Frauenburg), IX, a 640; (Galileo), X, b 30, *a* 32; (Money), XVI, b 764; (Moon), a 825, a b 826; (Poland), XIX, b 302, a 312; (Political Economy), b 369; (Trigonometry), XXIII, a 597
Coperta, glaze (Pottery and Porcelain), XIX, a 644
Copho, physician (Medicine), XV, a 816
Copiæ, town (Thurii), XXIII, b 352
Copiapite (Mineralogy), XVI, a b 418
COPIAPO, town, VI, a 308; (Atacama), II, a 723; (Chili), V, a 538, *b* 539, a 541
Coping (Architecture), II, a 406; (Building) (Ill.) (Plate XXI), IV, b 414-5, a 422
Copleston, Edward, bishop (Whately) XXIV, b 558, a 559
COPLEY, John Singleton, painter, VI, a 308
—, chancellor. See LYNDHURST
— medal (Royal Society), XXI, a 45
Cöpnick, town. See KOPENICK
Coppée's Coke oven (Ill.), VI, a 108
Coppenol, portrait (Rembrandt), XX, b 386
COPPER, metal, VI, a 308-12
  alloys, 311-2
  assaying, a b 312
  calcination, a b 309, a 311
  properties and ores, a b 308
  refining, a b 310
  roasting, b 309-10
  salts, a 312
  smelting, b 308-10
  wet processes, b 310-1

— (Africa), I, a 226, b 241; (Agordo), b 254; (America), a b 597; (Amlwch), a 648; (Austria), III, b 104, a 105; (Australia), a 95; (Bolivia), IV, 13-4; (Brazil), a 202; (Bronze), a *b* 330, a b 331; (California), b 622; (Cape Colony), V, b 38, a 45; (Chemistry), a 458, a b 459, a 465; (Cheshire), b 511; (China), b 555; (Chili), b 540; (Congo), VI, a 236; (Cornwall), a b 377; (Cuba), a 601; (Cumberland), b 617; (Cyprus), a 660; (Devonshire), VII, *b* 121; (England), VIII, b 207; (Falun), IX, a 17; (France), b 461; (Germany), X, b 408; (Græcia Magna), XI, a 28; (India), XII, b 804; (Ireland), XIII, a 224; (Italy), a 452; (Japan), a b 582; (Lead), XIV, b 376; (Mexico), XVI, b 908, a b 909; (Michigan), b 247-9; (Mineralogy) (Ill.), a 382, a 385, b 397, b 400, a 401, a 407, a 408, b 409, b 410, b 411, b 415-6, b 418-9, a 421, a b 423, b 428; (Missouri), a 549; (Namaqualand), XVII, b 174-5; (Newfoundland), a 394, b 395; (New Mexico), b 410; (New South Wales), b 419; (North Carolina), a 574, note; (Norway), a 592; (Ontario), b 796; (Perm), XVIII, b 562; (Philippine Islands), b 763; (Poland), XIX, b 319; (Prussia), XX, a 19; (Russia), XXI, b 93-4; (Saxony), b 375; (Silver), XXII, *b* 77, a b 78; (South Australia), b 298; (Spain), *b* 315, *a* 316; (United States), XXIII, a 853, b 863, a 864, b 868, a 869, a b 870; (Ural Mountains), XXIV, a 8, *a* 10; (Waterford), a 422; (Wisconsin), a 650
— action of light on (Photography), XVIII, a 853
— alloys, VI, b 311-2; (Phosphorus), XVIII, a 830
COPPERAS, VI, b 312-3; (Mineralogy), XVI, a 418; and lime vat (Dyeing), VII, a 499
Copper blende (Mineralogy), XVI, a 412
— bottoms, VI, a 310
—, carbonate of (Pigments), XIX, b 95
— coin (Money), XVI, b 749; British (Mint), b 505
— conductivity of (Heat), XI, a b 516, *b* 517, a b 518, a 523
— cyanide (Prussic Acid), XX, b 28
— diffusion through (Heat), XI, *b* 519, *a* 523
— in electrotyping (Typography), XXIII, a b 749
—, Elasticity of, VII, b 690, b 699, 708, *a* b 709
—, Engraving on, VIII, a 391-4; (Inscriptions), XIII, a 124, b 126; (Java), a 620; (Mantegna), XV, b 509
— Founding, IX, a 423; VI, b 308-10; (Swansea), XXII, a 771
— in Gold assaying, X, a 666
Copperhead Snake, XXII, b 210; (Pennsylvania), XVIII, a b 513; (Zoology), XXIV, b 924
Copper in Iron smelting, XIII, a b 290
— Lightning Conductor, XIV, b 640
Coppermine river (Hearnes), XI, b 492
— Mining, XVI, b 487, a b 489-92, a b 493
— -nickel (Mineralogy), XVI, a 409
Coppernin, a Dwarf, VII, b 490
Copperopolis, town (California), IV, b 622
Copper pigment, animal (Touraco), XXIII, b 518 note
Copperplate printing (Typography), XXIII, b 741-2
—, poisonous action of (Colic), VI, b 126; (Poisons), XIX, b 289-90
Copper-pyrites (Mineralogy), XVI, a 388, a 409
— roofing (Building), IV, a 451
— sheathing (Davy), VI, a b 745; (Navy), XVII, a b 295
—, spectra of (Spectroscopy), XXII, b 390
— sulphate (Sulphur), XXII, a 671
— wires (Telephone), XXIII, b 143
— work (Archæology), II, b 296, *a* b 297, b 298; (India), XII, b 801; (Metal Work), XVI, a 77, b 78, b 83
Coppice. See Copse
Coppola, Carlo, painter (Falcone, A.), IX, b 5
Copra, food (Polynesia), XIX, a 433
COPROLITES, VI, a 313-4; (Agriculture), I, a 310, b 338; (Ichthyosaurus), XII, b 734; (Phosphorus), XVIII, a 831
Copronymus, emperor. See Constantine V.
Copse or coppice (Arboriculture), II, a 279
Coptic church (Fasting), IX, a 43; (Festivals), a 103; Liturgies of, XIV, a 713; monastery of (Abbey) (Ill.) I, a 18: vestments in (Textiles), XXIII, a 226
— language (Dictionaries), VII, a 167; (Egypt), a *b* 625; (Hieroglyphics), XI, a 709, *a* b 710-5; (Hottentots), XII, a b 326; manuscripts, Vatican (Libraries), XIV, b 528
— printing (Typography), XXIII, b 740
— rite (Roman Catholic Church), XX, a 647
COPTOS or Kuft, town, VI, a 314; (Egypt), VII, b 673
COPTS, race, VI, a 314-5; (Africa), I, a b 233, *b* 238; (Egypt), VII, b 616, a 617, b 619, b 626, b 648, a b 649, a 651; (Greek Church), XI, a 139, a 142; (Mosaic), XVI, a 882
Copula (Grammar), XI, b 38
Copulation (Dragon-fly), VII, b 334; (Hymenoptera), XII, b 608-9; (Reproduction), XX, a 422; (Reptiles) (Ill.), b 476-7; reciprocal (Trematoda), XXIII, b 573-4. See Reproductive System, Sexual Organs
"Copy" (Typography), XXIII, a 747
COPYHOLD, VI, b 315-6; (Land), XIV, a 265, a 270; (Law), a b 363; (Inheritance), XIII, b 84; (Primogeniture), XIX, a b 754; (Surrender), XXII, a 728
Copyholders, tenants (Commons), VI, b 186, a 187
Copying (Graduation), XI, a 27
— Ink, XIII, a 87
— machines (Mechanics), XV, b 781
— press, (Watt), XXIV, a 436
COPYRIGHT, VI, a 316-25
  Act of Queen Anne, b 316-7
  colonial, b 321-2
  defects of, b 322-3
  designs, a 323
  European, a b 323
  existing law, b 317-8
  foreigners, a b 321
  international, a 322
  legislative history, b 316-9
  Macaulay's opposition, a 318-9
  matter covered by, a b 319, a 323
  nature of, a b 316
  newspapers, b 320-1
  perpetual, b 320
  piracy, b 319-20
  stage right, a b 320
  United States, b 323-5
    stage-right, a 325

— (Book), IV, a 35, a 36; (Heresy), XI, b 659; (Ireland), XIII, a 276; (Libraries), XIV, *b* 514, a 535, a 542; (Press Laws), XIX, b 729, a 730, a 731
— international (American Literature), I, b 631; (Ancelat), II, b 4; (Talfourd), XXIII, a b 34
— in United States, VI, b 323-5; (Newspapers), XVII, b 447; (Protection), XIX, a 227-32
COQUEREL, Athanase Josué, divine, VI, b 325-6
COQUEREL, Athanase Laurent Charles, divine, VI, a 326
COQUES or Cocx, Gonzalez, painter, VI, a 326
"Coquette," schooner (Yachting), XXIV, a 759
Coquilla Nut, XVII, b 683, a 684

Coquillart, Guillaume, poet (France), IX, b 570
Coquille expedition (Duperrey), VII, a 473
Coquimbite (Mineralogy), XVI, a 418
Coquimbo, province and town (Chili), V, *a* b 535, a *b* 536, a 538, b 539, a *b* 540, a 541, a b 542
Coquina, stone (St. Augustine), XXI, a 167
Cor anglais, instrument (Oboe), XVII, b 726
CORA or Cori, city, VI, b 326; (Latium), XIV, a 345
——, myth of (Mysteries), XVII, a b 134, a 135
Coracesium, fortress (Cilicia), V, b 678
Coracias, genus (Roller), XX, *a* 643
Coracinus, fish (Galilee), X, b 27
Coracle, boat (Rowing), XXI, a b 35
Coracoid bone (Anatomy), I, a 725, *b* 729, a 730; region (Skeleton), XXII, a *b* 125, b 126
Coracomorphæ (Birds), III, a 617, b 619, b 620, note, b 624, a 630
Corahs, handkerchiefs (India), XII, a 801
Corais, Adamantios, scholar (Greece), XI, b 121, a b 132, *a* b 134
Coral. See CORALS
—— fishes (Ichthyology), XII, a 718, a 719, a 727; fisheries (Italy), XIII, b 464, a 465
—— islands (Polynesia), XIX, *a* b 432, b 433–4, a 435; (Solomon Islands), XXII, b 265; subsidence of (Geology), X, a b 229; theory of (Pacific Ocean), XVIII, b 132–3
—— Reefs, VI, b 334–6; (Bahamas), III, b 203; (Brazil), IV, a 201; (Distribution), VII, a b 241; (Geology), X, b 257; (Laccadives), XIV, b 183; (Maldive Islands), XV, b 330; (Red Sea), XX, *a* 329; (West Indies), XXIV, b 539
—— rock (Geology), X, b 213; sea (Pacific Ocean), XVIII, a 123
Coralligena, sub-division (Actinozoa), I, a 120–1; (Hydrozoa), XII, b 581
Corallin (Coal Tar Colors), XVIII, a 905; dye (Carbolic Acid), V, b 76
Coralline mud and sand (Pacific Ocean), XVIII, a 126, a b 128; oolite (Geology), X, a 314, a 316; pliocene rocks (Geology), *b* 323; Wenlock limestone (Geology), b 296, a 297
Corallineæ, plants (Reproduction), XX, a 438
Corallites, polyps (Corals), VI, b 330–1
Corallium rubrum, species (Corals) (Ill.), VI, a 342, a 343, a 344
Corallum, calcareous formation (Corals), VI, *b* 329–33, *b* 337–43
CORALS (Ill.), VI, b 326–44
  ALCYONARIA (Ill.), a 341–3
    Alcyonidæ, a b 341

CORALS, *continued*
  ALCYONARIA
    distribution, a 343
    Gorgonidæ, a b 342
    Helioporidæ (Ill.), b 342–3
    Pennatulidæ (Ill.), b 341–2
    Tubiporidæ (Ill.), b 341
  bibliography, a 343–4
  definitions, b 326–7
  industrial uses, a b 344
  RUGOSA (Ill.), b 337–41
    affinities, b 339–40
    classification, a b 340
    compound corallum, a 338–9
    distribution, b 340–1
    septal structure, a b 339
    simple corallum, b 337–8
  ZOANTHARIA (Ill.), a 327–37
    Aporosa, a 333
    compound coralla, Madreporaria, a 331–3
    distribution of Sclerodermata, b 336–7
    external structure of Sea-Anemone, a 327–8
    gemmation and fission, Madreporaria, b 330–1
    internal organs, Sea-Anemone, a 328–9
    Perforata, a b 333
    reef-building (Ill.), b 334–6
    reproduction, Sea-Anemone, a 329
    Sclerobasica or black corals, a b 329
    Sclerodermata or Madreporaria (Ill.), b 329–34
    septal structure of Sclerodermata, b 331–2
    structure of simple Madreporaria, b 329–30
    Tabulata (Ill.), b 333–4
    Tubulosa (Ill.), b 334

—— (Actinozoa), I, b 119, a 120, a 121; fossil (Distribution), VII, a 245; (Foraminifera), IX, b 339, a 340; (Hydrozoa) (Ill.), XII, b 597–8; (Kentucky), XIV, *a* 44
——, parasites of (Parasitism), XVIII, b 267
CORAM, Thomas, philanthropist, VI, b 344; (Foundling Hospitals), IX, a b 427
Corangamite, lake (Victoria), XXIV, a 233
Coraniaid, tribe (Celtic Literature), V, a b 261
Corantyn river (Guiana), XI, a *b* 221, *b* 223
Corario, or Corraro, Angelo. See pope GREGORY XII.
Corax, mount (Greece), XI, a 74; (Ionia), XIII, b 210–4
—— of Syracuse, rhetorician (Greece), XI, a 127; (Rhetoric), XX, a b 523; (Sophists), XXII, a 278, b 280
CORAY, Adamantius, scholar, VI, b 344
Corazon, mountain (Ecuador), VII, a b 559–60
Corbacho (Spain), XXII, a 370
Corban or sacred treasury (Pilate), XIX, a 98
Corbaux's tables, Francis (Annuities), II, b 66, a 67
CORBEIL, town, VI, b 344; (Seine-et-Oise), XXI, *b* 656
Corbel (Architecture), II, a 406, b 414
Corbie, monastery, Picardy, XIV, a 513
—— steps, gable (Architecture), II, a 406, b 408
Corbières, mountains (France), IX, b 445; (Pyrenees), XX, a 131, a 132, *a* 134
Corbilo, town (St. Nazaire), XXI, b 196–7
Corbin, Hannah Lee, suffragist (Women), XXIV, b 911
Corbueil, poet. See VILLON, Francis
Corbularia, plants (Horticulture), XII, b 265
Corbulo, Cnæus, Domitius general (Belisarius), III, b 462; (Nero), XVII, b 359, a 360; (Persia), XVIII, a b 613 note
Corcasses, meadows (Clare), V, a 701
Corchorus, plant (Gunny), XI, b 281; (Hemp), b 577; (Jute) (Ill.), XIII, *a b* 808
Corcobado, volcano (Chili), V, a 535; island (Peru), XVIII, b 684
Corcoran Art Gallery (Smithsonian), XXII, b 914
Corcorax, species (Crow), VI, a 546
Corcule of barley (Brewing), IV, *b* 238
Corcyra, city and island (Corinth), VI, a b 353; (Greece), XI, a 86; (Numismatics), XVII, a 658; (Periander), XVIII, b 539. See CORFU
Cord, flexible, kinetics of (Mechanics), XV, a 749–51; statics of (Mechanics), XV, b 746–9. See Cords
Cordage (Fibres, Textile), IX, *b* 116; (Rope), XX, b 865–9
Cordaitaceæ, fossil (Vegetable Kingdom), XXIV, b 142
CORDAY D'ARMANS, Charlotte, heroine, VI, b 344; (Corneille), a 371; (France), IX, b 533; (Guillotine), XI, a 234; (Marat), XV, a 535
Cordelia, Lear's daughter (Celtic Literature), V, b 279
CORDELIERS, monastic order and club, VI, b 345; (Danton), a 718; (France), IX, b 530
CORDERIUS or Cordier, Mathurin, teacher, VI, b 345; (Calvin), IV, a 632; (Shakespeare), XXI, b 787
Cordevole valleys dialect (Italy), XIII, *b* 502
Cordials (Liqueurs), XIV, a 693
Cordier, Pierre Louis Antoine, geologist (Geology), X, b 225
Cordière, poetess. See Labé, Louise
Cordierite (Mineralogy) (Ill.), XVI, a 436
Cordillera of the Coast (America), I, a 589
—— Grande of Govaz (Brazil), IV, b 199, b 200
—— Negra (Peru), XVIII, a 684, b 685
—— Nevada, mountains (Peru), XVIII, b 685
—— of Parimé (America), I, b 589
—— Real (Bolivia), IV, b 11, a 12, a 13
—— de Zambales (Philippine Islands), XVIII, b 765
Cordilleran coal-field (United States), XXIII, a 865; (United States), a 861–2; mountain-system (United States), a 846–52; region, climate (United States), a *b* 855
Cordilleras, mountain-ranges (America), I, b 595
—— of the Andes, II, a 16; (Ecuador), VII, b 558–9; (Peru), XVIII, a b 685
—— of Australia, III, b 93; (New South Wales), XVII, b 418
—— of Honduras, XII, a b 133
—— of Mexico, XVI, b 223, a b 224
—— of Paraguay, XVIII, b 247–8
Cordillot and Mather's steam chest (Calico-Printing) (Ill.), IV, a 613
Cord-moss (Botany) (Ill.), IV, a 147
Cordoba, city. See CORDOVA
Cordon (Fortification), IX, b 393
—— apple trees (Horticulture), XII, a 279
—— pruning (Horticulture), XII, a 248
Cordonnet (Lace), XIV, a 186
Cordouan lighthouse (Garonne), X, a 75
CORDOVA or Cordoba, Argentine Republic, VI, b 346; II, b 430, a *b* 431, b 434
CORDOVA, Mexico, VI, b 346
CORDOVA, Spain (Plan), VI, b 345–6; (Arabian Philosophy), II, a 235; (Libraries), XIV, b 513, note
——, caliphate (Abbassides), I, b 15; (Alphonso V.), a 541; (Mohammedanism), XVI, b 600; (Spain), XXII, b 326, a 327–30
——, *Fuero de* (Salic Law), XXI, b 226; Mosque of, XVI, b 891, a 892; revolt against Al-hakam (Spain), XXII, b 325
——, province (Spain), XXII, *a* 310, b 312, *b* 315, b 316
Cords, connecting (Mechanics), XV, b 769; friction of (Mechanics), a b 777; reduplication of (Mechanics), b 772
Corduba, city. See CORDOVA
Cordula, St. (Ursula), XXIV, a 18
Cordulina, insects (Dragonfly), VII, b 333, a b 336
Corduríé-Karsten process (Lead), XIV, a b 377
Cordus, Cremutius, annalist (Livy), XIV, b 731

Cordus, Valerius, botanist (Pharmacopœia), XVIII, a 744
Cordylophora, genus (Biology), III, a b 595; (Hydrozoa), XII, b 580, a 587
Core (Magnetism), XV, b 254–5; demagnetization of (Magnetism), XV, b 261 note
—— for casting (Metalwork), XVI, a b 78, b 79
COREA, kingdom (Map), VI, b 346–50
  history, a b 350
  language, b 348–9
  literature, b 350
  physical features, b 346–7
  political features, a b 348
  productions, b 347–8
  social and moral features, a 349–50

—— (China), V, b 557, b 560, a *b* 563; (Fire), IX, b 198; (Japan), XIII, a b 594; (Numismatics), XVII, a 680; Catholic missions in (Propaganda), XIX, a 833
Corean language (Dictionaries), VII, a 167; (Typography), XXIII, b 724; (Ural Altaic), XXIV, b 5, a 7
Coregonus, fish (Gwyniad), XI, b 309; (Ichthyology), XII, a 707; (Salmonidæ), XXI, a 232, a b 234, a 236, a 237; (Vendace), XXIV, a 149
Corelli, Antonio, musician (Music), XVII, b 100
CORELLI, Arcangelo, composer, VI, b 350
Corellinæ, group (Tunicata), XXIII, b 656
Corentin, St., bishop (Quimper), XX, b 187, a 188
CORENZIO, Belisario, painter, VI, b 350–1
Coreopsis, plant (Horticulture), XII, a 258
Coressia or Coressus, city (Ceos), V, b 298; (Numismatics), XVII, b 661
CORFU, island, VI, a 351–2; (Cypress), a 658; (Ionian Islands), XIII, b 211, *a b* 212, *a* 213; (Judas Iscariot), a 771; (Pellagra), XVIII, a 487, a 488; (Sicily), XXII, *b* 31. See Corcyra
——, city, VI, a 352; (Greece), XI, b 76, a b 77, a 78, a b 80; (Libraries), XIV, a 552; (Weights and Measures), XXIV, b 513, a b 514
CORIANDER, plant, VI, a 352; (Horticulture), XII, a 302
Coriandoli, pellets (Carnival), V, a b 109
Coriara, plant (Botany) (Ill.), IV, a 99
CORIGLIANO, town, VI, a 352
Corlin (Leather), XIV, a 381
Corinæus the Trojan (Plymouth), XIX, a 249
Coring (Building), IV, b 407–8
CORINGA, town, VI, a b 352
CORINNA, poetess, VI, b 352; (Greece), XI, a 118; (Ovid), XVIII, b 82–3; (Pindar), XIX, a 107
Corinne, novel (Stael), XXII, a 458, *a* 459
CORINTH, city, VI, b 352–4; (Commerce), b 178; (Corfu), b 351; (Dog), VII, b 282; (Dorians), *b* 318; (Eubœa), VIII, a 570; (Fountain), IX, a 428; (Greece), XI, b 74, b 79, b 84, a 85, b 96, a 97; (Numismatics), XVII, a b 659; (Paul), XVIII, b 429 note, b 430, b 431, a 432; (Rome), XX, a 771, b 772; (Slavery), XXII, *b* 138; (Timoleon), XXIII, a b 423; (Weights and Measures), XXIV, b 514
——, Mississippi, battle of, 1862 (Grant), XXIII, a 838; (United States), a 825
Corinthian art (Archæology), II, a b 304, b 308; Bronze, IV, b 331–2; Church (Apollos), II, a 166; dialect (Greece), XI, *a* 119; Greek Architecture (Plate XII), II, b 356–7, b 358; (Callimachus), IV, a 628; Roman Architecture (Plates XIV, XV, XXIV), II, b 363, a b 364–5, b 382, *b* 384; war (Greece), XI, b 92
CORINTHIANS, *Epistles to*, VI, b 354–6; (Apostolic Fathers), II, *b* 171; *Second Epistle to the* (Philippians), XVIII, b 761
Corinto, port (Leon, Nic.), XIV, b 455; (Realejo), XX, b 317
CORIOLANUS, Caius Marcius, soldier, VI, b 356
Coriolanus, play (Kemble, J. P.), XIV, b 32–3; (Shakespeare), XXI, b 800, a 805
CORIOLI, city, VI, b 356
Coritani, race (Celtic Literature), V, *a* b 261; (Northampton), XVII, a 570
Corium (Anatomy), I, *b* 743; (Leather), XIV, a 381
CORK, bark, VI, b 356–7; (Botany), IV, a 79, *a* 91; (Elasticity), VII, b 694, a 695, b 699; (Forests), IX, a 359; (Linoleum), XIV, a b 682, a 683; cambium (Histology), XII, b 16, b 17, a 20
—— cells (Histology), XII, a b 20
—— Convent of Santa Cruz (Cintra), V, b 687
—— oak (Botany), IV, *a* b 91; (Landes), XIV, *a* 273; (Leather), b 381; (Morocco), XVI, b 859; (Spain), XXII, b 311
——, rock (Mineralogy), XVI, b 435
CORK, county, VI, b 357–9
  history, a b 359
  physical features, b 357–8
  political features, b 358–9
  productions, a b 358

—— dairy farms in (Ireland), XIII, b 231–2
CORK, city (Plan), VI, b 359–60; (Ireland), XIII, b 242, a 243, *b* 244; (Libraries), XIV, a 523, a 543; (Observatory), XVII, a 731; Queen's college (Universities), XXIII, *b* 911
—— Harbor Water Club (Yachting), XXIV, b 758
——, earls of (Boyle), IV, a *b* 166; VI, a 359. See BOYLE
Corkwing, fish (Wrasse), XXIV, a 722
Corlear treaty, 1617 (New York), XVII, a 466
CORLEONE, town, VI, a 361
Corliss engine (Steam-Engine) (Ill.), XXII, b 506, b 508, b 528, b 531, a b 532, a 539, a b 921, a 922; indicator diagram (Steam-Engine), XXII, b 511–2
Corm of plants (Botany) (Ill.), IV, b 87–8; (Morphology), XVI, b 872
Cormac, discoverer (Ireland), XIII, a 255; (Scotland), XXI, a 497
—— of Cashel, king and bishop (Beltane), III, a 478; (Celtic Literature), V, b 263, b 266; (Dictionary), VII, a 163; (Ireland), XIII, *b* 251–2
—— Cas (Ireland), XIII, b 258
Cormac's chapel (Architecture), II, a 376; (Cashel), V, a 153
CORMENIN, Louis Marie, jurist, VI, a b 361
CORMONTAIGNE, Louis de, engineer, VI, b 361; (Fortification), IX, b 390, a b 394
Cormophyta, division (Biology), III, b 600–2; (Botany), IV, b 81; (Morphology), XVI, b 872
CORMORANT, sea-fowl, VI, b 361–2; (Birds), III, b 617, *a* 618, b 622, b 633
Corn, Indian. See MAIZE
Cornalia, corpuscles of (Silk), XXII, *b* 65
Cornarius or Hagenbutt, Janus, physician (Medicine), XV, b 817
Cornaro, Catharine, queen (Cyprus), VI, a b 661
CORNARO, Luigi, centenarian, VI, b 369; (Building), IV, a 447; (Dietetics), VII, a 184
——, Vincenzo, poet (Greece), XI, a 134
Cornay, Joseph Émile, naturalist (Ornithology), XVIII, a b 33, b 39
Cornbrash rocks (Geology), X, a b 315; (Gloucester), a 614
Corn-bruiser (Agriculture), I, b 290
Corn in Commerce, VI, b 177
Cornbury, Edward Hyde, Lord, governor (New Jersey), XVII, b 408
Corn-Crake, bird, VI, a b 481; (Rail), XX, b 229
Cornea of the eye (Anatomy), I, *a* b 778, a 782; (Crustacea), VI, b 563; (Ophthalmology), XVII, b 802–3; of dibranchiata (Mollusca), XVI, b 706; inflammation of (Pathology), XVIII, a 410
Corneille, Mont (Puy, Le), XX, b 124
CORNEILLE, Pierre, dramatist, VI, a 370–3
  bibliography, a 373
  biography, a 370–1
CORNEILLE, *continued*
  character and fame, a b 371
  plays, a 372–3
  style, b 371–2

—— (Academy), I, b 72; (Drama), VII, b 364, a b 367; (France), IX, a 507, a 579; (Mazarin), XV, a 660; (Molière), XVI, a 649, a 651, a 652; (Racine), XX, b 212, a *b* 213, a 214, b 215, *a* 216; (Rotrou), XXI, *b* 12–3
CORNEILLE, Thomas, poet, VI, a b 373; (Corneille, Pierre), a 371; (Encyclopædia), VIII, b 177; (France), IX, a 507, b 579; (Racine), XX, a 215
——, Saint, monastery (Compiègne), VI, a 204
Cornel, plant (United States), XXIII, b 860
CORNELIA, VI, b 373
Cornelian cherry (Dogwood), VII, a b 297
—— gens, tombs of (Rome), XX, a 852
—— Law (Slavery), XXII, b 140
Corneliano, town (Genoa), X, b 141
Cornelius, Doctor, pseudonym (Howitt), XII, b 338
——, Lucius Dolabella, consul (Rome), XX, a 762
CORNELIUS, Peter von, painter, VI, b 373–4; (Dyce, W.), VII, b 492; (Munich), XVII, a 30, a 31; (Overbeck), XVIII, b 80
Cornell University, XXIII, a b 956, a b 959, *a* 961, a b 962; (Ithaca, N. Y.), XIII, b 527; (Libraries), XIV, a 553
Cornelli, friar. See CORONELLI
Cornet (Flute), IX, a 307; (Zincken), XXIV, a 826–7
—— stop (Organ), XVII, b 855, a 856
CORNETO, town, VI, a 375; (Etruria), VIII, b 557
Cornetti, musical (Zincken), XXIV, a 826
Cornets, assayers (Gold), X, a b 669
CORNHERT, Theodore, or Coornhert, Dirck Volckertsen, humanist and engraver, VI, a b 375; (Goltzius), X, a 684; (Holland), XII, a 96
Cornhill Magazine (Periodicals), XVIII, b 548; (Thackeray), XXIII, b 234
Cornice (Architecture), II, a 406; Corinthian (Architecture), a 357, *a* 365; Doric (Architecture), *b* 354; Egyptian (Architecture), b 341, a 343; Ionic (Architecture), *a* 356; Italian (Architecture), *a* 383; moulds (Building), IV, b 451
Cornices, wall (Building) (Ill.), IV, b 422; plaster (Building), b 453; from Selinus (Terra-Cotta) (Ill.), XXIII, a b 210
Corniche road (Liguria), XIV, b 646

Corniculum, city (Latium), XIV, *b* 344
Corniferous group, American (Geology), X, *a* 306; (Ohio), XVII, b 755
Corning (Gunpowder), XI, b 291–2
Cornish boiler (Steam-Engine) (Ill.), XXII, b 494, b 495, a 518
—— clay (Kaolin), XIV, a 3
—— crusher (Mining) XVI, a 485
—— engine (Mining), XVI, b 479, a 480; (Steam-Engine), XXII, a b 495, b 528
—— language, VI, b 378–9; (Celtic Literature), V, b 258, *a b* 259; (Dictionary), VII, a 163
—— literature, V, a 281, a 285
—— miners, VI, b 377
—— miracle-play (Drama), VII, b 358
—— ores (Copper), VI, b 308
Corn Law League (Protection), XIX, b 937–8, b 939
CORN LAWS, VI, a 362–6
    engrossing and forestalling, b 365–6
    foreign laws, a b 366
    history, a 362–5
        to the Restoration, b 362–3
        from Charles II. to French Revolution, b 363–4
        nineteenth century, b 364–5
—— (Agriculture), I, a 266, a 271; (Canada), IV, b 686–7; (Domitian), VII, a 303; (Elliott), VIII, a b 139; (England), a 326; (Famines), IX, b 24, b 25; (Finance), *b* 164, *a* b 165; (Free Trade), a b 663, b 664, a 665, a 666, a 667; (Huskisson), XII, *a* b 419; (Ireland), XIII, a b 226; (Peel), XVIII, b 465, b 467; (Rome), XX, b 776, a 777, a 778, a 785, b 788
Corn Laws, Catechism of (Thompson), XXIII, b 331
Corn market in 1814 in England (Banking), III, b 276
—— Mildew, XVI, a 306
Corno, Monte (Apennines), II, a 150; (Italy), XIII, a 447
Cornopean, instrument (Zincken), XXIV, a 827; stop (Organ), XVII, b 856
Cornouailles, county (Quimper), XX, a 188
Corns, disease (Horse), XII, b 199; (Skin Diseases), XXII, a 129
Corn-salad (Horticulture), XII, b 293
Corn saw-fly (Wheat), XXIV, a 566; thrips (Wheat) (Ill.), XXIV, b 564–5
Cornstone (Geology), X, a 207
CORN-TRADE, VI, b 366–9
    British policy, b 366–7
    competition, effects of, b 367–9
    foreign supply, a b 367
    home supply, a b 369
    transportation, b 369
Cornu, Roman Trumpet, XXIII, a 630
Cornu, A., chemist (Spectroscopy), XXII, *b* 389, *a* 391, *a* 394; (Wave Theory), XXIV, a 448, b 462, a 463, *b* 468, a 485
Cornua, processes (Skeleton), XXII, b 124
Cornucopiæ, family (Grasses) XI, a 50
Cornus, genus (Dogwood), VII, a b 297
Cornuspira, genus (Foraminifera) (Ill.), IX, a 325, b 329
Cornuta, species (Viper), XXIV, a 266
CORNUTUS, L. Annæus, philosopher, VI, b 375; (Persius), XVIII, b 675, a 676
Cornuvia, genus (Protozoa), XIX, a 863
CORNWALL, county (Plate IX), VI, a 376–9
    antiquities, b 378
    bibliography, a 379
    economic features, b 376–7
    fisheries, a 378
    history, a b 378
    language, b 378–9
    physical features, a b 376
    political and personal features, a 379
    stannary courts, b 377
—— (Fire-Clay), IX, b 207; (Mining) (Ill.), XVI, b 472, b 473; (Watt), XXIV, a 435; occupation of (Ireland), XIII, a 252; *Treatises on* (Borlase), IV, a 49
——, duchy of (Duke), VII, a 448, a 449; (Prince), XIX, *a* b 758
——, Canada, town (St. Lawrence), XXI, *a* 190
—— iron mine (Lebanon, Pa.), XIV, a 396; (Pennsylvania), XVIII, a 513; (United States), XXIII, b 866, b 867
Cornwall, Barry, poet. See Proctor, B. W.
CORNWALLIS, Charles, marquis, general, VI, a b 379; (Gházipur), X, a 500; (India), XII, a b 842–3, a 844; (Londonderry), XIV, b 864, *a* 865, b 866; (Tippoo Sahib), XXIII, b 433; (United States), a b 791, *b* 792, a 793
—— code (Bengal), III, b 492
Cornwallite (Mineralogy), XVI, a 423
CORO, town, VI, b 379
Corody (Prerogative), XIX, b 692
Corœbus, athlete (Chronology), V, a b 617; (Games), X, a 58
Corolla of plants (Botany) (Ill.), IV, b 113, a 114, a 119–21
COROMANDEL, Coast, VI, b 379–80
Corona, or cup (Narcissus), XVII, b 236–7
——, constellation (Sun), XXII, b 685–6
——, Leonardo, painter (Anna), II, a 54
—— radiata of the brain (Anatomy), I, *b* 771; (Physiology), XIX, a 46
——, Roman (Architecture), II, a b 365
CORONA of the Sun, VI, a 380; (Astronomy), II, a 690–1; (Geology), X, a 192; (Sun), XXII, *a b* 679, a b 682, a 683, b 684; (Wave Theory), XXIV, a b 458; chemistry of (Sun), XXII, b 681, a b 682, a 683, b 684; photographs of (Astronomy) (Ill.), II, a 691
Coronado, Francisco Vasquez, traveller (Colorado), VI, b 146; de (Nebraska), XVII, b 318; (New Mexico), b 411
Coronæ (Halo), XI, *a* b 356, a 357; (Light), XIV, a 602
Coronary arteries (Anatomy), I, a b 792, a 793; (Vascular System), XXIV, *a* 111
—— gold, tax (Finance), IX, a 152
—— vein (Anatomy), I, b 790, b 791, a 792, b 795
CORONATION, ceremony, VI, a 380–1; (Ampulla), I, b 681; (Harold II.), XI, b 435; (Napoleon I.), XVII, a 215; (Oath), a b 720; of Petrarch, XVIII, b 720–1; (Regalia), XX, b 352–3; (State-Officers), XXII, a *b* 476, a 477
Coronation of the Virgin, paintings (Finiguerra), IX, b 187; (Moroni), XVI, b 862; (Pinturicchio), XIX, a 117, a 118; Vatican (Raphael) (Ill.), XX, b 287–8
Coronea, battle of, B.C. 447 (Pericles), XVIII, a b 542
Coronella, species (Snake), XXII, b 204, b 205; lævis (Lizard), XIV, a 741
CORONELLI, Vincenzio Maria, geographer, VI, a 381; (Encyclopædia), VIII, b 177–8; (Globe), X, b 609, b 610
CORONER, officer, VI, a 381–2; inquest of (Criminal Law), a 521; Jury of, XIII, b 795
Coronet in heraldry (Duke) (Ill.), VII, a b 448; (Earl) (Ill.), b 514–15; (Marquis), XV, a 572
Coronilla, fruit of (Botany), IV, b 136, b 137
Coronis ad collationem Hagiensem (Ames, William), I, *b* 645
Coropas (Dwarf), VII, b 490
COROT, Jean Baptiste Camille, painter, VI, a b 382
Coroticus, chief (Patrick, St.), XVIII, b 422
Corozo nuts (Ivory, Vegetable), XIII, b 534
Corpancho, Manuel Nicolas, dramatist (Peru), XVIII, a 689
Corpi Santi, suburb (Milan), XVI, b 302, note
Corpophaga latrans, species (Pigeon), XIX, a 94
Corpora albicantia of brain (Anatomy), I, b 769, a 772; quadrigemina (Anatomy), a b 758, *a* 770, *a b* 771, *a* 772, a 781; (Physiology), XIX, b 42–3; striata (Anatomy), I, *b* 758; (Physiology) (Ill.), XIX, b 43–4. See Corpus
Corporal Oath, XVII, a 720
CORPORATION, VI, b 382–5
    alienation of property, a b 384
CORPORATION, *continued*
    common-law incidents, b 384–5
    municipal, a b 385
    origin of modern, a b 383
    powers conferred by, b 383–4
    Roman usage, b 382–3
—— (Municipality), XVII, a b 33, *b* 36–7; (New York), a b 475
—— Act, 1661 (England), VIII, b 312; (Independents), XII, a 766; (Presbyterianism), XIX, b 709, b 710
—— management (Railway), XX, a 266
Corporations (Apprentice), II, b 185–6; (Charities), V, a b 348; (Company), VI, a 197–200; (Government), XI, a 16; (Prescription), XIX, a 725; (Taxation, U. S.), XXIII, a 924, a *b* 925, *a* b 926; social influence of (United States), a 834–5; tendency of (Socialism), XXII, a 232
Corporeal hereditament (Real Estate), XX, *b* 319
Corps d'armée (Army), II, b 497; (War), XXIV, a 315, a 316; France (Army), II, a 527; (Artillery), b 581; of Napoleon (Army), a 526; Prussian (Army), b 497
Corps Universel Diplomatique du Droit des Gens (Treaties), XXIII, a 565
CORPULENCE, VI, b 385–6; (Henry I., Navarre), XI, a 599; cause of (Sleep), XXII, a 166; reduction of (Dietetics), VII, a b 177
Corpus Arantii (Anatomy), I, a 791
—— callosum (Anatomy), I, b 758, b 766, *b* 767, *a* b 768, b 769, *a* 772
CORPUS CHRISTI, festival, VI, b 386; (Drama), VII, a 358, b 364; (Hymns), XII, b 618; (Spain), XXII, a 370; (Urban IV.), XXIV, a 13
——, town (Argentine Rep.), II, *a* 431
—— college (Cambridge), IV, b 646; (Libraries), XIV, b 519, a 543; (Parker), XVIII, b 304, a 306; (Universities), XXIII, a 894
—— Oxford (Fox), IX, a 443; (Libraries), XIV, b 518, b 545; (Oxford), XVIII, a 100
Corpus ciliare (Anatomy), I, a 779
Corpuscles of blood (Anatomy), I, b 797; (Ichthyology), XII, a b 696; (Iron, Therapeutics of), XIII, a b 369; (Leeuwenhoek), XIV, b 411; (Mammalia), XV, b 366; (Nutrition), XVII, b 701–2; (Pathology), XVIII, a b 383; (Respiration) (Ill.), XX, *b* 496–8; red (Anatomy) (Ill.), I, b 741, a b 742; white (Anatomy), a b 742
——, bone (Anatomy), I, a *b* 750
——, connective tissue (Anatomy), I, a b 746, b 747
—— of cornea (Anatomy), I, *b* 778, a 779

Corpuscles of Grandry (Touch), XXIII, a 509
——, embryonic (Botany) (Ill.), IV, b 132
——, lymph (Anatomy), I, a 797
——, muscle (Anatomy), I, a b 753
——, Pacinian (Anatomy) (Ill.), I, b 756, a b 757; (Touch) (Ill.), XXIII, a b 510
—— of Purkinje (Anatomy), I, *a* 766
—— of solids (Protozoa), XIX, b 856
—— of Wagner and Meissner (Touch) (Ill.), XXIII, a 510
Corpuscular theory (Light), XIV, a 584, b 587, b 589, b 591, a 596, a 602, a 603, a 610
Corpus dentatum (Anatomy), I, a b 765
—— geniculatum (Anatomy), I, a 770, *a* b 771, *a* 772, a 781
Corpus Inscriptionum Græcarum (Inscriptions), XIII, a b 121; *Latinarum* (Inscriptions), XIII, b 130–1; (Pompeii), XIX, a 465
—— *Juris Canonici* (Canon Law), V, b 17–9, a 21
—— *Juris Civilis* (Gothfred), X, a b 752; (Justinian I.), XIII, a 802 note, b 803, b 804; (Universities), XXIII, *b* 888. See ROMAN LAW
Corpus striatum (Anatomy), I, b 758, b 768, a 770, a b 771, b 777
Corra, waterfalls (Lanark), XIV, a 251
Correa, plant (Horticulture), XII, b 271
CORREA DA SERRA, José Francisco, politician, VI, b 386
Correction, Houses of (Poor Laws), XIX, *b* 479, b 480; (Reformatories in U. S.), XX, *b* 902
Correctores civitatium liberarum (Trajan), XXIII, b 536
Correctorium Bibliæ (Hugh of St. Cher), XII, a 351
"Correctors of the ducal engagement" (Venice), XXIV, b 154
CORREGGIO, Antonio Allegri, painter, VI, b 386–8, (Academy), I, *b* 75; (Carpi), V, a 116; (Fresco), IX, b 678, a 681; (Parma), XVIII, b 319, a 320; (Schools of Painting) (Ill.), XXI, b 455, a 456, a 463, a 465, a b 467
——, Azzo di, duke (Petrarch), XVIII, a b 721, b 722
——, Gilberto da, soldier (Parma), XVIII, a 320
Correia, Luiz Franco (Camoens), IV, b 660, a 661
——, Manoel, commentator (Camoens), IV, a 659
Correlation (Metaphysic), XVI, b 103, b 105
Correspondance Littéraire (Grimm), XI, b 176–7
Correspondence (Curve), VI, a 640, a b 641; (Geometry), X, b 350–3
Correspondence (Napoleon I.), XVII, a b 232
——, epistolary (Contract), VI, b 286
Correspondents of the press (American Journalism), XVII, a b 886
CORRÈZE, department, VI, b 388
Corrib, lough (Galway), X, b 50, *a* 51, a 52; (Ireland), XIII, b 222; (Mayo), XV, a 657
Corrichie, battle of, 1561 (Mary, Queen of Scots), XV, b 601, a 603, a 604
CORRIENTES, town, VI, b 388; (Argentine Rep.), II, a 433
Corries, described (Scotland), XXI, a 548
Corrievreckan, vortex (Whirlpool), XXIV, a b 571, *b* 572
Corroborative evidence (Witness), XXIV, a 658
Corrobories (Dance), VI, b 703, a 704
Corrosion, prevention of boiler (Steam-Engine), XXII, b 522, a 546
Corrosive poisons, XIX, b 288–9
—— sublimate (Ant), II, a 88; (Chemistry), V, a 457; (Mercury), XVI, a b 33, b 39; (Poisons), XIX, b 288
Corrugated wave (Wave Theory), XXIV, b 463–5
Corruption of blood (Attainder), III, b 46
——, Mohammedan, political (Sunnites), XXII, b 696, b 697, b 699
——, official (China), V, b 580–1
——, recent official (United States), XXIII, a 832
Corruptions of Christianity, V, a b 609
Corrupto Ecclesiæ Statu, De (Reformation), XX, b 333
Corrupt Practices Prevention Act (Bribery), IV, b 248–9
CORRY, city, VI, b 388
Corsair, periodical (Willis), XXIV, a 901
Corserine, mount (Kirkcudbright), XIV, a 99
Corseul, town (Côtes-du-Nord), VI, a 426
CORSICA, island (Map), VI, b 388, a 389; (Carthage), V, b 140; (Honey), XII, b 141; (Mediterranean Sea), XV, a b 829; (Mirabeau), XVI, b 516; (Moore, Sir J.), b 830; (Napoleon I.), XVII, a 200–1, a 202; (Neuhof), a b 371; (Paoli), XVIII, b 220–1; (Pisa), XIX, b 128, b 129, a 130; annexation of, 238 B.C. (Rome), XX, *a* 767
Corsica, Letters on the History of (Napoleon I.), XVII, b 199
Corsican dialect (Italy), XIII, b 504–5
—— Pine, XIX, a 113
Corsini, Lorenzo. See pope CLEMENT XII.
—— gallery (Schools of Painting), XXI, a 467
Corsiniana, Biblioteca, Rome (Libraries), XIV, a 529, b 550
Corsinieæ, class (Muscineæ), XVII, b 76; (Vegetable Kingdom), XXIV, *b* 140
Corslet. See CUIRASS
Corsnæd, superstition (Ordeal), XVII, a 843
CORSSEN, Wilhelm Paul, philologist, VI, b 389–90
Corstiaesen, Henrick (New York), XVII, b 893, a 894
Corstorphine Hill (Edinburgh), VII, b 569, a 570
—— town (Edinburgh), VII, a 571, a 574
CORT, Cornelius, engraver, VI, a 390
Cortambert, M. E., educator (Globe), X, *a* 609
Cortegiano, Il (Castiglione, B.), V, a 170
Corte-Nova or Cortenuova, town (Novi), XVII, a 623; battle of, 1237 (Italy), XIII, b 485; (Milan), XVI, a 305
CORTE-REAL, family, VI, b 390
——, Gaspard, navigator, VI, b 390; (Newfoundland), XVII, a 395
——, Jeronymo, poet, VI, b 390; (Portugal), XIX, *a* 572
——, Miguel, explorer, VI, b 390
Corte Romana, VI, b 627–8
CORTES, legislature, VI, b 390–1; (Spain), XXII, b 318
——, Aragonese (Alphonso I.), I, a b 542, a 543; II, b 267; (Spain), XXII, b 336–7
——, Castilian (Spain), XXII, b 332–3, b 334, a 336.
—— of Evora (Portugal), XIX, a 560
—— of Lisbon (Brazil), IV, b 208–9; origin of (Portugal), XIX, a 557, a 558
CORTES or Cortez, Hernando, conqueror, VI, b 390–1; (America), I, b 608, a 621; (California), IV, b 615; (Cholula), V, b 595; (Honduras), XII, a 136; (Mexico), XVI, b 230; (Tlaxcala), XXIII, b 449
——, Martin, geographer (Navigation), XVII, a 258, a b 259
Cortese, J. & G., painters (Courtois), VI, a b 462
Cortex, tissue (Botany) (Ill.), IV, a 89, b 90–1; (Sponges) (Ill.), XXII, a b 431
——, cerebric (Anatomy), I, b 765, a 766, b 770, a *b* 771
—— mezerei, drug (Laurel), XIV, b 349–50
Corti, organ of (Anatomy), I, b 785, *a* 786; (Ear), VII, a 512, *a* 513
Cortical disease (Surgery), XXII, b 724, a 725
—— stratum (Lichens) (Ill.), XIV, b 555, a 556, b 560
—— substance (Protozoa), XIX, b 855, a 857
Corticata, division (Protozoa) (Ill.), XIX, a b 860, b 876–91
Corticidæ, family (Sponges), XXII, a 436, *a* 440
Corticine, floor-cloth (Linoleum), XIV, a 683
Corticium, genus (Sponges) (Ill.), XXII, b 430, a 434, a 435, a 440, b 444
Corticole, species (Lichens), XIV, *b* 565
Cortigiano (Italy), XIII, b 520
CORTONA, city, VI, a 392
—— Lamp (Ill.), XIV, a b 248
—— Luca da. See SIGNORELLI
——, Pietro da (Ferri), IX, b 96
Cortoreal, navigator. See CORTE-REAL
Cort's puddling furnace (Iron), XIII, a 329
Coruisk loch (Skye), XXII, a 135
Coruña, province (Spain), XXII, b 312, b 314, b 316, a 317. See CORUNNA
Coruncarius, Tiberius, pontiff (Roman Law), XX, a 698, b 710, b 716–17
Corundophyllite (Mineralogy), XVI, b 431
Corundum (Chemistry), V, b 461; (Emerald), VIII, b 156; (Emery), a 157; (Mineralogy), XVI, a 390, b 392, a 401; (North Carolina), XVII, b 573; (Ruby), XXI, *b* 53, *a* 54; (Sapphire), a 317; (Smith, J. L.), XXII, a 912; artificial (Sainte-Claire-Deville), XXI, b 174; yellow (Topaz), XXIII, a 475
CORUNNA, city, VI, a b 392; (Gallicia), X, *a* b 25; (Spain), XXII, a 307, b 316
——, battle, 1809 (Anglesey), II, a b 29; (Moore, Sir J.), XVI, a b 831; (War), XXIV, a 369
Corus, battle of, 281 B.C. (Lysimachus), XV, b 121
Corvée, tax (France), IX, b 524; (Java), XIII, a 615; (Siam), XXI, b 891
Corvettes, vessels (Anchor), II, 6
CORVEY, abbey, VI, b 392; (Libraries), XIV, a 513
Corvidæ, family (Ornithology), XVIII, a b 52; (Shrike), XXI, b 885
Corvinus. See Messala, MATTHIAS CORVINUS and Hunyady, John
CORVISART-DESMARETS, Jean Nicolas, physician, VI, b 392; (Heart), XI, a 493
Corvo, island (Azores), III, *b* 147, a 148, b 149
Corvus, genus (Crow), VI, b 545; (Jackdaw), XIII, b 542, *a* 543; (Nutcracker), XVII, b 684; (Raven), XX, *b* 308
CORVUS, M. Valerius, general, VI, b 392
Corwen, town (Merioneth), XVI, *b* 43, a 44
Cory, Giles, wizard (Witchcraft), XXIV, a 656
CORYATT, Thomas, traveller, VI, a 393; (Taylor), XXIII, b 101
CORYBANTES, priests, VI, a 393; (Autochthones), III, a 123
Corycian cave (Delphi), VII, b 47
Corycus, mount (Ionia), XIII, b 210; town (Saffron), XXI, b 153
Corydalis, plant (Botany), IV, a 117, a 120; (Horticulture), XII, a 258
Corylus, plants (Hazel), X, b 489–90
Corymb (Botany) (Ill.), IV, b 110, a 113
Corymorpha, genus (Hydrozoa) (Ill.), XII, a 594
Corynascidia, genus (Tunicata), XXIII, b 656

Corypha, plant (Andaman Islands), II, b 13
Coryphæna hippurus, fish (Dolphin), VII, b 300
Coryphæuidæ, family (Ichthyology), XII, a b 728
CORYPHÆUS, leader of chorus, VI, a 393
Coryphodon, fossil (Mammalia), XV, a 432; (Zoology), XXIV, b 925-6
Corythæola, genus of birds (Touraco), XXIII, b 518
Corythaix persa, species (Touraco), XXIII, a 518
Corythus, town. See CORTONA
Coryza, malady (Catarrh), V, b 190-1
Cos, island, VI, a b 393; (Aqueduct), II, b 191; (Greece), XI, b 83; (Numismatics), XVII, b 664; school of (Medicine), XV, a 810, a b 811
——, gulf of (Caria), V, b 90
Cosa, town (Rome), XX, a 763, note; (Rutilius), XXI, a 122
——, Juan de la, pilot (Geography), X, b 162, a 163
Coscaroba, species (Swan), XXII, b 769-70
Coscinodiscus perforatus, species (Diatomaceæ) (Ill.), VII, b 146, a 147
Coseguina, volcano (Geology), X, a 219; (Honduras), XII, b 133; (Nicaragua), XVII, a *b* 490-1
Coseismal line (Earthquake), VII, b 527
COSENZA, city, VI, b 393; and province (Calabria), IV, b 577
Cosimo or Cosmo, grand dukes of Tuscany. See MEDICI
——, Piero di, painter (Sarto), XXI, a 330
COSIN, John, bishop, VI, b 393-4; (Canon), V, a 7; (Hymns), XII, a 627
Cosine of an angle (Trigonometry), XXIII, b 598
Cöslin, town. See KOSLIN
COSMAS, writer, VI, a b 394; (Greece), XI, a 130
——, Giovanni, mosaicist (Rome), XX, *b* 856, b 857
——Indicopleustes, traveller (Geography), X, a 159; (India), XII, b 829; (Maldive Islands), XV, a 333
—— of Panir, priest (Syriac Literature), XXII, b 870
COSMAS of Prague, historian, VI, b 394
——, St., physician (Surgery), XXII, a 710
Cosmati family, architects (Rome), XX, b 856, note
Cosmetic (Henna), XI, b 583; (Glycerin), X, b 622, b 623; (Rouge), XXI, a 18
Cosmi, magistrates (Crete), VI, a 505 note
Cosmic spherules (Pacific Ocean) (Ill.), XVIII, a b 130, a 131
Cosmical relations of earth (Geography), X, b 188; (Geology), *b* 190-6
—— theory (Democritus), VII, a b 53
Cosmogonic theory (Tides), XXIII, a 404-6
Cosmogonies, ancient (Alchemy), I, b 407-8; (Astrology), II, a 648
COSMOGONY, VI, b 394-6; (Anaxagoras), II, a b 3, a 4; (Archelaus), b 324; (Buddhism), IV, a 388, note; (Egypt), VII, a 623, b 633; (Lucretius), XV, b 55; (Stoics), XXII, b 592
——, Chinese (China), V, b 573; Greek (Pherecydes), XVIII, b 747; Miltonic (Zoology), XXIV, a 859; Mosaic, VI, b 395-6; (Deluc), VII, a b 48; scientific basis of a (Geology), X, a 191, b 192
Cosmographiæ Introductio (Geography), X, b 162
Cosmography, Moslem (Mohammedanism), XVI, b 618
Cosmoline, ointment (Petroleum), XVIII, b 732, b 733, b 891
Cosmological argument (Theism), XXIII, a 267
Cosmology (Evolution), VIII, a 673; (Lotze), XV, *a* 16; (Marcion), *b* 541, a 542; (Philosophy), XVIII, b 805; (Parmenides), a b 321, a 323; (Pythagoras), XX, a b 145, b 147
Cosmopolitanism (Stoics), XXII, b 597-8
Cosmos of Humboldt. See *Kosmos*
Cosmotheoros (Huygens), XII, b 432
Cosnac, Daniel de, Abbé (Molière), XVI, b 648
COSNE, town, VI, b 396
Cossa, Balthazar. See pope JOHN XXIII.
——, Luigi, publicist (Political Economy), XIX, *a b* 408, a 415
Cossaccia, Stephen, duke (Herzegovina), XI, b 693
Cossack, town (Western Australia), XXIV, a 535
Cossack Tales (Gogol), X, *b* 657
COSSACKS, VI, b 396-7; (Army), II, a 534; (Cavalry), V, a 229; (Don Cossack Country), VII, a 309; (Dubofka), b 434; (Kharkoff), XIV, b 59; (Khiva), b 64, a 65; (Kirghiz), a 97; (Kuban), a 151; (Mazeppa), XV, b 660; (Novotcherkassk), XVII, *a* 624; (Odessa), b 746; (Orenberg), b 850, a 851; Pereyslaff), XVIII, a 535; (Poland), XIX, a 305, *a* 306; (Russia), XXI, a b 87, a 92, a 108; (Siberia), XXII, *a* 14, *b* 15, *a* b 16, *a* b 17; (Transbaikalia), XXIII, *a* 543; (Uralsk), XXIV, *a* 11
—— provincial features (Russia), XXI, a 76, *a* b 87; subjugation of (Russia), b 105, a 108
Cossimbazar, town. See KÁSIMBÁZÁR
Cossus, moth (Butterflies) (Plate XXX), IV, *b* 528; (Insects), XIII, b 148, a 152
—— Gætulicus, Cornelius, general (Juba II.), XIII, a 769
Cossutius, architect (Archæology), II, a 321
Cossya Hills. See KHÁSI HILLS
Cossyra, island. See Cosyra
Costa, Duarte da, governor (Brazil), IV, a 206
——, Lorenzo, painter (Schools of Painting), XXI, b 455, a 463
Costæ, ribs (Anatomy), I, a 721, b 728
—— ridges (Corals), VI, b 331
Costal joints (Anatomy), I, a 733
—— plate (Mammalia), XV, a 360
Costambone, town. See KASTAMUNI
Costanca de Peñafiel, queen, Portugal (Castro), V, a 176
COSTANZO, Angelo di, historian, VI, a 399
——, Tuzio, soldier (Giorgione), X, a b 542
COSTA RICA, republic, VI, b 397-9; (National Debt), XVII, b 253; (Nicaragua), a 490; races (Indians), XII, b 868
Coste, Jean Jacques Cyprien Victor, naturalist (Embryology), VIII, *a b* 153, a 154
COSTELLO, Dudley, journalist, VI, a 399
COSTELLO, Louisa Stewart, authoress, VI, a 399
Coster, Laurens Janszoon, printer. See Koster, XIV, a 144
——, Samuel, dramatist (Holland), XII, b 97
Costermongers (London), XIV, b 838
Costigan, explorer (Dead Sea), VII, a 5
Costilla, mountain (New Mexico), XVII, a 410
Costnitz, city (Constance), VI, b 264
COSTS, legal extortions, VI, b 399; (County Court), a 456; (Writ), XXIV, *b* 728
COSTUME (Ill.), VI, b 400-25
  academic, b 410-1
  bibliography, b 424-5
  early European, a 411-2
  ecclesiastical (Ill.), b 407-10
   Eastern and monastic, a b 410
   Western (Ill.), b 408-10
  Egyptian and Assyrian, (Ill.), b 404-5
  eleventh century, a 412
  Etruscan (Ill.), b 402-3
  fifteenth century (Ill.), b 415-7
  fourteenth century (Ill.), b 413-5
  Greek, female (Ill.), b 400-2
   male (Ill.), a b 402
  Highland (Ill.), a 424
  Jewish (Ill.), a 405-7
  modern (Ill.), b 421-2
  naval and military, a 424
  official (Ill.), b 422-4
  Oriental, b 407
  Roman (Ill.), a 403-4
  seventeenth century (Ill.), b 419-21
  sixteenth century (Ill.), b 417-9
  Syrian, a b 407
  thirteenth century (Ill.), a b 413
  twelfth century, a 412-3
—— (Abbess), I, b 16; Albanian, b 396; (Australia), III, b 98; (Baghdad), a 201; (Baluchistan), b 261; (Baron), a 335; Bedouin (Arabia), II, a b 216, b 219; (Brittany), IV, a 320; (Buddhism), b 389-90; (Bushmen), a 513; (Button), a 532; (Carmelites), V, b 103; Celtic (Clan), b 699; Chinese, VI, *a* 407; (Drama), VII, a 348; (Cistercians), V, a 693; (Corea), VI, a 350; Dard (Gilgit), X, a 534
—— (Drama), VII, a 343; Druidical (Celtic Literature), V, b 276; Dyak (Borneo), IV, a 52; ecclesiastical, VI, b 407-10; (Tibet), XXIII, b 365-6; (Effigies), VII, a 602, note; (Egypt), b 618-9, b 627; (Fool), IX, b 320; (Gipsies), X, b 549-50; Greek, VI, b 400-2; (Drama), VII, a 352, a b 353; (Greece), XI, b 75, a b 76; (Terra-Cotta), XXIII, b 207 note, b 208, a 209; (Hamburg), XI, a 363, note; (Hottentots), XII, b 323-4; (Huns), a 398; Indians of North America, I, b 606; Irish, mediæval (Ireland), XIII, a 263; (Kaffraria), b 728-9; (Kâfiristân), a 832; (Kashmir), XIV, a 14; (Kirghiz), a 98; (Madagascar), XV, a 173; (Madeira), b 178
——mediæval, VI, a 411-8; (Pilgrimage), XIX, b 103-4; miracle-plays (Drama), VII, a 359; (New Guinea), XVII, b 398; (Parsis), XVIII, b 330-1; (Persia), a 641-2; (Quakers), XX, a b 157; Polish nobles, XIX, b 303, note; Roman, VI, a 403-4; (Siberia), XXII, b 10-1; (Solomon Islands), b 266; Spanish (Velazquez), XXIV, a 146 note; stage (Theatre), XXIII, a 245; (Templars), a 179, a 181; Vestal, XXIV, b 210-1. See Dress
——, regulation of (Sumptuary Laws), XXII, a b 678
Costumes of the Ancients (Hope), XII, b 161
Costus, root (Incense), XII, b 756
Cosyra or Cossyra, island (Pantellaria), XVIII, b 218
COTA, Rodrigo, poet, VI, b 425; (Drama), VII, a 363
Costan, district. See KHOTAN
COTE D'OR, department, VI, b 425; (Wine), XXIV, *b* 638
Coteau des prairies, plateau (Dakota), VI, *b* 681
—— du Missouri, plateau (Dakota), VI, b 681
Cotentin, district (Manche), XV, a 466; (Normandy), XVII, *a* 554, a 556, b 557
COTES, Roger, mathematician, VI, b 425-6; (Newton), XVII, *a* 459
Côtes wine districts (Gironde), X, b 556
COTES-DU-NORD, department, VI, a 426
Cotes's theorem, VI, a 426
Coteswolds, hills (Gloucester), X, a b 613, *a* 614, b 615. See Cotswold
Cotham stone (Marble), XV, a 536
Cöthen, town (Köthen), XIV, a 145
Cothurnus or buskin (Drama), VII, a 352, b 353

Cotidal lines (Tides) (Ill.), XXIII, b 396-8
Cotile, genus (Martin), XV, a 588
Cotingidæ, family (Birds), III, a b 647, a 649; (Ornithology), XVIII, a 32, a b 41
Cotocachi, mountain (Ecuador), VII, a 559, a 560, a 561; town, VII, b 562, b 563
Cotton Field, park (Stafford), XXII, b 460
Cotoneaster, shrub (Arboriculture), II, a 281, b 282
COTOPAXI, volcano, VI, a 426; (Andes), II, *b* 17; (Ecuador), VII, *a* 559, a 561; (Geology), X, a 217, a 219
Cotrone, city (Crotona), VI, a b 544
Cotswold or Coteswold, Hills (England), VIII, a 196; (Gloucester), X, a b 613, *a* 614, b 615
—— sheep (Agriculture), I, a 348, a 349
COTTA, family, VI, b 426-7
——, Johann Friedrich, theologian, VI, b 426
——, Johann Georg, publisher, VI, b 426
——, Ursula (Luther), XV, a 73
——, Lucius Aurelius, consul (Rome), XX, b 781 note
—— VON COTTENDORF, Georg, publisher, VI, b 427
—— VON COTTENDORF, Johann Friedrich, publisher, VI, b 426; (Newspapers), XVII, b 439; (Goethe), X, b 651, b 653; (Thiers), XXIII, b 323
Cottabató, volcano (Philippine Islands), XVIII, a 763
COTTABUS, game, VI, a 427-8
Cottage system (Reformatories), XX, b 900
Cottagers of Glenburnie (Hamilton, E.), XI, b 370
Cottages for laborers (Agriculture), I, a 275, a 363
Cottah or Katthá in Weights and Measures, XXIV, a 518
Cottbus, town. See KOTTBUS
Cottereau, Jean, insurgent (Chouans), V, b 596-7
Cotteril, physicist (Steam-Engine), XXII, a 504 note, a 514, note
Cotters of County Armagh, II, b 478
Cotter's Saturday Night (Burns), IV, a b 506, b 507
Cottian Alps, I, b 546, a b 548
Cottidæ, family (Ichthyology), XII, a b 716, b 728
COTTIN, Sophie, novelist, VI, b 427
Cottius of Segusio, chief (Susa), XXII, a 760
Cottle, Joseph, publisher (Coleridge, S. T.), VI, *a* 123; (Wordsworth), XXIV, b 705
COTTON (Ill.), VI, b 427-51
    American, b 428
    Asiatic, a b 428
    British stocks, table, 431
    ginning, b 428-9
    MANUFACTURE (Ill.), a 432-51
        Asiatic, a 432-3
        automatic mule, a 443
        effects of machinery, a 443-4
COTTON, *continued*
    MANUFACTURE
        English progress, a 444-5
        European continent, b 449-50
        European, early, b 433-5
        machines, cleaning (Ill.), a 435-6
        machines, fibre laying (Ill.), b 436-40
        machines, spinning or yarn (Ill.), a 440-2
        machine, twisting (Ill.), b 436
        Scotch and Irish, a 445-6
        statistics of English, 447-9
        United States, a 450-1
    species, b 427-8
    supply, American, b 431-2
    supply, sources of, a 429-32

—— (Alabama), I, *a* 389; (Bahamas), III, a 205; (Belgium), b 452; (Botany), IV, b 80; (Brazil), a 204; (Burmah), b 492, a 495; (Burmah, British), a b 500; (Bombay), b 21; (China) V, b 551, a 552; (Commerce), VI, a 183; (Egypt), VII, a 614, b 681; (Fibres, Textile), IX, a 116, a 117; (France), b 459; (Galveston), X, *a* b 50; (Georgia), a *b* 391, b 392; (Greece), XI, b 79, a 80; (Hierapolis), b 706; (India), XII, a 787, a 789, b 795, *a* b 796, a 797, b 798; (Khámgáon), XIV, b 58; (Louisiana), XV, b 22-3; (Mississippi), XVI, b 546; (Mobile), a b 563; (North Carolina), XVII, *b* 574; (South Carolina), XXII, a 301, *a* 302; (Texas), XXIII, *a* 223; (United States), a 878, a b 880
COTTON, Charles, poet, VI, b 451; (Montaigne), XVI, a 798; (Whist), XXIV, *b* 573, *a* 574
COTTON, George Edward Lynch, bishop, VI, b 451-2
——, Henry, bishop (Raleigh), XX, a 275
——, John, Puritan (Boston), IV, b 64-5; (Eliot), VIII, b 128; (Independents), XII, b 764
——, Sir Robert Bruce, antiquary, VI, a b 452; (Selden), XXI, a 662; *Manuscripts* of his library (Dunstable), VII, b 471; (Knighthood), XIV, b 120 note
——, Sir Rowland, Hebraist (Lightfoot), XIV, *a* 619
——, Stapleton, general (Combermere), VI, a b 162
——, Sir Sydney John, general (Burmah), IV, a 498
Cottoner, Nicholas, grandmaster (St. John of Jerusalem), XXI, b 183
Cotton fabrics (Adulteration), I, b 159; (Dyeing), VII, b 497-8, *a b* 499, a *b* 500, *a b* 501-2; (Plauen), XIX, *b* 226; Bleaching of, III, b 705-11
—— famine (Gaskell), X, b 94-5
Cotton-manufacture (Austria), III, b 104-5; (Blackburn), b 694; (Ill.), VI, a 432-51; (Bombay), IV, a b 22, b 24; (Bute), b 516, a 517; (Dacca), VI, b 667; (Damask), a 698; (England), VIII, a 208-9; (Europe), b 621; (Germany), X, a b 412; (Glarus), a b 567; India, XII, b 797-8, a b 800, a b 802; (Protection), XIX, b 936-7; (Ireland), XIII, b 237; (Italy), a 463; (Lancashire), XIV, a 254; (Linen), b 670; (Lowell), XV, a 31; (Massachusetts), a b 619; (Mülhausen), XVII, b 21; (Nágpur), b 171; (Oldham), b 780; (Rhode Island), XX, b 533; (Rouen), XXI, a b 16; (Scotland), a 558; (Seine Inférieure), a 657; (Shuya), *a* 889; (Spain), XXII, a 316; (Switzerland), a 818; history of (Bolton), IV, a 19; coöperation in Lanark (Owen), XVIII, a b 90; Lancashire, VI, b 302
—— manufacture, American progress of (United States), XXIII, b 831; rise of (Slater), a b 906; (Protection), XIX, b 938, a 939; (United States), XXIII, b 805-6
—— -Paper, XVIII, a b 221, a 222
—— -powder (Mining), XVI, a 465
—— seed-cake (Oil-Cake), XVII, b 759, a 760; meal (Dairy), VI, b 677; oil (Lubricants), XV, b 36, b 37; (Oils), XVII, a 765, a b 766, a 767
Cottonstone (Mineralogy), XVI, b 441
Cotton-wood (Poplar), XIX, b 526; forests (United States), XXIII, a 862
Cottus, genus (Ichthyology), XII, a 699, a 714, b 716, a 718, b 728; (Miller's Thumb), XVI, a 333
Cottus, myth (Briareus), IV, b 247
Cotunnite (Mineralogy), XVI, a 400
Coturnix, genus (Quail), XX, a b 153
Cotyle, liquid measure (Weights and Measures), XXIV, *b* 512, *a* 513
Cotyledons, leaves (Botany), IV, a 82, b 141-3; barley (Brewing), IV, b 238
Cotylophora, group (Mammalia), XV, b 436-8
COTYS, kings of Thrace, VI, b 452
Coua, genus (Cuckoo), VI, b 607
Couch, Darius N., general (Sumner), XXII, a 935
——, Jonathan, ichthyologist (Fisheries), IX, b 213
Couches (Furniture), IX, a 747
Couchet, Jan, musical instrument maker (Pianoforte), XIX, a 78
Couch-grass (Botany), IV, b 87; destroying (Agriculture), I, b 300, a b 301
Couching for malt (Brewing), IV, b 239
Coucy, Enguerrand VI., de, soldier (Switzerland), XXII, b 823
Coudé equatorial (Telescope) (Ill.), XXIII, a 168
Coues, Elliott, naturalist (Glutton), X, a *b* 621; (Marten), XV, b 583, a *b* 584; (Mink), XVI, a 497; (Ornithology), XVIII, b 20, a 29 note; (Penguin), b 502; (Sandpiper), XXI, b 273 note; (Sheathbill), a b 819; (Swallow), XXII, a 768 note; (Warbler), XXIV, a 338; (Woodpecker), a 687
Couesnon river (Manche), XV, b 466
Cougak, bloom (Opium), XVII, a 811
Cougar, mammal (Puma), XX, a 110
Cough, disease (Bronchitis), IV, b 326, a *b* 327; (Respiration), XX, b 493; (Throat Diseases), XXIII, b 340
Coulanges, Christophe de, Abbé de Livry (Sévigné), XXI, a b 736, b 738
——, Fustel de, historian (Slavery), XXII, b 153
COULOMB, Charles Augustin, engineer, VI, b 452; (Electricity), VIII, b 9-10, b 16, b 17-18, *a b* 19-22, b 30, b 50; (Friction), IX, *b* 683; (Hydromechanics), XII, a b 506; (Magnetism), XV, *b* 238, b 241, b 242, a b 243, a 251, a 263, a *b* 277, *a* 278; Electrometer of, VIII, a 112; law of (Elasticity), b 702, b 704
——, unit of measure (Telegraph), XXIII, a 124
Colure, disease (Wine), XXIV, a 637
Coumarin (Chemistry), V, b 451; (Perfumery), XVIII, a 537
COUNCIL, church assembly, VI, b 452-5. See Assembly, Conference, Consistory, Convention, Presbytery, Synod

COUNCILS, LIST OF FAMOUS
——, Ænham, 1009 (Ember Days), VIII, a 147
—— of Agde, 506 (Festivals), IX, b 102
——, Ancyra, 313 (Celibacy), V, b 254; (Fasting), IX, a b 42, note; (Witchcraft), XXIV, b 653
—— of Antioch, 341 (Good Friday), X, a 689
—— of Aquileia, 381 (Ambrose), I, b 582
—— of Arles, 314, II, b 476; (Horse), XII, a 203; (England, Church of), VIII, a 332; (Episcopacy), b 433-4; (Ireland), XIII, a 253
COUNCIL OF BASLE, 1431 (Basel), III, a 353; VI, b 453, a b 454; (Aleman), I, b 421; (Eugenius IV.), VIII, a b 582; (Popedom), XIX, a b 517; (Pragmatic Sanction), a 677; (Torquemada), XXIII, a 481
—— of Burgos, 1077 (Spain), XXII, b 330
—— of Caen, 1042 (Truce of God), XXIII, a 628

Council, Calcuith, 816 (Episcopacy), VIII, a 435
——, Carthage, 251 (Celibacy), V, b 254; 397 (Canon), a 12; 411 (Donatist), VII, a 312; 419 (Canon), V, b 12
——, Cashel, 1172 (Episcopacy), VIII, b 435
——, Chalcedon, 403 (Chrysostom), V, a b 661; 451 (Armenian Ch.), II, *a* 481; (Creeds), VI, b 496; (Episcopacy), VIII, a 433; (Fasting), IX, a 40, note; (Greek Church), XI, *b* 138, a 139; (Justinian I.), XIII, a *b* 805; (Mary), XV, a 597; (Patriarch), XVIII, a 421; (Syriac Literature), XXII, b 871, a b 872
——, Chalons, 813 (Episcopacy), VIII, a 435; (Pilgrimage), XIX, a 103
——, Charroux, 989 (Truce of God), XXIII, a 628
—— of Clermont, 1095 (Crusades), VI, b 550, a b 551; (Ember Days), VIII, a 147; (France), IX, b 474–5; (Truce of God), XXIII, b 628; list of Councils at, V, b 723
——, Cloveshoe, 8th century (Abbot), I, b 29
—— of Constance, 1414–18, VI, b 453, a b 454; (Chrysoloras), V, b 660; (Constance), VI, *a* 265; (Ferdinand I.), IX, b 70; (Gerson), X, a 492; (Huss), XII, *a* b 421; (Hussites), b 422; (Italy), XIII, b 490; (Jerome of Prague), b 642; (John XXIII.), b 723; (Martin V.), XV, a b 589; (Medici), *b* 794; (Popedom), XIX, a 517; 1873 (Old Catholics), XVII, a b 777
—— of Constantinople, 381 (Arius), II, a b 472; (Council), VI, a 454; (Creeds), b 496; (Eunomius), VIII, b 585; (Patriarch) XVIII, a 421; (Popedom), XIX, b 505; (Theodosius I.) XXIII, b 278; 383 (Theodosius I.), b 278
——, Constantinople, 448 (Abbot), III, a 28
——, Constantinople, 553 (Justinian I.) XIII, b 805; (Origen), XVII, b 867; (Pelagius I.), XVIII, a 484
——, Constantinople, 680 (Monothelites), XVI, a 785
——, Constantinople, 869 A.D. (Photius), XVIII, a 833
——, Constantinople, 879 A.D. (Photius), XVIII, b 833
——, Constantinople, list of Councils at, VI, *a* 454
—— of Elvira, 300 or 313 (Celibacy), V, a 255
——, Ephesus, 431 (Creeds), VI, b 496, a 499; (Cyril), b 663; (Greek Church), XI, *b* 133; (Leo I.), XIV, a 449; (Mary), XV, b 597, *a* 598; (Nestorians), XVII, a 365; (Pelagius), XVIII, a 483
—— of Ephesus, 449 (Syriac Literature), XXII, b 869 note
—— of Florence, 1438 (Greek Church), XI, a 140; (Popedom), XIX, a b 517
—— of Frankfort, 794 (Creeds), VI, a 498
—— of Friuli, 796 (Creeds), VI, *a* b 498
——, Gangra, 360 (Agape), I, a 245; (Monachism), XVI, a 729
—— of Hippo, 393 (Canon), V, a 12
—— of Jerusalem, 51 (Council), VI, a 453; (Paul), XVIII, b 428, note; (James), XIII, b 562, a 564
—— of Laodicea, 363 (Bible), III, b 557; (Cathedral), V, a 198; (Good Friday), X, a 689; (Canon), V, a 3, *a* 11; (Sunday), XXII, b 688
——, Lateran, 1059 (Nicholas II.), XVII, a 497
——, Lateran, 1112 (Paschal II.), XVIII, a 344
——, Lateran, 1139 (Rome), XX, b 810
——, Lateran, 1179 (Alexander III.), I, b 430
——, Lateran, 1215 (Benefice), III, b 483; (Confession), VI, a 229; (Innocent III.), XIII, b 90; (Liguori), XIV, a 644; (Penance), XVIII, a 498
——, Lateran, 1512–7 (Bibliography), III, b 569; (Trent, Council of), XXIII, a 584
——, London, 1075 (Cathedral), V, a 198
—— of Lyons, 566 (Benefice), III, b 482
—— of Lyons, 1245 (Italy), XIII, b 485
—— of Lyons, 1274 (Greek Church), XI, b 139–40; 1274 (Michael VIII.), XVI, b 235
—— of Meaux, 846 (Hincmar), XI, a 747
—— of Milan, 355 (Athanasius), II, a 726
——, Milan, 1512 (Reformation), XX, b 336–7
Council of Nicæa, 325, VI, *b* 453, *a* 454; (Arius), II, a 472; (Athanasius), a 725; (Bishop), III, a 684; (Calendar), IV, b 591, a b 593, a 598; (Celibacy), V, b 255; (Creeds), VI, a b 496, a b 498; (Easter), VII, a 532; (Egypt), VII, b 648; (England, Church of), VIII, a 332; (Eusebius), a b 633; (Hosius), XII, a 314; (Patriarch), XVII, a 421
——, Nicæa, 787 (Abbot), I, a 28; (Adrian), b 150; (Image Worship), XII, b 751–2
—— of Orleans, 511 and 533 (Benefice), III, b 482
—— of Paris, 1209 (Arabian Philosophy), II, b 236; (Scholasticism), XXI, b 444
——, Paris, 1226 (Paris), XVIII, a 294
——, Paris, 1682 (Bossuet), IV, b 63
—— of Pisa, 1409 (Alexander V.), I, b 430; (Popedom), XIX, a 517; (Gerson), X, *b* 491
——, Placentia, 1095 (Ember days), VIII, a 147
——, Poitiers, 999 (Truce of God), XXIII, a 628
——, Quinisext. See Council in Trullo
—— of Ravenna, 1311 (Baptism), III, a 303; (Templars), XXIII, b 180
——, Rheims, 1119 (Truce of God), XXIII, b 628
—— of Rimini, 360 (Arius), II, b 472
—— of Rockingham, 1095 (William II.), XXIV, b 609
—— of Rome, 324 (Cardinal), V, b 85
—— St. Basle, 991 (Silvester), XXI, a b 82, b 83
—— of Saragossa, 380 (Monachism), XVI, a 729
—— of Sardica, 347 (Athanasius), II, a 726; (Julius I.), XIII, a 781
—— of Seligenstadt, 1022 (Penance), XVIII, b 497
—— of Sens, 1140 (Abelard), I, a 39; (Bernard), III, b 520
—— of Tiben, 552 (Chronology), V, a 622
—— of Toledo, 633 (Hymns), XII, b 615, a 616; (Tonsure), XXIII, b 472
—— of Toledo, 1129 (Heresy), XI, b 657
—— of Toulouse, 1229 (Bible), III, a 560
—— of Tours, 1163 (Surgery), XXII, a 710
COUNCIL OF TRENT, 1545–63, XXIII, a 578–86; (Council), VI, a b 454; (Apocrypha), II, a 161; (Bible), III, a 557, a 561; (Canon), V, a b 14; (Catechism,) b 191; (Celibacy), b 255; (Charles V., Emperor), *b* 360; (Chemnitz), b 504; (Clergy), b 722; (Creeds), VI, b 499; (England, Church of), VIII, a 337, a 340; (Erasmus), a 458; (Esdras), a 479; (Fasting), IX, a 43; (Fathers of the Church), a 45; (Festivals), b 102; (Hierarchy), XI, b 707; (Holland), XII, b 77; (Image Worship), b 752; (Immaculate Conception), b 754; (Julius III.), XIII, a 782; (Liguori), XIV, a 644; (Limbus), a 653; (Paul III.), XVIII, b 441; (Pius IV.), XIX, a 164; (Popedom), a b 518, a 519; (Purgatory), XX, b 120; (Roman Catholic Church), b 645; (Sacrifice), XXI, a 148; (Saint), a 164; (Titian), XXIII, b 443; (Vatican Council), XXIV, *b* 120; *History of* (Sarpi), XXI, b 327
——, Troyes, 878 (Troyes), XXIII, b 627; 1128 (Templars), a 176
—— in Trullo, 692 (Canon), V, b 13; (Canon Law), *a* 16; (Greek Church), XI, a 141; (Image Worship), XII, a 751; (John VII.), XIII, a 721; (New Year's Day), XVII, b 462
——, VATICAN, 1869, XXIV, b 120–4; (Church), V, b 664; (Old Catholics), XVII, b 775, a 778; (Canon), V, a 15; (Catechism), b 191
—— of Vienne, 1311 (Templars), XXIII, *a* b 180; (Canon Law), V, b 18
—— of Whitby, 664 (Wilfrid), XXIV, b 597
COUNCIL BLUFFS, town, VI, a 455
Councillor gods (Zodiac), XXIV, a 831 note
Council of Medical Education and Registration (Medicine), XV, b 808–9
Councils, Buddhist, Jalandhara or Kaniskha's, 40 A.D., IV, b 381; (India), XII, a 824
—— Patna, Palibothra or Pataliputra, Asoka's, 250 B.C., IV, b 381, b 387; (Cambodia), b 640; (India), XII, b 823, a 824
—— Rajagriha, c. 543, B.C. IV, a *b* 387, a 391; (India), XII, b 823
—— Siladitya's, 634 A.D. (India), XII, a 825
—— Vaisali, c. 440 B.C. (India), XII, b 823

Councils, Ecclesiastical
—— (Congregationalism), VI, b 238; (Consistory), a 260; (Convocation), b 288, a 289, a 290
—— Œcumenical, VI, b 453–4; (Church), V, a b 664; (Creeds), VI, a b 496; (Dogmatic), VII, b 294; (Greek Church), XI, b 138, a 141; (Jesus Christ), XIII, b 681, *a* 682; (Trent, Council of), XXIII, a 578–9; authority of (Gerson), X, b 491, a 492; (Silvester), XXII, b 82; (Trent, Council of), XXIII, a 580, a 585, a 586. See COUNCIL, Papal Authority, Papal Supremacy

Councils, Political
—— of Ancients (Napoleon I.), XVII, a b 209
——, Belgian Provincial, III, b 446
——, British State (Cabinet), IV, a 550. See PRIVY COUNCIL
—— of Deputies, Papal States (Pius IX.), XIX, a 167
—— of the Empire (Russia), XXI, b 77
—— of Five Hundred (Napoleon I.), XVII, a b 209
—— High Secret (Russia), XXI, b 106
—— for India (Ministry), XVI, a 496
——, Italian Local, XIII, *b* 474
—— for Municipalities, XVII, b 33–4; of the Party, Mediæval Italian, XIII, a 487
——, Roman Mediæval, Greater and Less, XX, a b 813
——, State (Brazil), IV, a 212; (France), IX, a 450; (Spain), XXII, a 341; (Sweden), a 782
—— of Two Hundred (Zurich), XXIV, *b* 870–1
—— Venetian, the Great (Nobility), XVII, a b 541, a 542; (Venice), XXIV, b 154, a 155, a 156; of Ten (Venice), b 154, b 155, b 159

Counsel in law (Criminal Law), VI, b 521; queen's (Barristers), III, a b 340

"Counsellor" (Horse), XII, b 186
"Counsels of Perfection" (Monachism), XVI, b 725
COUNT, COUNTESS, VI, a 455; in Charlemagne's court (France), IX, *b* 470; (Germany), X, a b 430; of Holland, title, XII, a 74
Counterfeiting coin (Adulteration), I, a 160; (Hydrometer), XII, a 568; (Persia), XVIII, a 633
Counterforts (Building), IV, *a b* 402
Countermining (Torpedo), XXIII, a 479
Counterpoint in music (Fux), IX, a b 752; (Mendelssohn), XVI, a 13; (Music), XVII, b 89, a 90, b 91, a 92, a 94; (Poetry), XIX, a 274; (Tallis), XXIII, a 39
Counter-Reformation, Papal (Paul III.), XVIII, b 441; (Renaissance), XX, a 401, a 402, b 403, *a* b 404, b 405; (Trent Council of), XXIII, *a* 578, b 586
Counterscarp (Fortification), IX, a 372, b 392
Counter-selection of lives (Insurance), XIII, a b 181
Countess of Pembroke's Arcadia (Sidney), XXII, a 41
Count Fathom, novel (Smollett), XXII, a *b* 194
Counting machines (Mechanics), XV, b 781. See CALCULATING MACHINES
Count Julian, tragedy (Landor), XIV, a 279
Country Girl, comedy (Wycherley), XXIV, b 742
Country Party, England (Russell), XXI, a b 71
Country Wife, comedy (Wycherley), XXIV, b 741, *a b* 442, *b* 743
Counts of Yarn, XXIV, *a* 767
COUNTY, VI, a 455-6; (Government), XI, b 19; American (Taxation), XXIII, a b 925, a b 926; organization (United States), a b 882, a 883; Southern colonial (United States), b 778
—— Constable, VI, b 263; (Police), XIX, b 352, a 353
—— Court, VI, a b 456, a b 458, a 459; (Contempt of Court), b 283
—— franchise (Registration), XX, *a b* 357-8
—— prisons in the U. S. (Prison Discipline), XIX, a b 783; (Reformatories), XX, b 902
Coup d'état of 1797 (Napoleon I.), XVII, a b 206; 1851 (France), IX, a b 548; (Napoleon III.), XVII, b 234
—— de Jarnac (Duel), VII, a 442
—— de soleil (Sunstroke), XXII; b 700-1
Coupier's distilling apparatus (Tar), XXIII, a 65
Couple in Magnetism, XV, a 224, b 228, a b 235
—— in mechanics, XV, b 736, a *b* 737, a 775, a b 778
Couplers (Organ) (Ill.), XVII, b 858-9
Coupling (Mechanics) (Ill.), XV, b 769-72, b 777; automatic friction (Lifts), XIV, a b 580
Cour de la Fonde, tribunal (Consul), VI, a 281
Courage, primitive ideas of (Crime), VI, a 516
Courant, newspaper (Hartford), XI, b 444
Courants, Edinburgh (Newspapers), XVII, a b 433
COURAYER, Pierre François le, theologian, VI, b 456
Courbaril, tree (Animé), II, a 49
Courbet, Gustave, painter (Millet, J. F.), XVI, b 334
Courcelle-Seneuil, J. G., publicist (Political Economy), XIX, b 409
Courcy, Jean, Sire de, soldier (Carrickfergus), V, b 121
Courier, London (Newspapers), XVII, b 429-30
COURIER, Paul Louis, essayist, VI, a 457-8; (France), IX, a 592; (Pamphlets), XVIII, a 210
Couriers (Ambassador), I, b 578
Courlan, bird (Rail), XX, b 230
COURLAND, district, VI, a b 457; (Russia), XXI, a 76, a b 82, b 87, a 88, a 89, a b 106; dukes of (Mitau), XVI, b 551
Cournot, Antoine Augustin, mathematician (Political Economy), XIX, a 396, b 399-400; (Value), XXIV, a 53, a 55 note, a 58
Courrier de l'Europe (Newspapers), XVII, a 439 note
Cours, Courons or Kors, race (Lithuanians), XIV, *a* b 708
Cours d'Ajot, promenade (Brest), IV, b 232
Cours de Droit Naturel (Jouffroy), XIII, b 764
—— *de la Litterature Française* (Villemain), XXIV, a 249
Course of Time, poem (Pollok), XIX, b 416
Coursed mason work (Building), IV, a b 421
Courser, bird (Plover), XIX, b 239
Courses at sea, calculation of (Navigation), XVII, a 272-5
——, setting and taking in (Seamanship), XXI, b 629-30
COURSING, hunting, VI, b 457-8; (Hare), XI, a 426, a 427
COURT, tribunal, VI, a 458-9. See Courts, and special titles of Courts.
—— of Admiralty, I, a 146, a 147; (Prize), XIX, a b 787; (Prohibition), a 814; (Salvage), XXI, a 250; (Seamen), XXII, b 637; High Court, I, b 144
—— of Aids (Charles VII., France), V, a 357
—— of Aldermen, I, b 418; (London), XIV, a 828
—— of Appeal (Germany), X, b 445; lords as appellate (Parliament), XVIII, b 312; Moslem (Mohammedanism), XVI, a 614. See APPEALS
COURT OF THE ARCHES, II, b 331; (Altar), I, a 564; (Archbishop), II, b 323
—— of Audience (Archbishop), II, b 323
—— of Augmentations (England, Church of), VIII, b 336
——, Bankruptcy, III, b 294, a b 395
—— Baron (Commons), VI, b 186; (Copyhold), b 315
—— of Cassation (Belgium), III, a b 451; (France), IX, b 451
—— Cinque Ports, V, b 687
——, centumviral (Roman Law), XX, b 695-6, *a* 699, a b 700, a 715, a 727
——, Chancery, V, a b 338; (Bankruptcy), III, b 294; (Infant), XIII, a b 4; (Injunction), a b 85; (Rolls), XX, b 643-4; (Trust), XXIII, *b* 633
—— of Chivalry (Precedence), XIX, b 680
—— of Common Hall (London), XIV, *a* 828
——, County, VI, b 455-6, a b 458; (Contempt of Court), b 283
——, Divorce, VII, a 262; (Pleading), XIX, a 231
——, Earl-marshal's (Clarendon), V, a b 702
——, Ecclesiastical (Canon Law), V, b 19; (Convocation), VI, a 290; (Doctor), VII, a 277; (Ecclesiastical Law), a 543; (Heresy), XI, b 659-60; (Intestacy), XIII, b 203; (Perjury), XVIII, b 559; (Pleading), XIX, a 231; (Presbyterianism), a b 701, a 702; (Prohibition), a 814; (Roman Law), XX, a 730; (Will), XXIV, a *b* 603, b 605; Consistorial, VI, a 261; (Archbishop), II, b 323; (Archdeacon), b 324. See COURT OF THE ARCHES
—— of Exchequer, VIII, a 696-7; (Bench), III, a 480
—— Forty days' or Woodmote (Attachment), III, a 46
—— of the Four Burghs (Berwick upon Tweed), III, b 528; (Lothian), XV, b 12
—— of High Commission (England), VIII, b 306, b 314; (Jeffreys), XIII, b 629
—— of honor, France (Duel), VII, b 442-3
—— of Judicature (Appeal), II, a 183; (Rolls), XX, b 643, a 644
—— of Justice (Petitions), XVIII, b 717-8; London, (Street), XXII, b 623
——, King's (England), VIII, b 267-8
——, land (Ireland), XIII, a b 234
—— Leet, VI, a 459; (Manchester), XV, b 471
COURT-MARTIAL, VI, b 459-61; (Army), II, b 513-4; (Military Law), XVI, b 309-2; (Navy), XVII, b 305
——, Municipal, XVII, b 34, a 36
—— of passage (Liverpool), XIV, b 720
——, payment into, XVIII, b 451
——, Portmote and Passage (Chester), V, b 525, b 526
—— of Policy (Guiana), XI, a 223
—— Prize, XIX, a b 787; (Stowell), XXII, b 609
——, Queen's Bench, III, a 480
—— of Referees, XX, b 332
—— of Sessions, Scotch (Appeal), II, b 182, a 183; (Chalmers), V, a b 327; (Kames), XIII, a 842; (Parish), XVIII, b 302; (Petition), a 718; (Pleading), XIX, b 231; (Scotland), XXI, b 560
—— sheriff's, Scotch (Pleading), XIX, b 231
——, star chamber (England), VIII, b 310, a 311
—— of Wards and Liveries (Knighthood), XIV, b 116
——, Westminster (Assize), II, a 638
COURT, Antoine, reformer, VI, b 461; (Camisards), IV, a 658; (Huguenots), XII, a 353; (Presbyterianism), XIX, a 715
COURT DE GEBELIN, Antoine, divine, VI, b 461-2; (Free Masonry), IX, a 660 note
Court of Blessing (Alhambra), I, a 503
—— of Blood (Alva), I, a 570
Court of the Gentiles (Gale), X, a 22
Court-hand, writing (Typography), XXIII, a 725
Court of Love (Chaucer), V, b 390, *a b* 391, a 392, a 393
—— of the Lions (Alhambra), I, b 503
—— poetry (Germany), X, a 475; (Spain), XXII, b 369
Courteen, Sir William, merchant (Barbadoes), III, *a* 310
Courten, William, collector (Sloane), XXII, b 170
Courten's Association (India), XII, b 837, *b* 838
Courtenay, Baudouin de, philologist (Slavs), XXII, b 159, a 160
——, William, bishop (Wyckliffe), XXIV, *b* 745, a b 746, a 747
Courtesans, Chinese (Drama), VII, b 346, a 347; Greek (Slavery), XXII, *b* 138; Hindu (Drama), VII, b 345; rare heathen (Unyoro), XXIII, a 916
Courtesy. See Curtesy
Court-hand, writing (Typography), XXIII, a 725
Courtier, French (Agent), I, a b 251
Courtney's automatic buoy (Lighthouse) (Ill.), XIV, a b 632
Courtois, Henri, chemist (Chemistry), V, a 425; (Gay-Lussac), X, *a* 111
COURTOIS, Jâques and Guillaume, painters, VI, a b 462
COURTRAI, town, VI, b 462; (Flax), IX, a 258; battle of, 1302, VI, b 462; (France), IX, b 480
Courts, Law
—— Athenian (Archon), II, *a* 420; (Areopagus), *a* 425-6; (Solon), XXII, *a* 268
——, Belgian, III, a b 451

Courts (Brazil), IV, *b* 212
—— (Brehon Law), IV, a b 227
—— (Canada), IV, a b 689
—— (Ceylon), V, b 317–8
—— (Chili), V, a b 539
—— (Connecticut), VI, b 257
—— (Egypt), VII, b 627–8
——, English, VI, a 458–9; (Appeal), II, a 183; (Barristers), III, b 340; (Bribery), IV, a 249; (Cinque Ports), V. b 687; (Common Law), VI, a 186; (England), VIII, b 236–7; (Evidence), a 648; (Hundred), XII, *b* 374; (Judicature), XIII, b 774–5; (Nisi Prius), XVII, b 528; (Nonconformity), b 546; (Prerogative), XIX, b 693, a 694; (Prohibition), a 814; (Real Estate), XX, a 320; (Records), b 323–6; (Registration), b 354, a b 355; (Rolls), b 643, a 644; (Shanghai), XXI, a 809; (Star Chamber), XXII, b 473–4; (Summons), b 676; (Term), XXIII, a b 205; (Will), XXIV, a *b* 603, b 605–6
——, France, IX, a 451; (Paris), XVIII, a 289, a 292
—— (Greece), XI, b 77
—— in India, XII, a b 807, b 842; (Hastings), XI, a b 459
—— (Ireland), XIII, b 244, b 245; land, a b 234
—— (Japan), XIII, b 588
—— (Natal), XVII, a 248
—— (New York), XVII, b 476, b 900
—— (Prussia), XX, a b 23
——, Roman (Greece), XI, a b 99; (Prætor), XIX, b 675, a 676; (Province), a 911; (Treason), XXIII, a 559; (Quæstors), XX, a 152; origin of (Roman Law), X, a 696
——, Scotch (Circuit), V, a 690; (Edinburgh), VII, b 574, b 575; (Justiciary), XIII, a b 799; (Sheriff), XXI, b 837, *a* 838; (Scotland), b 560; origin of, b 520, note. See Court of Sessions
—— (Spain), XXII, a 319
—— (Sweden), XXII, b 782
——, United States (Appeal), II, b 183; (Bankruptcy), III, a 297; (Copyright), VI, a 325; (United States), XXIII, a 797, a b 799, a 800, b 804

Courtship of Butterflies and Moths, IV, a 529
Courtship of Miles Standish, XXII, a 919; (Longfellow), XIV, a 872, b 873
Cousa, animal (Phalanger), XVIII, a 741
Cousin, Jean, sculptor (Glass), X, b 600
COUSIN, Victor, philosopher, VI, b 462–9
  educational influences, b 462–3
  estimate of system, b 468–9
  history of philosophy, a 467
  lecturer, the, a b 464
  official period of, b 464–5
  philosophical relations of, a b 467–8
COUSIN, *continued*
  philosophy of, b 465–7
  political repression of, b 463–4

—— (Abelard), I, a 39; (Condillac), VI, b 223; (Eclectic), VII, a b 558; (Ferguson, A.), IX, b 76; (France), a 593; (Pascal), XVIII, a 341, a 343; (Scholasticism), XXI, a 436, *b* 438, b 439, a *b* 440 note, a 441, *a* 442, a 449
COUSTOU, Nicholas and Guillaume, sculptors, VI, a 469
COUTANCES, town, VI, a b 469; (Normandy), XVII, a *b* 552, b 555, b 556
COUTHON, Georges, terrorist, VI, b 469; (Robespierre), XX, a b 619, a b 620, a 621
Coutinho, Francisco Pereira (Brazil), IV, b 205
——, Vasco Fernandez, governor (Brazil), IV, a 205
Couto, Diogo de, historian (Camoens), IV, b 661
COUTTS, Thomas, banker, VI, b 469–70; (Burdett), IV, b 476
Couvade, ceremony (Ethnography), VIII, a 544
Couvain (Honey), XII, a 140
Couvent des Loges (St. Germain-en-Laye), XXI, a 179
Covariants (Curve), VI, a b 637
Covelline (Mineralogy), XVI, a 409
Covenant, blood- (Sacrifice), XXI, a 146
Covenant, Book of the (Pentateuch), XVIII, a 520
"Covenant, National" Scotch (Henderson), XI, a 581; (Milton, John), XVI, a 339, b 340, a 342, b 343. See Solemn League and Covenant
COVENANTERS, party, VI, a 470; (James II.), XIII, b 569; (Dundee, Viscount), VII, b 463–4; (Monmouth), XVI, a 782; (Montrose), a b 822
Covenants (Contract), VI, b 287; (Landlord and Tenant), XIV, b 275–6; (Salt), XXI, a 246; Sacred (Bible), III, a 548
Covenants, Presbyterian (Scotland), XXI, a 523, a b 534, a *b* 535, *b* 537
Cove of Cork (Queenstown), XX. a 182
Cove Oyster, XVIII, a b 113
Covent Garden, district (London), XIV, a 830, a 842, *b* 845, a 846, b 848, a 858, a 859; Market (Hyacinth), XII, b 435; (London), XIV, b 836, b 838; theatre (Colman), VI, a 135; (Pianoforte), XIX, b 81
COVENTRY, city (Ill.), VI, b 470–1; (Shakespeare), XXI, b 776, a b 777, *b* 786; (Warwick), XXIV, a *b* 400
—— chair (Tricycle), XXIII, *b* 595
Coventry Mysteries (English Literature), VIII, a 371; (Drama), VII, b 358–9
Coverchef (Costume), VI, b 411, *a* 413, b 414, a 420
COVERDALE, Miles, bishop, VI, a b 471; (English Bible), VIII, b 344, *a b* 345, a *b* 346, a 347, note
Covered-way (Fortification), IX, a 393; (Tunnelling), XXIII, a 662
"Cover hack" (Horse), XII, a 195
Coverture, law term (Husband), XII, b 416
Covid in Weights and Measures, XXIV, *a* 518
COVILHA, town, VI, b 471
Covilham, Pedro de, explorer (Abyssinia), I, b 64; (Gama), X, b 52–3; (Geography), b 161
COVINGTON, Ken., VI, b 471
Cow, animal (Agriculture), I, 343–7; (Brahmanism), IV, a 190; (Dairy), VI, a 677–81; (Egypt), VII, a 622; (Hera), XI, b 605, a 606; (Milk), XVI, b 315, a b 318; (Mythology), XVII, b 159; (Taboo), XXIII, a 23; abhorence of (Gilgit), X, a 534; tubercle in (Pathology), XVIII, a b 416. See Cattle
Cow-aire, title (Ireland), XIII, b 261, b 262, a 264
Cow tree (Botany), IV, a 77; (Forests), IX. b 357
Cowane's Hospital (Stirling), XXII, a 583
Cowards, primitive punishment of (Crime), VI, a 516
Cowdery, Oliver (Mormons), XVI, a 852
Cowell, Edward Byles, orientalist (India), XII, a b 826 note, a 828 note, b 851; (Sanskrit), XXI, a 288 note, b 289 note, b 291 note, a 292 notes, a b 299 notes, b 303 notes, b 304 notes, a *b* 305, notes
COWELL, John, jurist, VI, b 471; (Piracy), XIX, b 126
COWES, towns, VI, b 471–2; (Hampshire), XI, a b 385; (Wight), XXIV, *b* 593; (Yachting), *b* 758, a b 759, b 760
Cowey Stakes (Middlesex), XVI, a 293
Cowgate, street (Edinburgh), VII, b 572, a 574
Cowie, river (Kincardine), XIV, b 80
Cowitch, plant (Botany), IV, a 80
Cowl, garment (Ireland), XIII, b 263; cover (Ventilation), XXIV, *a* 174
Cowle, Richard, philanthropist (Elbeuf), VII, a 718
COWLEY, Abraham, poet, VI, a 472–3; (Chertsey), V, b 509; (Crashaw), VI, a 490; (Cuca), b 605; (Harvey), XI, a 449, note; (English Literature), VIII, b 373
——, Hannah, "Anna Maria," dramatist (Drama), VII, b 378, note
Cow-parsley (Hemlock), XI, b 577
Cowpens, battle of, 1781 (Tarleton), XXIII, a 923; (United States), b 792
COWPER, William, poet, VI, a 473–4; (English Literature), VIII, a b 382; (Hymns), XII, *b* 629; (Newton, J.), XVII, a 461; (Pitt), XIX, b 151; (Rossetti), XX, *b* 882
——, William, physician, (Anatomy), I, a 713
Cowper's jacketed reservoir (Steam-Engine), XXII, b 495
—— Writing Telegraph, XXIII, a 131
Cow-pox (Jenner), XIII, *a b* 634; (Veterinary Science), XXIV, b 220, a 221; (Vaccination), a b 30; humanized, XXIV, b 30, a 31, a b 32
COWRY, shell, VI, b 474–5; (Dahomey), a 675; (Maldive Islands), XV, b 333, *a* 334
Cowslip, plant (Botany), IV, b 85, b 113; (Primrose), XIX, *a* 757
Cows of Athor, III, *b* 13
Cowthorpe Oak, XVII, b 709
Cow-tribute of Leinster (Ireland), XIII, a 251, b 256
Cox, David, painter, VI, a 475–6; (Gordon), X, b 696; (Painting), XVIII, a 144
——, Hiram, orientalist (Chess), V, *b* 519, a 520
——, Leonard, scholar (Rhetoric), XX, a 530
Cox, Richard, bishop, VI, a 476
——, Robert, index maker, (Encyclopædia), VIII, a 184
COXCIE, Michael, painter, VI, a b 476
COXE, William, historian, VI, b 476
Coxinga, leader (Formosa), IX, b 367
Coxon, John, pirate (Buccaneers), IV, b 368
Cox's process (Gelatin), X, b 119
—— *Sacred Hymns from German* (Hymns), XII, b 622, a *b* 623
Coxwell, Henry T., balloonist (Aëronautics), I, a 175, b 176, a 177, *a b* 178, a 179
Coyet, Petrus Julius (diplomatist (Pufendorf), XX, a 105
Coyne and livery (Brehon Law), IV, a 226; (Ireland), XIII, a 268, b 270
Coyote, prairie wolf (Mythology), XVII, b 155; (Wolf), XXIV, b 662
COYPEL, painters, VI, b 476
COYSEVOX or Coyzevox, Antoine, sculptor, VI, b 476–7; (Sculpture), XXI, b 589–90
Cozens, John, painter (Painting), XVIII, a 144
CRAB (Plate X), VI, a 477–8; (Crustacea) (Ill.), b 560, a 562, b 564–5, a *b* 566, b 567, a b 568, a b 569, *b* 577, b 578–80, *a b* 581, b 585; (Fisheries), IX, b 231, a 235; hermit (Parasitism), XVIII, a 265; pomegranate (Keeling Islands), XIV, b 28
Crab-Apple, II, a 185
CRABBE, George, poet, VI, a 478–9; (Aldeburgh), I, a 418; (Poor Laws), XIX, a 485; (Trowbridge), XXIII, a 627
Crab-louse, insect (Louse), XV, b 26
—— -spider (Arachnida) (Ill.), II, b 262
Crabtree, William, draper (Horrocks), XII, *b* 175, b 176
Crab-wood oil (Oils), XVII, a 768
—— Yaws, disease, XXIV, a 769

Cracked heels (Horse), XII, a b 199
"Cracking process" (Petroleum), XVIII, b 890
Crackled china (Japan), XIII, b 600; ware (Pottery and Porcelain) (Ill.), XIX, b 653, a 654
Crackles, Samuel, inventor (Whalebone), XXIV, a 558
Cracklings, residuum (Oils), XVII, b 764
Cracknels (Baking), III, a 218
CRACOW, city (Plan), VI, a 479-80; (Coal), b 54; Observatory, XVII, b 733; (Poland), XIX, b 317; (Universities), XXIII, b 895, a 905, b 907; battle of, 1794 (Kosciusko), XIV, a 143
Cradle, mountain (Tasmania), XXIII, b 78
——, placer-mining (Gold) (Ill.), X, a b 663
Cradle of Security, play (Shakespeare), XXI, b 786, a 787
Craft Guild, XI, a 232; (Company), VI, b 198-200
Craftsman, The, newspaper (Amhurst), I, a 647; (Pulteney), XX, b 109
Cragus, mount (Lycia), XV, b 94
CRAIG, John, reformer, VI, a 480; *Catechism* of, V, a 192
——, John, mathematician (Napier), XVII, a 189
CRAIG, Sir Thomas, jurist, VI, a 480-1; (Scotland), XXI, b 568
Craigellachie bridge (Bridges) (Ill.), IV, b 300, 302, b 307, a 308
Craigentinny meadows (Edinburgh), VII, b 570; (Sewerage), XXI, b 746
Craigleith sandstone (Building), IV, b 419
Craigmillar, town (Edinburgh), VII, *a* b 571
Craignethan castle (Lanark), XIV, a 251, b 252
Craigneuk, village (Wishaw), XXIV, b 652
Craig Phadraig, hill (Inverness), XIII, b 206, a 207
Craigy Llyn, mountain (Glamorgan), X, b 564
CRAIK, George Lillie, author, VI, a 481
CRAIL, town, VI, a 481
Crajova, town (Krajova), XIV, b 147
CRAKE, bird, VI, a b 481
Cramalt Craig, hill (Peebles), XVIII, a 462
Cramer, Gabriel, mathematician (Algebra), I, b 455
——, Johann Andreas, poet (Germany), X, b 477
——, John, pianist (Moscheles), XVI, b 882
Cramond, town (Edinburgh, County), VII, b 571
CRAMP, disease, VI, b 481-2; cure, mediæval (Ring), XX, a 576, joiner's (Building), IV, b 437
Cramps, coping (Building), IV, a 422
Crampton Furnaces (Iron) (Ill.), XIII, b 299, a 300, a b 332, 334; (Steam-Engine), XXII, a 523
Cran, river (Middlesex), XVI, b 291
CRANACH, Lucas, painter, VI, a 482-3; (Caricature), V, a 92; (Grunewald), XI, a 200; (Luther), XV, b 76, b 80; (Weimar), XXIV, *b* 519
CRANBERRY, VI, b 483; (Horticulture), XII, b 280
—— Bank Iron (United States), XXIII, a b 867
Cranborne Chase (Wilts), XXIV, a b 625
CRANBROOK, town, VI, a 484; (Abbot, Robt.), I, *b* 30
Cranchia, genus (Mollusca) (Ill.), XVI, a b 695
Cranchiadæ, family (Mollusca), XVI, b 695
Crandall, Prudence, teacher (Slavery), XXII, b 909; (Tappan), XXIII, b 922
—— Type Writing Machine, XXIV, a 734
CRANE, bird, VI, a b 484; (Birds), III, b 622, a 630, a b 633, b 637, b 647, a 655; (Zoology), XXIV, b 924; battle of the (Pygmies), XX, b 126
CRANE, machine, VI, b 484-5
—— dance (Theseus), XXIII, a 315, note
Crane-fly (Diptera), VII, b 223
Craneion, cypress grove (Corinth), VI, a b 354
Cranesbill, plant (Geranium), X, a 395
Cranford, novel (Gaskell), X, b 94, a b 95
Cranganore, town (Kodungalúr), XIV, a 136
Crangon, crustacean (Shrimp), XXI, *a* 886
Crangonidæ, family (Crustacea), VI, *a* 585
Crania, skulls (Anthropology), II, b 95, a 96, a 99; (Ape), b 138, b 139; (Brachiopoda) (Ill.), IV, b 170, b 171, b 175, b 176, b 177. See Cranium and Skull
Craniadæ, family (Brachiopoda), IV, a b 176
Cranial nerves (Anatomy), I, a 773-4; (Physiology), XIX, b 49-50
—— operations (Surgery), XXII, a b 723-5
Craniata, division (Reproduction), XX, b 426; (Vertebrata) (Ill.), XXIV, b 195, a 196-200, a 201, b 203
Craniella, genus (Sponges) (Ill.), XXII, a 435
Cranii, ruins (Argostoli). II, a 438; (Cephalonia), V, *a* 299
Craniology (Blumenbach), III, *a* 731; (Combe), VI, b 160-1; (Indians), XII, a b 862, a b 864; (Phrenology), XVIII, b 856
Cranium (Anatomy), I, b 721-3, b 728-30; (Mammalia) (Ill.), XV, b 358, a 359; (Negro), XVII, b 326; (Skeleton), XXII, b 121-4; variations in (Phrenology), XVIII, a 863
—— of the fowl (Birds) (Ill.), III, b 605-16
Crank and connecting rod, invention of (Steam-Engine), XXII, b 493
Crank-pin path, diagrams of (Steam-Engine), XXII, a 524-5
—— shaft, work on the (Steam-Engine), XXII, a 534-6
CRANMER, Thomas, Archbishop, VI, b 485-9
    academic career, b 485
    Catherine's divorce, a b 486
    Church reformation, b 487-8
    Mary's reign, a 488-9
    primate, b 486-7
—— (England), VIII, b 298, a b 299, a *b* 300, b 301, b 302, a 304, a 305; (England, Church of), *a* b 337, b 339, *a* 340; (English Bible), *b* 342, a 346; (Frith), IX, a 694; (Gardiner, S.), X, *b* 69, *a* b 70; (Henry VIII.), XI, b 592, a 593; (Hymns), XII, b 623; (Ireland), XIII, b 269 (Reformation), XX, a 343-4; (Thirty-nine Articles), II, b 571-2
CRANNOGS, islands, VI, a b 489; (Inverness), XIII, b 206
Cranstown, translator (Tibullus), XXIII, a b 373
CRANTOR, philosopher, VI, b 489
Crantz, Albert, historian (Krantz), XIV, b 147
Craon, Robert de, grand master (Templars), XXIV, a 176
CRAPE, fabric, VI, b 489-90
CRASHAW, Richard, poet, VI, a b 490; (Andrewes), II, a 21; (English Literature), VIII, *b* 373; (Hymns), XII, b 626
Crassula, plant (Botany) (Ill.), IV, a 79, a 114, a 117, b 126, b 128
Crassulaceæ, class (Botany), IV, b 105, b 115, b 137
CRASSUS, Lucius Licinius, orator, VI, b 490; (Cicero), V, a 673, a 674; (Rome), XX, a 826
CRASSUS, Marcus Licinius, triumvir, VI, b 490; (Cæsar), IV, *b* 564, a 566; (Euripides), VIII, a 595; (Persia), XVIII, a b 607-8, note; (Rome), XX, b 779, a b 781, a b 782, note, b 783, *a* 784
——, Publius, general (Cæsar), IV, a b 565
Cratægus, plant (Arboriculture), II, a 281, b 282; (Hawthorn), XI, a b 479
Cratæva, plant (Guaco), XI, *b* 202
Crater lake (Oregon), XVII, b 845
—— lakes (Philippine Islands), XVIII, b 762, a 763, a b 766
Craterium (Protozoa), XIX, a 863
Craters, volcanic (Geology), X, a 215, b 220
Craterus, regent, Macedonia, (Antipater), II, a 118
CRATES of Athens, comedian, VI, b 490
CRATES of Mallos, grammarian, VI, b 490; (Gloss), X, a b 612; (Grammar), XI, a 39; (Macedonian Empire), XV, a 144; (Map), a 524; (Stoics), XXII, a 600
CRATES of Thebes, philosopher, VI, b 490-1; (Antisthenes), II, b 121
Crathis river (Lucania), XV, *a* b 39
Crati river (Calabria), IV, b 577; (Italy), XIII, b 449
CRATINUS, comedian, VI, a 491
CRATIPPUS, historian, VI, a 491
Cratylus, dialogue (Plato), XIX, a 212, b 214, note, b 218
Crau, district (Bouches-du-Rhone), IV, *a* 154
CRAUFORD, Quentin, historian, VI, a 491
Cravat (Costume), VI, b 420, a b 422
Crawford, James Ludovic Lindsay, Earl of (Observatory), XVII, a 731
CRAWFORD, Thomas, sculptor, VI, b 491
CRAWFORD, William Harris, senator (United States), XXIII, b 807, a 809, b 810, *a* 811, b 837; (Whig), XXIV, *b* 894
Crawford on Prison Discipline, XIX, b 769, *b* 772
CRAWFURD, John, author, VI, b 491; (Borneo), IV, a 51, b 52, a 54
Crax, bird (Curassow), VI, a b 626
CRAYER, Gaspard de, painter, VI, b 491-2
Crayfish, Astacus (Crustacea) (Ill.), VI, b 568, a 569, b 573 note, b 574, a 582
CRAYON, drawing material, VI, a 492
——, Geoffrey, pseudonym (Irving, W.), XIII, b 383
Crazy mountains (United States), XXIII, b 847
Cream (Adulteration), I, *a* b 153; (Butter), IV, a 526; (Dairy), VI, a b 679; (Milk), XVI, b 316
"Cream City" (Milwaukee), XVI, b 352
CREAM OF TARTAR, VI, a b 492; (Chemistry), V, b 495; (Tartaric Acid), XXIII, a 75
Crease, Major, inventor (Filter), IX, b 147
CREASOTE or Creosote, VI, b 492-3; (Carbolic Acid), V, a b 76; (Tar), XXIII, a 63, a b 64; oil (Fuel), IX, b 710
Creatine (Nitrogen), XVII, b 533
Creation (Adam), I, b 124, a b 125, a 126; (Anthropology), II, b 97-8, a 101; (China), V, a 558; (Chronology), b 619; (Cosmogony), VI, b 394-6; (Eleatic School), VIII, b 3; (Evolution), a 659; (Kabbalah), XIII, a 820-1; (Logos), XIV, a b 813; (Mexico), XVI, a 216; (Mohammedanism), XVI, b 571, a 625; (Mythology), XVII, a 163; (Pentateuch), XVIII, b 517-8; date of (Albumazar), I, a 404; days of the (Sabbath), XXI, a 134; theory of (Baader), III, b 151; (Philo), XVIII, b 775, b 776; (Plato), XIX, a b 221
Creation, epic (Blackmore), III, a 695; oratorio (Haydn), XI, *b* 482; (Music), XVII, a 107
Creation La, prose (Quinet), XX, *b* 190
Creation, molecular (Atom), III, b 43-4

Creation of parts (Drama), VII, b 342
—— of peers (Peerage), XVIII, a b 475
—— of Trusts, XXIII, a 635
CRÉBILLON, Claude Prosper Jolyot, novelist, VI, a 493; (Collé), a 128; (Voltaire), XXIV, a 309
CRÉBILLON, Prosper Jolyot, de, poet, VI, a b 493; (Drama), VII, b 367-8; (France), IX, b 585
Crèches, day-nurseries (Paris), XVIII, b 285 b 288
CRÉCY or Cressy, town, VI, b 493; battle of, 1346, b 493; (Edward, Black Prince), VII, b 595; (England), VIII, b 286; (France), IX, a 482
Credenza, council (Italy), XIII, b 482
CREDI, Lorenza Andrea di, painter, VI, b 493; (Schools of Painting), XXI, b 452, a 462; (Verrochio), XXIV, *a* b 190
Credibility (Probability), XIX, b 788-9, b 798
Credibility of the Gospel History (Lardner), XIV, *b* 313; (Paley), XVIII, b 186
Credit, debt facility (Communism), VI, a 191; (Money), XVI, b 747; state (National Debt), XVII, a 251
—— Companies (Banking), III, a 283
CRÉDIT FONCIER and CRÉDIT MOBILIER, VI, b 493-4; Foncier (Banking), III, a 292; (France), IX, b 459; Société du (Lotteries), XV, a 13; Mobilier, France (Banking), III, a 292
—— Mobilier fraud (United States), XXIII, a 832; investigation of (Pacific Railroads), XIX, a b 918
—— societies (Coöperation), VI, a b 301
CREDITON, town, VI, a 494; (Devonshire), VII, a 122, a 123
Creditor (Obligation), XVII, a *b* 724; and debtor (Statute Merchant), XXII, b 488
Credner, Karl August, theologian (Canon), V, *a* 3, b 9 note, a 10, a 11; (Gospels), X, a 747, a 749; (Joel), XIII, b 715, a b 716, b 717
Crednerite (Mineralogy), XVI, a 403
Credos, Sierra de (Spain), XXII, a b 308, a 310
Cree, river (Kirkcudbright), XIV, b 99
—— tribes (Indians), XII, *a* 865, b 867, a 871
CREECH, Thos., translator, VI, a 494
Creed (Bráhma Samáj), IV, b 181, a 182
Creed, Exposition of the (Pearson), XVIII, b 459
Creed, primitive (Irenæus), XIII, b 279; of Pius IV. (Vatican Council), XXIV, a 122; Tridentine (Pius IV.), XIX, a 164
—— subscription (Tulloch), XXIII, a 644
Creedmoor rifle range (Long Island), XIV, a 877
CREEDS, VI, a 494-500
  Ante-Nicene Fathers, b 494-5
  Apostles' Creed, b 496-7
  Athanasian Creed, a 497-9
  New Testament, b 494
  Nicene Creed, b 495-6
  Reformed Confessions, a 499-500

—— (Greek Church), XI, b 138, a *b* 139, a 141; (Heresy), a 657; (Lutherans), XV, a 86; early (Dogmatic), VII, a *b* 294; rise of (Christianity), V, b 603. See Confession of Faith
Creeks, Indians (Alabama), I, b 389; (Georgia), X, b 393, a 394; (Indians), XII, *a* 868, a 872; (Indian Territory), a b 875; (Totemism), XXIII, a 500; treaty with (Tammany Society), a 920
Creek Town (Calabar), IV, b 576
Creels (Cotton), VI, b 438
Creepers, Certhiidæ (Birds), III, b 643; or dumpies (Poultry), XIX, a 666
Creeps, displacements (Coal) (Ill.), VI, b 60
CREFELD, town, VI, b 500; (Silk), XXII, a 72
——, battle of, 1758 (France), IX, a 519
Creighton, Charles, physician (Scott), XXI, b 570 note. See List of Contributors
——, Henry, manufacturer (Gaur), X, *b* 103, a b 104
Creighton, Mandell, historian (Pius II.), XIX, *b* 163. See List of Contributors
Creil, town (Oise), XVII, a 771
Crell, Nicholas, jurist (Saxony), XXI, a 370
Crelle, August Leopold, mathematician (Tables), XXIII, b 11, *a* 12
Crelle's Journal (Steiner), XXII, *a* 559
CREMA, town, VI, b 500; (Italy), XIII, b 483
Crémaillère, lines en (Fortification), IX, a 384, *a* 386
CREMATION, VI, b 500-2; (Funeral Rites), IX, a 724, *a* b 725, a 726; (Hygiene), XII, b 603; ancient (Barrows), III, a 343; Aztec (Mexico), XVI, b 221; impious (Persia), XVIII, b 579
Cremna, town (Pisidia), XIX, a 139
Cremocarp (Botany) (Ill.), IV, b 136, b 137
CREMONA, district, VI, a 502
——, city, VI, a 502; (Campanile), IV, b 665; (Schools of Painting), XXI, a 456, a 463, a 465; (Virgil), XXIV, a b 268; Violin makers of, a b 263
Cremona's theory (Curve), VI, b 640-1
Cremonini, Cesare, astronomer (Averroes), III, b 131-3
Cremorne, resort (Chelsea), V, b 396
Crenelle (Architecture), II, a 406
Crenothrix forms (Schizomycetes) (Ill.), XXI, a 421, a 422, b 423
Crenides. See PHILIPPI
CREOLE, VI, a b 502; (Brazil), IV, a 211; (Mexico), XVI, b 227, a 228, a b 897, a 898; (Negro), XVII, b 328, note; (New Orleans), a b 415; speech (St. Thomas), XXI, a 210
CREON, son of Lycæthus, myth, VI, b 502
CREON, son of Menœceus, myth, VI, b 502
Creophylidæ, poets (Greece), XI, b 122
Creosol, distillate (Tar), XXIII, a 63
Creosote. See Creasote
Crepitus defined (Surgery), XXII, a 716
Créqui, François de Bonne, marshal (Saint-Evremond), XXI, a 177
Crescens, Cynic (Justin), XIII, *b* 799
Crescent and the Cross (Warburton), XXIV, b 388
Crescent, buildings (Buxton), IV, a 534
—— in decoration (Arabesque), II, b 204
Crescentia, martyr (Vitus, St.), XXIV, a 286
Crescentius or Crescenzio I., Giovanni, patrician (Rome), XX, b 807
—— or Crescenzio II., John, patrician (John XV., XVI., XVIII.), XIII, a *b* 722; (Otho III.), XVIII, *a* 70; (Rome), XX, a 808
Crescenzio, cardinal (Trent, Council of), XXIII, a b 581, a 582, b 584, a 586
CRESCIMBENI, Giovanni Maria, poet, VI, b 502; (Carnival), V, a b 108
Cresconius, bishop (Canon Law), V, b 16
Cresol, distillate (Coal Tar Colors), XVIII, a 905; (Tar), XXIII, a 63
CRESPI, Daniele, painter, VI, b 502
CRESPI, Giovanni Battista, painter, VI, b 502
CRESPI, Giuseppe Maria, painter, VI, b 502-3
Cress, plant (Botany), IV, b 133; (Horticulture), XII, b 293; (Nasturtium), XVII, b 245; Indian (Botany) (Ill.), IV, b 99, a 100; (Horticulture), XII, a 297
Cresseid, Testament of (Henryson), XI, a 604
Cressingham, Sir Hugh, judge (Scotland), XXI, *b* 509; (Walpole), XXIV, b 347
CRESSWELL, Sir Cresswell, jurist, VI, a 503
Cressy, town. See CRÉCY
CREST, town, VI, a 503
——, the (Heraldry), XI, a b 633
Crested Butte, mountain (Colorado), VI, b 145
—— fowl (Poultry), XIX, b 665-6
Cretaceous age (Reptiles), XX, a b 479
—— Corals, VI, b 336, a 337, a 341, a 343
—— fossils (Birds), III, a 632; (Distribution), VII, b 245, 246; (Greenland), XI, a 150; (Plesiosaurians), XIX, b 233; (Zoology, American), XXIV, b 925
—— formation, North America, I, a 597; (California), IV, *b* 620; (Geology), X, a 317-9, b 330; (Russia), XXI, b 81-2; (Sahara), b 158; (Scotland), a b 544; (Sweden), XXII, a 778; (Texas), XXIII, a 221; (Mammalia), XV, b 379
Cretan peasant Lace (Ill.), XIV, *b* 189-90
Crêt de la neige, mountain (France), IX, a 446; (Jura), XIII, a 791
CRETE, island (Map), VI, b 503-6
  classical age, b 504-5
  history, b 504-6
  physical features, b 503-4
  political features, a 506
  products, b 504
  Turkish period, b 505-6
  Venetian period, b 505

—— (Archæology), II, a 305, a b 306; (Cybele), VI, a 657; (Ganymede), X, *b* 65; (Greece), XI, b 82-3, a *b* 108, a 109, a 119 b 134, b 136; (Homer), XII, a 123; (Minos), XVI, b 500; (Numismatics), XVII, b 650, b 660; (Philistine), XVIII, a 771; conquest of (Turkey), XXIII, *b* 686; (Venice), XXIV, b 158-9; legends of (Labyrinth), XIV, b 180
Crétin, Guillaume, poet (France), IX, a 570; (Marot), XV, a 570
CRETINISM, disease, VI, b 506-7; (Cagots), IV, b 569; (Insanity), XIII, a b 105; (Pathology), XVIII, a b 382, a 393, a 394 note
CREUSE, department, VI, b 507-8; river, VI, a 508; (France), IX, a 446, b 457
Creusot, town. See CREUZOT
CREUTZ, Gustaf Philip, poet, VI, a 508; (Sweden), XXII, a 794
Creux du vent, mountain (Neuchatel), XVII, a 370
CREUZER, Georg Friedrich, philologist, VI, a b 508
Creuznach, town (Kreuznach), XIV, b 148-9
CREUZOT or Creusot, Le, town, VI, b 508; (Saône et Loire), XXI, *b* 316; coal (Iron), XIII, a 299
Crevasse (Mississippi), XVI, a 545
—— in Glacier, X, a b 559, a 560; (Geology), X, b 249
Crevaux, Jules, explorer (Plate), XIX, b 199
Crèvecœur, fort (Accra), I, a 87
—— fowl (Poultry), XIX, b 665
——, St. John de, consul (St. Johnsbury), XXI, a 185
CREVIER, Jean Baptiste Louis, historian, VI, b 508; (Universities), XXIII, b 914
Crew (Navy), XVII, a 304
CREWE, town, VI, b 508-9; (Cheshire), V, a b 512, a 513

Crewe engine (Railway), XX, b 233
——, Nathaniel, bishop (Baker), III, a 215; (Bamborough), b 264
Crewels, worsted (Knitting), XIV, a 128
Crex, bird (Rail), XX, a 230
Crib, players' term (Cribbage), VI, a 509
CRIBBAGE, game, VI, a 509-10
Criblé method (Engraving), VIII, a 389
Cribrariaceæ, class (Protozoa), XIX, a 863
Cricetinæ, sub-order (Mammalia), XV, a 424
Cricetus, genus (Mammalia), XV, a 422, a 424; (Mouse), XVII, a 11, b 12
Crich, community (Brehon Law), IV, b 225, a 227
CRICHTON, James, VI, b 510-11
——, Sir William, chancellor (Scotland), XXI, *b* 515, a b 516
—— Royal Institution, (Dumfries), VII, a 456
Crichtonite (Mineralogy), XVI, b 401
CRICKET, game, VI, b 511-5
  history, a 514-5
  implements, b 511-2
  laws, b 512-4
  literature, a 515
  method, a b 512
—— (London), XIV, a *b* 833
CRICKET, insect, VI, a b 511; (Insects), XIII, b 159; (Mimicry), XVI, a 355
CRICKLADE, town, VI, a 515; (Wilts), XXIV, *a* b 626
CRIEFF, town, VI, a 515
Criffel summit (Kirkcudbright), XIV, *b* 99
CRIME, VI, a 515-7; (Criminal Law), VI, a 520; (Indictment), XII, b 883, a 884; (Infant), XIII, b 4; (Insanity), a b 118; (Ireland), b 244-5, a 276; (Italy), a b 473; (Law), XIV, a 361; (London), a 843-4; (Nepal), XVII, a 352; (Sanctuary), XXI, a 268; (Scotland), a 553; apprehension of (Police), XIX, a 345, b 346; in British army (Military Law), XVI, b 311; habitual (Criminal Law), VI, a 522, note; liability for (Women), XXIV, b 908, b 909; reduction (Reformatories), XX, b 901; at sea (Admiralty), I, b 145, a 146, a 147; statistics (England), VIII, a b 227, *a* b 228; (France), IX, b 451-2; (Paris), XVIII, a 289. See Penalties, Punishment
CRIMEA, peninsula, VI, b 517-20; (Black Sea), III, a b 691; (Goths), X, b 757; (Mongols), XVI, a-b 775; (Russia), XXI, a 80, a b 82, *a* 85, a b 87, a 93; Khanate of (Russia), XXI, b 100, a 102, a 108; Russian annexation of, 1783 (Turkey), XXIII, b 688; Russian invasion of, 1771 (Turkey), b 688
Crimean antiquities (Archæology), II, a 302; Artemis, II, a 563; engravings (Gems), X, b 124-5; Plate, XIX, a 193; Tartars, XXIII, b 76
Crimean war, 1854 (Aberdeen, Earl), I, b 48; (Ambulance), a 585; (Balance of Power), III, a 231; (Cavour), V, b 239; (Clarendon), *b* 706, note; (Clyde, Lord), VI, b 42; (Cobden), a 81; (England), VIII, a b 328; (Europe), a 629; (France), IX, a 549; (Germany), X, b 486; (Gortschakoff), *a* 700; (Greece), XI, b 112; (Hardinge), a 424; (Italy), XIII, b 499; (Kars), XIV, b 8; (Lyons), XV, b 114; (Menshikoff), XVI, b 17; (Mickiewicz), b 250; (Napoleon III.), XVII, b 234; (Navy), a 292; (Nicholas I.), a 499; (Pelissier), XVIII, a 486; (Persia), a 664; (Raglan), XX, b 227; (Russia), XXI, a b 110; (Sebastopol), *a* b 647; (Turkey), XXIII, b 692; (Typhus), b 718; Austrian attitude, III, b 120; British Army in, II, a 501; Artillery in, b 576; Russian troops in (Army), a 535
Crimes and Punishments (Beccaria, C. B.), III, a 412
Criminal agreements (Conspiracy), VI, a b 262
—— classes (India), XII, a b 818
—— code, England (Government), XI, b 17
—— conversation (Damages), VI, a 695
—— Courts, VI, b 458; (England), VIII, a b 237; (Quarter Sessions), XX, a 166; (Summary Jurisdiction), XXII, a 675-6; (Sheriff), XXI, b 837, *a* 838
Criminalis, Antonio, Jesuit (Missions), XVI, b 536
CRIMINAL LAW, VI, a 520-2; (Accessory), I, b 79; (Arbitration), II, a 274; (Feuerbach), IX, b 108-9; (Libel and Slander), XIV, b 504, a b 506; (Misdemeanor), XVI, b 525; (Pleading), XIX, a b 231; (Prerogative), a 693; (Process), a 810; (Rome), XX, a 781, note; (Romilly), a b 861; (Summary Jurisdiction), XXII, a 675-6; (Summons), a 677; (Women), XXIV, b 675, a b 676; (Wreck), a *b* 723; Aztec (Mexico), XVI, a 219; reform of British (Peel), XVIII, a 465. See Law, Criminal
Criminal Law, Stephen, James Fitzjames (Misdemeanor), XVI, b 525
"Criminal Laws Consolidation Act, VI, a 261
—— lunatics (Insanity), XIII, b 118
—— Negligence, XVII, a 325
—— trials (Jury), XIII, a b 796-7; (Police), XIX, b 346, a 347, b 354; (Summary Jurisdiction), XXII, a 675-6. See Criminal Courts
Crimissus, battle of, 340 B.C. (Carthage), V, a 141
CRIMMITZSCHAU, town, VI, a b 522
Crimson Clover (Agriculture), I, b 333
—— color (Dyeing), VII, b 496-7; (Kermes), XIV, b 51. See COCHINEAL
Crim or Crimean Tartars. See Krim Tatars
Crimthand, king (Ireland), XIII, b 251, a 252
Crinan canal (Canal), IV, a 695; (Scotland) XXI, b 553
Cringles (Sail), XXI, a 163
Crinoidea, order (Echinodermata) (Ill.), VII, *a* 544, a b 550-2, *a b* 555
Crin vegetal (Fibres, Textile), IX, a 116
Crioceridæ, family (Insects), XIII, a 156
Criodrilus, genus (Worm), XXIV, b 712, *a* 713
Crises, causes of commercial (Rodbertus), XX, a b 632; (Socialism), XXII, a 224, b 231
Crisis in disease (Hydropathy), XII, a b 577; (Typhus Fever), XXIII, a b 719
Crisis, The (Paine), XVIII, a 141
CRISPIN and CRISPINIAN, saints, VI, b 522; (Soisson), XXII, a 261
Crispin Rival de son Maître, drama (Le Sage), XIV, *b* 472, *a* 473, a 474
Crispinus, courtier (Martial), XV, a 586, a 587
Crispus, Flavius Julius, Cæsar (Constantine I.), VI, *b* 267
Criss, girdle (Ireland), XIII, a 263
CRISSA or Crisa, city, VI, b 522; (Phocis) XVIII, b 814
Crissæan war, 594 B.C. (Amphictyony), I, b 678
Crista acoustica (Anatomy), I, b 784, a 786
Cristatella, genus (Polyzoa) (Ill.), XIX, b 445, b 446, b 451
Cristellaria, genus (Foraminifera) (Ill.), IX, a b 332
Cristina, island (Spain), XXII, a 315
Cristofano, painter. See FRANCIABIGIO
Cristofori or Cristofali, Bartolomeo, inventor (Music), XVII, a 101; (Pianoforte), XIX, *b* 77, b 78, *a b* 79, a 80, *b* 81
Criterion of Miracles, Douglas (Paley), XVIII, b 186
Critheis, nymph (Homer) XII, a 112
CRITIAS, orator, VI, b 522; (Evolution), VIII, b 662
Critias, dialogue (Plato), XIX, b 220, a 221, a 222
Critic, play (Sheridan), XXI, a 834, b 835
Critical Bibliographical books, III, b 563
—— days, doctrine of (Medicine), XV, b 810
—— philosophy (Jacobi), XIII, a 547-8; (Kant), a 857, b 860
Critical Remarks on the Hebrew Scriptures (Geddes), X, b 114
Criticism (Alexandrian Schools), I, a 441; (Bowles), IV, b 162; (Church History), V, b 666-7; (Coleridge, S. T.), VI, a 124; (Diderot), VII, b 169; (Fonblanque), IX, b 315; (France), a 590, a b 597; (Hazlitt), XI, a b 491; (Homer), XII, a 118-20; (Renaissance), XX, a b 398; (Sainte-Beuve), XXI, b 172-4
——, Biblical (Baur), III, a 388-9; (Bengel), III, b 493; (Buxtorf), IV, a b 536; (De Wette), VII, b 124-5; (Eichhorn), a 684; (Simon), XXII, a 89, a 90; history of (Gospels), X, b 747-9
——, dramatic (Janin), XIII, b 574
——, Dutch school of (Hemsterhuis), XI, a 580
Criticism, Essay on, Pope's, XIX, b 498, b 501; Villemain's, XXIV, b 248
——, German (Herder), XI, a 651; Lessing's (Germany), X, b 479; (Nicolai), XVII, b 502; (Niebuhr, B. G.), XVII, b 505-6; (Schiller), XXI, a 414; rise of (Scaliger), a b 379-80
——, liberty of (Libel and Slander), XIV, b 505
—— of schools (Logic), XIV, b 807-12
Critique of Judgment (Æsthetics), I, b 195; (Kant), XIII, a 857, a b 864; (Metaphysic), XVI, b 90
—— *of practical Reason* (Kant), XIII, a 857, a 864; (Metaphysic), XVI, a b 90
—— *of Pure Reason* (Jacobi), XIII, a 548; (Kant), b 854, a 857, a 858, b 859, a b 860, a 861, a 863, b 864; (Metaphysic), XVI, a b 88, a 90, a 91; (Scepticism), XXI, b 400, note, a 401
Critiques et Portraits Littéraires (Sainte-Beuve), XXI, b 172
Critius of Athens, sculptor (Archæology), II, *a* 307
Crito, dialogue (Plato), XIX, b 207, b 210, a 213
CRIVELLI, Carlo Cavaliere, painter, VI, b 522-3; (Schools of Painting) (Ill.), XXI, b 454, b 462, a 465, b 467
——, Uberto. See pope URBAN III.
Croagh Patrick, mountain (Ireland), XIII, b 220; (Mayo), XV, a 657
CROATIA, district, VI, a 523-4; conquest of (Hungary), XII, b 382
—— and Slavonia, province (Hungary), XII, *a* b 375, b 377, *a* b 378, *a b* 379, *a b* 380, *a b* 381, a b 386, b 388; literature of (Servia), XXI, a b 724
Croats, race (Croatia), VI, b 523-4; (Hungary), XII, b 379; (Servia), XXI, a b 720
Crobos, tribe (Gold Coast), X, *a* 673
Croce, Giulio Cesare, street musician (Fool), IX, a 321
Crochet, art (Knitting), XIV, a 128
Crociato in Egitto, opera (Meyerbeer), XVI, b 230-a 231
Crocidura, genus (Mammalia), XV, *a* 407
Crocin, dye (Saffron), XXI, a 154

CROCODILE, VI, a 524-5; (Anatomy), I, b 728; (Egg), VII, b 604; (Egypt), b 617, a 618, a 622; (Tobit), XXIII, b 456, note; axial skeleton of (Skeleton), XXII, b 118, *a* b 119, *a* 120, a *b* 121, a 124; Indian (Micronesia), XVI, a 268; legend of (Saffron), XXI, b 153; web-footed (Soudan), XXII, b 291. See Crocodilia
—— river. See Limpopo
Crocodilia, order (Birds), III, a *b* 622-3, *b* 628, *a* 629, a 630; (Reptiles) (Ill.), XX, b 451-2, b 456-7, *a* 458, a 459, a b 460, b 462, b 466, a b 467, a b 468, a *b* 469, a 470, a b 471, *a* b 472, *a* b 473, a b 474, a *b* 475, a *b* 476, *a* 477, *a b* 478, a *b* 479, a 481, a b 482, a b 483, a b 485, b 486; classification of (Zoology), XXIV, b 851; olfactory organs of (Smell), XXII, a 176
Crocodilopolis, town (Egypt), VII, b 671
Crocoisite (Mineralogy) (Ill.), XVI, b 419
Crocus, plant (Botany), IV, b 87, a 88, a 94, a 114, b 132, a 134; (Horticulture), XII, b 262; (Saffron), XXI, b 153; autumn, plant (Colchicum), VI, b 113
CRŒSUS, king of Lydia, VI, b 525; (Babylonia), III, b 163; (Egypt), VII, b 644; (Ephesus), VIII, b 414; (Greece), XI, b 88; (Ionia), XIII, a 211; (Numismatics), XVII, b 677; (Persia), XVIII, b 577-8, note; (Plate). XIX, b 190; (Solon), XXII, b 268
CROFT, William, musician, VI, a 526
Crofters, tenants (Inverness), XIII, b 205-6; (Scotland), XXI, a b 555; evictions of (Skye), XXII, a 135; (Sutherland), b 764. See Crofts
Crofting (Bleaching), III, b 704, b 712, a 713
Crofton, H. T., author (Gipsies), X, a 547 note, b 549, b 551
——, Sir Walter Frederick (Prison Discipline), XIX, a 774
Crofts, tenures (Agriculture), I, a b 268; (Forfar), IX, a 362; (Orkney), XVII, b 871
Croghan, George, soldier (Fremont), IX, b 674
—— Hill (Kings Co., Ireland), XIV, b 88
—— Kinshela, hill (Wexford), XXIV, b 549
Croix-de-Rau, town. See ROCROI
Croix-Rousse, hill (Lyons), XV, *b* 111, *a* 112, *b* 113, a 114
Croke, Richard, scholar (English Literature), VIII, a 370
CROKER, John Wilson, author, VI, a 526
CROKER, Thomas Crofton, humorist, VI, b 526-7
Croll, James, geologist (Astronomy), II, a 696 (Geology), X, a 193, *a* b 194, b 196, a b 202, b 227, b 251 note, b 252; (Glacier), X, b 562
CROLY, George, divine, VI, a 527
CROMARTY, county, VI, a b 527; (Miller, Hugh), XVI, a b 331; (Ross), XX, b 876-8; (Scotland), XXI, a *b* 551, b 560
—— Firth (Ross), XX, b 876; (Scotland), XXI, a 517
——, town, VI, b 527
CROME, John, painter, VI, b 527-8
Cromford, Arkwright's mill at, II, a 475
CROMLECH, monuments, VI, a 528; (Antrim), II, a 126; (Architecture), b 335, a 395; (Barrows), III, a 343; (Channel Islands), V, b 340; (Clare), b 702; (Cornwall), VI, b 378; (Devonshire), VII, b 122; (Druidism), a 413; (Down), a 332; (Inverness), XIII, b 206; (Palestine), XVIII, a 178; (Pembroke), a 493; (Rude Stone Monuments), XXI, b 56, b 57; (Wicklow), XXIV, a 589
Cromlix, town (Dunblane), VII, b 460
Crommyonian Sow, myth (Theseus), XXIII, a 315
Cromorne, horn (Tournebout), XXIII, b 520
CROMPTON, Samuel, inventor, VI, a b 528; (Cotton), b 440, *a* b 441, a b 443, a 449
Cromwell, Henry, soldier, VI, a 529, note
CROMWELL, Oliver, Protector, VI, b 528-34
  early domestic history, b 528
  estimate of, b 533-4
  failure of new constitution, a 533
  foreign policy, b 532-3
  Irish pacification, b 530-1
  military campaigns under Fairfax, b 529-30
  parliamentary career, first, a 529
  protectorate established, a b 532
  Scotch campaign as Captain-general, a 531-2
—— (Army), II, a 499; (Baxter), III, a 394; (Biddle), b 575; (Blake), a 698; (Borough), IV, a 57; (Boyle, Roger), a 168; (Bradshaw), *a* 180; (Bristol), a 316; (Cambridge), a b 643, a 647; (Charles Gustavus), V, a 364; (Digby), VII, a 192; (Drogheda), a 407; (Dryden), b 421, *a* 422; (England), VIII, b 311-2; (England, Church of), b 338; (Fairfax, Lord), a b 746, note, a 747; (Fifth Monarchy Men), IX, b 134; (Finance), *b* 157; (France), a 505; (Gloucester), X, b 614, b 616; (Hertford), XI, a 690; (Horse), XII, b 204; (Huntingdon), a b 414; (Inverness), XIII, a 207; (Ireland), a 269, a b 273; (Ireton), *a* 281; (Jamaica), b 560; (Lambert, John), XIV, a *b* 237; (Lilburne), *b* 647; (London), a 859; (Milton, John), XVI, a 343-b 346; (Missions), b 537; (Monk), a 779; (Navy), XVII, a b 290; (Numismatics), a 674; (Owen, John), XVIII, a 89; (Pope), XIX, a 498; (Post-Office), b 579-80, note; (Presbyterianism), a 708, a 709, b 711-12; (Quakers), XX, a 155; (Scotland), XXI, b 535, a 536-7; (Seals), b 614; (Spenser), XXII, a 409; (Swansea), b 771; (Usher), XXIV, a 22; (Vane), *a b* 72; (Waller), b 350, a 351; (Wexford), *b* 550; (Wheelwright), b 893; (Whitelock), *b* 583, *a* 584; (Wicklow), *a* 589
——, Richard, protector, VI, a 529 note, b 533; (Fleetwood), IX, b 264; (Lambert, J.), XIV, b 237-8; (Milton), XVI, b 346
CROMWELL, Thomas, earl of Essex, VI, a 534-6
  administrative character, b 535-6
  fall of, a b 536
  period of private life, a b 534
  policy of, a b 535
  Wolsey, service under, b 534-5
—— (Cranmer), VI, b 487-8; (England), VIII, a b 300-2; (England, Church of), *b* 336, a 337; (Henry VIII.), XI, b 592, a 593; (Latimer), XIV, *b* 326; (Monachism), XVI, b 738; (Precedence), XIX, a 682, note; (Registration), XX, b 356
Cromwell's Fort (Ayr), III, b 142
Cronaca (Italy), XIII, a 512
Crónica rimada del Cid (Spain), XXII, *a* 367
Cronion, hill (Olympia), XVII, a 787, a 790
Cronk-ny-Irree-Lhaa, mountain (Man), XV, b 457, a 458
CRONSTADT, Russia (Map), VI, b 536-7; (St. Petersburg), XXI, *b* 200, *b* 203, a 204
CRONSTADT, Transylvania, VI, a b 537
Cronsted, chemist (Nickel), XVII, b 500
Cronstedtite (Mineralogy), (Ill.), XVI, b 431
Cronus, god (Mythology), XVII, *a b* 161, note, a 162; (Saturn), XXI, b 335-6
Crook (Horn, French), XII, b 171
Crooked Lake (New York), XVII, b 462
Crookes, William, chemist (Gold), X, *b* 665; (Spectroscopy), XXII, b 390, *a* 391; (Thallium), XXIII, b 237, b 238; radiometer (Pneumatics), XIX, a 261
Crookesite (Mineralogy), XVI, a 408; (Thallium), XXIII, a 238
Croomen or Croos, people (Krumen), XIV, a 150
Croon, Theodore van, archbishop (Episcopacy), VIII, b 436
Croonian lectures (Hunter, J.), XII, a 403
Cropping cloth (Wool), XXIV, a 697
—— shears (Machine Tools) (Ill.), XV, a 158
Crops (Arabia), II, a 213; early (Agriculture), I, b 262; cultivated (Agriculture), b 314-41; mediæval (Ireland), XIII, b 261; rotation of (Agriculture), I, a 303-4; (Italy), XIII, b 460-1
CROQUET, game (Ill.), VI, b 537-9
Croquis, Alfred, nom-de-crayon of MACLISE, XV, b 165
Crosby Hall (London), XIV, a b 856
Crosby's indicator (Steam-Engine) (Ill.), XXII, b 510, a 511 note
Crosfell, mountain (Cumberland), VI, b 615
Crosier. See Crozier
CROSS (Ill.), VI, a 539-42
  Christ's Cross, b 539-40
  crozier, b 542
  decorative, b 540-1
  heraldry, a b 542
  punishment by, a b 539
—— in Heraldry (Ill.), XI, b 610, b 619, a b 620; VI, a b 542
—— of Christ, VI, b 539-40; (Elder, plant), VII, b 719; (Persia), XVIII, b 625, a 626; (Relics), XX, *a* b 369; discovery of the true (Jew, Wandering), XIII, b 685; its restoration (Syriac Literature), XXII, *a* 885
——, spitting on the (Templars), XXIII, a b 180-1
——, symbol of (Image Worship), XII, a 751
——, river (Calabar), IV, *a* b 576
——, Marian, novelist. See Eliot, George
——, Sir Richard Assheton, politician (Commons), VI, b 187; (Glasgow), X, b 571
——, Robert, divine (Presbyterianism), XIX, *a* 718
Cross-bearings of the Sun (Navigation), XVII, b 278-80
CROSSBILL, bird, VI, b 542-3; (Birds), III, b 667
Cross-bow (Arms and Armor), II, a 488
Cross-breeding, IV, b 221, a b 222, b 223, a 224-5; (Hybridism), XII, b 437-42; sheep (Agriculture), I, a b 349, a 352
Crossed eyes, defect. See Strabismus
Crosses, monumental, VI, a 541-2; (Aberdeen), I, a b 44; (Architecture), II, b 403; Beaumond (Newark), XVII, a 379; (Cashel), V, b 153; (Iona), XIII, b 209; (Louth), XV, b 27; (Roxburgh), XXI, b 40; (Salisbury), a 229; (Tottenham), XXIII, a 506; (Waltham Abbey), XXIV, b 360; churchyard (Sculpture), XXI, a b 584, note
—— of Meath, church lands (Ireland), XIII, a 272

Cross-examination (Evidence), VIII, b 651-2
Cross-Fell, hills (Westmoreland), XXIV, a b 542, a *b* 543
Cross fertilization (Horticulture), XII, *b* 219, a b 220; (Pea), XVIII, b 452
Crossfield, Thomas, diarist (Dodo), VII, b 279
Cross-gartering (Costume), VI, b 411
Crosshead, piston-rod (Steam-Engine), XXII, a b 538, b 541
Crossing the Brook, painting (Turner), XXIII, b 707, a 708, note
Crossings in mines (Coal) (Ill.), VI, b 67; track (Tramway), XXIII, b 539
Crosskill's clod crusher (Agriculture), I, a b 284, a 300, a 330
Crossley, E., astronomer (Observatory), XVII, a 731
——, Sir Francis, philanthropist (Halifax), XI, *b* 343
——, Joseph, philanthropist (Halifax), XI, *b* 343
Crossman, Samuel (Hymns), XII, *a* 627
Crossopus, genus (Shrew), XXI, b 883, *a* 884
Crossorhinus, genus (Shark), XXI, b 811-2
Cross-over parallel system (Traction), XXIII, a 528
Cross-ratios (Geometry), X, b 348-50
Cross-road posts (Post-Office), XIX, a 581
Cross-staff (Geography), X, a b 167; (Navigation) (Ill.), XVII, b 257, *a* 261
—— Timbers, region (Indian Territory), XII, a 874; (Texas), XXIII, b 219; (United States), b 859
Cross-trees, getting up (Seamanship), XXI, b 623
Crotalidæ, family (Snakes), XXII, a b 201, note, a 204, b 210
Crotalocrinus (Echinodermata) (Ill.), VII, a 551, b 552
Crotalus, genus (Rattlesnake), XX, b 305, *a* 306
CROTCH, William, musician, VI, b 543; (Music), XVII, b 104, a 107
Crotchet Castle, novel (Peacock), XVIII, b 455, a 456
CROTONA or Croton, city, VI, a b 544; (Græcia Magna), XI, *b* 28; (Greece), a 86; (Numismatics), XVII, b 653; (Pythagoras), XX, a *b* 144; (Sybaris), XXII, b 842
Croton Aqueduct (Ill.), II, b 194-5, b 200; (New York), XVII, a 478, a 896; (Tunnelling), XXIII, a 665
—— -chloral (Narcotics), XVII, b 237
—— Draco, tree (Dragon's Blood), VII, a 337
Crotonic aldehyde (Chemistry), V, *b* 492
CROTON OIL, VI, b 543-4; (Oils), XVII, b 760, b 761, a 765
Crotophaga, bird (Cuckoo), VI, a 608
Crotoy, town (Somme), XXII, b 274
Crouch, river (Essex), VIII, a 488
Crouchback, Edmund of Lancaster, XIV, a b 256, b 257
CROUP, disease, VI, b 544-5; spasmodic (Throat Diseases), XXIII, a 341
CROUSAZ, Jean Pierre de, mathematician, VI, b 545; (Switzerland), XXII, a 838
CROW, bird, VI, b 545-6; (Birds), III, b 629, b 633, b 642, b 643, a 645; (Magpie), XV, a 287; (Mythology), XVII, b 153; (Ornithology), XVIII, a b 52; (Zoology), XXIV, a 924
Crowborough Beacon (Sussex), XXII, a b 761
Crowd, musical instrument (Violin), XXIV, a 261, b 262
Crowe and Cavalcaselle, critics (Pisano), XIX, *b* 132, b 133; (Raphael), XX, b 286 note, a 287, a 295; (Titian), XXIII, b 444
CROWE, Eyre Evans, historian, VI, b 546
——, Joseph Archer, historian (Giorgione), X, b 542, a 543; (Giotto), a b 545
Crowfoot, plant (Botany) (Ill.), IV, *b* 119, a 129, b 136, a 137
——, orientalist (Syriac Literature), XXII, b 864, note
Crowhurst, tree (Yew), XXIV, a 782
CROWLAND or Croyland, town, VI, b 546; (Ingulphus), XIII, b 83; (Lincoln), XIV, a 663; (Bridge) (Ill.), IV, a 298
Crown, coin (Mint), XVI, b 505; (Numismatics), XVII, a 674; Charles II. (Simon T.), XXII, b 90
CROWN, ornament (Ill.), VI, b 546-8; (Costume), b 401; (Heraldry) (Ill.), XI, a b 635; complimentary (Club), VI, *b* 39; Scottish (Regalia), XX, a 353; theft of the (Blood), III, a 727
Crown, metonymy for royal authority, claims against the (Petition), XVIII, a 717, b 718; Colonies, VI, b 143; (United States), XXIII, a b 784-5, a 786; Copyrights, a 321; ecclesiastical supremacy of the (Stanley), XXII, b 470-1; license (Convocation), VI, *b* 291, *a* b 292; papal contest with the, France (Universities), XXIII, a b 897; pleas (Pleading), XIX, a b 231, powers of (Court), VI, a b 458; (Precedence), XIX, b 680, a 681; (Prerogative), a 692; revenues of the (Finance), IX, b 153; succession to (Primogeniture), XIX, b 755-6
Crown, On the, oration (Demosthenes), VII, a 63
"Crown of the Moon," gem (Bracelet), IV, a 170
Crown of tooth (Mammalia), XV, a *b* 353-4
—— -bird (Touraco), XXIII, a 518 note
—— borers, tools (Coal), VI, b 58
—— Coffee House party (Whist), XXIV, *a* 574
Crowne, John, dramatist (Drama), VII, *b* 376; (English Literature), VIII, a b 378
Crowned Cranes, VI, b 484
Crowned Pigeons, XIX, a 94
Crown-glass, X, b 587-8; crucible (Ill.), b 585; lenses (Microscope), XVI, b 272, a b 273
—— -grafting (Horticulture) (Ill.), XII, b 242
—— -Imperial, plant (Horticulture), XII, a 263
—— -lands (Austria), III, a 102; (Sale), XXI, b 216
—— mines (Coal), VI, a 73
—— Point, fort (New York), XVII, b 467
Crown-wheel escapement (Clocks) (Ill.), VI, b 17
Crown work (Fortification), IX, b 388
Crowquill points (Pianoforte), XIX, b 75, *a* b 76
Crows, tribes (Indians), XII, a 868, b 872
Crows' feet, obstructions (Fortification) (Ill.), IX, a 373
Crowther, John, potter (Pottery and Porcelain), XIX, b 661
——, Samuel Adjai, bishop (Houssa), XII, *a* 332; (Yoruba), XXIV, *b* 792
Croy, Duc de, debtor (Reval), XX, a 510
CROYDON, town, VI, b 548-9; district (Surrey), XXII, *b* 729, a 730
Croyland. See CROWLAND
Crozat, Antoine, proprietor (Louisiana), XV, a 24
Crozets, islands (Indian Ocean), XII, b 860
Crozier, pastoral staff (Cross), VI, b 542; (Costume), b 408, a 410; (Ireland), XIII, a 269
Crucible-Iron, XIII, b 304
—— -melting Furnace (Ill.), IX, b 740, a 741
—— -steel (Iron), XIII, b 228, b 351-3, a b 366; (United States), XXIII, *a* b 866, note; statistics (Iron), XIII, a b 368
Crucibles (Coke), VI, a 109; (Fire-Clay), IX, b 209; (Furnace), *b* 741; (Mint), XVI, a 510; (Platinum), XIX, b 201, b 202; (Plumbago), XIX, b 242; steel melting (Iron), XIII, b 350-1
Cruciferæ, class (Botany), IV, b 107, b 109, a 117, a 124, b 126, b 130, b 132, a 133, a 136, b 137, *a* 141, b 142
Crucifix (Cross), VI, b 540; (Image Worship), XII, a 751, b 752; of the Cid (Salamanca), XXI, a 214, note
Crucifixion (Cross), VI, b 539-40; (Torture), XXIII, a 492
—— of Jesus Christ, XIII, b 670-1, b 679; (Paul), XVIII, b 435-6; account of the (Gospels), X, b 736, a *b* 737, a 738; five wounds of the (Heraldry), XI, b 627
Crucifixion, oratorio (Spohr), XXII, a 427
——, paintings (Ferrari Gaudenzio), IX, b 95; in S. Rocco (Robusti), XX, a 625, a b 626; (Van Dyck), XXIV, b 68
CRUDEN, Alexander, VI, a 549; (Concordance), b 214
Cruikshank, William, anatomist (Anatomy), I, a b 715
——, George, artist (Caricature), V, a 93; (Hone), XII, b 138, a 139; (Leech, J.), XIV, a 406, b 407
Cruisers, vessels (Navy), XVII, a b 295, a 297, b 299-300; (War), XXIV, a *b* 385; iron clads (Navy), XVII, b 294-5
Cruit, musical instrument (Harp), XI, b 437
Cruithni, tribe (Ireland), XIII, a b 252; (Scotland), XXI, a *b* 495, a 496, b 498 note
Crum, Walter, inventor (Calico-Printing), IV, b 609, b 614; (Dyeing), VII, b 501
——, William, chemist (Gun-cotton), XI, *b* 245
Crumen, gland (Mammalia), XV, b 351
Crumlin viaduct (Bridges) (Plate XIX) (Ill.), IV, a 295, b 303-4, b 305, a 308
Crumn, king of Bulgaria (Greece), XI, b 103; (Nicephorus I.), XVII, a 495
Crunodal cubic Curves, VI, a b 639
Crunodes of Curve, VI, a *b* 638, *a* b 639; (Geometry), X, a 368; (Infinitesimal Calculus), XIII, a 28; (Surface), XXII, a 703
Crura cerebri (Anatomy), I, a b 758, a 765, *b* 766, a *b* 771, a 781
Crural nerves (Anatomy), I, a 763
Crusade, Children's, VI, a 554; (Hameln), XI, b 365; Mongolian, XVI, a 773
Crusaders (Army), II, a 494; (Athens), III, a 11; (Egypt), VII, b 652, a b 653; (Palestine), XVIII, b 182; early (Heraldry), XI, b 608, b 610
CRUSADES, VI, a 549-58
  first crusade, a 551-4
    Antioch, hall of, b 552-3
    Asia entered, a 552-3
    Jerusalem besieged, a 553-4
    Latin kingdom, b 553-4
  fourth and fifth crusades, a 555-6
  Frederick II., emperor, b 556-7
  German and English, b 554-5, a b 557
  Latin empire of the East, b 555-6
  Mohammedan Palestine, a b 550
  pilgrimage, a 549-50
  preaching the crusade, b 550-1
  results of, b 557-8
  second crusade, a b 554
  St. Louis, a b 567
  third crusade, b 554-5
  Venetian, b 555-6

- Crusades (Acre), I, a 112; (Asia Minor), II, a 623; (Bernard), III, b 520-1; (Bouillon), IV, b 155-6; (Corfu), VI, b 351; (Damietta), b 699; (Dandolo), a 707; (Druses), VII, b 417; (Edward I.), a 592; (Egypt), b 652, b 653, a b 654, a 655; (England), VIII, b 266-7, a 278; (France), IX, b 474-5, b 476, b 477, a b 479; (Frederick II., emp.), b 643; (Galilee), X, a 27; (Geography), b 159; (Germany), a b 439, *b* 440, b 468; (Greece), XI, b 105, a 107; (Greek Church), b 139; (Guibert of Nogent), b 226; (Gunpowder), a 283; (Horse), XII, a 185; (Indulgence), a 888; (Italy), XIII, a 485; (Isaac II.), a 385; (Joinville), a b 744, a b 745; (Knighthood), XIV, b 117; (Languedoc), a b 288; (Malatia), XV, a 323; (Manuel I.), b 512; (Marseilles), b 580; (Nicholas IV.), XVII, b 497; (Normans), b 561; (Pisa), XIX, b 128; (Pius II.), *a* 163; (Popedom), b 513; (Relics), XX, b 369; (Templars), XXIII, b 177, a 178; (Urban II.), XXIV, b 12; (Venice), a 154; (Villehardouin), a b 247, a 248
- ——, effects of (Political Economy), XIX, b 364; *History of* (Michaud), XVI, a 237; influence of (Architecture), II, a 370
- CRUSENSTOLPE, Magnus Jakob, historian, VI, a b 558; (Sweden), XXII, a 796
- Crusher gauge (Gunmaking), XI, b 259; (Gunnery) (Ill.), a b 266
- Crusca Academy. See Della Crusca Academy
- Crushing, resistance of (Bridges), IV, a 255
- CRUSIUS, Christian August, theologian, VI, a b 558
- ——, Martin, historian (Greece), XI, a b 134; (Greek Church), a 141
- Crusoe, Robinson (Bristol), IV, b 316
- *Crusoe*, tale. See Robinson Crusoe
- Crussol, arrest of (Cosne), VI, b 396
- Crusta, tissue (Anatomy), I, b 771, a 772
- —— petrosa (Digestive Organs), VII, b 203-4, a b 206; (Ivory), XIII, b 530, b 532; (Mammalia) (Ill.), XV, b 352, a b 353
- CRUSTACEA (Ill.), VI, b 558-90
    - Amphipoda (Ill.), b 584-5
    - Anchoracephala (Ill.), a 588-9
    - Anomoura (Ill.), a 580-2
    - appendages (Ill.), a 560-1
    - authorities, b 558
    - Brachyura (Ill.), b 578-80
    - Branchiopoda (Ill.), b 586-7
    - circulatory system (Ill.), a 565-6
    - Cirripedia (Ill.), b 588-9
    - classification, a b 579
    - Decapoda (Ill.), b 578-82

CRUSTACEA, *continued*

- DEVELOPMENT OF (Ill.), b 568-77
    - Amphipoda (Ill.), b 572-3
    - Anchoracephala, a 576-7
    - Carcinus mœnas (Ill.), a 569-70
    - Copepoda, Cladocera (Ill.), b 575
    - Cumaceæ, b 571
    - Decapoda (Ill.), a 569-70
    - Edriopthalmia (Ill.), b 571-2
    - Isopoda (Ill.), b 572
    - Limulus (Ill.), b 573-5
    - Phyllopoda (Ill.), a b 575
    - prawn metamorphoses (Ill.), a 570-1
    - Stomapoda, b 570-1
    - zoëa stage, b 569-71
- Edriophthalmia (Ill.), b 582-5
- external structure (Ill.), b 558-61
- exuviation and repair, a 577-8
- fossil forms, a b 579
- general characteristics, b 589-90
- Gnathopoda or Entomastraca (Ill.), b 585-9
- Isopoda (Ill.), b 482-3
- Lophyropoda, b 587-8
- Macroura, a 582
- Merostomata (Ill.), b 585-6
- nervous system (Ill.), b 561-4
- nutrition, organs of (Ill.), a 564-5
- Podophthalmia, b 578-85
- reproductive system (Ill.), b 567-8
- respiratory system (Ill.), a 566-7
- sensation, organs of, b 562-4
- sight, organs of, a 563-4
- somites or segments of body (Ill.), a 559-60
- Stomapoda (Ill.), a b 582
- Trilobita (Ill.), b 583-4

———

- —— (Arachnida), II, a b 238; (Arthropoda), a b 567; (Distribution), VII, b 241-3, a 244, *a b* 245, 246; (Insects), XIII, a 147, b 153; (Parasitism), XVIII, b 263, note, a 264; (Phosphorescence), a b 827; (Reproduction), XX, a 422, a 423, a 432; (Sex), XXI, b 756-7; (Smell), XXII, b 175; (Touch), XXIII, b 508; classification of (Zoology), XXIV, b 852; nerves of (Physiology), XIX, b 35
- Crustaceous thallus (Lichens), XIV, b 555, b 560, a 562
- CRUVEILHIER, Jean, anatomist, VI, a 590
- Cruyssen, A. C. van der, novelist (Holland), XII, b 88
- Cruz, Gaspar da, monk (Cambodia), IV, a 641
- CRUZ, Juan de la, mystic, VI, a 590; (Spain), XXII, b 373, a 374
- CRUZ, Ramon de la, dramatist, VI, b 590; (Drama), VII, b 365; (Spain), XXII, a 375
- Crying (Andaman Islands), II, b 12; (Respiration), XX, a 494
- CRYOLITE, mineral, VI, b 590; (Glass), X, a 595; (Greenland), XI, a 150; (Mineralogy) (Ill.), XVI, b 399; (Sodium), XXII, b 253, a 258
- Cryophyllite (Mineralogy), XVI, b 430
- CRYPT, vault, VI, b 590-2
- Crypteia, assassination (Helots), XI, a 570; (Lycurgus), XV, b 97
- Cryptobranchus, genus (Amphibia), I, b 665, *a* 666, a *b* 668, *a* 668*, a b 671, a *b* 672, *a* 673, a b 675, b 676
- Crypto-Calvinism (Lutherans), XV, b 86; (Reformation), XX, b 348
- Cryptocephalidæ, family (Insects), XIII, a 156
- Cryptocerata, division (Hemiptera), XI, b 576; (Insects), XIII, b 159-60
- Cryptocrinus, genus (Echinodermata), VII, *a* 553
- Cryptodira, group (Tortoise), XXIII, a 486
- Crypto-Druses, people, VII, b 417
- Cryptodynamic Tricycle, XXIII, b 594
- Cryptogams (Botany), IV, *a b* 82, a 107, b 126-7; (Herbarium), XI, a b 640-1; (Reproduction), XX, b 441, a 443; (Vegetable Kingdom), XXIV, b 140-2; cellular (Lichens), XIV, a 555; female organs in (Botany), IV, a 143-7
- CRYPTOGRAPHY, cipher-writing, VI, b 592-4; (Porta), XIX, b 540; (Wheatstone), XXIV, a 568. See Cipher
- Cryptolite (Mineralogy), XVI, b 420
- Cryptomeria japonica, species (Cedar), V, b 248
- Cryptomonadina, sub-order (Protozoa), XIX, a 883, b 884
- Crypotoniscus, genus (Crustacea) (Ill.), VI, *b* 572
- Cryptopia, alkaloid (Narcotics), XVII, a 237
- Cryptophialus, genus (Crustacea), VI, b 588, a b 589
- Cryptoprocta, genus (Mammalia), XV, a 442; ferox, (Madagascar), b 171
- Cryptostegia grandiflora, species (India-Rubber), XII, a 880
- Cryptostemma, genus (Arachnida), II, a 245, note
- Cryptostemmides, family (Arachnida), II, a 245 note
- Cryptothiria, genus (Crustacea) (Ill.), VI, *b* 572, b 589
- Crypts of Lieberkuhn (Mammalia), XV, a b 365; (Nutrition), XVII, a 688, b 693-4
- Crypturi, order of birds (Ornithology), XVIII, a b 48, a 49
- Crypturus, genus (Tinamou), XXIII, b 429, a 430
- Crystal Glass, X, a b 591
- —— groups (Mineralogy), XVI, b 376
- Crystalline forms (Metals), XVI, b 69; influence of (Magnetism), XV, a b 268
- —— lens (Anatomy), I, a 778, a b 781; (Ophthalmology), XVII, b 804, *a* 805
- —— rocks (Geology) (Ill.), X, a b 204, b 205, b 206-11, a 273-7, a 278; joints of (Geology) (Ill.), b 263-4; intrusive (Geology), a 273-7; volcanic (Geology), b 277-8
- —— plates, colors of (Wave Theory), XXIV, b 475-6
- —— style (Mollusca), XVI, b 710, a 712
- Crystallites (Geology), X, a 231, a 232
- Crystallization (Brewster), IV, b 246; (Calc-Spar), IV, a 580; (Chemistry), V, a 408; (Gold), X, a 660; (Sugar), XXII, b 660; artificial and natural (Geology), X, a b 231; water of (Chemistry), V, b 423-4
- CRYSTALLOGRAPHY, VI, a 594-9
    - books on, a 599
    - early history of, b 594-5
    - Haüy's system, b 595-6
    - instruments, a 599
    - isomorphism, b 597
    - name explained, a b 594
    - nineteenth century history, b 596-8
    - physical properties, b 598-9
    - symbols, system of, b 597-8

———

- —— (Haüy), XI, b 467; (Mineralogy), XVI, a 358-87; (Mitscherlich), a 555
- Crystalloids (Botany), IV, a 78; (Diffusion), VII, b 188; (Graham, T.), XI, b 30; (Histology), XII, b 14
- Crystal Palace, New York, XVII, b 894
- —— Palace, Sydenham (Alhambra), I, a 504; (Aquarium), II, a b 190; (Architecture), b 397; (Jones), XIII, b 749; (London), XIV, b 833, a 845, *a* 846; (Paxton), XVIII, b 450; (Phillips), a 773
- ——, rock- (Ecuador), VII, b 560-1
- Crystals (Granite), XI, b 43, *a* 44; (Iron), XIII, b 285; (Jacinth), b 541, a 542; (Light), XIV, a 594, b 601, a 602; (Mammoth Cave), XV, a b 456; (Mineralogy), XVI, b 358-87; (Mitscherlich), a 555; (Molecule), b 646
- ——, amorphous forms reduced to (Sainte-Claire Deville), XXI, b 174; biaxal (Light), XIV, b 618; (Wave-Theory), XXIV, a b 473, a 475, a 476; classification of (Magnetism), XV, a 267; double refraction (Light), XIV, b 614-18; index of refraction (Optics), XVII, b 824; isotropic (Elasticity), VII, a b 698; measurement of angles (Goniometer), X, b 686; natural (Elasticity), VII, b 715-16; polarity of (Ill.), XIX, b 324, a b 325, a b

Crystals, *continued* 326, a 327; (Electricity), VIII, a 9; refraction of (Wave Theory), XXIV, a b 473, b 474, *a* 476; snow (Meteorology), XVI, a 159; uniaxal (Light), XIV, *b* 618; (Wave Theory), XXIV, b 474, a 475, a 476

Csengery, Anthony, translator (Hungary), XII, b 395, note

Csepreghy, Francis, dramatist (Hungary), XII, a 394

Csiky, Gregory, dramatist (Hungary), XII, *a* 394

Csink, J., philologist (Hungary), XII, a 390; (Ural-Altaic), XXIV, b 6

Csipkes, George, translator (Hungary), XII, b 391

CSOKONAI, Mihaly Vitez, poet, VI, a 599; (Hungary), XII, b 392

CSOMA DE KÖRÖS, or Körösi, Alexander, philologist, VI, a b 599; (Hungary), XII, b 389; (Lāmāism), XIV, b 229; (Tibet), XXIII, b 366, a 368 note, a 369, *b* 370

Ctenacodon serratus, fossil (Mammalia), XV, b 379

Ctenaria Ctenophora, species (Hydrozoa) (Ill.), XII, b 599-600

Ctenidia, gill-plumes (Mollusca) (Ill.), XVI, b 658, a 659, b 661, a 664, b 670, b 679, a 680, a 688, b 693, a 694, b 698, a b 710, a 714-7. See also Gill-plumes

Ctenidiobranchia, sub-order (Mollusca), XVI, b 668, b 679

Ctenodactylus, genus (Mammalia), XV, a 425

Ctenodrilus, genus (Worm), XXIV, *b* 713, a 714, b 718, *a* 719

Ctenodus, genus (Ichthyology), XII, a 706, a 725

Ctenodypteridæ, family (Ichthyology), XII, a 725

Ctenolabrus, genus (Wrasse), XXIV, *a* 722

Ctenoids, group (Agassiz), I, *a* b 246; (Ichthyology) (Ill.), XII, b 670, a 676

Ctenophora, group (Actinozoa), I, a 120, b 121-2; (Animal Kingdom), II, b 46, a 48; (Corals), VI, b 326; (Hydrozoa), XII, a 580, b 599-600; (Morphology) (Ill.), XVI, a 871; (Reproduction), XX, b 420; (Sex), XXI, b 756; (Zoology), XXIV, b 851

Ctenorhyncus, bird (Gadwall), X, b 7

Ctenostoma, group (Polyzoa), XIX, a 452

CTESIAS, historian, VI, b 599; (Arbaces), II, b 272; Babylon), III, a 158; (Babylonia), a 160; (Cyrus the Elder), VI, *a* 664; (Parrot), XVIII, a 327; (Persepolis), a b 570, notes; (Persia), b 573, a 574, a b 575, a b 576, a b 577, b 578 note, a 579, a 580, b 583, b 584, b, 586, a 588 notes; (Scythia), XXI, a b 604, note

Ctesibius of Alexandria, inventor (Clepsydra), V, a 722; (Hydromechanics), XII, a 451

CTESIPHON, city VI, b 599; (Mesopotamia), XVI, a 56; (Persia), XVIII, b 608, b 612, a 616, b 618, a b 619, a 621, b 625, a 626; (Trajan), XXIII, a 537; ruins at (Architecture), II, b 351

——, Athenian citizen (Æschines), I, a 188; (Demosthenes), VII, a 63

C'thubim (Canon), V, b 4, b 5, a 6

CUBA, island (Sketch), VI, b 599-604
  - animals, b 601-2
  - authorities, b 603-4
  - education and religion, b 602
  - history, b 599-600
  - imports, b 602
  - minerals, b 601
  - physical features, b 600-1
  - political features, b 602-3
  - population, a b 603
  - vegetation, a b 602

—— (Columbus), VI, a 155, a 156, b 157; (Coolie), *b* 296-7, b 298; (Dog), VII, b 285; (Forests), IX, a b 357; (Ichthyology), XII, b 712; (Slavery), XXII, a 151; (West Indies), XXIV, *b* 538, a b 539

——, Johannes de, author (Ornithology), XVIII, b 7

—— Vine (Cotton), VI, b 428

Cuban, mineral (Mineralogy), XVI, b 409

Cuban cigars (Tobacco), XXIII, b 454

Cubas, Antonio G., statistician (Mexico), XVI, a 898

Cube, crystal-form (Mineralogy) (Ill.), XVI, a 360, a b 361, a 363, a 382

—— cutting machine (Gunpowder) (Ill.), XI, b 292

——, doubling the (Pappus), XVIII, b 234

Cubebin, extract (Cubebs), VI, a 604

CUBEBS, drug, VI, a 604

Cube-nickel (Nickel), XVII, a *b* 501

Cube-root (Algebra), I, b 466

Cubes, mathematical (Magic Square), XV, b 215-7; of numbers (Tables), XXIII, b 12

Cub-hunting (Hound), XII, a b 329; (Hunting), b 411

Cubical parabola (Geometry) (Ill.), X, b 367

Cubic content of ships (Tonnage), XXIII, a b 471

—— curve of nine points (Geometry), X, b 369

—— Curves, VI, a 634, a 637, b 638, *a b* 639, a 642

—— equations (Algebra), I, b 452-3, b 474, a 482-4; (Cardan), V, b 80; irreducible case (Tables), XXIII, a 18

—— forms (Numbers), XVII, b 636, a 639

—— inch of water in Weights and Measures, XXIV, b 506

Cubics, twisted (Geometry), X, b 365-6

Cubic Surface, XXII, b 704

Cubicula, tombs (Catacombs) (Ill.), V, b 182-4

Cubit, Egyptian (Weights and Measures), XXIV, a 510-1; sacred (Architecture), II, a 344 note; (Temple), XXIII, b 182

CUBITT, Thomas, builder, VI, a 601

CUBITT, Sir William, engineer, VI, b 604; (Canal), IV, a b 693; (Dredging), VII, a 402

Cubostomæ, sub-order (Hydrozoa), XII, a 580, *a* 590

Cubranovic, Andrew, poet (Servia), XXI, a 723

CUCA or coca, VI, a b 605; (Peru), XVIII, a 687

Cucao, Lago de (Chiloé), V, a 544

Cuchilla, peak (Canary islands), IV, a 705

—— Grande, mountains (Uruguay), XXIV, a 19

—— de Haedo, mountains (Uruguay), XXIV, a 19

Cúchulaind, hero (Celtic Literature), V, *a b* 269, *a* 270, b 271, *a* 282

Cucking-stool (Pillory), XIX, b 104

Cuckmere river (Sussex), XXII, *a* 761

CUCKOO or cuckow, bird, VI, b 605-8; (Birds), III, b 627; (Hera), XI, a 606; (Mimicry), XVI, b 353; (Philology), XVIII, a b 782; Eudynamis, species (Birds), III, a 643, a 644, b 663, *b* 666, b 669

—— -flies (Galls), X, b 42; (Hymenoptera), XII, b 610

—— -pint or arum (Botany) (Plate XVI), IV, b 109

Cuculidæ, family (Birds), III, a b 649, b 650, *a b* 655; (Touraco), XXIII, b 518

CUCUMBER, VI, a b 608; (Botany), IV, a 74, a 103; (Horticulture), XII, b 293-4

—— -house (Horticulture), XII, a b 229

—— sea- (Bêche de Mer), III, b 412

—— -tree (Magnolia), XV, b 285

Cucumis, genus (Cucumber), VI, a b 608; (Horticulture), XII, b 281, b 293

Cucurbita, genus (Botany), IV, b 75, a 76, b 116; (Gourd), XI, b 5-6; (Histology), XII, b 17, b 20, a 21; (Horticulture), b 294-5

Cucurbitaceæ, order (Botany), IV, b 102, a b 130, a 138; (Colocynth), VI, b 135

Cudar-nankhundi, king of Elam (Babylonia), III, a b 161

Cudbear, dye (Archi), II, a 332; (Dyeing), VII, b 500; (Lichens), XIV, b 562, a 563

CUDDALOR, town, VI, b 608-9; (Arcot), II, *a* 421

CUDDAPAH, district, VI, a 609

CUDWORTH, Ralph, philosopher, VI, a 609-11
  - biography, a b 609
  - moral system of, a b 611
  - *True Intellectual System*, b 609-11

—— (Dream), VII, a b 394; (Ethics), VIII, a 526; (More, Henry), XVI, a b 841; (Price), XIX, a 742

Cuelen, Ludolph van, mathematician (Squaring the Circle), XXII, b 451

CUENÇA, province, VI, b 611-2; (Spain), XXII, b 312, a 313, b 314, a 315

——, city, Spain, VI, a 612; battle of, 1099 (Cid), V, b 676

CUENÇA, town, Ecuador, VI, a 612; (Ecuador), VII, *b* 562; plain (Ecuador), b 558; valley (Andes), II, b 17

Cuesta, Gregorio Garcia de la, general (Wellington), XXIV, *a* 523

Cueva, Beltran de la, duke of Albuquerque (Spain), XXII, b 336

—— Juan de la, poet (Spain), XXII, *b* 370

—— de San Ygnacio, cave, (Mauresa), XV, a b 504

Cufa, city (Mohammedanism), XVI, b 585, a 586, a 587, a b 589, b 590-1, a b 593, b 594, a 595, b 598, b 600, a 602, a 606

Cufic inscriptions (Inscriptions), XIII, b 123

Cuiaba, town. See CUYABA

Cugnot, Nicholas Joseph, inventor (Steam-Engine), XXII, b 494

Cuhelyn, bard (Celtic Literature), V, b 276

Cuidad Real, province (Spain), XXII, a 312, a 313, *b* 315, a 317

Cuillins hills (Skye), XXII, a 135

CUIRASS, armor, VI, a b 612

Cuirassiers, cavalry, VI, b 612

Cuisinier, bird (Oxynotus), XVIII, b 109

CUJAS or Cujacius, Jacques de, jurist, VI, b 612-3; (Savigny), XXI, a 341; (Scaliger), a 379

Cukulcan, chief (America), I, b 618, b 619

Cularo, town (Grenoble), XI, b 165

CULDEES, ecclesiastical order, VI, a 613; (Brechin), IV, b 217; (Columba, St.), VI, a 150; (Dunfermline), VII, b 468; (Dunkeld), a 469; (Scotland), XXI, b 499, a 505

Cul des Roches, mills (Locle, le), XIV, a 771

Culdrevny, battle of, 561 (Scotland), XXI, b 496

Culebra Col, ridge (Panamá), XVIII, a 213

Culeolus, genus (Tunicata) (Ill.), XXIII, b 656

Culex, genus (Mosquito), (Ill.), XVI, a 894

Culex, poem (Virgil), XXIV, *b* 269

Culicidæ, family (Gnat), X, b 624

Culinary herbs (Horticulture), XII, a b 302

CULLEN, William, physician, VI, b 613-5; (Gout), XI, a 7; (Hypochondriasis), XII, b 632, a 633; (Medicine), XV, b 822; (Pathology), XVIII, a 366; his fever theory, XVIII, b 403, a 404

Cullender, Rose, witch (Witchcraft), XXIV, b 654 note

CULLERA, town, VI, a 615

Cullet or waste (Glass), X, a 585

Culley brothers (Agriculture), I, a 270

Cullin, Lough (Mayo), XV, a 657

CULLODEN, district, VI, a 615; (Climate), VI, *b* 6; battle of, 1746 (Charles Edward), V, a 370; (Cumberland), VI, a b 623
Culm, coal. See ANTHRACITE
——, battle of, 1813 (Austria), III, b 117
Culmbach, town. See KULMBACH
Culmination of star (Geography), X, b 177
Culms (Grasses), XI, b 48-9, b 51
Culna, town. See KALNA and KHULNA
Culoz, town (Jura), XIII, *b* 791, a 792
Culottes, hose (Costume), VI, b 419
Culpee, town. See KULPI
Cultivation (Java), XIII, b 614; influence of (Botany), IV, a 117; (Value), XXIV, b 56-7; method of farm (United States), XXIII, a b 877
Cultivators, implements (Agriculture), I, *a* 278-9, b 282, b 283
Cults, primitive (Sacrifice), XXI, b 141-3. See Worship
Culturgeschichte (Germany), X, b 486; Museum (Hamburg), XI, a b 362
Cultus in Israel, XIII, b 419-20, a 422, a b 423, a b 425, a 428, b 429, b 431
Culverins (Artillery), II, a b 573; (Arms, etc.), a 489
Culvert defined (Bridges), IV, b 253; discharging (Water-Supply), XXIV, b 429-30
Culvertage, penalty (Enlistment), VIII, b 397
Cumaceæ, order (Crustacea), VI, *b* 571, b 573 note, b 582
CUMÆ or Cuma, colony, VI, a 615; (Greece), XI, a 86; (Numismatics), XVII, a 653; (Rome), XX, b 759, b 760
Cumal, slave (Ireland), XIII, a 262
CUMANA, city, VI, b 615
Cumans or Comans, people (Hungary), XII, b 382; (Turks), XXIII, a 702
CUMBERLAND, county (Plate XI), VI, b 615-18
  antiquarian features, a 618
  factories and mines, a b 617
  geology, a 616
  lake region, b 617-8
  land, distribution of, b 616-7
  physical features, b 615, b 616
  towns, b 617
—— (Domesday Book), VII, a *b* 303
—— Coal Field, VI, a 50
CUMBERLAND, city, Maryland, VI, a 618; (Natural Gas), XVIII, b 894
——, George William Frederick Charles, duke of (Precedence), XIX, b 682-3 note
——, Ernest August, II., duke of Hanover, XI, b 400
CUMBERLAND, Richard, bishop, VI, a 618-20
  biography, a 618-9
  ethical theory of, a b 620
  literary history, b 618-9
  philosophy of nature, b 619-20
—— (Goldsmith), X, b 679; (Ethics), VIII, b 526
CUMBERLAND, Richard, dramatist, VI, b 620-2; (Bentley), III, a b 500; (Drama), VII, b 378
CUMBERLAND, William Augustus, duke of, VI, b 622-3; (Austria), III, b 111; (Charles Edward), V, a 370; (Chatham), b 383
—— island (Georgia), X, a 391
—— market (London), XIV, b 837
—— mountains (Kentucky), XIV, a 43; (Tennessee), XXIII, a b 193, b 194; (United States), b 845; (West Virginia), XXIV, a 546
—— ore (Iron), XIII, b 292
—— Pig Iron, XIII, a 314
—— Plumbago, XIX, b 242
—— presbytery (Presbyterianism), XIX, b 719
—— river (Kentucky), XIV, a b 43; (Tennessee), XXIII, *b* 193
—— Society (Yachting), XXIV, b 758
—— valley (Natural Gas), XVIII, b 894
Cumbraes islands (Bute), IV, *a b* 516
Cumbria, kingdom (Celtic Literature), V, *a* b 262, a b 275; (Scotland), XXI, b 497, b 501, a 505
Cumbum tauk (Karuúl), XIV, b 7
CUMIN or cummin, plant, VI, b 623-4
Cumine of Iona, abbot (Scotland), XXI, a 496
Cumming, Alfred, governor (Mormons), XVI, b 853
—— John C. E., physicist (Electricity), VIII, a 11, a 90
CUMMING, Roualeyn Gordon, traveller, VI, a 624; (Lion), XIV, b 687
Cummins, George David, bishop (Reformed Episcopal Church), XX, *a* b 904, a 905
Cumorah, hill (Mormons), XVI, b 852
Cumulo-stratus, cloud (Meteorology), XVI, a-b 132
Cumulus, cloud (Meteorology), XVI, a-b 132
Cuñapiru, town (Uruguay), XXIV, a b 20
CUNARD, Sir Samuel, capitalist, VI, a 624; steamers (Scotland), XXI, a 559
Cunaxa, battle of, 401 B.C. (Persia), XVIII, a 588
Cunayaco, village (Ecuador), VII, a 561
Cunctator. See FABIUS, Maximus
Cundwah, town. See KHANDWA
Cuneator, official (Mint), XVI, b 503
Cuneceastre, town (Chester-le-Street), V, a 528
Cunedda of Wales, chief (Celtic Literature), V, *a* 262; (Ireland), XIII, a 252
Cuneiform inscriptions (Chronology), V, a b 617; (Inscriptions), XIII, a 120-2; (Ispahan), b 405; (Kurdistan), XIV, a 157, b 159, a 160; (Libraries), a 509; (Palestine), XVIII, b 178, b 180; deciphering (Talbot, W. H. F.), XXIII, a 32; monuments (Isaiah), XIII, b 388, b 394
CUNEIFORM WRITING, VI, a b 624; (Alphabet) (Ill.), I, b 529, b 530, a 531-2, b 533; (Babylonia), III, a b 160; (Grotefend), XI, a b 193; (Hebrew Language and Literature), b 533; (Hieroglyphics), a b 722; (Inscriptions), (Plate I), XIII, 120; (Persia), XVIII, b 578 note, b 667; (Phœnicia), b 817 note, b 818; (Semitic Languages), XXI, a b 682
Cunene, river (Africa), I, a 228
Cuneo, city. See CONI
Cunha, Aires da, soldier (Brazil), IV, b 205
——, José Anastasis da (Portugal), XIX, a 573
——, Nunoda, governor (Portugal), XIX, b 561
——, Rodrigo da, archbishop, (Portugal), XIX, b 563
Cunigunde, St. (Henry II., Emperor), XI, b 594
Cunina, sub-order (Hydrozoa) (Ill.), XII, b 580, b 582, a *b* 597
Cuningham, William, geographer (Navigation), XVII, a 260
CUNITZ, Maria, astronomer, VI, b 624
Cunningham, district (Ayr), III, *b* 141, b 142
——, Alexander, captain, engineer (Hwen T'sang), XII, *a* 435; (Hydromechanics), b 454, a b 533, *a* 534, a 538; (India), a b 826 notes, *a* b 829 notes, *b* 851; (Inscriptions), XIII, a 125, *a* 126; (Tibet), XXIII, a 369
——, Allan, botanist (Australia), III, *a* b 91
CUNNINGHAM, Allan, poet, VI, b 624-5; (Chantrey), V, b 343; (Sculpture), XXI, a 587; (Wilkie), XXIV, b 601
——, Hay, geologist (Geology), X, a 290, b 292
CUNNINGHAM, Peter, antiquarian, VI, a 625
CUNNINGHAM, William, theologian, VI, a 625
Cunobelinus, king (Numismatics), XVII, a 652
Cunstaunce sent adrift by thè Constable of Alla (Poole), XIX, a 476
Cup and ball pivot (Mechanics), XV, b 776
Cup and cone furnace (Iron) (Ill.), XIII, a b 315
CUPAR-FIFE, town, VI, b 625
Cupel mould (Assaying) (Ill.), II, b 635; (Horn), XII, a 171
Cupellation (Assaying) (Ill.), II, a 634-6; (Gold), X, a b 669; (Lead), XIV, b 376; (Metallurgy), XVI, a 67; (Silver), XXII, a b 77, b 79
Cuphea, plant (Botany), IV, a 132, b 139
Cuphopterus, genus (Birds), III, b 658
CUPID, VI, b 625-6. See Eros
Cupid, Education of, by Corregio (Schools of Painting), XXI, a 456
—— *kneeling*, statue, (Michel Angelo), XVI, a 239
—— *Making a Bow* Parmigiano), XVIII, a 324
—— *and Psyche*, legend (Apuleius), II, *b* 188, a 189
—— *recumbent* (Michel Angelo), XVI, a 238, a 239
Cupidonia, bird (Grouse), XI, b 198
Cupola (Architecture), II, *a b* 383, b 406, a 407; (Dome), VII, a 301
——-furnace (Founding), IX, b 424; (Furnace), b 739; (Iron), XIII, b 353, b 354
CUPPING, VI, a 626
Cuprea, bark (Quinine), XX, a 193
Cupreine, alkaloid (Quinine), XX, a 192
Cupreous Pyrites, XX, a 135; (Mining), XVI, b 490-1
Cupressus, genus (Botany), IV, b 131, b 133; (Cedar), V, b 248
Cupric oxide (Chemistry), V, a b 472, a b 473
Cuprite, ore (Copper), VI, b 308; (Mineralogy) (Ill.), XVI, a 361, b 363, a 395, b 400
Cuproplumbite (Mineralogy), XVI, b 407
Cups, classical. See PLATE
——, racing (Horse), XII, a *b* 204, *b* 205, *a* 206
Cups and Balls, trick (Legerdemain), XIV, a 415
Cupules (Meteor), XVI, a b 117
Cur Deus Homo (Anselm), II, a b 82, a 83
Curacas, chiefs (Peru), XVIII, a b 691
CURAÇOA or Curaçao, island, VI, a 626
—— Liqueur, XIV, a b 693; (Orange), XVII, b 835
Curaray, river (Ecuador), VII, a 560
Curare-poisoning (Nutrition), XVII, *a* 701; (Pathology), XVIII, b 394, a 402; (Physiology), XIX, a 34
CURASSOW, birds, VI, a b 626; (Guan), XI, a 206
CURATE, presbyter, VI, b 626; perpetual (Advowson), I, b 162; (Vicar), XXIV, b 226
Curator, custodian (Infant), XIII, a 3
Curatory in jus naturale (Roman Law), XX, b 725
Curb, hopper (Soap), XXII, b 214
Curbing (Building), IV, a 423; (Roads and Streets), XX, a 604
Curb-sender, automatic (Telegraph), XXIII, a b 135
Curcas purgans, species (Nut), XVII, a 684
Curchod, Susan (Gibbon), X, b 514. note, a 518; (Necker), XVII, a b 321

Curculio, beetle (Galls), X, b 42
Curculionidæ, family (Insects), XIII, a b 155, a 156; (Weevil), XXIV, a b 504
Curcuma, plant (Turmeric), XXIII, b 704
Curcumin, extract (Turmeric), XXIII, b 704
Curd (Dairy), VI, b 680-1
——-Soap, XXII, a b 214, a 215
Cure, river (Nièvre), XVII, a 509
Curepipe, town (Mauritius), XV, a 647
Cures, medical. See Therapeutics
CURES, town, VI, a 627; (Italy), XIII, a 454; (Sabines), XXI, b 137
Curetes, devotees (Corybantes), VI, a 393
CURETON, William, orientalist, VI, a 627; (Apostolic Fathers), II, b 172; (Syriac Literature), XXII, b 868 note, b 872 note, b 874, b 876 note
Curetonion Gospels (Syriac Literature), XXII, a 864
CURFEW, signal, VI, a b 627; (Bell), III, a 464; (Gloucester), X, b 616
CURIA, political unit, VI, b 627–8; (Comitia), b 174, a 175; (Nobility), XVII, b 541; (Rome), XX, a b 751, notes, a b 752, b 754, a 755
——, senate (Greece), XI, a 99
——, senate house (Rome) (Ill.), XX, b 834
—— militaris (Court-Martial), VI, b 459
—— Regis (Court), VI, a 459; (Glanvil), X, a 566; (Henry II.), XI, a 587; (Justice), XIII, *b* 798; (Privy Council), XIX, a 785; (Star Chamber), XXII, b 473
Curia, Romana, VI, b 627–8; (Popedom), XIX, b 511, a b 512, a b 516, a b 518, a 520, b 521, b 522
Curiatii, legend of (Horatii), XII, b 169
Curicó, province (Chili), V, a b 535, b 536, a 540
Curing food. See PRESERVED FOODS
Curing in Fisheries, IX, b 220, a 222, b 225–7, a 229
—— Tobacco, XXIII, b 452
Curio, Caius Scribonius, 2d, general (Juba I.), XIII, a 769
Curiosities of Literature (D' Israeli), VII, a *b* 226
Curityba river (Brazil), IV, a 199, a 200
Curium, discoveries at (Plate), XIX, *a* 190
Curius Dentatus, Marius, consul (Rome), XX, a 762, a 763; (Samnites), XXI, a 261
Curl, disease (Horticulture), XII, b 298; (Potato), XIX, b 613
CURLEW or corlieu, birds, VI, a b 628; (Birds), III, a 664, b 668
——, mountains (Roscommon), XX, b 872; (Sligo), XXII, a 169
CURLING, game, VI, a 629-30
CURRAGH, district, VI, b 630; (Kildare), XIV, a b 74
CURRAN, John Philpot, jurist, VI, b 630-1; (Emmet, R.), VIII, a b 163; (Grattan), XI, b 56
Currant-gall (Galls), X, a 40
Currants, plant (Botany), IV, b 110, b 113, a 138; (Horticulture), XII, b 280
CURRANTS, Corinthian, VI, a b 631; (Cephalonia), V, *a* 299; (Greece), XI, b 79, b 80; (Santa Maura), XXI, b 311; (Zante), XXIV, b 805; trade in (Patras), XVIII, b 420
Currency (Banking), III, b 274, a b 276–7, a b 278; (Caroline Islands), V, a 111; (Egypt), VII, b 683; (Germany), X, b 418–9; (Greece), XI, b 80; (Italy), XIII, a b 477; (Japan), a b 589 90, a 593; (Khiva), XIV, a 67; (Kuka), b 154; (Law, J.), a b 369; (Madagascar), XV, b 173; (Maldive Islands), a 331; (Money), XVI, b 748, b 749, a 752 *seq.*, b 756; (Ricardo), XX, b 548-9; (Uganda), XXIII, b 765
——, agricultural (Money), XVI, a 749; Aztec (Cocoa), VI, a 93; birch-bark (Pontiac), XIX, b 923; debased (Banking), III, b 276–7; (Finance), IX, b 151, a 156; distinguished from Banking, III, a b 279, a b 281, b 282; in France (Banking), a 292; German (Banking), a b 294; restrictions (Banking), a b 278, a 279; (Famines), IX, b 24; secured by deposits (Banking), III, a 293; Scotch (Banking), a *b* 289
—— in the United States, XXIII, a 790, b 791, b 795, a b 824, a 832, a 833; (Banking), III, b 292–4; (Chase), V, b 377; (Taxation), XXIII, b 924; security of Bank Notes, a 825; specie policy (Jackson, A.), XIII, a 544; statistics (United States), XXIII, a b 881
Current-bedding or rock (Geology) (Ill.), X, a b 259
Currents, atmospheric (Geology), X, b 192–3; (Meteorology), XVI, b 143, b 152–3, 189
——, electric and magnetic in Dionea (Insectivorous Plants), XIII, b 143; (Meteorology), XVI, b 185, b 186, a 190–1; detection of (Galvanometer), X, b 48–9; Earth (Meteorology), XVI, b 185, b 186, b 190; positive and negative (Telegraph), XXIII, b 131; system of double (Telegraph), b 131; single (Telegraph), a 131; in Taste, XXIII, b 86
——, lacustrine (Lake), XIV, b 220
—— in Mechanics (Hydromechanics), XII, a 481, a 489-90; meters for (Ill.), a 534–6, a b 539; plane (Mechanics), XV, a b 733
——, oceanic (Agulpas), I, a 373; (Atlantic Ocean), III, a 18–9; (Baltic), a 256–7; (Black Sea), b 692, a b 693; (Geology), X, a b 251; (Iceberg), XII, b 649-50; (Indian Ocean), a 861-2; (Labrador), XIV, a 177; (Mediterranean Sea), XV, a 830-1; (Meteorology), XVI, b 142; (Navigation), XVII, b 282-3, *b* 284; (Pacific Ocean), XVIII, a 121–2; (Polar Regions), XIX, a b 340; (Sea), XXI, b 605; (West Indies), XXIV, b 538; vertical (Atlantic Ocean), III, b 21, b 22
——, river (Geology), X, a b 243
——, solar atmospheric (Sun), XXII, a 684
Currer Bell, pseudonym (Bronte), IV, a 329–30
Curriculum, American (Universities), XXIII, b 959
CURRIE, James, physician, VI, 631–2; (Baths), III, b 378, b 381; (Burns), IV, b 508–9; (Hydropathy), XII, a 575, a 578
CURRY, powder, VI, a 632
Currying (Leather) (Ill.), XIV, b 386-7
Cursing (Blasphemy), III, b 700; ecclesiastical (Arrest), II, a 551. See EXCOMMUNICATION, OATH
Cursive book-hand (Typography), XXIII, a 725
—— manuscripts of New Testament (Bible), III, b 558
—— type (Typography), XXIII, b 739
Cursive writing (China), V, b 569; European mediæval (Palæography), XVIII, b 165; Greek (Palæography) (Ill.), b 149, a 150, a b 153; Irish (Palæography), b 162; Latin (Palæography), a 158–9, a 170
Cursor Mundi (English Language), VIII, b 353, 359
"Curtesy" (Medical Jurisprudence), XV, b 789
—— of England, law term (Husband and Wife), XII, b 416, note
Curtin, Andrew G., governor (United States), XXIII, a 822
Curtis, Benjamin R., jurist (Taney), XXIII, b 921, a 922
——, Charles B., critic (Velazquez), XXIV, b 144, b 147, a 148.
——, George Ticknor, author (United States), XXIII, a 871
——, George William, journalist (Winthrop), XXIV, b 95
——, William, botanist (Chelsea), V, b 396
Curtius, Ernst, historian (Athens), III, b 3, a *b* 4, a 10 note, a 12; (Greece), XI, b 84, b 86, a 113, b 117; (Isocrates), XIII, b 400, note
——, Georg, philologist (Greece), XI, a b 113, note, *b* 114, a b 115, *a b* 116, *a* 117, *b* 119, b 120, b 121; (Philology), XVIII, b 795, b 801 note
CURTIUS, Mettus or Metius, legendary hero, VI, a 632
CURTIUS, Quintus Rufus, biographer, VI, a 632; (Persepolis), XVIII, b 570, notes, a b 571 note
Curtius Lacus (Rome), XX, b 833, note
Curubas, plants (Passion-Flower), XVIII, a 348
Curumbá, town (Brazil), IV, a 200
Curvature (Conic Sections), VI, a 253–4; (Calculus), XIII, b 28; constant (Measurement), XV, b 666; double (Infinitesimal Calculus), XIII, b 57; of the earth, towers to overcome (Surveying), XXII, a 733; equations of (Mechanics), XV, a b 752; measure of (Measurement), *a* 666; (Mechanics), b 686; Solid Geometry, X, *b* 377–8; of space (Measurement), XV, a b 666
CURVE, VI, a 632–42
    branch, a b 638
    cartesian classification, b 632–4
    correspondence, a 640, a 641
    curves in space, b 642
    definitions, general, a 633
    degenerate curves, a 642
    demonstration of Plücker's equations, a 636–7
    envelope of variable curve, b 637–8
    foci, b 639–40
    forms of cubic curves, b 638–9
    Greek geometers, b 632
    inflexions and double tangents, b 636–7
    Plücker's six equations, b 634–5
    properties, general, b 633–4
    rational transformation, a 640–1

——, caustic (Light), XIV, a 593; (Optics), XVII, a b 822
——, determination of (Geometry), X, a b 367–8; equation of (Algebra), I, a 454; harmonic (Mechanics), XV, b 693; meridian (Earth), VII, b 524-5, a 526; order of the plane (Surface), XXII, b 702, a 703; projective generation of (Geometry), X, b 353; radii, locomotive adaptation to (Steam-Engine), XXII, a b 925; of sines (Mechanics), XV, b 693; singularities of plane (Surface), XXII, b 703, note; of swiftest descent (Mechanics), XV, b 717–8
Curved cornets (Zincken), XXIV, a b 826
—— gates (Harbors and Docks), XI, a 421
—— lines of spectrum, correction of (Wave Theory), XXIV, b 462, b 463, b 468
—— primary wave of light (Wave Theory), XXIV, b 451–2
—— surface co-ordinates (Geometry), X, a 374
Curves (Hodograph), XII, a 44–6; (Infinitesimal Calculus), XIII, a–b 8, b 17–8, b 27–31, b 54–8; (Mathematical Drawing and Mod-

Curves, *continued*
elling), XV, a 635; (Variations), XXIV, *a* 93, a b 94, *a b* 95, *a* 98
—— of action (Mechanics), XV, b 732-4; algebraic (Plücker), XIX, *b* 240, a 241; analysis of (Tides), XXIII, a 390-1, *a* 394, note; of curvature (Monge), XVI, b 765; (Surface), XXII, b 705, *a* 706; discussion of (Pappus), XVIII, b 234; of energy and motion of earth and moon (Tides), XXIII, a b 401; equations of (Geometry), X, a 372, b 377; plane closed (Knot), XIV, b 128; pressure (Hydromechanics), XII, b 546-7; Robervallian (Roberval), XX, a 617; rolling (Mechanics), XV, b 764-5, b 767; second order (Geometry), X, a 354-7; stream velocity (Hydromechanics) (Ill.), XII, b 522-5, a b 539, a b 540; of temperature (Meteorology), XVI, b 122, a 130; third order (Geometry), X, a 366
Curvilinear Coördinates (Surface), XXII, *a* 706
Curwen, John, writer (Music), XVII, a b 107
CURZOLA, city, VI, b 642-3; battle of, 1298 (Polo), XIX, a 420
CUSA, Nicolas de, cardinal, VI, a b 643; (Reformation), XX, a 336; (Typography), XXIII, a 731, a 734
Cuscus, genus (Phalanger) (Ill.), XVIII, a 741, a 742
Cuscuta, genus (Botany) (Plate X), IV, b 121, b 141; (Dodder), VII, b 277-8
Cuscutaceæ, order (Parasitism) (Ill.), XVIII, a b 269, note
CUSH, Biblical, VI, b 643; (Nimrod), XVII, *b* 524; (Religions), XX, b 374, a 375; (Yemen), XXIV, a 776
Cushat, species (Dove), VII, b 328
Cushing, Frank H., ethnologist (Pueblo Indians), XX, b 888, a 890
Cushioning in cylinder (Steam-Engine), XXII, b 506-7; in high-speed single engines (Steam-Engine), a 540
Cusp in Architecture, II, b 406
Cusp (Curve), VI, a 635-6, b 637, a *b* 638, a b 639, b 640, b 641, a 642; (Infinitesimal Calculus), XIII, a 28, b 29, a 30
Cuspidal Cubic Curve, VI, a b 639; parabola (Geometry), X, a 368
Cusso or Kosso, drug (Kousso), XIV, a b 146
CUSTARD APPLE, VI, b 643
—— marrow, plant (Horticulture), XII, a 295
Custine, Adam Philippe, count de, general (France), IX, a *b* 532
Custom in law (Commons), VI, a 187; (Copyhold), b 315, a 316; (Law), XIV, a 358, a b 361, a b 363; (Prescription), XIX, a 725
—— personified (Themis), XXIII, a 269
Customs, festival (Dahomey), VI, a 676
Customs-house service (Taxation, U. S.), XXIII, a 924
CUSTOMS DUTIES, VI, b 643-4; (England), VIII, b 219-20; (Finance), IX, a b 161; (France), a 455; (New York), XVII, a b 895, a 896; (Paris), XVIII, a 284, a 291; (Taxation, U. S.), XXIII, b 923-4; (Tea), a 109; (Wine), XXIV, a 641; Athenian (Finance), IX, b 150; mediæval (Wool), XXIV, a 641
Customs Laws Consolidation Act, VI, a 261; (Trade Marks), XXIII, b 530
—— Parliament (Germany), X, a 459; Union (Germany), a b 456, a 458, a 459
Customs of the Sea (Consulate of the Sea), VI, b 282-3
Customs of strange races (Egypt), VII, b 624-5; (Malay), XV, a 327; Russian, XXI, b 86; (Scythia), XXI, a b 603; diffusion of (Taboo), XXIII, a 22; enforced by Tales, b 33
CUSTOS ROTULORUM, county officer, VI, b 644
Cüstrin, town. See KUSTRIN
Cusumano, Vito (Political Economy), XIX, b 408
Cut, measure (Linen), XIV, a 673
Cut and thrust (Sword), XXII, a 840
Cutaneous eruptions. See SKIN DISEASES
Cutch, gum (Catechu), V, a 192; (Forests), IX, b 355, a 356; (Leather), XIV, b 382, b 391
——, package (Goldbeating), X, *b* 670
CUTCH or Kachh, state, VI, b 644-6; (Bombay), IV, b 20, *a* 21, a 23; (India), XII, b 780
—— Lake. See Ran, Rann or Runn
CUTCH GUNDAVA or Cutchee, district, VI, a 646; (Baluchistan), III, b 259, *b* 260, *a* 261
Cut-Glass, X, b 58, b 583
CUTHBERT, ST., VI, a b 646; (Darlington), b 728; (Glass), X, b 581; (Northumberland), XVII, b 583-4; (Scotland), XXI, a 498; (Textiles), XXIII, b 226, a 227 note; *gospels of* (Bookbinding), IV, a 37
Cuticle (Anatomy), I, b 787-8; (Botany), IV, b 78-9; (Histology), XII, *b* 19. See Epidermis, Integuments, Skin
Cuticular structures (Histology), XII, a 8; (Nemertines), XVII, a 337; (Protozoa), XIX, b 855; (Trematoda), XXIII, a 570
Cutin, organic substance (Physiology), XIX, b 50
Cutler, Thomas, art writer (Japan), XIII, a b 599
Cutleria, plant (Reproduction), XX, b 437
CUTLERY, VI, b 646-8; (India), XII, b 801; (Ivory), XIII, a 531; American (Patents), XVIII, a 882; trade (Sheffield), XXI, a 824
Cut-off, defined (Steam-Engine), XXII, b 505, b 506, a 513; compound horizontal engines (Steam-Engine), b 539; expansion (Steam-Engine), b 527, a 528, b 531, a 532; low-pressure compound cylinder (Steam-Engine) (Ill.), a b 515; positive motion (Steam-Engine), a 922; variable automatic (Steam-Engine), a b 951; variations, influence of (Steam-Engine), a b 508
Cut-offs, fluvial (Louisiana), XV, a 22; (Mississippi), XVI, a b 543, a 545
Cutri il Puttino, Giovanni Leonardo (Chess), V, a 522
Cuts, repair of (Surgery), XXII, a 717
Cut-splice (Seamanship), XXI, b 619
Cuttack or CATTACK, district and town, VI, a 211-2; (Orissa), XVII, a b 869
Cutter, yacht (Sail), XXI, b 161-2; rig (Seamanship) (Ill.), a 623, a *b* 628, b 630
Cutter, C. A., bibliographer (Libraries), XIV, b 538, *b* 539
Cutteriaceæ, family (Vegetable Kingdom), XXIV, *a* b 138
"Cutting" (Horse), XII, b 199
Cutting cards (Whist), XXIV, a 577
—— Coal (Ill.), VI, b 62-4; coin-blanks (Mint) (Ill.), XVI, a b 511; machines (Coal) (Ill.), VI, a b 63; Paper (Ill.), XVIII, a b 227; plugs (Gunnery) (Ill.), XI, a 265, a 266;
—— process (Calico-Printing), IV, b 610
—— teeth (Digestive Organs), VII, a 206
Cuttings, excavations (Building) (Ill.), IV, a 402-3; (Railway) (Ill.), XX, b 240-1
——, propagation by (Horticulture) (Ill.), XII, a b 217, b 243-5; pot for (Ill.), a 244
Cuttle-bone (Ill.), VI, b 651; (Mollusca) (Ill.), XVI, b 696; (Sepia), XXI, b 698
CUTTLE-FISH (Ill.), VI, b 648-53
  anatomical structure (Ill.), a 649-51
  distribution and bibliography, a b 653
  history and place, b 648-9
  nervous system, b 650-1
  reproduction and development, a b 652
  skeletal structures (Ill.), a 651-2
  vital organs (Ill.), b 649-51
—— (Maine), XV, a 301; (Mollusca) (Ill.); XVI, a 686, a 694; cranium of (Skeleton), XXII, b 121
Cutwa, town. See KATWÁ
Cut-water, bird (Skimmer), XXII, a 128
Cuvettes, melting pot (Glass), X, a 590
CUVIER, Georges Léopold-Chrétien-Frédéric-Dagobert, baron, naturalist, VI, b 653-5; (Cuttle-fish), b 648; (Amphibia), I, b 657, a 660; (Animal Kingdom), II, *a* 45; (Ape), a 130, b 147; (Evolution), VIII, *a* 653, note, *b* 656; (Flourens, M. J. P.), IX, b 304; (Geoffroy Saint-Hilaire), X, a *b* 156; (Ichthyology), XII, b 669-70; (Mammalia), XV, *b* 386; (Mollusca), XVI, a 654, a 655, a 670; (Montbéliard), a 804; (Morphology), a 864, a 865, a 866; (Ornithology), XVIII, b 11-2, a 25, note, b 26 note, a b 27, b 32; (Radiata), XX, a 219; (Reptiles), a b 447, *a* b 448; (Secretary-bird), XXI, b 648; (Touraco), XXIII, a 518; (Trematoda), a 569, a 575; (Tunicata), a 647, b 658; (Vertebrata), XXIV, *a* 193; (Zoology), a 840, *b* 842, a b 845-6, b 847, b 850
—— brain of (Anatomy), I, b 772; (Physiology), XIX, b 38; his classifications (Articulata), II, a 566; (Zoology), XXIV, a 846; eulogy of (Buffon), IV, b 398
Cuvierian organs (Echinodermata), VII, b 554, a 555
CUXHAVEN, port, VI, b 655; (Hamburg), XI, *b* 360, *b* 361, note
CUYABÁ, city, VI, b 655; (Brazil), IV, a b 200, b 207, b 210, *b* 212; river, VI, b 655; (Brazil), IV, a 200
Cuy-cocha, lake (Ecuador), VII, b 560
CUYP, painters, VI, b 655-6
——, Albert, painter, VI, a 656; (Goyen), XI, a 22; (Neer), XVII, *b* 323
——, Jakob Gerritsz, painter, VI, b 655-6
Cuyuni, river (Guiana), XI, b 221
Cuza, Alexander John, prince (Roumania), XXI, *b* 26
Cuzco, province, VI, a 657
CUZCO, city, VI, b 656-7; (Peru), XVIII, b 688, a b 689, b 690, a 693; (Pilgrimage), XIX, b 100; ruined fortifications (Architecture), II, b 395
Cwm-Cerwyn, hill (Pembroke), XVIII, a 492
Cwn Hir abbey (Radnor), XX, b 224
Cyamelid (Prussic Acid), XX, a 30
Cyamidæ, family (Crustacea) (Ill.), VI, b 585
Cyanates (Prussic Acid), XX, a b 30
Cyanecula, genus (Birds), III, b 666, note; (Redstart), XX, *a* 331
Cyanic acid (Nutrition), XVII, b 702; (Prussic Acid), XX, *a* 30; (Wöhler), XXIV, *a* 660
—— ethers (Wurtz), *b* 739
Cyanide of Hydrogen. See PRUSSIC ACID

Cyanide of potassium (Photography), XVIII, b 838; (Poisons), XIX, b 290; (Prussic Acid), XX, b 27–8, *b* 29, b 30
Cyanides (Chemistry), V, b 480-2, a 491; (Nitrogen), XVII, b 532; (Prussic Acid), XX, b 26-30; in blast furnace (Iron), XIII, b 318–9; gold (Chemistry), V, b 466; iron (Chemistry), a 464; of Methyl, XVI, a b 205; platinum group (Chemistry), V, b 465
Cyanite (Mineralogy), XVI, b 384, b 387, a 392, b 394, a 426
Cyano-derivatives of hydrocarbons (Chemistry), V, a 491
Cyanogen, gas (Chemistry), V, a 479; (Gay-Lussac), X, a 111; (Iron), XIII, b 316; (Liebig), XIV, *b* 569; (Prussic Acid), XX, b 26, b 27; in case hardening (Iron), XIII, b 349, b 351; compounds (Chemistry), V, b 480-2, a 491
Cyanometer (Saussure), XXI, a 339
Cyanophyceæ, sub-class (Vegetable Kingdom), XXIV, *b* 136–7, *b* 138, a 139
Cyanose (Mineralogy), XVI, b 375
Cyanosis, blood disorder (Monster), XVI, b 791
Cyanospiza, genus (Nonpareil), XVII, *b* 547
Cyanotype charting (Surveying), XXII, a 753
Cyanuric acid (Prussic Acid), XX, a 30; (Wurtz), XXIV, b 739
Cyathaxonidæ, family (Corals), VI, b 339, b 340
Cyathea medullaris, species (Ferns), IX, b 89, a 90
Cyatheaceæ, order (Ferns), IX, b 89, a 92; (Tree-fern), XXIII, a b 568
Cyathocrinus, genus (Echinodermata) (Ill.), VII, a 551, b 552
Cyathophyllidæ, family (Corals), VI, a 338, *b* 339, b 340, a 341
Cyathozooid (Tunicata), XXIII, a 658
Cyathus in Weights and Measures, XXIV, *a* b 513
Cyaxares, king (Ahasuerus), I, a 374; (Persia), XVIII, b 573, a b 575
CYBELE, Rhea, goddess, VI, a 657; (Corybantes), a 393; (Lemnos), XIV, b 437; (Lydia), XV, a *b* 100; (Pessinus), XVIII, b 704; (Phrygia), b 864, a 865, a b 867, note; (Smyrna), XXII, a 197; statue of (Rome), XX, a 841
Cybium maculatum, species (Mackerel), XV, b 160 note
Cybulski, Adalbert, philologist (Poland), XIX, a 317
Cycadaceæ, order (Botany), IV, *b* 114, b 122, b 127, b 131, a b 139; (Vegetable Kingdom), XXIV, b 142, a b 143
Cycas, plant (Botany) (Plate XV), IV, b 85, a 103, b 128, b 131; meristem zones of (Histology), XII, *b* 17
CYCLADES, islands, VI, a 657; (Archipelago), II, *a* 331; (Greece), XI, a 73, b 74; (Numismatics), XVII, b 661; (Paros), XVIII, b 325; (Phœnicia), b 818
Cyclamen, plant (Botany), IV, b 84, a 86, b 108; (Horticulture), XII, a 258, b 271-2
Cyclas, genus (Mollusca) (Ill.), XVI, a 711, b 718, a 720, b 721
Cycle, time (Mexico), XVI, a 217, a 218, b 220–1
——, Calippic (Astronomy), II, b 653; (Calendar), IV, a 593; (Chronology), V, b 619–20
—— of Indiction (Chronology), V, a 622
—— of Meton (Algebra), I, b 493; (Astronomy), II, b 651; (Calendar), IV, b 592, a 593; (Chronology), V, b 617, a 620
—— of steam operations, Carnot's (Thermodynamics), XXIII, a b 304; (Steam-Engine), XXII, a b 504, a b 505; Stirling's (Steam-Engine), b 501–2; of working substance (Steam-Engine), b 497, b 499–500, a b 504, a b 505
Cycles (Chronology), V, a 617; Chinese (Chronology), a b 623; Hindu (Chronology), b 624
Cyclic poems (Greece), XI, a 123; (Homer), XII, b 112, a 116, a 118, a 119, a 120
Cyclica, genus (Insects), XIII, a 156
Cyclide defined (Surface), XXII, b 704
Cyclitis, disease (Ophthalmology), XVII, a 804
Cycloclypeus, genus (Foraminifera) (Ill), IX, *a* b 336, b 339
Cycloclypeina, family (Protozoa), XIX, b 871
Cyclogens (Botany), IV, b 89
Cycloid (Infinitesimal Calculus), XIII, b 57, b 58; (Torricelli), XXIII, a 482; (Variation), XXIV, a 95; quadrature of (Pascal), XVIII, b 343
Cycloidal motion (Mechanics), XV, b 713
Cycloids, group (Agassiz), I, *a* b 246; (Ichthyology) (Ill.), XII, b 670, b 675, a b 676
Cyclomyaria, group (Tunicata), XXIII, a 654-5
Cyclones (Asia), II, a b 603; (Calcutta), IV, b 584; (Climate), VI, *a* 8; Indian Ocean (Meteorology), XVI, a 188; (Madras), XV, b 188, a b 190; (Mauritius), a 647; (Meghna), b 839; (Meteorology), XVI, a 130, a 132, a 135, a 160–1, b 187; (Navigation) (Ill.), XVII, b 283–4; (Noákháli), b 537–8; (West Indies), XXIV, *a* 539; area of (Atmosphere) (Ill.), III, a 31; (Meteorology), XVI, a 142; tracks of (Meteorology), a b 160, a 161; waves (Geology), X, a 252
Cyclopædia, Chambers's, V, b 329; VIII, b 178–9; (Encyclopædia), VIII, a 186
——, *American*, Appleton's, VIII, a 186; (Ripley), XX, b 582
—— *of Anatomy, etc.*, Todd's (Insects), XIII, a 151
—— *of Biblical Literature* (Kitto), XIV, b 106
—— *of Education*, VII, a 589
—— *of English Literature* (Chambers), V, b 330
—— *Penny* (De Morgan), VII, b 58–9; (Knight), XIV, b 112
—— Rees's (Burney), IV, a 504
——. See ENCYCLOPÆDIA
Cyclopean ruins (Messene), XVI, b 57; structures (Ithaca), XIII, a b 527; walls (Architecture) (Ill.), II, b 352; (Argos), a 438; (Cephalonia), V, a 299; (Polynesia), XIX, a b 442; (Præneste), a 674, a 675
CYCLOPES, myths, VI, a b 657; (Archæology), II, b 302
Cyclopidæ, family (Crustacea) (Ill.), VI, b 575
Cyclops, genus (Crustacea), VI, b 587, *a* 588
—— Monster, XVI, b 790, a 791
Cyclops, play (Euripides), VIII, a 595
—— *or Galatea*, poem (Philoxenus), XVIII, a 811
Cylopterus lumpus, species (Lump-sucker), XV, b 66
Cyclorhapha, group (Diptera), VII, b 222, a 223
Cyclosis, organic motion (Botany), IV, a 77
Cyclostoma, sub-order (Polyzoa) (Ill.), XIX, a b 452
Cyclostomata, sub-class (Hagfish), XI, b 330; (Ichthyology), XII, b 670, b 673, a b 682, a b 687, b 688–9, a 690, a 694, a 695, *b* 696, a 698, *a* 705, a 710, a b 714, a 716, a 723, b 733; (Lamprey), XIV, a 250; (Vertebrata), XXIV, b 196, a *b* 197–8; brain of (Physiology), XIX, b 37; skull of (Skeleton), XXII, *a* b 122
Cyclostomidæ, family (Snail), XXII, b 197, a 198
Cyclostyle Writing Machine, XXIV, b 733
Cyclo-systems (Hydrozoa), XII, b 587, *a* b 598
Cycloturus, genus (Mammalia), XV, a 389
Cyclus paintings (Kaulbach), XIV, a 19
Cycnus, myth (Poseidon), XIX, b 574
Cyder (Philips), XVIII, a 769
Cydippe, genus (Actinozoa), I, *a b* 122; (Hydrozoa), XII, b 599, a b 600
Cydnus, river (Asia Minor), II, b 619; (Cilicia), V, a 679
Cydones, Demetrius (Greece), XI, a 131
Cydonia, city (Canea), IV, *b* 711; (Crete), VI, a 505; (Numismatics), XVII, b 660-1
Cydonia, plant (Quince), XX, b 188, a 189
Cydonium, genus (Sponges) (Ill.), XXII, a 430, a 431
Cygnet, bird (Swan), XXII, b 768, note, a b 769, note
Cygnopsis cygnoides, species (Goose), X, b 692
Cygnus, genus (Swan), XXII, a b 769–70
——, constellation (Sun), XXII, b 685–6
Cylices (Pottery and Porcelain), XIX, a b 631
Cylinder (Mensuration), XVI, b 29
——, angular velocity of (Mechanics), XV, a 746
—— blast-engines (Ill.), III, a 475–6
—— dial (Dialling) (Ill.), VII, a b 139
——, Electrical Machine VIII, b 94
—— escapement (Watch) (Ill.), XXIV, b 417, a b 418
—— frame (Weaving), XXIV, *a* 492
——, infinite (Magnetism), XV, b 250
—— machines (Calico-Printing) (Ill.), IV, a 607–8
——, mensuration of (Geometry), X, a 346
—— piers (Bridges), IV, b 293–5
—— presses (Typography) (Ill.), XXIII, a 752–4, b 755
—— rolling (Mechanics) (Ill.), XV, a b 762
——, stability of (Capillary Action), V, a b 61
——, steam (Joints), XIII, b 742; behavior of (Steam-Engine) (Ill.), XXII, a 506-10; heat theories of, b 496; horizontal, a 538, a 539; invention of, b 491–2, b 493-4; walls, influence of, a 507–8, a 509, b 513–4
—— still (Petroleum), XVIII, b 890
——, torsion of (Elasticity) (Ill.), VII, a 703, a b 704
——, under pressure (Mechanics), XV, b 753–4
Cylinders, bursting of (Strength of Materials), XXII, a b 639
——, coaxial (Electricity), VIII, a 34
——, engraved (Gems), X, a 122, a *b* 123
——, equation of (Geometry), X, a b 375
——, position of locomotive (Steam-Engine) (Ill.), XXII, a b 547–8, b 924
——, rigid, plane motion due to motion of (Hydromechanics), XII, b 469-72
——, Worthington compensating (Steam-Engine), XXII, b 541
Cylindrical bobbin (Electricity), VIII, b 67
—— lenses (Spectacles), XXII, a b 387
—— light obstruction (Wave Theory), XXIV, a b 481
—— mirror (Light) (Ill.), XIV, a b 593
—— sections (Serenus), XXI, a b 707
—— surface refraction (Light) (Ill.), XIV, a 600–2
Cylix painting (Pottery), XIX, a b 631
Cyllene mountains (Greece), XI, *a* 74; settlement (Elis), VIII, b 130
Cylon, conspirator (Athens), III, b 3–4; (Greece), XI, *a* 87
Cyma, moulding (Architecture) (Plate XIII), II, b 357, *a* 358, *b* 366, b 406; enriched Egyptian (Architecture) (Plate VII), II, a b 341

Cymbal stop (Organ), XVII, b 855
Cymbeline, play (Shakespeare), XXI, a 801, a 805
Cymbulia, genus (Mollusca) (Ill.), XVI, a b 690
Cymbuliidæ, family (Mollusca), XVI, b 690
Cyme in Botany (Ill.), IV, b 111-3
——, city (Græcia Magna), XI, a 28; (Homer), XII, *a b* 112; (Phrygia), XVIII, a b 865
Cymene, hydrocarbon (Chemistry), V, b 485; (Lemon), XIV, b 439; (Oils), XVII, b 769
Cymophane (Mineralogy), XVI, b 402
Cymothoa, fish lice (Crustacea), VI, a 572
Cymric conquest of Wales (Pembroke), XVIII, a 493; dialect (Celtic Literature), V, a 260; ethnic traditions (Celtic Literature), a b 261; Gauls (Druidism), VII, b 413; literature (Celtic Literature), V, b 272-80, b 284-5
Cymry, race (Britannia), IV, a 318; (Celtic Literature), V, a *b* 261; distribution of the (Arthur), II, a b 570
Cynæthus of Chios, rhapsodist (Homer), XII, b 113
Cynanche parotidea, disease (Mumps), XVII, b 28
Cynara, plants (Horticulture), XII, b 289, a 292
Cynarrhodum of rose (Botany), IV, a 137, 138
Cynegetica, poem (Oppian), XVII, a b 820
Cynegeticus of Xenophon (Hunting), XII, b 408-9
Cynewulf, poet (English Language), VIII, b 351, 359; (English Literature), a 361
Cynic philosophy (Scepticism), XXI, a b 396; (Socrates), XXII, *a* b 250; (Stoics), a b 590, b 596
CYNICS, sect, VI, b 657; (Antisthenes), II, a 120-1; (Ethics), VIII, a 510; (Sophists), XXII, a b 283
Cynipidæ, family (Galls), X, *a b* 40, *a* 41, b 42; (Hymenoptera) (Ill.), XII, a 606, *a* b 607, b 608, *a* 609, *b* 610, note, a 612; (Insects), XIII, b 149, b 154
Cynocephalus, genus (Ape) (Ill.), II, b 133-4, a *b* 137, *a* b 138, *a b* 139, *a* b 140, a *b* 141, *a b* 142, b 144, *a* 145, b 146
Cynogale, species (Mammalia). XV, b 442-3
Cynoidea, section (Mammalia), XV, a 444-5
Cynomyonax, genus (Polecat), XIX, b 344
Cynomys, genus (Mammalia), XV, a 423; (Marmot) (Ill.), a b 567
Cynonycteris, genus (Mammalia), XV, a 414
Cynopithecinæ, sub-order (Ape) (Ill.), II, a 133-4, b 136, a b-137, a 138, b 141
Cynopterus, genus (Mammalia), XV, a 414
Cynosarges, sacred ground (Isocrates), XIII, b 400
Cynoscephalæ, mountain (Pelopidas), XVIII, b 490; battle of, 197 B.C. (Flamininus), IX, b 251; (Greece), XI, a 97
Cynossema, Cape Alupo (Caria), V, b 90; battle, 411 B.C. (Thrasybulus), XXIII, b 339
Cynosurus, genus (Grasses). XI, a 50, a 53
Cynthia, moth (Silk), XXII, b 66
Cynthia Monobiblos (Propertius), XIX, a 835
Cynthiidæ, family (Tunicata), XXIII, b 656
Cynthius, novelist. See GIRALDI, Giovanni
Cynthus, mountain (Delos), VII, a b 46
Cyon, genus (Mammalia), XV, a 445
Cyperaceæ, order (Grasses), XI, a 48, a b 49, a 50, *b* 51
Cyperus, genus (Papyrus), XVIII, a 235, a 236, a 237; Babylonicus, plant (Galangal), X, a 17
—— root oil (Oils), XVII, a 765
Cyphellæ, excavations (Lichens), XIV, b 556-7
Cyphophthalmides, family (Arachnida), II, a 243, b 244-5
Cypræa, shell (Cowry), VI, *a* 475
CY-PRÈS, law-term, VI, b 657; (Trust), XXIII, b 635, b 637
CYPRESS, tree, VI, b 657-8; (Arboriculture), II, b 280; (Arbor-vitae), a b 275; (Botany), IV, a 86; (Cedar), V, b 248; (Lebanon), XIV, a 393; (Mexico), XVI, b 230; (Mississippi), a 545, b 546; forests (United States), XXIII, *b* 860, b 861; fruit of (Botany), IV, a 139
Cypresse Grove (Drummond), VII, a b 415
Cypria, epic (Achilles), I, b 89; (Homer), XII, b 112
CYPRIAN of Carthage, bishop, VI, b 658-9; (Canon), V, b 7, b 10; (Christianity), a 609; (Creeds), VI, b 494, a 495; (Episcopacy), VIII, b 432; (Minucius, Felix), XVI, b 515; (Penance), XVIII, b 496; (Saint), XXI, *a* 164; (Tertullian), XXIII, a 213
—— of Nisibis, bishop (Syriac Literature), XXII, a 888
Cypridina shales (Geology), X, b 302
Cyprinacea, family (Mollusca), XVI, a 711
Cyprine (Mineralogy), XVI, b 427
Cyprinidæ, family (Dace), VI, b 668; (Himalaya), XI, a 745; (Ichthyology), XII, a 691, a b 702, a 704, a 708, a b 707-12, a 713, a *b* 714, a b 731
Cyprinina, sub-order (Ichthyology), XII, *a b* 714, a 730
Cyprinodontidæ, family (Ichthyology), XII, b 702, a 707, a 708, a 710, a b 712, b 714, b 715, b 731
Cyprinoid, fish (Minnow), XVI, a-b 500; senses of (Touch), XXIII, b 508
Cypriote alphabet, I, b 534, note; dialect (Greece), XI, b 118; language (Cyprus), VI, b 661, note; syllabary (Hittites), XII, a 30
Cypripedium, genus (Botany), IV, b 117, a 121, b 125; (Horticulture), XII, a 258; (Orchids), XVII, *b* 841
Cypris, genus (Crustacea), VI, *b* 587
CYPRUS, island (Sketch), VI, a 659-61
  antiquities, b 661
  history, b 660-1
  physical features, a b 659
  products, b 659-60
  towns, a b 660
—— (Egypt), VII, b 645, a b 646; (Gems), X, a 122, b 124; (Government), XI, a 19; (Greece), a 73, a 82, b 105, *a* 108, b 134; (Greek Church), a 138; (Incense), XII, a 760; (Isaac II.), XIII, a 385; (Jewellery) (Plate XII), a b 687; (John, Don), b 727-8; (Numismatics), XVII, b 655, a 677; (Paul), XVIII, a 428; (Persia), b 582, a 590, a 592, a 593; (Phœnicia), a b 818, b 821, a 822; (Turkey), XXIII, a 695; conquest of, 1571 (Turkey), a 685; sale of (Templars), b 177, b 178
Cypselidæ, family (Humming-bird), XII, *b* 371
Cypselomorphæ, division (Goat-sucker), X, b 633; (Humming-bird), XII, b 371, a 372
Cypselus, genus (Swift), XXII, b 798-9
Cypselus, tyrant (Greece), XI, b 85; (Periander), XVIII, a 539
——, chest of (Archæology), II, *a* 304, a b 313; (Artemis), a 563; (Corinth), VI, *a* 353; (Pausanias), XVIII, b 448; (Tithonus), XXIII, a 441
Cyrano de Bergerac (Aëronautics), I, b 168
CYRENAICA, district, VI, a 662; (Egypt), VII, b 645, a 646; (Numismatics), XVII, b 668, a 669
CYRENAICS, sect, VI, a 662; (Aristippus), II, b 445-6; (Horace), XII, b 166; (Socrates), XXII, *a* b 250
Cyrenaic statuettes (Terra-Cotta), XXIII, a 210
CYRENE, city, VI, b 662; (Aristæus), II, b 443; (Athletæ), III, b 12; (Battus), *b* 385-6; (Egypt), VII, b 646-7; (Gems), X, b 125; (Greece), XI, a 86; (Thera), XXIII, b 300
Cyriac of Ancona, archæologist (Inscriptions), XIII, a 128
Cyriacus of Bizon, patriarch (Syriac Literature), XXII, b 884, a 889
Cyril, St., missionary (Greece), XI, a 103; Slavonic Missions, XVI, a 536
CYRIL of Alexandria, VI, a b 663; (Alexandria), II, a 168; (Egypt), VII, a 649; (Gloss), X, a b 612; (Hermeneutics), XI, b 666; (Hypatia), XII, a 631; (Mary), XV, b 597; (Nestorius), XVII, b 364, *a b* 365
CYRIL of Berytus, VI, b 663
CYRIL of Jerusalem, St., VI, a 663; (Canon), V, a 11; (Saint), XXI, a 164
—— of Turoff, bishop (Russia), XXI, a 112
Cyrillic alphabet, I, a 539-40; (Greece), XI, a 103; (Slavs), XXII, a 157, a 159 note
—— *documents* (Slavs), XXII, a 159
Cyrillōnā, poet (Syriac Literature), XXII, a b 868
Cyrillus Lucaris, patriarch (Alexandrian MSS.), I, b 438; (Greek Church), XI, a b 141
Cyril Thornton (Hamilton, T.), XI, *b* 371
Cyropædia (Philostratus), XVIII, a 810; (Xenophon), XXIV, a b 757
Cyrrhestica, country (Numismatics), XVII, b 666
Cyrtida, genus (Protozoa) (Ill.), XIX, b 873
Cyrtometers (Respiration), XX, b 490
Cyrus or Cyrrhus, city (Theodoret), XXIII, a 275
—— of Edessa, bishop (Syriac Literature), XXII, b 870
CYRUS the Elder, king, VI, b 663-4; (Army), II, b 490; (Babylonia), III, b 163; (Cambyses), IV, a 648, a 649; (Crœsus), VI, b 525-6; (Haggai), XI, *b* 331; (Hunting), XII, b 408; (Isaiah), XIII, *a* 390, b 393, b 394; (Israel), a b 427; (Phocæa), XVIII, a 812; (Persia), a 576-9, a 619
CYRUS the Younger, prince, VI, b 664; (Clearchus), V, b 715; (Kurdistan), XIV, a 160; (Persia), XVIII, b 587, a b 588; (Pisidia), XIX, a 139
Cyrus, epic (Wieland), XXIV, a 590
—— of Phasis, patriarch (Monothelites), XVI, b 784, a 785
Cysoing, town (Nord), XVII, b 548
Cyst formations and pus (Pathology) (Ill.), XVIII, b 370-71; (Protozoa) (Ill.), XIX, a 856, b 858, a b 861, a 862; dermoid (Pathology) (Ill.), XVIII, b 378-9; epidermis in (Pathology), b 371; of retention (Pathology), b 387
Cystenchyme, tissue (Sponges) (Ill.), XXII, a b 435-6
Cysticercoidei, family (Tapeworms), XXIII, a 58
Cysticercus, genus (Tapeworms), XXIII, a b 57, a 58, a 59; (Veterinary Science), XXIV, *a b* 223
Cystic sarcoma (Pathology) (Ill.), XVIII, b 374-5
Cystici or Cystic Tapeworms, XXIII, a 61
Cystidea, order (Echinodermata) (Ill.), VII, a 544, b 552-3
Cystidia or asci, cells (Botany), IV, a b 145; (Fungus), IX, a 731, note
Cystiphyllidæ, family (Corals), VI, a 338, a b 339, b 340

Cystispongia, genus (Sponges), XXII, a 438, b 439
Cystisus, genus (Laburnum), XIV, b 179-80
Cystitis, disease (Vesical Diseases), XXIV, *b* 204-5
Cystocarp in Botany, IV, b 144
Cystogenous cells (Trematoda), XXIII, b 572
Cystoidei, family (Tapeworms), XXIII, a 61
Cystolith in plants (Histology), XII, a 14; (Botany), IV, b 78; (Physiology), XIX, a 61
Cystophora, genus (Mammalia), XV, b 368, b 450
Cystopus candidus, species (Fungus) (Ill.), IX, b 727, a 729
Cystotænia, genus (Tapeworms), XXIII, a 61
Cystozoa, group (Protozoa), XIX, a 877
Cythera, island. See CERIGO
Cythere, genus (Crustacea), VI, *b* 587
Cytherea, genus (Mollusca) (Ill.), XVI, a 711, a b 712
Cytinaceæ, plants (Parasitism), XVIII, b 269-70
Cytisus Adami, genus (Horticulture), XII, a 218
Cyto-blastema (Anatomy), I, b 739
Cytode, protoplasm (Anatomy), I, a 740
Cytogenesis (Histology), XII, a 15-6
Cyttidæ, family (Ichthyology), XII, b 700-1, a 716, a 720
CYZICUS, town, VI, à 665; (Homer), XII, b 122; (Mysia), XVII, a 130; (Numismatics), b 662; battle of, 74 B.C. (Lucullus), XV, b 57-8
CZACKI, Tadeusz, statesman, VI, a 665
Czar or Tsar, derivation of (Emperor), VIII, a 165; White (China), V, a 568
CZARTORYSKI, Prince Adam George, patriot, VI, a 665
CZASLAU, town, VI, b 665
CZECHS or Chekhs, race, VI, b 665; (Moravia), XVI, a 837; race (Slavs), XXII, b 153, a 155, a *b* 156, a b 157; literature of (Bohemia), III, a b 748; (Slavs), XXII, a 160-3. See Bohemian Language and Literature
CZEGLED, town, VI, b 665
CZENSTOCHOVA, towns, VI, b 665-6
Czeremosz river (Kuty), XIV, a 163
CZERNOWITZ or Czernauz, city, VI, a 666; (Bukowina), IV, a b 461
CZERNY, GEORGE or Black George, general, VI, a b 666
CZERNY, Karl, composer, VI, a 666.
Czerski, Johann, reformer (German Catholics), X, a 400
Czolbe, Heinrich C., divine (Evolution), VIII, b 671
Czuczor, Gregory, poet (Hungary), XII, a 393

D, letter, VI, a 666-7
Daa, Ludvig Kristensen, historian (Norway), XVII, b 606
Daae, Ludvig, historian (Norway), XVII, b 606
Daalberg, Bruno, pseudonym (Holland), XII, b 100
Dabbí, biographer (Tabarí), XXIII, b 8
Dabchick, bird (Grebe), XI, a 72; (Loom), XV, a 4
Dabistán or *School of Manners* (Persia), XVIII, b 672
Daboia, genus (Snakes), XXII, a 210
Dabûriya, town (Zebulon), XXIV, a 811
Da Cadore, Titian. See Titian
Da Capo, musical term (Music), XVII, b 94. *a* 100
DACCA or Dhaka, district, VI, a 667-8
DACCA, city, VI, a b 668; (Muslin), XVII, a b 116
—— muslins (Cotton), VI, a 433; (Yarn), XXIV, b 766
Daccha, narcotic (Hottentots), XII, *a* b 324
DACE, dare or dart, fish, VI, b 668; (Angling), II, b 38-9
Dacelo, birds (Kingfisher), XIV, *a* b 84, note
Dach, Simon, poet (Hymns), XII, b 621
Dachstein, mountains (Alps), I, a 553; (Salzkammergut), XXI, a 253; (Styria), XXII, a 646
DACIA, district, VI, b 668-9; (Goths), X, *a* b 754; (Greece), XI, b 100; (Hungary), XII, a 382; (Vlachs), XXIV, a *b* 288, b 290; conquest of (Rome), XX, *b* 793, note, a 795; (Trajan), XXIII, b 535, a b 536
Dacian tablets (Palæography), XVIII, a b 158, a 159
DACIER, Andre, classicist, VI, a b 659
——, Anne Lefèvre, classicist, VI, b 669-70; (France), IX, a 584; (Huet), XII, a 349
DA COSTA, Isaak, poet, VI, a 670
Dacre, George, lord warden (Scotland), XXI, *a* 520, a 521
Dactylethra (Amphibia), I, *a* 660, b 662-3, b 668, *b* 668*, a 669, b 672, a b 674, a b 675, b 677
Dactylic metre (Alliteration), I, a 516
Dactylocalycidæ, family (Sponges), XXII, b 439
Dactylopsila, marsupial (Phalanger), XVIII, b 742
Dactylopterus, genus (Flying-Fish) (Ill.), IX, a b 308
Dactylozooids (Hydrozoa), (Ill.), XII, *b* 597-8, a 599
D'Adam, L'Isle, grand-master (St. John, Knights of), XXI, b 183
Daddy-long-legs, insect (Diptera), VII, b 223; (Wheat), XXIV, b 565
Dādhā of Amid, monk (Syriac Literature), XXII, a 870
Dādh-īshō of Islā, abbot (Syriac Literature), XXII, a 880
—— of Seleucia (Syriac Literature), XXII, b 870
Dadjo, tribe (Darfur), VI, a b 725
Dado, architectural term (Architecture), II, b 406; (Building), IV, b 437, a 442; (Mural Decoration) (Ill.), (Plate I), XVII, *a* 51
Dadouchi, torch-bearers (Mysteries), XVII, b 133, b 135
Dādū, teacher (Hindustani Literature), XI, a 754
Dædala, mount (Lycia), XV, b 94
DÆDALUS, myth, VI, a b 670; (Aëronautics), I, b 167; (Labyrinth), XIV, b 180; (Minos), XVI, a 501
—— of Sicyon, sculptor (Archæology), II, b 303, a 305; (Numismatics), XVII, b 659
—— reef (Red Sea), XX, a 329
Dægsastan, chieftain (Lothian), XV, b 11
Dæmon, guardian spirit (Cardan), V, a 81; (Demonology), VII, b 53-4, a 56; (Socrates), XXII, a b 246, b 247, b 251
Dæmones, spirits (Manes), XV, a *b* 485
Daêva, evil spirits (Zoroaster), XXIV, b 860, *a* b 861
Dafar, town (Arabia), II, a 221
DAFFODIL, plant, VI, b 670; (Horticulture), XII, b 265
Dafne, opera (Music), XVII, b 93-4, a 95
Daft system (Traction), XXIII, a 527
Dafydd ab Edmund, poet (Eisteddfod), VII, b 686
Da Gama, Vasco. See GAMA
Dagda, god (Celtic Literature), V, *b* 260, b 269
DAGGER, VI, b 670; (Albacete), I, a 395; (Arms and Armor), II, a 485, a 486; (Sword), XXII, a 839
DAGHESTAN, district, VI, b 670-1; (Caucasus), V, b 221-2, b 223, *b* 224; (Leghians), XIV, a 475; (Transcaucasia), XXIII, *b* 545, b 546; statistics (Russia), XXI, b 76, note
D'AGINCOURT, Jean Baptiste, archæologist, VI, a 671
Dagmar Cross (Ill.), VI, b 542
Dagobert I., king of the Franks (France), IX, a 469; (Salic Law), XXI, *a* 225; tomb of (St. Denis), b 169
DAGON, god, VI, a 671; (Philistines), XVIII, b 769, a b 770
DAGUERRE, Louis Jacques Mandé, painter, VI, a b 671; (Photography), XVIII, b 835, a b 836, b 853; (Talbot, W. H. F.), XXIII, a 32
Daguerreotype (Daguerre), VI, a b 671; (Photography), XVIII, a b 836; solar (Parallax), a 253
D'AGUESSEAU, Henri François, chancellor, VI, b 671-2
Dagwerck (Huygens), XII, a 433
Dagyr, John Adam, merchant (Lynn), XV, a 110
Daher or Dhâhir, sheik (Ali Bey), I, a 505
Dahhák b. Kais, governor (Mohammedanism), XVI, a 592
Dahirah, district (Arabia), II, a 222
DAHL, Johann Christian, painter, VI, a b 672
DAHL, Michael, painter, VI, b 672
DAHL or Dale, Vladomir Ivanovitch, philologist, VI, b 672
Dahlak, island (Red Sea), XX, a 329; (Semitic Languages), XXI, a 687
Dahlberg, Charles Theodor Anton Maria, count primate (Free Imperial Cities), IX, a 657
DAHLGREN, Karl Fredrik, poet, VI, b 672-3; (Sweden), XXII, a 795
DAHLIA, plant, VI, a 673; (Botany), IV, a 78, a 117; (Horticulture), XII, a 263; grafting (Horticulture) (Ill.), b 242, a 243
DAHLMANN, Friedrich Christian, historian, VI, a b 673
Dahlonega, town (Georgia), X, a 392, a 393
DAHLSTJERNA, Gunno Eurelius, poet, VI, b 673-4; (Sweden), XXII, b 793
Dahn, Felix, philologist (Procopius), XIX, *b* 812
Dahna, desert (Arabia), II, *a* b 209, a 218
Dahoe tribe (Baluchistan), III, a 259
DAHOMEY, kingdom, VI, a 674-6
  Amazons, a b 676
  area and surface, a b 674
  communications, b 674-5
  customs, a 676
  history, b 675-6
  products and climate, a b 675
  towns and divisions, a 675
—— (Funeral Rites), IX, a 724, a 725; (Yoruba), XXIV, a b 791, *a b* 792
Dahshur pyramids (Architecture) (Ill.), II, a b 338; (Egypt), VII, b 670-1; (Pyramid), XX, *a* b 130
Daie, fabulous bird (Megapode), XV, a 836 note
DAILLÉ, Jean or Dallæus, Johannes, divine, VI, b 676; (Ana), I, a 688
D'Ailly, Pierre. See Petrus Alliacus
Daily Bible Illustrations (Kitto), XIV, b 106
—— *News*, London (Dickens), VII, a 153
—— *Telegraph*, London (Newspapers), XVII, b 429
DAIMIEL, town, VI, b 676-7
Daimiô, nobles (Japan), XIII, b 587, a 589, *b* 592, *a b* 593; (Tokio), XXIII, *b* 461, a 462
Dainihonshi, history (Japan), XIII, a 597
Dairies of Ayrshire, III, b 141-2; of Bavaria, a 390; (Dorset), VII, b 321, a 322
Dairies, district (Cambridge, County), IV, a 644
DAIRY (Ill.), VI, a 677-81
  buildings (Ill.), a b 678
  butter dairies, a 679-80
  cheese dairies, a 680-1
  cost and profit, a 681
  cows, management of, a 677-8
  Lancashire method, b 679-80
  milk, sources of, a 677
  new milk dairies, a 678-9

Dairy (Milk), XVI, b 316; cattle (Agriculture), I, b 344–5; farming (Cheshire), V, a 512; (Denmark), VII, b 71; (Holland), XII, a *b* 70, a 75; (Ireland), XIII, b 231–2; (Italy), b 461
—— farms (Agriculture), I, b 305, b 306, a b 307
—— products, Great Britain (Milk), XVI, a-b 318; (United States), XXIII, a 878
Dairyman's Daughter, tract (Richmond), XX, b 561
Dais, platform (Architecture), II, b 406
DAISY, plant, VI, b 681; (Botany), IV, a 100, a *b* 108, a b 111, b 113, a 121; (Breeds), b 222; (Primrose), XIX, b 756 note; double (Horticulture), XII, b 257
——, Christmas (Aster), II, b 643
Dajaukku, prince (Persia), XVIII, b 574
Dajjal, Masih al (Antichrist), II, b 111
Dakar, town (Goree), X, b 697; (Senegal), XXI, *b* 692, note
Daker-hen, bird (Rail), XX, b 229
Dakhel or Dakhila, oasis (Oases), XVII, *a* 715
Dákhil Darwága, gate (Gaur), X, b 103
Dakhin, district. See DECCAN
Dakhinī, dialect (Hindūstānī), XI, b 749, note
Dakiki, poet (Persia), XVIII, a 669
Dakin, deity (Philistines), XVIII, b 770. See Dagon
Dakkhan, district. See DECCAN
DAKOTA (Map), VI, b 681–2
—— (Universities), XXIII, a 913, a b 958; statistics, (United States), *b* 853, *a* b 855, *b* 856, b 858 note, b 862, b 864, b 868, a 869, a *b* 873
Dakota or James River, VI, b 681
Dakotah Dictionaries, VII, a 168
Dakotas (Indians), XII, *b* 865, b 867–8, a 871, *a* b 872
Dakshin, district. See DECCAN
—— Sháhbázpur, island (Bákarganj), III, b 213, a 214
Dâkshiputra or Panini, grammarian (Sanskrit), XXI, *b* 287, b 289, *a* 290, b 295, *a* 298, a b 306
Dal, lake (Kashmir), XIV, a b 13
Dála (Honey), XII, a 141
Dalai Lāmā, priest (Buddhism), IV, a 392; (Lāmāism), XIV, b 230, *a* 231; (Lhasa), b 496, a 498, a *b* 500, a 502; (Tibet), XXIII, *a* 368
Dalai-nor river (Transbaikalia), XXIII, a 542
Dalberg, Wolfgang Heribert, Baron von (Schiller), XXI, *a* 413
Dalbergia, plants (Rosewood), XX, *b* 874; fruit of (Botany), IV, a 138
Dalburg, John of, bishop (Reuchlin), XX, a 504
Dalby's theorem (Earth), VII, b 522
Dal-Cais, dynasty (Ireland), XIII, b 258–60
Dale river (Westmeath), XXIV, a 541
Dale, David, manufacturer (Cotton), VI, a b 445; (Scotland), XXI, a 558
DALE or Dahl, Vladomir Ivanovitch, philologist, VI, b 672
——, William (Annuities), II, b 72, a 73
Dale and Caro process (Coal Tar Colors), XVIII, b 902
Dalecarlia, district (Gustavus I.), XI, b 297–8; (Gustavus III.), b 299
Dale Dike dam, bursting of (Water Supply), XXIV, b 429–30
Dal Elf, river (Sweden), XXII, b 774
D'ALEMBERT, Jean Le Rond, encyclopædist, VI, a 682–4; (Astronomy), II, b 663–4; (Condorcet), VI, b 225, a 226; (Diderot), VII, *a* 169, b 170; (Encyclopædia), VIII, a 180; (France), IX, a 522, b 590; (Hydromechanics), XII, a b 453, a 463; (Infinitesimal Calculus), XIII, b 13, a b 66; (Laplace), XIV, a 301; (Tides), XXIII, a 378
D'Alembert's principle (Mechanics), XV, b 723, a b 730
Daler, coin (Numismatics), XVII, b 676
Dales described (Scotland), XXI, a 517
Dalfinus or Annemund of Lyons, archbishop (Wilfrid), XXIV, a b 597
DALGARNO, George, educational writer, VI, a 684; (Deaf and Dumb), VII, b 7, a 9
"Dalgronden," fields (Holland), XII, a b 64
Dalhousie, George Ramsay, earl (Smillie), XXII, b 910
DALHOUSIE, James Andrew Brown Ramsay, marquis, VI, a 684–7
  annexations in India, b 684–5
  civil administration in India, b 685–6
  home service, b 684
  parentage and education, a b 684
  reforms in India, b 685–6
  retirement of, a b 686
  Sepoy mutiny, b 686–7
—— (Burmah), IV, *b* 498; (Clive), VI, a 13; (India), XII, b 793, b 847–8; (Napier, C. J.), XVII, b 183
—— sanitarium (Chámbá), V, *b* 329
—— station (Gurdáspur), XI, a b 296
Dali, town. See Idalium
Dalimil, chronicler (Bohemia), III, b 748
Dalin, A. F., philologist (Scandinavian Languages), XXI, a 389
DALIN, Olof von, poet, VI, a b 687; (Bellman), III, *b* 473; (Sweden), XXII, a b 794
Dali's Book (Darfur), VI, b 725
DALKEITH, town, VI, b 687; (Edinburgh, County), VII, b 569, *a* b 571; basin (Coal), VI, *b* 51
——, countess of (Scott), XXI, b 572
Dalkey island (Dublin), VII, a 427
Dall, William Healey, naturalist (Brachiopoda), IV, b 170, b 175, a 176; (Indians), XII, b 862, b 865, a 866, *a* 867; (Surveys), XXII, b 937, b 940
Dalla Bella, Portuguese scientist (Magnetism), XV, a 238
Dallæus. See DAILLÉ, Jean.
Dallan Forgaill, chronicler (Celtic Literature), V, b 267, a 284
Dallas, city (Texas), XXIII, b 222
Dalles, The, rapids (Oregon), XVII, *b* 846; (United States), XXIII, a 851
DALLING AND BULWER, Baron, diplomatist, VI, b 687–90
Dalmady, Victor, poet (Hungary), XII, b 393
Dalmahoy castle (Edinburgh, County), VII, b 571
DALMATIA, province, VI, a 690–1; (Dandolo), b 707; (Hungary), XII, a 375; conquest of (Hungary), b 382
——, duke of. See SOULT
Dalmatian Dog (Ill.), VII, b 286
—— fisheries (Sponges), XXII, a b 445, b 446
—— poems (Gundulitsch), XI, b 246
—— Wines, XXIV, b 643
Dalmatic vestment (Costume) (Ill).), VI, a b 409, *b* 412, *a b* 413, a 416
Dalmau, town (Rai Bareli), XX, a 229
Dalmeny Park (Linlithgow), XIV, b 676
Dalmeny sprouts, vegetable (Horticulture), XII, b 291
Dalmuir, town (Dumbarton), VII, a 453
Dalriada, kingdom (Gaelic), X, a 8, a 11; (Ireland), XIII, a 256; (Scotland), XXI, b 495, *b* 496, a b 497, b 498
Dalriads of Antrim (Ireland), XIII, b 252
Dalrymple. See STAIR
——, Alexander, hydrographer (Navigation), XVII, a 269
——, Sir David. See HAILES
Dalsgaard, painter (Denmark), VII, a 82
Dalsland, geological formation (Sweden), XXII, a 778
Dalton, town (George), X, a b 392, a *b* 393, a 394
DALTON, John, physicist, VI, a 691–3; (Barometer), III, *a* 333; (Chemistry), V, b 402, *a* 403; (Evaporation), VIII, b 639, *a b* 640; (Gay-Lussac), X, b 109, a 110; (Hydromechanics), XII, b 455
——, John Call, physician (Physiology), XIX, a 47
Daltonism. See Color Blindness
Dalton's law of gases (Molecule), XVI, b 633, a 636
Daly, Robert, bishop of Kildare (Ireland), XIII, b 271
Dalyell, Sir John Graham, naturalist (Aquarium), II, b 189
Dam. See Dams
Dámád Alí, vizier (Turkey), XXIII, a 688
Damage feasant (Distress), VII, b 231
DAMAGES, VI, b 693–5; (Brehon Law), IV, *a* 227
Damages, Measure of (Sedgwick), XXI, b 915
Daman, mammal (Hyrax), XII, b 633
Dâman-i-Koh, plain (Afghânistân), I, a 205, b 206, *a* 207, a 208, a 211, a 216
Damara Land (Africa), I, b 221, a 222, a 225, a 229, a 230, 231; (Hereroland), XI b 654; (Hottentots), XII, b 323
Damaras, tribe (Totemism), XXIII, b 497, b 503
Damariscotta river (Maine), XV, a 301
Damas, cloth. See DÁMASK
—— ware. See Damascus ware
Damascene Cutlery, VI, a b 647
DAMASCENING, VI, a b 698; (India), XII, b 801; (Inlaying), XIII, a b 88; (Metal Work), XVI, b 84; (Sword), XXII, b 842
DAMASCENUS, Johannes, theologian, VI, b 695; (Dogmatic), VII, a b 294–5; (Image Worship), XII, *a* 751; (Mary), XV, a 598
DAMASCENUS, Nicolaus, historian, VI, a 696; (Morphology), XVI, a 864; (Pelops), XVIII, a 491
DAMASCIUS, philosopher, VI, a 696; (Neoplatonism), XVII, a 347
DAMASCUS, city, VI, a 696–8; (Damask), a 698; (Egypt), VII, a 655; (Glass), X, a 580; (Israel), XIII, a b 415, *b* 416, a 417; (Moab), XVI, a 557, a 558; (Mohammedanism), a 585, a 586, a b 588, b 589, b 593–4, a 599, a 608, a 612; (Paper), XVIII, a 221; (Paul), b 426; (Syria), XXII, b 860, *a b* 861, *a* b 862, note, b 863; (Trajan), XXIII, a 537
——, mosque of (Mohammedanism), XVI, b 612, a 613; (Mosque), a b 892
——, siege of, 634 (Arabia), II, b 224
—— twist (Gunmaking), XI, a b 247
——, university (Sunnites), XXII, a 695, note
——, John of. See DAMASCENUS, Johannes
—— vilayet (Lebanon), XIV, b 394
—— steel. See DAMASK STEEL
—— ware (Pottery and Porcelain) (Ill.), XIX, b 639, b 640
Damasius, archon (Thales), XXIII, b 235, note
DAMASK, cloth, VI, a 698; (Dunfermline), VII, b 468; (Linen), XIV, a b 674; (Textiles), XXIII, b 228; (Weaving), XXIV, a 491

DAMASK STEEL, VI, a 698
DAMASKEENING. See Damascening
Damastes of Sigeum, historian (Genealogy), X, b 128 note; (Troad), XXIII, a 618
DAMASUS, popes, VI, b 698–9
DAMASUS I., pope, VI, b 698; (Canon), V, *b* 12; (Catacombs), a b 180; (Hymns), XII, b 616; (Jerome), XIII, *b* 641, a 642; (Popedom), XIX, a b 505, b 523
DAMASUS II., pope, VI, a 699; (Popedom), XIX, b 512, a 524
DAMAUN, town, VI, a 699
Damaungangá, river (Damaun), VI, a 699
Damávand, mountain (Mazandarán), XV, a 658; (Persia), XVIII, b 630, a 633
D'AMBOISE, George, cardinal, VI, 699
Dambonite (India-Rubber), XVI, a 880, b 881
Damdamá, town (Dumdum), VII, a 454
Dame (Titles of Honor), XXIII, b 444, a 445
Dame Blanche (Boieldieu), III, a 750
Damerghu, district (Air), I, a 381
Dami, Giuliano, politician (Medici), XV, b 803
Damian, Peter, or Damiani, Pietro, cardinal, *b.* 1007; *d.* 1072 (Chess), V, a 521; (Mary), XV, a b 693, note
Damianus, St., physician (Surgery), XXII, a 710
Damiat, town. See DAMIETTA
DAMIENS, Robert François, VI, a b 699
DAMIETTA or Damiat, town, VI, b 699; (Africa), I, b 238, a 239; (Crusades), VI, b 554, b 556, a 557; (Egypt), VII, b 654, a b 655, a 656, a b 660, a 667; (Mohammedanism), XVI, a 608; (Templars), XXIII, b 177
DAMÎRÎ or Ad-Damiri, naturalist, VI, b 699; (Mohammedanism), XVI, a 619
DAMIRON, Jean Philibert, philosopher, VI, a b 700
DAMMAR or Dammer, resin, VI, b 700; (Varnish), XXIV, b 99
Damme, town (Sea Laws), XXI, b 611
Dammergebirge, mountains (Oldenburg), XVII, b 778
Damnii, Celtic tribe (Lanark), XIV, b 252
Damnonia, kingdom (Celtic Literature), V, a 262; (Cornwall), VI, *a* 378
Damnonii, tribe (Perth), XVIII, b 679
DAMOCLES, courtier, VI, b 700
Dámodar coal and iron (Bardwán), III, *b* 320; (India), XII, a b 775
—— river (Házaribágh), XI, *a* 489; (Hooghly, Dist.), XII, a 151
Damoiseau on lunar acceleration (Tides), XXIII, a 402
Damon, musician (Pericles), XVIII, b 539
DAMON, Pythagorean, VI, b 700
Damon and Pythias (Edwards, R.), VII, b 599
DAMOPHILA, poetess, VI, b 700
DAMOPHON, sculptor, VI, b 700
Damo-tso, lake (Tibet), XXIII, b 361
Damour, M., geologist (Jade), XIII, *a b* 550
DAMOXENUS, pugilist, VI, b 700
DAMPE, Jacob Jacobson, philosopher, VI, b 700–1
DAMPER, bread, VI, a 701; Australian (Baking), III, a 217
—— (Pianoforte), XIX, b 74, a 75, a 76, b 80, b 82, a 84
DAMPIER, William, navigator, VI, a b 701; (Australia), III, *b* 90; (Flamingo), IX, a 250; (Geography), X, a 169
Damping (Galvanometer), X, a b 46, b 48
—— Machine (Bleaching) (Ill.), III, a 710
Damp-proof course in walls (Building), IV, b 413
Dams (River Engineering), XX, b 588–90
——, Beaver, III, a 411
——, furnace (Iron), XIII, b 306
——, reservoir (Water Supply) (Ill.), XXIV, b 427–30
DAN, town, VI, b 701
——, tribe of (Israel), XIII, b 411; (Philistines), XVIII, b 769
Dana, Mount (California), IV, a 619
Dana, river (Africa), I, b 228
DANA, family, VI, b 701–2
——, Charles Anderson, editor (Encyclopædia), VIII, a 186
——, Francis, judge, VI, a 702
——, James Dwight, geologist (Atlantic Ocean), III, a 16; (Crustacea), VI, a 582 note, b 583, note; (Distribution), VII, a *b* 241, a 242; (Geology), X, a 223, b 224, a 246, b 324, b 329, a 330; (Pacific Ocean), XVIII, b 122; (Vermont), XXIV, a 181; (Wilkes), a 898
——, James Freeman, chemist (Morse), XVI, a 874
——, Richard, barrister, VI, b 701–2
DANA, Richard Henry, 1st, author, VI, a 702; (American Literature), I, b 634, b 636
——, Richard Henry, 2d, author, VI, a 702
Dana's *Geology* (Mississippi), XVI, a 546
DANAE, myth, VI, a 702; (Perseus), XVIII, a b 572
Danæa (Ferns), IX, b 92
Danæus, Lambert, theologian (Arminius), II, b 483
Danak, Persian coin and weight (Weights and Measures), XXIV, *b* 514
Danalite (Mineralogy), XVI, a 429
Danapris, river (Dnieper), VII, a 266
DANAUS, mythical king, VI, a 702; (Argos), II, b 437
Danau Sriang lake (Borneo), IV, b 50
Danburite (Mineralogy)(Ill.) XVI, a 429
DANBURY, Conn., VI, a b 702
DANBY, Francis, painter, VI, b 702–3
——, Thomas Osborne, earl of, premier (England), VIII, b 313; (Halifax, Marquis), XI, *b* 345; (Russell), XXI, a *b* 71
DANCE, amusement, VI, a 703–5
  analysis of, a 703
  ballet, a 705
  barbarian varieties, a 703–4
  educational value of, b 705
  notation, a b 705
  sacred and classical varieties, b 704

—— (Egypt), VII, a 630; (Hottentots), XII, b 324, note; (Kâfiristân), XIII, b 832; (Pueblo Indians), XX, b [illegible]89; bird (Mexico), XVI, b 221; ceremonial (Totemism), XXIII, a 500; costume (Tahiti), b 29; crane (Theseus), a 315, note; of the gods (Lhasa), XIV, b 500; Greek (Drama), VII, a b 349; (Phrynichus), XVIII, b 868; Japanese (Drama), VII, a 348. See Dancing
Dance in the Queenis Chalmer (Dunbar), VII, a 460
Dance of Death (Caricature), V, a 92; Holbein's (Engraving), VIII, b 389
DANCE, George, 1st, architect, VI, b 705–6
DANCE, George, 2d, architect, VI, a 706
DANCE, Nathaniel, painter, VI, a 706
Dancing (Æsthetics), I, a b 194; (Davies), VI, b 742; (Fine Arts), IX, *b* 176; ballet (Noverre), XVII, a b 621; Egyptian (Drama), VII, a 349; rustic (Ballads), III, a 246; Spanish (Saraband), XXI, b 318
—— girls, Hindu (Caste), V, a 167
—— mania (Tarantula), XXIII, a 66
DANCOURT, Florent Carton, dramatist, VI, a b 706
DANDELION, plant, VI, b 706; (Botany) (Plate IX), IV, a 77, *a* 78, a 85, a b 99, a b 108, *a* 111, b 113, a b 121, a 133; (Taraxacum), XXIII, b 66
Dāndīs, boatmen (Hindūstanī), XI, b 750, note
DANDOLO, house of, VI, b 706–7
——, Andrea, admiral, VI, a b 707
——, Andrea, doge, VI, b 707
——, Cane, doge, VI, b 707
——, Enrico, doge, VI, b 706–7; (Crusades), a b 555–6; (Italy), XIII, a 485
DANDOLO, Vincenzo, count, VI, b 707
Dane, river (Derby), VII, a 93
Dane, Nathan, jurist (Story), XXII, b 929; (United States), XXIII, a 795
—— viaduct (Railway), XX, b 242
Danegeld, tax (England), VIII, b 265, note; (London), XIV, b 827
Danelagh, district (Municipality), XVII, b 35, a 36
Danes, people (Alfred), I, a b 447; (Athelstan), II, b 726; (Cork), VI, b 359; (Dublin), VII, a 433; (Fife), IX, a 134; (Ireland), XIII, b 257; (Germany), X, b 433, a 434, b 435, a 437, a b 441; (Hampshire), XI, a 336; (Lincolnshire), XIV, b 662; (London), *a b* 853, note; (Northumberland), XVII, a b 584; (Saxo Grammaticus), XXI, a b 366; (Whale), XXIV, a 557. See DENMARK and Danish
——, characteristics of (Denmark), VII, b 73–4
—— in England (Edmund), VII, b 580; (Edmund II.), b 580–1; (Edward I.), a b 591; (Egbert), b 603; (England), VIII, a 256–7
Danesbury House (Wood), XXIV, b 678
Danewerk or Dannewerk, entrenchment (Denmark), VII, a b 78; (Schleswig), XXI, a 432
Danewort, dwarf tree (Elder), VII, b 719
Danforth's throstle (Cotton), VI, b 440
Dangeau, Philippe de Courcillon, marquis de, historian (Saint-Simon), XXI, *b* 209
Dangerous Archipelago (Tuamotu), XXIII, b 639 note
D'Angers, David, VI, b 741
Dangra-Yum lake (Tibet), XXIII, b 362
Danichich, Dyuro, lexicographer (Servia) XXI, a 724
DANIEL, prophet, VI, b 707; (Baruch), III, b 349; (Habakkuk), XI, a 319
——, *Apocalypse of*, II, a 158
DANIEL, BOOK OF, VI, b 707–19
  authorities, b 710
  apocalyptic section, b 709–10
  historical discrepancies, b 707–8
  internal difficulties, a 709–10
  linguistic difficulties, b 708–9

—— (Angel), II, b 26; (Antichrist), *a* 110, b 111; (Apocalyptic Literature), b 153; (Bible), III, b 553; (Isaiah), XIII, b 394; (Messiah), XVI, b 58, a b 59; (Semitic Languages), XXI, b 677
——, tomb of (Susa), XXII, a 760
—— of Galicia, prince (Russia), XXI, b 98
—— of Lodomeria, prince (Galicia), X, b 24
—— of Salah, commentator (Syriac Literature), XXII, b 883–4
—— of Tahal, bishop (Syriac Literature), XXII, a 894
——, Arnaut, troubadour (Provençal Literature), XIX, b 899, a 900
DANIEL, Gabriel, historian, VI, b 710
—— bar Khattāb, poet (Syriac Literature), XXII, a 900

Daniel bar Maryam, historian (Syriac Literature), XXII, b 886
—— bar Moses, Jacobite (Syriac Literature), XXII, a 884
—— Nevski, prince (Russia), XXI, b 99
——, Pierre, antiquary (Knighthood), XIV, b 120, note, b 121
DANIEL, Samuel, poet, VI, b 710; (Drayton), VII, a b 390; (Pastoral), XVIII, a 352; (Shakespeare), XXI, *b* 792
DANIELL, John Frederick, chemist, VI, b 711; (Electrolysis), VIII, b 100, a 101, a 102, a b 105
DANIELL, Samuel, painter, VI, a 712
DANIELL, Thomas, painter, VI, b 711-12
DANIELL, William, painter, VI, b 711, *a* 712
Daniell's battery (Electricity), VIII, b 13, b 87-8; (Electro - Metallurgy), a 108; hygrometer (Hygrometry), XII, b 604; Pyrometer, XX, b 139
Daniellsen, zoölogist (Zoology), XXIV, b 853
Danielsen, Daniel Cornelius, dermatologist (Norway), XVII, b 606
Danionina, fishes (Ichthyology), XII, a 731
Danish Army, II, a 538
—— Arsenals, II, a 555
—— claims (Hamburg), XI, *a* 365
—— coins (Numismatics), XVII, b 676
—— Colonies, VI, a 145; (America), I, b 627
—— conquest of Normandy (Normans), XVII, b 560
—— Dictionaries, VII, b 161
—— Drama, VII, b 383
—— emancipation (Slavery), XXII, a 149
—— expeditions (Polar Regions), XIX, b 329, a b 330, a 332, a b 338
—— fishery (Oyster), XVIII, b 111
—— history (Mallet), XV, b 337; (Saxo Grammaticus), XXI, a b 366
—— invasions (Alfred the Great), I, *a b* 447, a 448; (England), VIII, a 256-7; (Lincoln), XIV, b 662, (Ireland), XIII, a 225, b 257-8
—— language (Denmark), VII, b 78-9; (Scandinavian Languages), XXI, *a* 382, *b* 383, *a* 386, b 387, a 389-90
—— Learned Societies, XXII, a 236, a 237, b 238, a b 239, a b 240
—— Leather, XIV, a 389, military character (Army), II, a 538; novels (Blicker), III, a 717; oriental expedition (Niebuhr, K.), XVII, b 506; poetry (Fasting Claus), IX, a 44; printing (Typography), XXIII, b 740; settlements (India), XII, a 839; (York), XXIV, b 789
—— Universities, XXIII, b 898, b 906; vikings (Hamburg), XI, *a* 365; war, 1625-9 (Germany), X, b 448-9
Danishmand emirs (Seljuks), XXI, *a b* 668
Danites, society (Mormons), XVI, b 852
——, tribe (Israel), XIII, b 411; (Philistines), XVIII, b 769
Dankali Dictionary, VII, b 167
Dankaur, town (Bulandshahr), IV, b 461
Dankoff, town and district (Ryazañ), XXI, a b 124
Danks's rotary furnace (Iron) (Ill.), XIII, a b 331, 332
Dannebrog Cross (Ill.), VI, a 542
——, national flag (Denmark), VII, b 74
DANNECKER, Johann Heinrich von, sculptor, VI, a b 712
Dannemora iron (Iron), XIII, a 290, note, b 293, a 314, b 325, b 327
—— prison (Reformatories), XX, a b 902
Danner's revolving bookcase (Libraries), XIV, a 537
Dannewerk or Danewerk, entrenchment (Denmark), VII, a b 78; (Schleswig), XXI, a 432
Dano-English fiction (Romance), XX, a 674-5, a 678
Dano-German war, 1864 (Schleswig), XXI, *a* 432
Dano-Norwegian dialect (Scandinavian Languages) XXI, a b 390
Danorum Lex (Salic Lex), XXI, b 225
Dansa, song (Provençal Literature), XIX, b 900
Dansell, Sir William, merchant (Gresham), XI, a 167
Danse Macabre. See Dance of Death
Danstin (Alchemy), I, a 412
DANTE, Alighieri, poet, VI, b 712-8
    Beatrice, a 714
    bibliography, b 717-8
    early life, b 712-3
    estimate of, a 716
    exile, a 714-5
    political life, a 713-4, a 715
    wanderings, a b 715
    works, b 716-7
—— (Alchemy), I, a 410; (Boccaccio), III, *b* 734, b 735; (Cæsar), IV, b 567; (Celestine V.), V, b 253; (Cesena), a 310; (Church), a 663, a 664; (Cimabue), a 681; (Cino da Pistoia), *a* 687; (Constantine I.), VI, b 268; (Gherardesca), X, a 506; (Giotto), b 543-5; (Guelfs and Ghibellines), XI, b 217; (Homer), XII, a *b* 124; (Italy), XIII, b 486, b 487, b 503, a 508, b 511, a 512-14; (Mena), XVI, *a* 5; (Ozanam), XVIII, b 115, a 116; (Petrarch), b 719, b 724; (Pisa), XIX, b 129; (Provençal Language,), b 893, b 898, b 899; (Ravenna), XX, a 310; (Renaissance), *b* 396, a 397; (Scholasticism), XXI, b 447; (Thales), XXIII, b 236
——, English version of (Cary), V, a 149
—— MSS. (Libraries), XIV, a b 529, a 530
Dante's Dream (Rossetti), XX, b 881, a 882
Danthonia (Grasses), XI, a b 49, b 52
Danti, Vincenzo, sculptor (Sculpture), XXI, b 596
DANTON, George Jacques, revolutionist, VI, a 718-20; (Desmoulins), VII, a *b* 113, a 114; (France), IX, b 530, b 531, *b* 533, b 534; (Robespierre), XX, *b* 618, *a* b 619, *a b* 620
Dantonists, party (France), IX, a b 534
DANTZIC, city sketch (Map), VI, a b 720; (Numismatics), XVII, a 677
——, siege of, 1807 (Fortification), IX, a 406
—— maritime court (Sea Laws), XXI, b 611
DANUBE, river, VI, a 721-2; (Austria), III, a b 101; (Bavaria), b 389; (Black Sea), a 691, b 692; (Croatia), VI, a 523; (Dacia), a 669; (Geology), X, a 247; (Germany), b 403-4; (Gold), a 661; (Hungary), XII, *a b* 376, b 377; (Istria), XIII, b 443; (Joseph II.), b 760; (Navigation Laws), XVII, b 286; (Persia), XVIII, b 581; (Pesth), a 705, a 706; (River Engineering) (Ill.), XX, b 595-6; (Roumania), XXI, a b 19, a 27; (Vienna), XXIV, a 237, a *b* 239; (Würtemberg), b 735, a 736, *a* 737
——, navigation of (Galatz), X, *b* 20
—— valley (Germany), X, *b* 402
Danubian frontier of Roman empire (Trajan), XXIII, a b 535, a b 536
—— principalities (Turkey), XXIII, a b 691, *b* 692
Danubius Pannonico-Mysicus (Marsigli), XV, a 582
DANVERS, Mass., town, VI, a 722
——, Sir John, courtier (Chelsea), V, b 396
DANVILLE, Illinois, town, VI, a 722
DANVILLE, Penna., town, VI, a 722
——, town Virginia, XXIV, a 279
D'ANVILLE, Jean Baptiste Bourguignon, geographer, VI, a 722-3
Danz or ballads (Iceland), XII, a 658
Danz, ——, jurist (Roman Law), XX, b 706, note, a 720 note
Danzig, city. See DANTZIC
Danzig-spruce, beverage (Fir), IX, b 194
Dapedius, fish (Ichthyology) (Ill.), XII, a 676
Daphnaida, poem (Spenser), XXII, a 410
DAPHNE, goddess, VI, a 723; (Mythology), XVII, *a* 146
—— grove of (Antioch), II, a b 115, a *b* 116
—— laureola, tree (Botany) (Ill.), IV, b 90, b 133; (Laurel), XIV, *b* 349, a 350
DAPHNEPHORIA, festival, VI, a 723; (Apollo), II, a 163
Daphnia, genus (Crustacea), VI, b 568, a 569, a 573, a 575, b 587
Daphnis and Chloe, romance (Longus), XIV, *b* 878; (Romance), XX, b 651
Daphnus, port (Phocis), XVIII, a 814
Daping or dibbing (Angling), II, b 33
Da Ponte, Lorenzo, Abbé, librettist, *b.* 1749; *d.* 1838 (Mozart), XVII, *a* 17
Dapsang mountains (Hindú Kúsh), XI, a 748; (Turkestan), XXIII, *b* 678
Dara, city (Persia), XVIII, b 622, b 623, a 624, a 625
Dārā Eke, divinities (Lamaism), XIV, b 229
Dara Sháh (Aurungzebe), III, b 86-7
Dara Shikó, emperor (Punjab), XX, *a* 117
DARABJIRD or Darab-gherd city, VI, a 723
Daradas, race (China), V, b 544
Daræ, fortress (Mesopotamia), XVI, a 53
Darah Nûr, country (Kâfiristân), XIII, a 830, a 831, b 832
D'Aranda, Count. See ARANDA
D'Aranthon, bishop. See Aranthon
Darasun, spa (Transbaikalia), XXIII, b 542
Darazi, Ismael, fanatic (Druses), VII, b 417, *a* 418, a 419
Dar Banda, tribes (Negro), XVII, a 328
Darbhangah, district (Tirhut), XXIII, b 434; town (Tirhut), b 434
D'ARBLAY, Frances Burney, Madame, novelist, VI, a 723-4; (Burney), IV, a 504
DARBOY, Georges, archbishop, VI, a b 724
Darby, Abraham, manufacturer (Bridges), IV, a 300
——, John Nelson, theologian, *b.* 1800; *d.* 1882 (Plymouth Brethren), XIX, *a* b 250, a 251
——, William, geographer (St. Lawrence), XXI, a 191
D'Arc, Jeanne. See JOAN OF ARC
Darcet's metal (Cadmium), IV, b 558
Darchiendo, town (Tibet), XXIII, *a* b 363, *a* 364, a 365; plateau (Tibet), b 362
Darcy, engineer (Hydromechanics), XII, b 454, a 506, a b 509-10, b 518-9, b 530-1, a 536-7
DARDANELLES, strait, VI, b 724; (Black Sea), III, a 692, b 693; (Gallipoli), X, *a* 39; (Hellespont), XI, b 568
——, battle of, 1654 (Adelaar), I, a 138
——, control of (Turkey), XXIII, b 691, a 692
—— lazaretto (Quarantine), XX, b 160

Dardania, district (Dacia), VI, a 669
—— town (Troad), XXIII, a 616, a 620
Dardanos, god (Cabiri), IV, *b* 551
DARDANUS, hero, VI, b 724
Dardic Dictionary, VII, b 165-6
Dards, people (Gilgit), X, *b* 533-4; (Ladác), XIV, *a* b 199; (Taboo), XXIII, *a* 23
Dare, fish. See DACE
Darent or Dart, river (Kent), XIV, a 39
DARES, priest, VI, b 724
Dares Phrygius, pseudonym, VI, b 724; (Italy), XIII, a 509; (Romance), XX, *b* 653, a *b* 654
Dar-es-Salaam, town (Zanzibar), XXIV, a 806
Darfeld monastery (Trappists), XXIII, a 558
DARFUR or Darfor, district, VI, b 724-5; (Africa), I, a 243; (Soudan), XXII, *a b* 291, *a* 292, *a* 293
Darga, tomb (Ajmir), I, b 484
Dar-ge or De-gue district (Tibet), XXIII, b 363, a 365
Dariáganj, town (Delhi), VII, *a* 42
Daric, coin (Numismatics), XVII, *b* 677
Dariel pass (Caucasus), V, *a* b 220, a 222
DARIEN, isthmus and district, VI, b 725-6; town (Balboa), III, b 236
—— canal (Canal), IV, a b 700
—— colony (Paterson), XVIII, a b 364, a b 365, notes; (Scotland), XXI, *b* 540
——, gulf of (Colombia), VI, a 137, b 138
——, town (Georgia), X, a 391, a *b* 392, b 393, a 394
Darien or the Merchant Prince (Warburton), XXIV, b 388
Darinel, shepherd (Romance), XX, a 672
Daringambadi, town (Salem), XXI, b 220
DARIUS I., Hystaspis, king of Persia, VI, a 726-7; (Ahasuerus), I, a 374; (Daniel), VI, a b 708; (Egypt), VII, b 644; (Greece), XI, *a* 89; (Haggai), b 330; (Miletus), XVI, a 307; (Persia), XVIII, b 576, a 580-3; (Scythia), XXI, *b* 604
——, tomb of (Persepolis), XVIII, a 570
DARIUS II., Nothus, VI, a b 727; (Haggai), XI, b 330, a 331 note; (Persia), XVIII, a 587-8
DARIUS III., Codomannus, Persia, VI, b 727; (Alexander the Great), I, a 426-7; (Gold and Silver Lace), X, a 671; (Macedonian Empire), XV, b 140, *b* 141; (Persia), XVIII, b 592, a b 593, a b 627
Darius at the Feet of Alexander, painting (Veronese), XXIV, b 188
Darius of *Ezra* (Artaxerxes), II, a 561; (Ahasuerus), I, a 374
——, philosopher (Apollonius), II, *b* 165
DÁRJILING, district, VI, b 727-8; town, b 728; (Tibet), XXIII, a 364
—— cinchona (India), XII, b 789
Dark Ages (Glass), X, a 582; (Isidorus Hispalensis), XIII, a 397; (Renaissance), XX, a 394-5
—— heat (Melloni), XV, b 849
"Darkness" (Manichæism), XV, b 490, b 492
"Darley Arabian," progenitor of race-horses (Horse), XII, a *b* 186, a b 187
Darley, Felix O. C., engraver, *b.* 1822; *d.* 1888 (Sigourney), XXII, b 905
Darling Downs district (Queensland), XX, a 178, b 179, a b 181, a 182
—— harbor (Sydney), XXII, *a* 846
—— river (Australia), III, b 91, b 93; (New South Wales), XVII, b 418, a 419
DARLINGTON, town, VI, b 728-9
—— drill (Ill.) (Mining), XVI, b 466, b 467
Darlingtonia (Insectivorous Plants) (Ill.), XIII, *b* 140, a 145
Darlugdach of Kildare, abbess (Scotland), XXI, a 497
Darmait, Mac Mael na m Bo, king (Ireland), XIII, a b 260
Darmesteter, orientalist (Zend-Avesta), XXIV, *b* 816: (Zoroaster), *b* 859
DARMSTADT, city (Map), VI, a b 729; (Goethe), X, b 645, a 648; (Libraries), XIV, b 526, a 548
D'Arnaud, Baculard, poet (Voltaire), XXIV, a b 309
DARNÉTAL, town, VI, b 729; (Seine Inférieure), XXI, a 657
Darning-needles, insects (Dragon-Fly), VII, b 333
Darnley, Henry Stuart, lord (Bothwell, Earl), IV, a 150; (Knox), XIV, a 134; (Mary Stuart), XV, *a b* 602, *a* 603; (Scotland), XXI, a b 526, a 529; murder of (Balfour), III, b 241, a 242
—— jewel (Jewellery) (Plate XII), XIII, a 688
Darode race (Somali), XXII, a 269
D'Arrest, Heinrich Ludwig, astronomer, *b.* 1822; *d.* 1875 (Comet), VI, a b 172
Dar Saley (Africa), I, a 213
Darsanas (Sanskrit), XXI, b 303
Darstellung meines Systems (Schelling), XXI, a 407, a 410
Darstellung des theologischen Studiums (Schleiermacher), XXI, b 428
Dart, fish. See DACE
Dart, weapon (Arms and Armor), II, b 486
—— river (Devonshire), VII, *b* 120
Darter, bird (Snake-bird), XXII, a 198; (Birds), III, b 652
DARTFORD, town, VI, b 729-30
—— Warbler, bird (Whitethroat), XXIV, b 584
Dartmoor, district (Devonshire), VII, b 120, *b* 121, *a* b 122, b 123; forest (England), VIII, a 196; prison (Prison Discipline), XIX, b 771
DARTMOUTH, town, VI, a 730
Dartmouth College, Hanover, N. H. (Libraries), XIV, a 553; (New Hampshire), XVII, b 402; (Observatory), a 736; (Webster), XXIV, a *b* 498; (Wentworth), b 890, a b 891; (Wheelock), *a* 893
—— —— case (United States), XXIII, a 834
Dart-sac of helix (Mollusca), XVI, a 686
DARU, Pierre Antoine, comte de, statesman, VI, a b 730
Darvel Bay (Sabah), XXI, *a* 132
Darwàz, state (Oxus), XVIII, b 105, b 107-8
Darwin, Mount (Andes), II, b 16; (Tierra del Fuego), XXIII, a 410
—— sound (Tierra del Fuego), XXIII, a 410
——, Charles Robert, naturalist and biologist, *b.* 1809; *d.* 1882 (Acclimatization), I, b 80, *b* 81, *a b* 82, *a b* 83; (Albino), a 403; (Animal Kingdom), II, *a* 45; (Anthropology), a 98, a *b* 101; (Argentine Republic), a 430; (Biology), III, b 596-7; (Birds), a 648; (Botany), IV, b 71, *a* 73; (Breeds), a 219 note, a 220, a b 223; (Cattle), V, b 213, *a* b 214; (Corals), VI, b 335; (Crustacea), b 558, a 563, note, a 565, note, a b 567, a b 577, notes, *a b* 589; (Deer), VII, *b* 22, a b 23; (Distribution), a b 232, b 242, *a* 243, *b* 244, a 248, a 250, note, b 252; (Dog), b 281, a 282, b 283; (Dove), b 328, a 329
—— (Embryology), VIII, a 151, b 155; (Evolution), a 656, b 668-9; (Fitzroy), IX, b 237; (Geology), X, a b 229; (Holland, Sir H.), XII, a 102; (Hollyhock), a 106; (Honey), b 139; (Horse), b 178, note; (Horticulture), b 219, *b* 220, a 221; (Hybridism), b 437, a b 439, a 440, *a* b 441, note, a 442; (Insectivorous Plants), XIII, a 140, *b* 141, *a* 142, *a* 144, a b 146, b 147; (Instinct), b 164, *b* 165-6; (Keeling Islands), XIV, *b* 28, a 29; (Lamarck), *a* 233; (Malthus), XV, b 347; (Miller, Hugh), XVI, b 332; (Mimicry), a 357; (Morphology), b 866, a 868
—— (Ornithology), XVIII, b 36, a 40 note; (Pacific Ocean), b 132, a b 133; (Pansy), a 218; (Peach), b 453; (Peacock), b 454; (Physiognomy), XIX, a b 9; (Physiology), b 65, b 66, a b 67, a b 68, b 71; (Political Economy), b 386; (Poultry), b 664; (Primrose), b 756, *a* 757; (Psychology), XX, a 77, note; (Rabbit), *b* 199, a 200; (Rhea), a 520; (Ruff), XXI, a 60 note; (Sex), b 758; (Tapaculo), XXIII, a 54 note; (Tierra del Fuego), a 410, *a* 411; (Tinamou), a b 430; (Vampire), XXIV, *a* 59; (Variation and Selection), *b* 84, a 85, b 86, *a b* 87, *a* 88, a 89, a b 90, a 91; (Vertebrata), a 193, a 195; (War), a 374; (Zoology), b 840-2, a 847, b 855-9
DARWIN, Erasmus, physician and naturalist, VI, b 730-1; (Brown, Thomas), IV, b 348; (Edgeworth), VII, *a* 569; (Evolution), VIII, b 655; (Medicine), XV, b 825; (Morphology), XVI, a 868; (Treviranus), XXIII, b 588; (Upas), a 916; (Variation and Selection), XXIV, b 83, b 84; (Zoology), b 840
——, Francis, naturalist (Insectivorous Plants), XIII, a 146, a b 147. See List of Contributors
——, George Howard, astronomer (Geology), X, *b* 193, a 194, b 201, a 280; (Seismometer), XXI, b 661; (Tides), XXIII, b 380, a b 399, notes, a 402 notes, a 403 note, a 404; (Telescopic Work), a 936. See List of Contributors
Darwinella, genus (Sponges), XXII, a 434, a 438, b 439, a 443
Darwinellidæ, family (Sponges), XXII, b 439
Darwinian curvature (Physiology), XIX, a b 68
Darwinism (Anthropology), II, a 98, a *b* 101; (Evolution), VIII, a 656, b 668-9; (Metaphysic), XVI, b 97; (Monboddo), b 745; (Theology), XXIII, b 285; (Zoology), XXIV, b 840-2, a 856-9; influence of (Socialism), XXII, a b 230
Darwinite (Mineralogy), XVI, b 409
Dasa race (Soudan), XXII, b 291 note, *a* 292; (Tibbus), XXIII, *a b* 355
Das'arā festival (Brahmanism), IV, a 188
Dāsas or Dās'yus, race (Brahmanism), IV, b 183; (India), XII, b 815, a 821
Dase, Zacharias, mathematician (Tables), XXIII, *b* 11, a 17; (Trigonometry), b 607
Dasent, Sir George Webbe, author (Moe), XVI, a 566
Dash wheel (Bleaching) (Ill.), III, *a* 706; (Leather) (Ill.), XIV, a b 384
DASHKOFF, Catherina, princess Woronzoff, VI, a b 731; (Russia), XXI, b 107
Dashour pyramid (Architecture) (Ill.), II, a b 338; (Egypt), VII, b 670-1; (Pyramid), XX, *a* b 130. See Dahshur
Dash-pot, brake (Steam-Engine), XXII, b 530
Dasht-i-Na-Umaid, district (Persia), XVIII, b 629
DASS, Petter or Peder, poet, VI, b 731; (Engelbrechtsdatter), VIII, b 194; (Norway), XVII, a 604
Dasserah, festival (Mahrattas), XV, b 292
Dasypædes, division of birds (Ornithology), XVIII, b 41, a b 42

Dasypeltis, genus of snakes (Reptiles), XX, b 461; (Snakes) (Ill.), XXII, a b 205
Dasypodidæ, family of edentates (Mammalia), XV, a b 387, b 389-91
Dasyprocta, genus (Agouti), I, a 255; (Mammalia), XV, b 421
Dasyproctidæ, family of rodents (Agouti), I, 255; (Mammalia), XV, a 421, a 426
Dasypus, genus of edentates (Mammalia), XV, a 390
Dasyuridæ, family of marsupials (Mammalia), XV, b 382-3
Dasyurus, genus of marsupials (Mammalia) (Ill.), XV, a b 381
Dasy-us, race (India), XII, b 815–6. See Dāsas
Data of Euclid, VIII, b 576-7
Datames, satrap (Persia), XVIII, b 590
DATE PALM, VI, b 731-2; (Africa), I, a b 231; (Alpini), a 544; (Arabia), II, b 206–7, b 212-3; (Botany), IV, b 93, a 135, b 137, a 141, a 142; (Egypt), VII, b 615, a 616; (Elche), b 718; (Forests), IX, a 359; (Horticulture), XII, b 276; (Palm), XVIII, b 194, a b 195
——, fertilization of (Botany), IV, a 72
Date-plum (Arboriculture), II, a 281
Date sugar (Date Palm), VI, a 732
Dates, fruit (Fezzan), IX, a *b* 113; (India), XII, b 786
Dates of principal events (Chronology), V, 625–60
Dâthâvansa, history of Buddha's tooth (Pâli), XVIII, a 189
Datheen, Petrus, author (Holland), XII, *b* 95
Datholite (Mineralogy)(Ill.), XVI, a 367, a 386, b 426
Dati, Leonardo, ecclesiastic (Map), XV, a 525
Datius, archbishop (Milan), XVI, b 304
Dative case (Grammar), XI, *b* 36
Datum levels (Tides), XXIII, b 393-4
Datura stramonium, plant (Botany), IV, a 119, b 130, a 136
Daturia, alkaloid (Narcotics), XVII, 238
DAUBENTON, Louis-Jean-Marie, naturalist, VI, a b 732; (Buffon), IV, a *b* 398; (Encyclopædia), VIII, a–b 181; (Geoffroy, Saint-Hilaire), X, *b* 155, a 156; (Ornithology), XVIII, a 10, a 11
DAUBENY, Charles Giles Bridle, scientist, VI, b 732; (Geology), X, b 223
D'AUBIGNÉ, Jean Henrï Merle, historian, VI. b 732–3
D'AUBIGNE, Theodore Agrippa, historian, VI, b 733
Daubrée, Gabriel Auguste, geologist (Geology), X, b 230, a b 231, a b 233, *a* 234, b 236, b 244, a 263 note; (Vitrified Forts), XXIV, a 284
D'AUBUSSON, Pierre, grandmaster, VI, b 733-4; (St. John of Jerusalem), XXI, b 183
Daud, pasha (Druses), VII, a 420
Daudet, Alphonse, novelist (France), IX, a 597
Daudin, François Marie, naturalist (Ornithology), XVIII, b 11 note; (Reptiles), XX, b 447
Daughter-cell (Histology), XII, a *b* 15
Dauglish's aërating apparatus (Baking) (Ill.), III, a b 220
Daulat Khán, town (Bákarganj), III, a 214
—— Ráo Sindhia, chief (Gwalior), XI, b 308
Daule, river (Ecuador), VII, *b* 560
Daumart, Marie Marguerite, mother of Voltaire, XXIV, b 305
Daumat, Jean, jurist (Domat), VII, b 300
Daumer, George F., poet (Hauser), XI, *a* 467
Daumier, Honoré, satirist (Caricature), V, *a* 93
DAUN, Leopold Josef Maria, Count von, marshal, VI, a b 734; (Austria), III, b 111, *a b* 112
Daunians, tribe (Italy), XIII, a 453, a 455
Dauphin, title (Dauphiné), VI, b 734; (France), IX, a 482; (Prince), XIX, b 757
DAUPHINÉ, district, VI, b 734; (Isère), XIII, b 395
—— Alps, I, b 548–9
Daura dialect (Houssa), XII, a 332
DAURAT, Jean, poet, VI, b 734–5; (Acclamation), I, a 80; (Scaliger), XXI, b 378
DAUREÈ, town, VI, a 735
Daurel and Beton (Provençal Literature), XIX, *a* 901
Dauria Steppes (Transbaikalia), XXIII, a 542
DAUSS, island, VI, a 735
DAUW or Burchell's Zebra, VI, a 735; (Horse), XII, a b 179
Davaine, physician (Schizomycetes), XXI, a b 417, note
Davallia canariensis (Ferns), IX, b 89
DAVANZATI BOSTICHI, Bernardo, merchant, IV, a 735; (Political Economy), XIX, a 369
Dávarsolabetta mount (Nilgiri Hills), XVII, a 522
Davenant, Charles, publicist (Political Economy), XIX, a 370
——, Edward, mathematician (Fuller), IX, b 714
——, John, bishop (Fuller, T.), IX, a b 714; (Predestination), XIX, a 688 note, b 689
DAVENANT, Sir William, dramatist, VI, a 735-6; (Drama), VII, a b 375; (Dryden), a b 423
DAVENPORT, Iowa, city, VI, a 736
——, Christopher or Francis a Sancta Clara (Taylor), XXIII, a 100
——, Horace, swimmer (Swimming), XXII, a 810
——, John, founder of New Haven, XVII, b 404
Daventry, borough (Northampton), XVII, a 569, *a* b 570
—— Academy (Priestley), XIX, *a* 750
Davey's differential valvegear (Steam-Engine) (Ill.), XXII, b 533; safety-motor (Steam-Engine) (Ill.), a 542
DAVID, king, Israel, VI, a 736–40
character of, a b 740
documents, b 736-7
foreign wars, a 739
internal policy of, b 738–9
literature, b 740
miscellaneous events, b 739–40
rise of the monarchy, a 736
Saul's reign, a 737–8
—— (Abner), I, b 52; (Ahithophel), b 374; (Ark of the Covenant), II, a 473; (Chandler), V, b 339; (Genealogy), X, a b 128; (Georgia), a 389; (Israel), XIII, b 413, a b 414–5, *b* 422; (Moab), XVI, a 558; (Philistines), XVIII, b 769; (Psalms), XX, *a b* 34, *a* 37; (Samuel), XXI, a 265-6
——, City of. See Jerusalem
——, house of (Messiah), XVI, a 59
——, *Psalms of*. See PSALMS
David, statue (Michel Angelo), XVI, b 238, b 239; (Sculpture) (Ill.), XXI, b 595, b 596
DAVID, St., VI, b 740–1
—— I., Scotland (Edinburgh), VII, a b 572, a 575; (Gaelic), X, b 11; (Glasgow), a 569; (Huntingdon), XII, a 414; (Lothian), XV, *b* 12; (Scotland), XXI, a b 503, a b 504–5, b 558; (York), XXIV, b 786
—— II., Scotland (England), VIII, b 286; (Robert), XX, *a* 611; (Scotland), XXI, *a* 511-2
—— III., king (Georgia), X, b 388
—— VIII., emperor (Trebizond), XXIII, a 567
——, Jewish pretender, 16th century (Ramusio), XX, b 281-2, note
——, Welsh prince (England), VIII, b 280; (Shrewsbury), XXI, a 885
——, Armand, missionary and naturalist (Ape), II, a b 133, a 138, a *b* 146, b 147
—— bar Paul, poet (Syriac Literature), XXII, a 897
—— ben Zakkai, prince (Saadia), XXI, b 129
—— of Bĕth Rabban, bishop (Syriac Literature), XXII, a 887
—— of Dinant, monk (Davidists), VI, a b 742; (Scholasticism), XXI, b 444
DAVID, Felicien César, composer, VI, a 741
——, Francis, theologian (Socinus), XXII, *b* 242, b 243; (Unitarianism), XXIII, *a* 773
——, Gheerhardt, painter (Schools of Painting), XXI, b 458, b 463, b 465
DAVID HA-COHEN, rabbi, VI, a 742
DAVID, Jacques Louis, painter, VI, a b 741; (Gérard), X, *a* 396; (Girodet de Roussy), *a* 556; (Schools of Painting), XXI, a 464; (Trumbull), XXIII, b 945
DAVID, Jean Pierre, sculptor, VI, b 741-2; (Aix, City), I, b 382; (Sculpture), XXI, b 590
David Copperfield (Dickens), VII, b 150, a b 153
Davidic poems (Bible), III, a 552; psalter (Psalms), XX, *a* 37-9
DAVIDISTS, sects, VI, a b 742
Davidsbund, pseudonym (Schumann), XXI, b 480
Davids, Thomas Williams Rhys, orientalist (Tibet), XXIII, b 367 note. See List of Contributors
Davidson, George, mathematician (Surveys), XXII, *a* 939, a *b* 940
——, Robert, engineer (Traction), XXIII, a 526
——, Samuel, Biblical critic (Ephesians, Epistle to the), VIII, b 409, a 410; (Esther), a 495. See List of Contributors
——, Thomas, naturalist (Brachiopoda), IV, a 172, *a* 173, a 176. See List of Contributors
——, Thomas, philosopher (Parmenides), XVIII, b 322. See List of Contributors
Davidsonia, genus (Brachiopoda), IV, *b* 171, a 177
Davidsonite (Mineralogy), XVI, b 436
Davies, Edward, archæologist (Celtic Literature), V, *b* 276, a 285
——, Griffith (Annuities), II, a *b* 73; his mortality table (Insurance), XIII, a 176
DAVIES, Sir John, statesman and poet, VI, b 742–3; (Acrostic), I, a 113; (Ireland), XIII, a 239, b 248, b 271-2
DAVIES, John of Hereford, author, VI, a 743
——, Samuel, minister (Washington), XXIV, a 409 note
—— on secondary causes (Gibbon), X, a 517, note
Davie's machine (Ballot), III, a 252
Davila, Gil Gonzalez, explorer (Nicaragua), XVII, b 492
DAVILA, Henrico Caterino, historian, VI, a b 743
——, Pedrarias, patron (De Soto), VII, a 114
DAVIN, Felix, novelist, VI, b 743
Da Vinci, Leonardo. See LEONARDO DA VINCI.
Davine, mineral (Mineralogy), XVI, a 430
DAVINI, Giovanni Battista, physician, VI, b 743
Davis Strait (Baffin's Bay), III, a 198; (Greenland), XI, b 148, b 150; fishing (Whale), XXIV, a *b* 556
Davis, Charles H., admiral (Surveys), XXII, a 939
——, Edward, pirate (Buccaneers), IV, b 368, a 369

Davis, Jefferson, Confederate president (Greeley), XI, b 144; (Hood), XXIII, b 838; (Pierce), XIX, b 90; (Protection), a 940; (Sumner), XXII, a 935; (United States), XXIII, b 818, b 821, b 823, a 825, a 827, a *b* 828, *a* 829, a 837
DAVIS, John, navigator, VI, b 743; (Geography), X, b 164, a 165, *a* 166, *b* 167; (Navigation), XVII, b 260–1; (Polar Regions), XIX, a 329
Davis, John Chandler Bancroft, diplomatist (Treaties), XXIII, a 565
Davis, Sir John F., orientalist (China), V, b 573, a b 579, b 583
Davis and Gartner, manufacturers (Steam-Engine), XXII, a 923
Davos, district (Grisons), XI, b 182
Davoust, Louis Nicholas, marshal (Hamburg), XI, *a* 365
Davy, Edward, inventor (Telegraph), XXIII, b 128
DAVY, Sir Humphrey, chemist, VI, b 743–5; (Alchemy), I, b 413; (Anæsthesia), b 692; (Beddoes), III, b 414; (Chemistry), V, *a* b 402, a 404, a 425; (Chlorine), a 589; (Dalton), VI, a b 693; (Electricity), VIII, a b 9, *b* 10, a 11, b 12, a 13, a 53, b 55; (Electrolysis), b 100, b 105, a 108; (Encyclopædia), a b 183; (Energy, a 189; (Faraday), IX, a b 27; (Flame), *a* b 247, a *b* 248; (Gay-Lussac), X, a *b* 110, a 111; Heat, XI, a 496, a b 497; (Liebig), XIV, b 569; (Lighting), a 639; (Photography), XVIII, b 834; (Potassium), XIX, a 607; (Sodium), XXII, b 253; (Thompson), XXIII, a 331
——, John, chemist (Murray, J.), XVII, a 69
—— medal (Royal Society), XXI, *a* 45
—— safety lamp (Coal), VI, a b 68
Davydd ab Gwilym, poet (Celtic Literature), V, *a* 278
Daw, bird (Crow), VI, *b* 545; (Jackdaw), XIII, b 542–3
Dawes, William Rutter, astronomer (Observatory), XVII, b 731; (Wave Theory), XXIV, a 456; on Saturn's rings (Astronomy), II, b 710
Dawes's Micrometer, XVI, b 254, a b 261 note, a 262
Dawkins, William Boyd, anthropologist (Iberians), XII, b 640, note
DAWLISH, town, VI, b 745
Dawn (Mythology), XVII, b 154, a 155; (Twilight), XXIII, b 716
Dawson, Sir John William, geologist (Foraminifera), IX, b 337, a 339 note; (Geology), X, *b* 290, b 306, b 328, a 330; (Quebec), XX, a 172
——, William (Agriculture), I, a 270, a b 312
Dawsons' etching process (Typography), XXIII, a b 750
DAX, town, VI, b 745–6
Day (Calendar), IV, b 589, a 590; civil (Egypt), VII, b 631; length of (Geography) (Ill.), X, *a* b 178; sidereal (Astronomy), II, a 669; Solar, b 674–5; universal (Time), XXIII, a 421. See Days
—— of broken sticks (France), IX, b 516
—— of the fosse, massacre (Spain), XXII, b 325
—— of the Lord (Paul), XVIII, b 437
——, sacrificial (Passover), XVIII, a 349 note
——, Francis, ichthyologist (Pisciculture), XIX, a 136–8; (Salmonidæ, XXI, b 232, a b 233, a 237, a 238
DAY, John, dramatist, VI, a b 746
——, John, printer (Foxe), IX, *b* 443
——, Thomas, author (Edgeworth), VII, a 567, b 568, a 569
Dâyabhâga (Sanskrit), XXI, b 302, note
Dayag or Chraya, province (Tibet), XXIII, b 364
Dayak, Great and Little, rivers (Borneo), IV, b 50
Day-book (Book-keeping), IV, b 40, *a* 42
Dayka, Gabriel, poet (Hungary), XII, a b 392
Daylight Auroras, III, b 79
"Days of April," II, a 187
—— of Grace (Insurance), XIII, a 172, a 186
DAYTON, Ohio, town, VI, b 746
—— stone (Ohio), XVII, b 755
Dayul, plateau (Tibet), XXIII, b 362
Dazio consumo, tax (Italy), XIII, b 474, a 475
Dbesk, city (Vitebsk), XXIV, a 282
DEACON, church officer, VII, a 3; (Christianity), V, b 607, a 608; (Costume), VI, b 408; (Episcopacy), VIII, b 430; (Presbyter), XIX, b 694, a 695. See Deacons
Deaconess (Deacon), VII, a 3; (Monachism), XVI, b 741, a b 743
Deacons, Calvinistic (Presbyterianism), XIX, b 696; French (Presbyterianism), a 713
Deacon's process, Henry (Chemistry), V, a 425; (Chlorine), *b* 590
Dead, baptism of the (Baptism), III, b 303; ceremonies over (Festivals), IX, a 100; disposal of (Hygiene), XII, b 603; land of (Pluto), XIX, a 247, note; myth of (Scotland), XXI, a 495; places of (Celtic Literature), V, a *b* 282–3; resurrection of (Eschatology), VIII, a 474, a 475. See BURIAL, FUNERAL RITES, Resurrection
Dead-beat escapements (Clocks) (Ill.), VI, a 18–9, b 30; (Watch), XXIV, *a* 418; galvanometer, Thomson's, X, b 46, a 47, b 48
Dead-centre lathe (Ill.), XIV, b 323–4
Dead Christ, painting (Mantegna), XV, a 510
Dead-eyes, turning in (Seamanship) (Ill.), XXI, *a* b 619
Dea Dia, festival (Arval Brothers), II, a 587
Dead-letter office (Post-Office), XIX, a 582, a 596
Dead-lock, legislative (Victoria), XXIV, a 236, note
Dead March in Saul (Handel), XI, b 389
Dead melting (Iron), XIII, a 351, a b 366
Dead-nettle or Lamium (Botany) (Ill.), IV, b 111, b 112, a b 113, b 120; (Morphology), XVI, b 872; white (Botany), IV, b 112
Dead-point (Mechanics), XV, a 770, a 771
—— prints, paper for (Photography), XVIII, a 843
—— reckoning (Navigation), XVII, a 271
DEAD SEA, VII, a 3–5; (Asphalt), II, a b 625; (Lake), XIV, a b 218, b 222, a b 223; (Palestine), XVIII, b 177, a 178
Dead Souls, novel (Gogol), X, *b* 657; (Russia), XXI, b 115–6
De Ædificiis (Procopius), XIX, *a* 811, a 812
DEAF AND DUMB (Ill.), VII, a 5–13
    alphabets, sign, a b 9
    articulation, b 9–10
    causes of, b 5–7
    characteristics of, general, a b 5
    congenital mutism, a 6–7
    institutions, b 11–2
        American, a 12
    instruction, history of, a 7–8
        methods of, a 8–9
    occupations, a 11
    school attendance, b 10–11
    sign language, a 8–9
    statistics, b 12–13
—— (Amman), I, a 648; (Assarotti), II, b 631; (Cretinism), VI, a 507; (Dalgarno), a 684; (Epée, Abbé de l'), VIII, a b 406; (Italy), XIII, a 472; (Scotland), XXI, a 553; institutions for, VII, b 11–2; (Connecticut), VI, b 256–7; (Paris), XVIII, a 288
Deafness (Ear), VII, b 511, a 514
DEAK, Franz, statesman, VII, a 13–14; (Hungary), XII, b 388, a b 389
DEAL, borough, VII, a 14
——, giving cards (Whist), XXIV, a 577
Deal, wood (Fir), IX, *a* 194
De Alexandro (Philo), XVIII, b 777
Deal-fish (Ribbon-fish), XX, b 546
De Algebra Tractatus (Wallis), XXIV, b 352–3
DEAN, official, VII, a 14–5; (Cathedral) V, b 198, a 199; (Convocation), VI, b 292, a 293; (Universities), XXIII, a 891
—— of the Arches (Archbishop), II, b 324; (Arches Court), *b* 331
——, forest of (Coal-fields) (Plate II), VI, b 47, a 48, a 73; (Forests), IX, a 351
——, Henry, archbishop (Wolsey), XXIV, a 668
Dean of Lismore's Book (Celtic Literature), V, a b 272; (Gaelic), X, b 12; (Lismore), XIV, b 700
Dean Prior, village (Herrick), XI, *b* 682
Deane, Sir Anthony, shipbuilder (Navy), XVII, a 291; (Pepys), XVIII, a b 531
——, Charles, antiquary (Smith), XXII, b 185, b 186
De Anima (Metaphysic), XVI, a 96, a 101
De Animæ Immortalitate (Browne, Isaac H.), IV, a 350
De animi tranquilitate (Scotland), XXI, a 567
Dean's island (Tuamotu), XXIII, a 640
Dearborn, Henry, general (Toronto), XXIII, b 477
—— observatory, Chicago (Observatories), XVII, b 735
De Architectura (Vitrurius), XXIV, b 284, a 285–6
Dearg, Lough (Ireland), XIII, b 222
Deas, James, engineer (Dredging), VII, b 402–3, a 404; (Glasgow), X, b 570
Dease, explorer (Polar Regions), XIX, a 332
Death (Heart), XI, b 493; (Mythology), XVII, b 164; (Nutrition), *a* 706; (Protozoa), XIX, b 859
——, causes of (Medical (Jurisprudence), XV, b 790–3; (Suicide), XXII, a 665; (Typhoid Fever), XXIII, a 722; effect of (Partnership), XVIII, a b 337; fettering of (Sisyphus), XXII, *a* 110; local (Surgery), a 717–8; savage notion of (Apparition), II, a b 177, b 178; spectres coincident with (Apparition), b 180–1. See Mortality
Death and sin (Paul), XVIII, b 434
Death-bed rites (Mandæans), XV, b 477
Death, Dance of (Caricature), V, a 92; Holbein's (Engraving), VIII, b 389
—— duties (Taxation), XXIII, b 94
—— of Christ (Paul), XVIII, b 435
—— *of Jesus* (Grawn), XI, a 58
Death of the Virgin, painting, majolica (Pottery and Porcelain), XIX, b 646–7
Death of totems (Totemism), XXIII, a 498
Death of Virginia (Doyen), VII, a 333
Death - penalty (Theft), XXIII, b 250, a b 251, a 253. See Capital Punishment
Death-rate (Population), XIX, b 531–2; (Registration), XX, b 356. See Mortality
Death the Avenger (Rethel), XX, a 502; *the Friend* (Rethel), a 502
Death's-head moth (Butterflies), IV, b 530

Death Valley (California), IV, b 618, a 619; (United States), XXIII, a 848
De Auctoritate S. Scripturæ (Socinus), XXII, a 242, a 243
De Augmentis Scientiarum (Bacon), III, a 181, a b 182, a 184
Deauville, town (Trouville), XXIII, b 626
Debain, Alexandre, inventor (Harmonium), XI, b 432
Deba-jung, country (Tibet), XXIII, a 359 note
DeBary, naturalist (Protozoa), XIX, a b 863
Debasement of Money. See BANKING, Coinage, Currency, MONEY
Debash (Honey), XII, b 141
Debate, rules of (Parliament), XVIII, b 317
Débauche, La, song (Saint-Amant), XXI, b 165
Deben river (Suffolk), XXII, a 654
DEBENTURE, deed, VII, a b 15
Debesas, low-lands (Utrera), XXIV, b 27
Deborah, prophetess (Israel), XIII, b 411; (Judges), *b* 773, *a* b 774; (Prophet), XIX, b 838, note, b 843 note; *Song of* (Semitic Languages), XXI, a 677
Debra Tabor, town (Abyssinia), I, b 63, a 66
Debray, chemist (Sainte-Claire Deville), XXI, b 174
DEBRECZYN or Debretzn, city, VII, b 15; (Hajdúk), XI, *a* b 337; University of, XXIII, a 908
—— Class, authors (Hungary), XII, a b 392
Debreczeni, Martin, poet (Hungary), XII, a 393
Débris, angular (Ural Mountains), XXIV, b 8, a b 9
DEBT, Law of, VII, b 15; actions for (Limitations), XIV, a b 657; collection of (Warrant), XXIV, *a* 393; imprisonment for (Bankruptcy), III, a b 295, a 296; liability for (Women), XXIV, *a* b 909; Prescription in, XIX, a b 726; in Roman Law, XX, b 700, a 701–3, b 705, b 711–2; repudiation of (Roman Law), b 725; Sanctuary for, XXI, a 268; sinfulness of (Quakers), XX, a 157. See BANKRUPTCY and Debtors
——, English national (Banking), III, b 285; (Consols), VI, b 261; (England), VIII, b 219, b 220-1; (Finance), IX, a 156; (Halifax, Earl), XI, b 344; (National Debts), XVII, b 250, a 251
——, municipal (New York), XVII, a 476; (Paris), XVIII, a b 284; (Taxation), XXIII, b 296–7. See Debts, Municipality, Township. The debt of each city, state and nation may be found under their separate titles
——, national (Brazil), IV, a 213; (Chili), V, b 542; (Colombia), VI, b 139; (Germany), X, b 418, b 419; (Greece), XI, b 80 1; (Portugal), XIX, a 554; (Prussia), XX, a 24. See NATIONAL DEBTS
——, public (Finance), IX, a 156; (India), XII, b 812–3; (International Law), XIII, b 200; (Ireland), a b 241
Debtor and creditor (Obligation), XVII, a *b* 724; judgment (Attachment), III, a 46
Debtor's Act of 1869 (Bankruptcy), III, a b 295
Debtors, Athenian (Greece), XI, a b 87; (Solon), XXII, a *b* 267
Debtors, English (Habeas Corpus), XI, a 321; insolvent (Bankruptcy), III, b 295; naval (Navy), XVII, b 304
——, Hindu punishment of (Law), XIV, b 360
——, Roman (Slavery), XXII, a 140, b 142; of regal period (Roman Law), XX, a 695
Debts, English local (National Debts), XVII, b 252
—— of Partnership, XVIII, a b 337; preferred (Privilege), XIX, b 784
——, Scotch (Prescription), XIX, a b 726
Debure, Guillaume François, (Bibliography), III, a 563, a 565, *a* 566, *a* 567, b 568, a 571, b 572
De Burg, Hubert, justiciar (Henry III.), XI, a b 587
Décade Philosophique (Periodicals), XVIII, b 550
Decade Rings, XX, a 576
Decagon, describing (Geometry), X, a 340
Decahydrates (Sodium), XXII, b 254
Decaisne, Joseph, botanist (Pear), XVIII, a 457
DECALOGUE, VII, b 15–7
  Christian theology, a b 17
  critical question, b 16
  divisions, a b 16
  Exodus version, b 16–7
  literature, b 17
  names defined, b 15
  text, state of, a 16
—— (Idolatry), XII, b 737; (Israel), XIII, a 410, b 425; (Sunday), XXII, b 688
Decameron (Boccaccio), III, a *b* 733, b 734–5; (Italy), XIII, a 515; (Provençal Literature), XIX, a 901; MS. (Libraries), XIV, a 530
DECAMPS, Alexandre Gabriel, painter, VII, b 17
De Candolle, Alphonse, Louis, botanist, VII, a 18; (Australia), III, b 96; (Morphology), XVI, b 864, a 868; (Pea), XVIII, b 452; (Peach), b 453; (Plantain), XIX, b 187
——, Anne C. P., botanist (Insectivorous Plants), XIII, b 143, b 147
DE CANDOLLE, Augustin Pyramus, botanist, VII, b 17–8; (Botany), IV, a b 71; (Breeds), b 222; (Distribution), VII, *b* 250; (Morphology), XVI, b 864, b 865, a 868; (Parasitism), XVIII, b 268, note, a 270 note; (Wheat), XXIV, b 561
Decans, stars (Zodiac), XXIV, a 831, *a* b 834
Decanter filter (Ill.), IX, a b 147
Decanus, judge (Magistrate), XV, b 217
Decapitation, expert (China), V, b 581
Decapoda, sub-order of Mollusca (Crustacea) (Ill.), VI, b 560, *a b* 561, b 563, a b 564, a b 565, a *b* 566, a 567, a 568, b 573 notes, a b 575 notes, b 578, b 579–82; (Cuttle-Fish), *b* 649, a b 650 -1, a 653; (Mollusca), XVI, b 694–5
Decapod locomotive (Steam-Engine), XXII, a 925
DECAPOLIS, district, VII, a b 18; (Palestine), XVIII, a 181
Decarbonization (Iron), XIII b 326–7, a 341
Decarconi, officials (Rome), XX, a 807
DECATUR, city (Ill.), VII, b 18
——, Stephen, commodore (Preble), XIX, b 925; (United States), XXIII, b 808, note
De Causis (Arabian Philosophy), II, b 235
Decazes, Elie, duke, minister (France), IX, a 545
DECCAN or Dakhín, district, VII, b 18–9; (Bombay), IV, *a* b 20, a 21, *a* 22; (Clive), VI, a 12; (Hastings), XI, b 459–60; (Hindustani Literature), b 756–7; (Hyderabad), XII, a b 444, a b 445; (India), b 771–2, a 799, b 801, a 806
——, avifauna of (Birds), III, b 661; language of (Hindustani), XI, a 750; Mahometan conquests in (India), XII, a *b* 832, a b 833, b 834
Decebalus, Dacian chief (Trajan), XXIII, a b 535, a b 536
Deceit or disceit, law-term (Writ), XXIV, b 730
Deceiver of Seville (Don Juan), VII, b 309
Decelean war (Greece), XI, a 92
DECEMBER, month, VII, a 19; (Calendar), IV, b 590, a b 591; American (Horticulture), XII, b 308; British (Horticulture), b 306; weather, 1878 (Meteorology), XVI, b 162
DECEMVIRI, magistrates, VII, a b 19; (Claudius Crassus), V, b 713; (Roman Law), XX, a b 697, a 704; (Rome), b 756
Decenna, tything (Brehon Law), IV, a 227
Decennalia, festival (Severus), XXI, a 733
Decennial (Prescription), XIX, a 726
Deception island (New South Shetland), XVII, a 418
Decharme, M. C., physicist (Flame), IX, a 249
Dechenite (Mineralogy), XVI, a 421
Decian persecution (Gregory Thaumaturgus), XI, a 162; (Novatianus), XVII, b 618; (Penance), XVIII, b 496. See Persecution
Decidua, uterine layer (Mammalia), XV, a b 372
Deciduous ornamental trees (Arboriculture), II, b 280 -1
Decimal Balance, III, b 230
DECIMAL COINAGE, VII, b 19–20; (Money), XVI, b 756, a b 758, a b 759, a 760
—— fractions. See Decimals
—— logarithms (Napier), XVII, b 187, a 188
—— system (Numerals), XVII, b 641–2; of De Bruges (Arithmetic), II, b 462
Decimals or decimal fractions (Arithmetic), II, a 466–7; (Napier), XVII, a 192; (Navigation), a 257; (Stevinus), XXII, a b 574; (Tables), XXIII, b 12–3
——, repeating or circulating (Arithmetic), II, a 467; (Tables), XXIII, b 12–3, a b 18
Decipium, element (Spectroscopy), XXII, a 391
Decisory Oath, XVII, a 721
Decius, consul (Rome), XX, *a* 762
Decius, Caius Messius Traganus, emperor (Greece), XI, b 98; (Rome), XX, b 791, a b 794, a 795; (Valerianus), XXIV, a 47. See Decian Persecution
De Cive (Hobbes), XII, a b 36, note, *a* b 37, note, b 39
De Civili Dominio (Wycliffe), XXIV, *b* 745
De Civitate Dei, Augustine (Orosius), XVIII, a 54. See *City of God*
Decize, town (Nièvre), XVII, a *b* 509
Decken, Karl Klaus, Baron von der (Africa), I, *a* 222, b 228; (Kilimanjâro), XIV, *b* 75, a 76
DECKENDORF or Deggendorf, town, VII, a 30
Decker, Jeremias de, poet (Holland), XII, a 99
——, Pierre Jacques François de, minister (Belgium), III, *a* 458
Decks (Shipbuilding), XXI, a 858
Declaratio Cleri Gallicani (Popedom), XIX, b 520, a 521
DECLARATION, legal, VII, b 20
—— *of Breda*, 1660 (Monk), XVI, b 779
—— *and Claim of Right* (Scotland), XXI, b 539–40
—— *of Independence*, American, 1776 (Adams), I, a 130, b 131; (Jefferson), XIII, *b* 625; (Philadelphia), XVIII, a 755 (Thornton), XXIII, a 941; (United States), b 782, a 785, *b* 790 -1, a 802; (Wise), XXIV, b 906; (Women), a 908, b 911
—— *of Indulgence*, 1687 (England), VIII, b 313, b 314; (Owen), XVIII, b 89; (Penn), a 507
DECLARATION OF PARIS, treaty, 1856, VII, b 20–1
—— *of the Rights of Man* (France), IX, b 527–8
—— *of Sports*. See SPORTS, Book of
DECLARATOR, action in Scotch law, VII, a 21

Declaratory Acts (Statute), XXII, b 486
De Clementia, Seneca (Calvin), IV, a b 633
Declension (Hindūstanī), XI, b 751-2; (Provençal Language), XIX, a b 895; (Sanskrit), XXI, a b 283. See Cases, Inflections
Declination, astronomical (Astronomy), II, b 668; (Comet), VI, b 163, a 165, b 170; (Navigation), XVII, a b 276; overcoming instrumental (Telescope), XXIII, a b 164-5; tide-generating, potential in terms of (Tides), b 379-80, b 386
——, magnetic (Compass), VI, a 201; (Magnetism), XV, b 220, notes, a 222, a 239-40; disturbances (Meteorology), XVI, a 179
—— ranges, magnetic (Meteorology) (Ill.), XVI, b 176; tables (Meteorology), a 172, b 173
Declinational inequality, age of (Tides), XXIII, b 391, b 392-3
Decline and Fall of Roman Empire (Gibbon), X, *a* b 516-7, a b 518-20
Declinograph (Micrometer), XVI, b 266
Declinometer (Meteorology) (Ill.), XVI, a b 164-5, a 167; mica (Micrometer), a 266
Decoctum hordei, drug (Barley), III, a 325
Decomposition, chemical (Alloy), I, a 518; (Chemistry), V, a b 412; (Distillation), VII, b 228; (Gelatin), X, b 117; (Granite), XI, b 43; of lava (Geology), X, a 223; organic (Chemistry), V, a 417, a 442
De Consolatione Philosophiæ (Boëtius), III, a b 744-5; (Provençal Literature), XIX, a 898; translation of (Alfred), I, b 447, a 448
De Contemptu Mundi (Petrarch), XVIII, a 723, b 724
De Contumace capiendo (Writ), XXIV, b 730, a 732
Decoration, wall. See MURAL DECORATION
Decorative art (Homer), XII, b 115; (Ivory), XIII, a 534; (Japan), a 581 note, a 598-602; (Lacquer), XIV, a b 195; (Mural Decoration), XVII, a b 52-3; (Pottery and Porcelain), XIX, b 658, b 663; architecture (Jones, O.), XIII, b 749; Mohammedan (Kashi), XIV, b 10-11
—— building materials (Rome), XX, a b 826
Decorative Design, Art of (Japan), XIII, a 599
Decorative designs, joinery (Building), IV, b 435-6; masonry (Building), b 423-5; painting (Building), a 459; plastering (Building), b 453, b 454; surface-work (Building), a b 455, b 458, a b 459
De Corpore Politico (Hobbes), XII, b 35, *a* 36, b 37, a b 38, *a* b 39
Decoy ducks (Poultry), XIX, a 667
DECREE, Decreet, of Court, VII, a 21
Decrees-arbitral, Scotch (Arbitration), II, a 274
Decreta, imperial Roman (Inscriptions), XIII, a 138-9; (Roman Law), XX, a 724, *b* 729
DECRETALS of the Pope, VII, a 21; (Canon Law), V, a b 16, a 17, a b 18, *a* b 19; (Concordat), VI, b 214; (Contraband), b 284; (Gelasius I.), X, a 117; (Gregory IX.), XI, a 159; (Pelagius II.), XVIII, b 484; (Pico), XIX, a 89; (Popedom), b 505, a b 507, a b 511, b 513; (Tithes), XXIII, a 439; (Witchcraft), XXIV, b 653
—— of *Clement V.* (Canon Law), V, b 18, *a b* 19
——, *False*, or pseudo-Isidorian (Canon Law), V, b 16-7, b 21; (Nicholas I.), XVII, a 497; (Popedom), XIX, b 505, a b 507, a 511, b 513
—— *of Gregory* (Sunday), XXII, a 689
Decretum Gratiani (Canon Law), V, a 18, a 19; (Gratianus), XI, b 54; (Popedom), XIX, b 513; (Universities), XXIII, a b 888
Decretum, judgment by (Roman Law), XX, a 704
DECURIO, Roman officer, VII, a b 21
Decussation of the pyramids (Anatomy), I, a *b* 764
Dedekind, R., mathematician (Riemann), XX, b 565, *a* 566
Dedication, feast of (Israel), XIII, a 432
—— to public use (Highways), XI, b 724
Dedicatory inscriptions, Roman (Inscriptions), XIII, a b 133-4
De Diis Syriis (Seldon), XXI, b 662
Dedler, Rochus, schoolmaster (Oberammergau), XVII, a 723
De Dominio, treatises (Wycliffe), XXIV, a 745 note
De Donis Conditionalibus, statute (Real-Estate), XX, b 318
Deduction (Analysis), I, b 699; (A priori), II, b 187; (Aristotle), II, b 453-4; (Bacon), III, a 187, note 5; (Buckle), IV, a 378, *b* 379; (Cairnes), IV, b 571; (Dogmatic), VII, a b 292; (Hamilton, Sir W.), XI, b 374; (Logic), XIV, b 799-800, b 804; (Political Economy), XIX, a *b* 379, a 383, b 393, a 394, b 407, *b* 410, a 411; (Theology), XXIII, b 286-7
Deduplication, floral (Botany), IV, a b 116-7
Dee river (Aberdeenshire), I, *b* 46; (Kincardine), XIV, *b* 80, a 81
—— (Cheshire), V, b 511; (Chester), *a* 526; (Flint), IX, *a* 286; (Merioneth), XVI, b 43, a 44; (River Engineering), XX, b 591, b 592, a 593
—— (Kirkcudbright), XIV, *b* 99
DEE, John, mathematician, VII, b 21-2
Deecke, philologist (Hebrew Language and Literature), XI, *b* 533; (Hieroglyphics), *b* 722
De Ecclesia (Wycliffe), XXIV, a 746
DEED, contract, VII, a 22; (Contract), VI, a b 287; (Registration), XX, *a* b 355; of Conveyance (Sale), XXI, b 216; of Partnership, XVIII, b 335
De Emendatione Intellectus (Cartesianism), V, a 134
De Emendatione Temporum (Scaliger), XXI, *b* 379
Deemster, judge (Man, Isle of), XV, *b* 459
Deepdene mansion (Dorking), VII, a 319
Deeping fen (Agriculture), I, b 359; (Lincoln), XIV, a 660
Deep-sea dredging (Dredge), VII, a 399-400; (Thomson), XXIII, b 331; fauna (Ichthyology), XII, b 715-6, a 721-3; temperature (Mediterranean Sea), XV, b 831-2; Thermometers, XXIII, a 312-3
DEER, ungulate mammals, VII, a 22-4; (Aberdeenshire), I, b 46; (Distribution), VII, b 240; (India), XII, b 780; (Java), XIII, a 613; (Mammalia) (Ill.), XV, b 435, a 437, a 438; (Zoology, American), XXIV, b 923
——, antlers of (Horn), XII, a 171; (Hunter), b 403-4; (Skeleton), XXII, a 117
Deerbrook (Martineau), XV, b 590
"—— forest" (Buddhism), IV, *b* 383, b 384
—— forest (Scotland), XXI, b 556; (Sutherland), XXII, b 764
Deerhound, Scottish (Dog), VII, b 284
—— Lake (Newfoundland), XVII, *a* b 392
—— Law, mountain (Selkirk), XXI, a 670
Deer-stealing (Theft), XXIII, b 251; tradition (Shakespeare), XXI, b 789-90
Defæcation (Nutrition), XVII, a 690, b 696-7
DEFAMATION, VII, a 24; (Libel and Slander), XIV, b 504-7; punishment for (Poland), XIX, a 301
Default Summons, XXII, b 676
Defence, military (Battle), III, a 384; (Fortification), IX, b 403-4; artillery (War), XXIV, b 381; limiting line of (Fortification), IX, b 375
Defence of Poetry (Shelley), XXI, b 830
Defendant (Costs), VI, b 399-400
DEFENDER OF THE FAITH, title, VII, a 24; (Advocate), I, b 161; (More, Sir T.), XVI, b 844
"Defenders" (Mohammedanism), XVI, b 577, a b 582, a 583, b 586
Defenneh, ruins of (Weights and Measures), XXIV, a b 508, b 509, b 513, *a* b 515, b 516
Defensio Catholicæ Fidei (Suarez), XXII, b 648
—— *Regia pro Carolo I.* (Salmasius), XXI, b 230, *a* 231
Defensive Armor, Egyptian (Arms and Armor), II, b 486; Greek (Arms and Armor), *b* 486; Roman (Arms and Armor) b 486
Deferred Annuities, II, b 71-2
DEFFAND, Maria de Vichy-Chamrond, marquise du, VII, a b 24; (Gibbon), X, b 515, note
Defilade, attack (Fortification), IX, b 374-5
Defining-power in Microscopes, XVI, a b 274, *b* 280
Definite integrals (Infinitesimal Calculus), XIII, b 44 *sq.*
Definition (Logic), XIV, b 797-8
Definitions of Euclid (Geometry), X, b 334-5
Deflection (Gunnery), XI, a b 270
—— of beams (Bridges) (Ill.), IV, b 265-9; (Strength of Materials), XXII, a b 637
——, magnetic (Magnetism), XV, b 235, b 240-1; (Meteorology), XVI, a 175; measurement (Telegraph), XXIII, a b 125-6; method of (Magnetism), XV, a b 255
Deflector, magnetic (Meteorology), XVI, b 165
Defloration (Medical Jurisprudence), XV, b 790
DEFOE, Daniel, author VII, b 24-9
    ancestry, b 24
    bibliography, a b 29
    biographies of, a 29
    characteristics of, a 28-9
    commercial life, b 24-5
    fictions of, b 26-7
    government employments, a b 26
    political authorship, a 25-6, b 27
    private circumstances, later, b 27-8
    prosecution and imprisonment, b 25-6

—— (Abercromby, P.), I, a 41; (Charles XII.), V, a 366; (England), VIII, a 232; (English Literature), b 379, b 381; (Newspapers), XVII, a 422, a b 426, a 427, a 433; (Pamphlets), XVIII, a 209; (Periodicals), a b 547; (Savings Banks), XXI, *b* 342
Deformable figure, kinematics of (Mechanics), XV, b 700-5
Deformation (Constitution of Bodies), VI, b 277-9
Deformities (Insanity), XIII, a 104; due to rickets (Pathology), XVIII, b 380; operations for (Surgery), XXII, b 723, a 727-8. See MONSTER
Dég or Degh river (Gujranwala), XI, b 241; (Punjab), XX, *b* 112; (Siálkot), XXI, b 889
Degaid clan (Ireland), XIII, a b 251, b 252
Degen, Carl Ferdinand, mathematician (Tables), XXIII, a 17. b 18, a 20
Degenerate Curves, VI. a b 642

- Degeneration, animal (Parasitism), XVIII, a b 267; (Tunicata), XXIII, a 653; Dohrn's doctrine of (Zoology), XXIV, b 850; metabolic (Pathology), XVIII, b 398–9; of spinal cord (Pathology), a 400, a 401; structural (Vertebrata), XXIV, a b 195, a 198, a 201
- ——, floral (Botany), IV, a b 116
- DE GÉRANDO, Marie Joseph, metaphysician, VII, b 29–30
- DEGGENDORF or Deckendorf, town, VII, a 30
- Degh River. See Deg
- Degland, naturalist (Garefowl), X, a 72; (Ornithology), XVIII, b 21
- *De Gloria* (Osorio), XVIII, b 59
- Deglutition, act of (Anatomy), I, *a* b 735; (Nutrition), XVII, a 689, a 696
- De Goeje, M. J., orientalist (Tabarí), XXIII, b 6, b 7, a 8 note
- Degradation. See Degeneration
- ——, ceremony of (Knighthood), XIV, a 126–7
- Degras, dressing (Leather), XIV, b 390
- Degré, Alois, satirist (Hungary), XII, a 395
- Degree, angular magnitude (Angle), II, a 28; meridian of (Geography), X, b 176–7; measurement of (Navigation), XVII, a 263; (Newton), b 453
- Degrees, academical (Bretschnider), IV, a 234; (Correa), VI, a 349; (Doctor), VII, a 277; (Examinations), VIII, a b 680; (Universities), XXIII, a 887, b 889, b 890, a b 899, a 901, a 911; theological (Lombard), XIV, a 822
- De Grey, river (Western Australia), XXIV, a b 535, a 537
- Deguignes, Joseph, orientalist. See Guignes, Joseph de
- De Haan, mathematician (Tables), XXIII, *a* 20
- De hæretico comburendo, writ (Heresy), XI, b 659
- Dehás River (Áfghânistân), I, a 217
- Dehbid, village (Samarkand), XXI, b 259
- Dehesa, pass (Chili), V, b 535
- Dehiscence of the anther (Botany)(Ill.), IV, b 124–5; of fruit (Botany) (Ill.), a 135–7
- Dehli, city. See Delhi
- *De Homine* (Hobbes), XII, b 35, a 36, b 39
- De Hooch, painter (Meer), XV, b 833, a 834
- Dehra, town (Dehra Dún), VII, b 30–1
- DEHRA DUN, district, VII, b 30 1
- Dehri Shahan, village (Ráwál Pindí), XX, a 311
- Deianeira, heroine (Hercules), XI, b 649
- Deidamia, marriage of (Centaurs), V, b 295
- *Dei delitti e delle pene* (Political Economy), XIX, b 375
- *Dei Filius*, constitution (Vatican Council), XXIV, b 122
- Deifr. See Deira
- Deiman, John Rodolph, physician (Chemistry), V, a 404; (Electricity), VIII, b 9
- *De Immortalitate Animarum* (Paleario), XVIII, b 171–2
- Deimos, moon of Mars (Tides), XXIII, a 405; (Telescopic Work), a 936
- *De Incorruptibilitate Mundi* (Philo), XVIII, b 777
- Deinokrates, statesman. See Dinocrates
- Deinosaurs, Jurassic (Geology), X, a b 315
- *De institutione Cœnobiorum*, Cassian (Monachism), XVI, b 728
- *De Inventoribus* (Virgil), XXIV, a b 274
- Deioces, Median king (Persia), XVIII, b 573, a b 574
- Deiotarus, tetrarch (Galatia), X, b 18
- *Deipnosophistæ* (Athenæus), II, a 728
- Deira, Deifr or Dyfer, kingdom (Celtic Literature), V, *a* 262; (England), VIII, b 244; (Northumberland), XVII, *b* 582, *a* b 583
- Deir-el-Kamar, town (Druses), VII, b 417, b 419
- Deisil, trick (Magic), XV, b 204
- DEISM, VII, a 31–4
    - Continental, b 33–4
    - definition, a 31
    - English deists, sketches of, b 31–2, a 34
    - historic impulses of, a b 31
    - later types of, a 34
    - theological relations of, a b 33
- —— (Akbar), I, b 385; (Apologetics), II, b 168; (Butler), IV, b 519–21; (Chubb), V, a b 662; (Herbert, Lord), XI, a 646; (English Literature), VIII, a 381; (Hobbes), XII, a 35; (Hume), XII, a 364, a 369; (Leland), XIV, a b 434; (Paine), XVIII, b 141; (Rationalism), XX, *a* 302; (Theism), XXIII, b 253–4, b 263, note; (Tindal), b 430
- *Deists, Letters to* (Balguy), III, *b* 242
- Deiter's cells (Physiology), XIX, b 39
- Deity. See God and THEISM
- Deities, Athenian increase of (Club), VI, b 38–9
- *De Jesu Christi Natura* (Socinus), XXII, b 242
- Dejneff, explorer (Siberia), XXII, b 17
- *De Jure Belli* (Gentili), X, b 144
- *De Jure Belli ac Pacis* (Grotius), XI, a 194, a b 195, *a* 196; (International Law), XIII, b 197
- *De jure naturæ et gentium* (Pufendorf), XX, b 105
- *De Jure Prædæ* (Grotius), XI, *a* 194, *a* 196
- *De Jure Regni apud Scotos* (Buchanan), IV, a 371
- Dekabrist conspiracy (Poushkin), XIX, a 669; (Russia), XXI, b 109, note
- Deken, Aagjen or Agatha, novelist (Bekker, E.), III, *a* 441; (Holland), XII, b 99, a 100
- DEKKER, Jeremiah de, poet, VII, a b 34
- DEKKER, Thomas, dramatist, VII, b 34–5; (Ford, J.), IX, a 347, *a* 348; (Jonson), XIII, a *b* 752
- DE LA BECHE, Henry Thomas, geologist, VII, b 35–6; (Geology), X, b 228, a 304
- DELACROIX, Ferdinand Victor Eugène, painter, VII, a b 36
- Delafossite (Mineralogy), XVI, b 400
- DELAGOA BAY, VII, b 36; (Transvaal), XXIII, *a* 552
- DELAMBRE, Jean Baptiste Joseph, astronomer, VII, b 36–7; (Astronomy), II, a 660, *b* 662, b 685, b 696; (Parallax), XVIII, a 256; (Ptolemy), XX, a b 94, *b* 95, *a* 96, notes; (Tables), XXIII, a b 15, a 20
- Delambre's formulæ (Trigonometry), XXIII, a 602
- Delamere, Booths, lords of (Warrington), XXIV, *a* 395
- De la Mare, Peter, speaker (Parliament), XVIII, b 311, note
- Delameter gas well, Butler County, Pa. (Iron), XIII, a 300; (Natural Gas), XVIII, a 897
- Delane, John Thaddeus, editor (Newspapers), XVII, b 428
- De la Provostaye and Desains's experiments (Radiation), XX, a 221, *a* 223
- DE LA RIVE, Auguste, physicist, VII, b 37–8
- DELAROCHE, Hippolyte or Paul, painter, VII, a b 38; (Hildebrandt, T.), XI, b 728; (Millet, J. F.), XVI, a 334
- DELARUE, Gervais, critic VII, b 38–9
- De la Rue, Warren (Astronomy), II, a 688, b 689, a 701, b 704; (Electrolysis), VIII, a 101, note; (Observatory), XVII, b 731
- Delatio hereditatis (Roman Law), XX, a 710
- De la Tour's syren (Acoustics), I, a b 102
- Delaunay, Charles Eugène, mathematician (Geology), X, a 201; (Moon), XVI, b 827, b 828, a 829; (Tides), XXIII, b 402
- Delaunay's multiple (Telegraph), XXIII, a 134
- Delaval, Edward Hussey, chemist (Electricity), VIII, b 8
- DELAVIGNE, Jean François Casimir, dramatist, VII, a b 39
- DELAWARE, Ohio, city, VII, b 40
- Delaware river (Delaware), VII, *a* 40; (Pennsylvania), XVIII, a 510; (Philadelphia), a 750; (United States), XXIII, a 841
- DELAWARE, State, VII, b 39–40; (Maryland), XV, b 611; (Universities), XXIII, a 913, a b 953; history of (United States), a 794, a 800, b 821, a 823, a 825; statistics (United States), b 853, b 860, b 876; topography (United States), a 844
- Delawares, Indian tribe (America), I, a 606; (Indians), XII, b 871; (Totemism), XXIII, a 498, a 504
- ——, language of (Zeisberger), XXIV, *a* 923
- De la Warre, Sir Reginald West, Baron (Manchester), XV, b 471
- Delbaith Dana, god (Celtic Literature), V, *b* 260, a 269
- Delbrück (Grammar), XI, b 36, b 39
- Del Cimento, Academy, I, b 68; (Medici), XV, a 803
- DEL CREDERE AGENT, VII, b 40
- Delees, troops (Egypt), VII, a b 661
- Delegations, The (Austria), III, b 106
- De l'Epée, Abbé. See Epée
- De l'Escluse, Charles. See Clusius
- *De l'Esprit* (Helvetius), XI, *b* 573
- Delesse, geologist (Geology), X, b 230, *a* 231, a 232
- Delessite (Mineralogy), XVI, b 431
- DELFICO, Melchiorre, economist, VII, b 40–1
- DELFT, town, VII, a 41; (Holland), XII, a 67, b 69, a b 70, a 75; (Technical Education), XXIII, *a* 117; ware (Pottery and Porcelain), XIX, b 650–1
- DELHI, India, district, VII, a 41–2
- ——, district (Punjab), XX, b 114, a b 115, *a* 116, *b* 118; (Hindūstanī), XI, *a* 750; (Hindustani Literature), a *b* 757, a 759; (Jaunpur), XIII, b 610
- DELHI or Dehli, India, city, VII, a 42–4
    - history, a 43–4
        - British period, b 43–4
        - early dynasties, a 43
        - Mahrattá ascendency, b 43
    - Mughal empire, a b 43–4
    - population, b 42–3
    - structures in, a b 42
- —— (Dalhousie), VI, b 685; (Inscriptions), XIII, a 124, b 125; (Lawrence), XIV, a *b* 371, a 372; (Mosque), XVI, a 892, a 894; (Numismatics), XVII, b 679; (Persia), XVIII, a 650, b 653; conquest of, 1756 (Ahmed Shah), I, a b 376; storming of (India), XII, a b 849–50
- ——, kingdom of (Asia), II, *b* 611, a 612, b 613; dynasty (Gaur), X, *b* 101; (Ghazni), a 502; (Ghúr), b 509; empire (India), XII, *a* b 832, *b* 833–5
- Deli, district (Sumatra), XXII, a 672, a 674; town (Timor), XXIII, b 424
- DELIA, festival, VII, b 44
- Delia, inamorata (Tibullus), XXIII, b 370, *a* 371, a 372
- Delian confederacy. See Delos, confederacy of

Deliberative Rhetoric, XX, *b* 525-6
Délices, Les, residence (Voltàire), XXIV, b 310
Delict, Roman law-term (Tort), XXIII, b 482-3; (Roman Law), XX, b 710
Delidji Tchai river (Asia Minor), II, a 618
Delile, naturalist (Egypt), VII, b 616, note
DELILLE, Jacques, poet, VII, b 44-5
Delineation (Drawing), VII, a b 386, b 387; of ground (Surveying), XXII, a 746-8; scale (Surveying), a 745
De Lingua Latina (Varro), XXIV, b 101-2
DELIRIUM, disease, VII, a b 45; (Insanity), XIII, b 112, b 113; (Typhus-Fever), XXIII, b 719; tremens (Hops), XII, b 161
Deliry-Desboves, Kneading machine (Baking) (Ill.), III, b 221-2
De Lisle, Guillaume, astronomer. See Lisle, Guillaume, de
Delisle, Joseph Nicolas (Astronomy), II, a 662, b 697; (Lalande), XIV, *a* 226: (Wave Theory), XXIV, a 452
——, Louis, astronomer (Thermometer), XXIII, a 309
Delisle, Romé (Crystallography), VI, a b 595
De l'Isle, Rouget, poet (Béranger), III, b 502
DELITZSCH, town, VII, a 46
Delitzsch, Franz, theologian (Canticles), V, a b 31, *b* 33; (Hebrews), XI, a 539, b 541
——, Friedrich, critic (Ecclesiastes), VII, *a* 542
——, Johannes, theologian (Isaiah), XIII, b 389, b 392, a b 394; (Israel), XIII, a 429, note; (Job), XIII, a 713, a 714
Delitzsch banks (Coöperation), VI, b 301
Delium, battle of, 424 B.C. (Xenophon), XXIV, a 756 note
Deliverance (Writ), XXIV, a 732
Delivery (Writ), XXIV, b 731
Dell, William, educator (Universities), XXIII, b 908
Della Cruscan academy (Academy), I, b 71; (Boccaccio), III, b 734; (Grazzini), XI, b 71; (Medici), XV, a 802
—— Cruscans (Catherine, St.), V, *b* 202
—— Doccia pottery (Italy), XIII, b 464
—— Robbia ware (Robbia), XX, b 605, *a* b 607, a 608
—— Scalla, family (Italy), XIII, a b 487, a 489, a 490
Della Spera (Map), XV, a 525
Dellmann's electrometer (Electricity), VIII, b 12; (Electrometer) (Ill.), a 112
Dellon, martyr (Torture), XXIII, b 493, note
Delmenhorst, town (Oldenburg), XVII, b 778, *b* 779
DELOLME, Jean Louis, jurist, VII, a 46
De Long, Lieutenant, explorer, (Polar Regions), XIX, a 338
Delorme, Joseph, Vie de, poet (Sainte-Beuve), XXI, b 170
Delorme, Philibert, architect (Lyons), XV, b 112
DELOS, island, VII, a b 46; (Altar), I, a 562; (Apollo), II, *b* 162, a 163; (Latona), XIV, a 346; (Pericles), XVIII, a 541; Amphictyony of, I, a 679; confederacy of (Greece), XI, b 90; (Scio), XXI, b 487; purification of (Pisistratus), XIX, b 140
DE LOUTHERBOURG, Philip James, painter, VII, b 46-7
Delphi or Dirphys, mountain (Eubœa), VIII, a 569
DELPHI, town, VII, a b 47; (Æsop), I, b 190; (Archæology), II, a 307, b 314; (Crissa), VI, *b* 522; (Greece), XI, a 84, b 87, b 88, b 93, b 97; (Inscriptions), XIII, a b 127, a 129; (Latona), XIV, a 346; (Mysteries), XVII, a 135, note; (Neoptolemus), a 349; (Numismatics), b 658
—— Amphictyony of, I, a 677-9
——, oracle of (Apollo), II, b 162, a 163; (Camarina), IV, b 638; (Cleomenes), V, b 720, a 721; (Gyges), XI, a 310; (Oracle), XVII, a *b* 832; (Pericles), XVIII, a 542; (Phocis), *b* 814
——, siege of (Brennus), IV, b 230
Delphin edition of classics (Bibliography), III, a b 568; (Huet), XII, a 349
Delphinapterus, genus (Mammalia), XV, a 402, b 403
Delphine (Stael), XXII, b 457, a 459
DELPHINIA, festival, VII, b 47
Delphinidæ, family (Mammalia), XV, b 401-3
Delphinium, plant (Botany), IV, a 119, b 133, b 137; plants (Horticulture), XII, b 255, a 258, a b 263
Delphinus, cetacean (Dolphin), VII, a b 300; (Mammalia), XV, a b 403; distribution of (Mammalia), a 376. See DOLPHIN
Delphinoidea, group (Mammalia), XV, a 397, a 399-403
Del Rio, Ercole, chess-player (Chess), V, *b* 522
Delrio, Martin, Jesuit (Demonology), VII, a b 55
Delta (Amazon), I, b 575; (Bengal), III, *b* 485, a 488-9; (Danube), VI, b 721; (Egypt), VII, a 608, a 609, a b 611, a b 666-7; (Ganges), X, a 62; (Gaur), b 101-2; Me-nam (Siam), XXI, a 890; (Niger), XVII, a 511; (Orinoco), b 868; (Orissa), a 869; (Plate), XIX, a 200; (Syr-Daria), XXII, b 858. See Deltas, Passes of the Mississippi
—— fossils (Geology), X, a 283
——, territory (Venezuela), XXIV, b 152
"Delta," pseudonym (Moir), XVI, a 630
Deltas (Africa), I, a *b* 227, b 228; (Geology) X, a b 246, a 247-8; (Holland), XII, b 62-3; (Hydromechanics), b 532; (India), b 772, a b 793
DELUC, Jean Andre, geologist, VII, a b 48: (Evaporation), VIII, b 639; (Switzerland), XXII, b 837; (Thermometer), XXIII, a 309
DELUGE, VII, b 48-51
    American, a b 50
    authorities, a 51
    Babylonian, a 49
    East Indian, a 50
    Egypt, b 49-50
    Grecian, a 50
    Jewish, a b 49
    origin of stories, b 48-9
    significance of myths, b 50-1
—— (Archæology), II, a 292, a 293, a 294; (Babylonia), III, b 167; (Berosus), a 525; (Buckland), IV, b 377; (Cosmogony), VI, a 395; (Deucalion), VII, a 116; (Hunter, J.), XII, a 407; (Kurdistan), XIV, a 157 note; (Mythology), XVII, b 163; (Ogyges), a 754
Deluge, painting (Gleyre), X, b 605
Delusion (Insanity), XIII, b 111-2, b 113, b 114
DEMADES, demagogue, VII, a b 51
De Magnete Magneticisque Corporibus (Magnetism), XV, a b 222
Demagnetization (Magnetism), XV, b 255-6; of Watch, XXIV, a 420
De Maillet, Benoît. See Maillet
De Maistre. See MAISTRE
Demak, town (Java), XIII, a 617
Demand, equation of reciprocal (Political Economy), XIX, *a* 395; (Wages), XXIV, b 330
Demaratus, king of Sparta (Cleomenes), V, *b* 720; (Greece), XI, a 88, a b 89, b 90
Demarchs (Greece), XI, *a* 77
Demarete, queen (Numismatics), XVII, b 654
Demathium monophyllum, fungus (Orange), XVII, b 835
Dematophora necatrix, fungus (Vine), XXIV, a 259
Demavend, Mount (Caspian Sea), V, a 155; (Elburz), VII, b 718
Dembea, lake (Abyssinia), I, *a* 62; (Africa), a 227, a 229
Dembinski, Henry, general (Hungary), XII, *a b* 387, a 388
Dembowski, Baron, astronomer (Observatory), XVII, a 734
De Medicina (Medicine), XV, a 813
Deme, district (Greece), XI, a 88
——, organic aggregate (Morphology), XVI, a 870, a 872
De Melisso Xenophane et Gorgia (Xenophanes), XXIV, b 755, a 756
Dementia (Insanity), XIII, b 109, a 110, b 113
Demerara, province (Coolie), VI, b 297, *a* 298; (Guiana), XI, a b 221, a 223; (Slavery), XXII, b 149; river (Guiana), XI, a 222
Demetæ, tribe (Cardigan), V, b 84; (Carmarthen), b 101-2
Demeter, goddess (Ceres), V, *a* b 300; (Drama), VII, *a* 349; (Eleusinia), VIII, b 119, a 121; (Greece), XI, a 124; (Mysteries), XVII, a b 134-5; (Pelops), XVIII, b 490; (Proserpine), XIX, a b 846; worship of (Liber), XIV, a b 507; temple of (Cnidus), VI, a 43
DEMETRIA, festival, VII, b 51
Demetrios, Nicolaos, poet (Greece), XI, b 134
Demetrius, play (Goethe), X, b 652-3
Demetrius, king of Bactria (Persia), XVIII, b 601, a 602
—— or Demna, king of Georgia, X, b 388
DEMETRIUS I., Poliorcetes, Macedonia, VII, b 51-2; (Antigonus I.), II, *a* 113; (Athens), III, b 8; (Eubœa), VIII, a 571; (Numismatics), XVII, b 657, a 658; (Protogenes), XIX, b 849, a 850; (Pyrrhus), XX, *a* 143; (Thessaly), XXIII, a 320
DEMETRIUS II., Macedonia, VII, a 52; (Philip V.), XVIII, b 756
DEMETRIUS I., Soter, of Syria, VII, a 52; (Alexander Balas), I, a 430; (Egypt), VII, a 647; (Israel), XIII, b 432; (Numismatics), XVII, b 666; (Persia), XVIII, a 601
DEMETRIUS II., Nicator, Syria, VII, a 52; (Egypt), a 647; (Israel), XIII, b 432, a 433; (Persia), XVIII, b 602
DEMETRIUS III., Eucærus, Syria, VII, a 52; (Israel), XIII, b 433-4
——, bishop of Alexandria (Origen), XVII, a b 864
DEMETRIUS, Cynic philosopher, VII, b 52
Demetrius, False. See Dmitri
DEMETRIUS Phalereus, orator, VII, a 52; (Busiris), IV, a 514; (Greece), XI, a 127
——, St. Myroblete (Salonica), XXI, a 239
—— of Scepsis, antiquary (Troad), XXIII, b 616, a 618
DEMIDOFF, Akinfij, miner, VII, b 52
DEMIDOFF, Anatoli, diplomatist, VII, b 52
DEMIDOFF, Nikita, manufacturer, VII, b 52; (Neviansk), XVII, b 378
DEMIDOFF, Paul Grigorjevich, traveller, VII, b 52
DEMIDOFF, Nikolay Nikitich, capitalist, VII, b 52
Demidowite (Mineralogy), XVI, b 428

Demilune, covering work (Fortification), IX, b 392-3
——, cell aggregation (Nutrition), XVII, b 691
Demirdji-dagh range (Asia Minor), II, a b 617
Demise (Landlord and Tenant), XIV, b 273
Demiurge, world-maker (Cosmogony), VI, *b* 395; (Heracleon), XI, a 607; (Iamblichus), XII, b 637; (Marcion), XV, a b 542; (Valentinus), XXIV, *a* b 46; Brahman (Vedanta), *a b* 129, b 130; Gnostic notions of (Gnosticism), X, a b 628
Demiurgi, class (Greece), XI, a 87
DEMMIN, town, VII, b 52
Democedes, physician (Milo), XVI, a 336; (Polycrates), XIX, b 430
Democracy (America), I, a 624; (Government), XI, a b 11; (Isocrates), XIII, b 401; (Kabyles), a 824; (Nobility), XVII, a 538, a 540, b 541, a 542
——, American, rise of (United States), XXIII, b 779, b 781, b 783, b 786, a 788-9; under the Constitution (United States), a b 802, a 804, a 805
—— in Athens (Pericles), XVIII, a 540, a 544; (Solon), XXII, *a* 268; in Europe (Mazzini), XV, a 661-3; in France, IX, b 525-35; in Switzerland (Schaffhausen), XXI, b 403; (Unterwalden), XXIII, b 915; in mediæval Universities, a 889; ultramontane (Soleure), XXII, a 264
—— implications of (Socialism), XXII, b 217-18, a b 220, a b 224, a b 231, a b 232; influence of (American Literature), I, a b 631; popular unity in a (Sanitary Commission), XXI, a b 903, a 905
Democratic ascendency, mediæval (Rome), XX, a b 816-19
—— party (Douglas, S. A.), VII, *a* 327; (Greeley), XI, a 145; (Jackson, A.), XIII, a 544; (Johnson, A.), b 729; (Lincoln, A.), XIV, a b 668; (Republican Party), XX, *b* 905, a *b* 906, a b 907; (United States), XXIII, b 803, b 804, a 805, *a* 806, b 807, a 809, a 810, a 811, b 812, a *b* 815, b 816; (Walker), XXIV, b 880; (Whig Party), *b* 894
——, division of, 1860 (United States), XXIII, b 820; monetary doctrines of (United States), b 814; slavery views of (United States), b 816-7, b 818, a b 819, *a* 820, a 822; solid in the South (United States), b 832, a b 833
Démocratie en Amérique (Tocqueville), XXIII, b 458, a 459
Democritism, philosophy (Trendelenburg), XXIII, b 577
DEMOCRITUS of Abdera, philosopher, VII, a b 53; (Alchemy), I, a 408; (Æsthetics), b 193; (Dream), VII, a 933; (Epicurus), VIII, a b 420, a 421; (Ethics), a 508; (Evolution), b 662; (Gloss), X, a 612; (Hippocrates), XI, b 761; (Map), XV, *b* 523; (Parmenides), XVIII, b 322; (Telescope), XXIII, a 146
Demodex (Arachnida) (Ill.), II, *b* 239, a 240, b 241
Demography (Statistics), XXII, b 480
Demoiselle Crane, VI, b 484
DEMOIVRE, Abraham, mathematician, VII, b 53; (Algebra), I, a 455; (Quaternions), XX, a 168
Demoivre's law of mortality (Annuities), II, a 68, b 70, a 71
—— theorem (Trigonometry), XXIII, b 604-5, b 610
Demon. See Dæmon and DEMONOLOGY
De Monarchia (Dante), VI, a 717; (Italy), XIII, b 487
Demonax of Mantinea (Battus), III, b 385
Demoniacal possession (Animism), II, b 50, a 51; (Gospel), X, b 705, note
DEMONOLOGY, VII, b 53-7
animism, savage, a b 54
apparitions, a b 55
familiar spirits of sorcery, a b 56
functions, ascribed, b 55-6
illustrative cases, a 57
nature of the inquiry, b 53-4
possession, demoniacal, b 54-5
religious development of, b 56-7
sorcery, a b 56
—— (Kabbalah), XIII, b 821; (Lamia), XIV, b 244-5; (Magic), XV, a b 200, b 201, a 202, a 204, b 206; (Satyr), XXI, a 337; (Tibet), XXIII, a 366
Demonology and Witchcraft, VII, b 56
Demonstrative philosophy (Jacobi), XIII, a b 547
Demonstration, or Being and Attributes of God (Clarke), V, a 709; (Hume), XII, a 369
—— possibility of (Scepticism), XXI, a 401
DE MORGAN, Augustus, mathematician, VII, a 57-9
biographical sketch, a b 57, b 59
characteristics, a b 59, note
essays, b 58-9
teaching qualities of, b 57-8
treatises, systematic, a b 58
—— (Annuities) II, a 72, a b 73, a *b* 76; (Apparitions), a 181; (Infinitesimal Calculus), XIII, b 12, a 13, a 23; (Ptolemy), XX, a 94 note, *b* 96; (Tables), XXIII, b 16, b 18, a b 19, a 20
——, William, potter (Pottery and Porcelain), XIX, b 652
DeMorgan's form (Series), XXI, b 712
De Morte Peregrini (Lucian), XV, a 46
Demos, Athenian (Nobility), XVII, *b* 540
Demos, picture (Parrhasius), XVIII, a 327
Demospongiæ, sub-class (Sponges) (Ill.), XXII, a 437, a b 438, b 439-40, a 442
Demosthenes, general (Cleon), V, b 721; (Syracuse), XXII, a 854
DEMOSTHENES, orator, VII, b 59-66
Athens, relations to Greece of, a b 60
Chæronea, life after battle of, a b 63
early and professional career, b 59-60
editions of, b 65-6
Eubœan war, b 61-2
exile and death, b 63
Harpalus, affair of, a 63
literary fortune of, a b 65
Olynthiacs, a 62
oratory of, a b 64
Philippics, b 61, a b 62
political bearing of public speeches, b 60-3
speeches, list of, b 64-5
unity of political life, a 60, a b 61, b 63-4
—— (Æschines), I, a 188; (Alexander the Great), *b* 425; (Aristides), II, a 445; (Greece), XI, *b* 93-4, a 127; (Hyperides), XII, *b* 631; (Isæus), XIII, b 386-7; (Isocrates), b 399, note, b 400, a b 402, a 403; (Persia), XVIII, b 591, note; (Phocion), b 812, a b 813; (Slavery), XXII, b 138, a 139; (Thucydides), XXIII, b 347; (Timotheus), b 425
Demotic Egyptian Alphabet, I, a 529; writing (Egypt), VII, b 625; (Hieroglyphics), XI, a *b* 709
DEMOTICA, town, VII, a 66
De Motu Cordis et Sanguinis (Vascular System), XXIV, b 104
DEMPSTER, Thomas, scholar, VII, a b 66; (Duns Scotus), *b* 470; (Universities), XXIII, a 900
Demter, town (Deventer), VII, b 116-7
De Mundi Forma et Principiis, dissertation (Kant), XIII, b 854, a 857, b 858, a b 859
De Mundi Opificio (Philo), XVIII, a b 776
De Mundo (Peripatetics), XVIII, b 557
DEMURRAGE in marine law, VII, b 66; (Charter-party), V, a 375
DEMURRER, law-term, VII, a 67
DENAIN, town, VII, a 67
Denair, town (Apamea), II, b 129
Denarius, coin (Numismatics), XVII, *a* b 670, *a* 671, b 672, *b* 673
De Natura Deorum (Cornutus), VI, b 375
De Natura Rerum (Isidorus Hispalensis), XIII, a 396
Denayrouze's Aërophore (Coal), VI, b 68-9
DENBIGH, county, VII, a 67-8; Coal-field, VI, a 50
DENDERAH or Dendarah, village, VII, b 68-9; (Egypt), a 673; zodiacs of (Zodiac), XXIV, a b 834
DENDERMONDE, town, VII, a b 69
Dendragapus, bird (Grouse), XI, b 198
Dendrilla (Sponges) (Ill.), XXII, a 436, *a* 437
Dendritrina (Foraminifera) (Ill.), IX, a b 330
Dendrocœlida (Planarians), XIX, *a* 182, *b* 183, a 185
Dendrocolaptidæ, family (Birds), III, a 645, *b* 646, a 647
Dendrocometes (Protozoa) (Ill.), XIX, a b 890
Dendrocopus, genus of birds (Woodpecker), XXIV, a 686, a 687 note
Dendrocrinus, genus (Echinodermata) (Ill.), VII, b 551
Dendrohyrax, ungulate (Hyrax), XII, a 634; (Mammalia) (Ill.), XV, *a* b 428
Dendrolagus, marsupial (Kangaroo), XIII, a 850
Dendromyinæ, group of rodents (Mammalia), XV, a 424
Dendrophidæ, family (Snakes), XXII, b 203, b 205-6
Dendrophila, genus of birds (Nuthatch), XVII, a 685
Dendrosoma (Protozoa) (Ill.), XIX, b 860; *b* 890
Deneshkin Kamen, peak (Ural Mountains), XXIV, a 8
Denghiz, lake. See Balkash lake
Dengue, disease (Quarantine), XX, b 161
Denhâ, commentator (Syriac Literature), XXII, b 891
Denham, Dixon, explorer (Clapperton), V, *a* 700
DENHAM, Sir John, poet, VII, b 69-70; (English Literature), VIII, *a* 378
—— water, lake (Dahomey), VI, a b 674
Denier, coin (Numismatics), XVII, b 672, *a* b 673, a 674, *a b* 675
Denifle, Friedrich Heinrich, historian (Tauler), XXIII, b 88, a 89; (Universities), b 888, notes, *a* 889, a *b* 890, note, a b 895, a 896, note, b 914
DENINA, Carlo Giovanni Maria, historian, VII, a 70
Denis or Diniz, king (Portugal), XIX, *a* b 558, b 570-1
——, archbishop (Toulouse), XXIII, a 516
DENIS or Dionysius, Saint, VII, a 70; (Flag), IX, b 243; (Paris), XVIII, a 293; (St. Denis), XXI, b 169, a 170
——, Madame, niece of Voltaire, XXIV, *a* 310, *b* 311
——, Michael, librarian (Bibliography), III, a *b* 573
Denison, town (Texas), XXIII, a b 222
——, Sir E. Beckett, clock-maker. See Beckett, and in List of Contributors
——, Sir William, governor (India), XII, b 790 note

- Denisot, Nicolas (Marguerite de Valois), XV, b 545
- DENIZEN, British, VII, a 70
- DENMAN, Thomas, First Baron, VII, a b 70
- DENMARK, kingdom (Plate I), VII, b 70–82
    - area, b 70
    - commerce, b 71–2
    - communications, a b 73
    - fine arts, a b 82
    - HISTORY, a 74–8
        - eighteenth century, a 76–7
        - legendary age, a b 74
        - mediæval period, b 74–5
        - monarchs, list of, b 78
        - nineteenth century, a 77–8
        - political revolution, seventeenth century, b 75–6
        - Reformation and religious wars, a b 75
        - Schleswig-Holstein spoliation, b 77–8
        - Sweden, expulsion from, b 75, a b 76
        - viking period, b 74
    - LITERATURE, a 78–82
        - authorities on literature and art, b 82
        - Holberg and contemporaries, b 79
        - living writers, b 82
        - mediæval, b 78–9
        - poetical revival, eighteenth century, b 79–80
        - prose writers of revival period, a b 80
        - Reformation to eighteenth century, a b 79
        - romanticism, period of, b 80–2
    - natural features, b 70–1
    - political establishment, a b 72
    - population, b 73–4
    - products, industrial, a b 71
    - religion and education, b 72–3
    - territorial organization, a b 73
- —— (Faroe Islands), IX, b 35, a b 36; (Filigree), a 144; (Forest), b 349, *a* 350, b 351–2; (France), b 550–1; (Gustavus I.), XI, b 297; (Gustavus II.), a b 298; (Hanseatic League), *b* 402, a b 403; (Iceland), XII, b 653, a b 656; (Insanity), XIII, a 105; (Libraries), XIV, b 531, a b 551; (Liquor Laws), b 694; (National Debt), XVII, a b 253; (Newspapers), a 441; (Press Laws), XIX, a 732; (Prison Discipline), b 778; (Reformation), XX, b 348; (Savings Banks), XXI, a 347; (Suicide), XXII, b 662, *a* b 663, *a* 664; (Weights and Measures), XXIV, a 518
- ——, architectural carving in (Sculpture), XXI, b 584 note, b 591 note; coast of (Geology), X, *a* 236; flora (Distribution), VII, a 251; law of (Patents), XVIII, a 363; Periodicals of, a 554; succession in (Bunsen), IV, a 469
- —— and Schleswig-Holstein, XXI, a 433–4; (Austria), III, b 121; (Germany), X, b 454, a 456, b 457–8
- Denner, Christopher, musician (Oboe), XVII, *b* 727
- Dennett, John, inventor (Lifeboat), XIV, b 576
- Dennewitz, Baron (Bulow), IV, b 465
- ——, battle of, 1813 (Austria), III, b 117; (Jüterbogk), XIII, a 813
- Dennie, Joseph, journalist (Periodicals), XVIII, a 555
- DENNIS, John, critic, VII, b 82–3; (Pope), XIX, b 499, a 500
- Dennison, William, governor (United States), XXIII, a 822
- Denny, William, governor (Franklin, B.), IX, a 628
- DENON, Dominique Vivant, Baron de, artist, VII, a b 83; (Catacombs), V, b 187, a 188
- Denouncement of lands (Mexico), XVI, b 902; of mines (Mexico), a b 900
- Densities, electric, compared, VIII, b 21
- ——, table of (Hydrometer), XII, 574
- Density (Acoustics), I, a 96, a 99; (Alloy), b 517; (Gunpowder), XI, a b 286, b 294; (Magnetism), XV, a 228; (Mechanics), a 706
- ——, atmospheric (Pneumatics), XIX, b 252, a b 253; atomic (Chemistry), V, b 406–8; augmentation of (Elasticity), VII, b 690–1; defined (Hydromechanics), XII, b 455, b 456; determination of (Hydromechanics), b 457; (Hydrometer), a 568–75
- ——, earth's (Geology), X, a 198, *a* b 199; at Hindustan (Surveying), XXII, b 744
- —— of fluids (Capillary Action), V, a b 52, a 56; (Hydromechanics), XII, b 479–80; of gases (Hydromechanics), b 480; (Wurtz), XXIV, b 739; of molecules (Atom), III, b 37; ocean (Geology), X, b 197; oscillations of rock (Geology), a 231
- —— of planets (Geology), X, a b 191; of population (America), I, b 629; (Germany), X, b 410–2
- —— of saturated steam (Steam-Engine), XXII, a 506; of sea water (Pacific Ocean), XVIII, b 123–4; of snow (Meteorology), XVI, a 159; of the Sun, XXII, b 679; of water, maximum (Thermodynamics), XXIII, b 207–8
- —— theory of currents (Black Sea), III, a 694
- ——, unit of (Dimensions), VII, b 210
- Dent, Alfred, rajah of Gaya (Sabah), XXI, b 132
- ——, E. J., mechanician (Watch), XXIV, b 416, *a b* 417; (Clocks), VI, b 16, a 19, b 28, b 31, a 34
- Dent de Broc, Dent de Lys, Dent de Vüdetze, mountains (Freiburg), IX, b 670
- Dental bloodvessels (Anatomy), I, b 794; formulæ (Mammalia), XV, a b 356; nerves (Anatomy), I, *b* 774; rubber (India-Rubber), XII, b 883; system (Mammalia) (Ill.), XV, b 351–7
- Dentalium, genus (Mollusca) (Ill.), XVI, b 688
- Dentals or dental letters (Hieroglyphics), XI, b 712–13; (N.) XVII, a 165; (T.) XXIII, a 5
- Dentatus, Manius Curius, consul (Terni), XXIII, *a* 207
- *Dentelle, La*, Seguin's (Lace), XIV, a 192
- Dentellière machine (Lace), XIV, a 186, a 190
- Dentine (Digestive Organs) (Ill.), VII, a b 203, a 205, b 206; (Ivory), XIII, a 530–1; (Mammalia), XV, a b 352
- DENTISTRY, VII, b 83–7
    - dentition of man, b 84
    - diseases of teeth, b 84–5
    - education in, b 83–4, note
    - extraction, b 85–6
    - filling, a b 86
    - literature, b 87
    - mechanical, b 86–7
    - province of, a 87
    - teething, a b 84, b 85
    - treatment of teeth, b 85–6
- ——, rise of (Washington), XXIV, b 411 note
- Dentition (Digestive Organs), VII, a 202–7; (Elephant), VIII, b 116, b 117; (Horse) (Ill.), XII, b 176, a b 177, a 180, b 182–3; (Ichthyology), b 691, a b 692, a b 702, a b 705, a 706; (Ichthyosaurus), a 734; (Iguanodon), b 740; (Lemur), XIV, *a b* 441; (Mammoth) (Ill.), XV, a b 454–5; (Manatee), a b 464; (Mastodon) (Ill.), b 628–9; (Mole), XVI, b 632; (Sheep), XXI, b 820–1; (Shrew), a *b* 883–4; (Snakes) XXII, a 201; (Swine), *b* 810, *a* b 811, a *b* 812, *a* 813; (Throat Diseases), XXIII, a 341; (Vampire), XXIV, *b* 59; (Vole), a b 298; (Walrus), b 358; (Weasel), b 488
- —— of carnivora (Mammalia) (Ill.), XV, a 439–4; didelphia (Mammalia) (Ill.), a 381, *a* 382; elephas (Mammalia), b 430; glossophora (Mollusca) (Ill.), XVI, a–b 663; hyracoidea (Mammalia), XV, b 427–8; insectivora (Mammalia), a 357; pinnipedia (Mammalia) (Ill.), a *b* 449; proboscidea (Mammalia), b 428–9; sorex (Mammalia), (Ill.), a 407
- Denton, J. Bailey, sanitarian (Sewerage), XXI, a 747, note
- D'Entrecasteaux, J. A. Bruni, navigator. See ENTRECASTEAUX
- —— islands (New Guinea), XVII, a 396
- Denudation (Geology), X, a 331–2; of the Andes, II, a b 16; aqueous (Sahara), XXI, b 158; of land (Geology), X, a 239
- *De Nugis Curialium* (Map), XV, b 530, a 531
- Denver, city (Colorado), VI, *a b* 146; (United States), XXIII, b 856
- Deoband, town (Sahâranpur), XXI, *a* 160
- DEODAND, forfeiture, VII, b 87–8
- Deodanga, mountain (Ganjam), X, a 63
- Deodar cedar (Arboriculture), II, *a* 280; (Cedar), V, b 248; (Forests), IX, a 356; (India), XII, a 778
- Deodatus of Nevers, St., monk (St. Dié), XXI, b 170
- Deodorizers (Disinfectants), VII, b 224
- Deogan, god (Kâfiristân), XIII, a 832
- Deoghar, town (Santal Parganas), XXI, b 311
- Deôme river (Loire, Department), XIV, b 816
- Deonhully, siege of, 1749 (Hyder Ali), XII, a 443
- *De Opere Monachorum*, Augustine (Monachism), XVI, b 728
- Deo Prayâg, town (Ganges), X, a 62
- Deora Rajputs, race (Sirohi), XXII, a 106
- Deorâj, prince (Jáisalmir), XIII, a 555
- *Deor's Complaint* (English Literature), VIII, b 360
- Deparcieux, Antoine, mathematician (Hydrometer), XII, b 569
- Deparcieux's tables (Annuities), II, a b 68
- Department, political division (France), IX, b 450, *a* 529
- Departments, table of (France), IX, a 449–50
- Dependencies (Government), XI, a b 19
- Dephlegmation (Distillation), VII, b 230–1
- Dephlogisticated air (Lavoisier), XIV, a 354
- Depilation processes (Leather), XIV, b 383–4
- D'Épinay, Madame. See ÉPINAY
- *Dépit Amoureux*, comedy (Molière), XVI, b 649
- *De Plantis, Libri* (Cæsalpinus), IV, a b 562
- Deployment of armies (War), XXIV, b 372–3
- Depolarization (Electricity), VIII, a 83
- Deportation to Siberia (Prison Discipline), XIX, b 781–2, note
- Deposit banks (Banking), III, a 283
- *Depositio Martyrum* (Martyrology), XV, a 594
- Deposits (Harbors and Docks), XI, a 416; submarine (Pacific Ocean) (Ill.), XVIII, a 125–32; (Sea), XXI, a 606
- Depots, military (War), XXIV, b 373–4
- Depravity of man (Calvin), IV, a 637; (Edwards, J.), VII, b 598, a 599

Depreciation of bank notes (Banking), III, b 276-7; restriction of bank notes (Banking), a b 278, a 279. See Currency and MONEY
DEPRÈS, Josquin, or Desprès, Josse, composer, VII, b 88; (Music), XVII, b 90, b 91; (Palestrina), XVIII, a 185
Depression, land (Geology), X, a b 227-30, a 231
Depressor nerve (Physiology), XIX, b 34; fibres (Pathology), XVIII, a 409
De Prodigiis (Virgil), XXIV, a b 274
De Providentia (Philo), XVIII, b 777
DEPTFORD, town, VII, b 88-9; (Dockyards), a b 270; (London), XIV, *a* 827, a b 831, *b* 832, b 834; (Trinity House), XXIII, a b 611; bridge (London), XIV, *b* 832; dockyard (India), XII, b 837, b 838; market (London), XIV, b 837, a b 838
De Pulmonibus (Malpighi), XV, b 340, a 341
Depulsor, epithet (Jupiter), XIII, b 789
DE QUINCEY, Thomas, author, VII, a 89-91; (Middleton), XVI, a 295; (Watson), XXIV, b 433; (Wordsworth), b 704, *a* 711
Der'a, river (Morocco), XVI, b 858
DERÁ GHÁZI KHÁN, district and town, VII, a 91; (Punjab), XX, a 115
DERÁ ISMÁIL KHÁN, district and town, VII, b 91-2; (Punjab), XX, b 112, a 115, *a* 116
DERAJÁT, division, VII, a 92; (Afghânistân), I, a 204, b 206; (Punjab), XX, *b* 114, a 115
Deraya, town. See Dereyeh
Derbe, town (Lycaonia), XV, a 94
Derbend, pass of (Caspian Sea), V, b 154; (Khazars), XIV, *a* 62
DERBEND or Derbent, town, VII, a b 92; (Caspian Sea), V, b 156
——, town (Caucasus), V, b 222
——, town (Hissar), XII, *a* 5
DERBY, county (Plate II), VII, b 92-4
    antiquities, a b 94
    area and population, b 92
    bibliography, a 95
    communications, a 93
    geology and minerals, a 93-4
    industrial features, a 94
    physical features, b 92-3

DERBY, town (Plan), VII, b 94-5
——, earls of (Man), XV, b 461; (Ormskirk), XVII, b 880
——, Edward Smith Stanley, 13th earl of (Kiwi), XIV, b 106, a b 107
DERBY, Edward Geoffrey Smith Stanley, 14th earl of, statesman, VII, a 95-8
    birth and education, a 95
DERBY, *continued*
    first two governments of, 1852-9, a b 97
    Grey's administration, relations to, a 96-7
    Irish questions, attitude upon, a 96-7
    Lancashire relief, b 97-8
    last days and character of, a 98
    liberal parliamentary career, a 95-7
    literary career of, b 97
    Peel's cabinet, relation to, a 97
    third government of, 1866-8, a 98

—— (Parliament), XVIII, a 315
——, Henry Stanley, earl of (Shakespeare), XXI, a 793
——, James, Lord Strange, 7th earl of (Warrington), XXIV, a 395; (Wigan), XXIV, *b* 592
—— Haven (Man), XV, b 457
—— races (Epsom), VIII, b 440; (Horse), XII, *b* 188, *a* b 189, *b* 205, *b* 206, a 207
"——-ribs" (Hosiery), XII, a 313
—— ware (Pottery and Porcelain), XIX, a b 661, a 664
Derbyshire Coal-fields, VI, a 47, b 48-9, b 61
—— neck, disease (Goitre), X, a 658
De Rebus Ecclesiasticis (Walafrid Strabo), XXIV, a 341
De Rege et Regis Institutione (Mariana), XV, b 546
De Regnorum Successione (Jordanes), XIII, b 757-8
De Regulis Juris (Bulgarus), IV, a 463
De Relationibus Medicorum (Medical Jurisprudence), XV, b 793
Derelict (Wreck), XXIV, a *b* 722
De Republica, Cicero (Libraries), XIV, b 528; (Mai), XV, a 296
—— (Vida), XXIV, b 236
De Rerum Natura (Lucretius), XV, a 52, a 55-6; (Roman Literature), XX, b 740
De Re Rustica (Palladius), XVIII, b 192; (Varro), XXIV, b 101-2
De Retz, Cardinal. See RETZ
Dereveragh, Lough (Westmeath), XXIV, b 540, b 541
De revolutione parliamenti (Writ), XXIV, b 729
De Revolutionibus Orbium cœlestium (Galileo), X, b 30
DEREYEH or Deraya, town, VII, a 98; (Arabia), II, b 221, *a* b 228, a 229
Derg or Dearg, loughs or lakes (Donegal), VII, *b* 313; (Galway), X, a 51; (Tyrone), XXIII, b 759; river (Donegal), VII, b 313
DERHAM, William, theologian, VII, a b 98
De Ribas, Joseph, captain (Odessa), XVII, b 746
Derivative Curves, VI, b 637-8
Derketo, deity (Philistines), XVIII, b 770
Dermal bones (Anatomy), I, a 719; (Ichthyology), XII, a b 680; (Skeleton), XXII, b 114-7
Dermatemys, genus of Tortoise, XXIII, a b 486
Dermatine (Mineralogy), XVI, b 432
Dermatodectes, parasites (Veterinary Science), XXIV, b 223
Dermatogen (Botany), IV, a 82; (Histology), XII, a *b* 17
Dermatophyta and Dermatozoa, parasites (Veterinary Science), XXIV, *b* 223
Dermestidæ, beetles (Coleoptera) (Ill.), VI, b 114, b 118
Dermis, skin (Reptiles), XX, *b* 458
Dermoid cysts (Pathology) (Ill.), XVIII, b 378-9
Dermoptera, class (Mammalia), XV, a b 405
Deroot-esh-Shereef, town (Egypt), VII, b 672
Derrick (Crane), VI, a 485
Derrie, geological formations (Holland), XII, b 61
Derry, Ireland, town. See LONDONDERRY
Derryfield beef (Manchester), XV, a 473
Derrylough, lake (Longford), XIV, a 874
Dershavin, poet. See Derzhavin
Dertona, town (Tortona), XXIII, b 489
Dertosa, town (Tortosa), XXIII, a 490
Dervent, Karl, painter (Claude of Lorraine), V, b 711
DERVISH, VII, b 98-9; (Egypt), b 629; (Háfiz), XI, a 328, *a* 329; (Rumi), XXI, a b 65; (Seljuks), a 669; (Shi'ites), XXII, *b* 699; (Sunnites), a b 697, *b* 699; spinning (Iconium), XII, a 735
Derwent River (Cumberland), VI, *b* 616; (Derby), VII, a 93
Derwentwater, lake (Cumberland), VI, b 616, b 617-8
Derzhavin, Gabriel Romanovitch, poet (Ismail), XIII, a 398; (Poushkin), XIX, b 669; (Russia), XXI, b 114
Desaguadero, river (Andes), II, *a* 17; (Bolivia), IV, *b* 11-2; (Peru), XVIII, a 686
Desaguliers, Jean Théophile, physicist (Electricity), VIII, a 6; (Evaporation), *b* 639; (Freemasonry), IX, b 658, b 659; (Hydrometer), XII, a b 569; (Steam-Engine), XXII, *b* 491
Desain and La Provostaye's experiments (Radiation), XX, a 221, *a* 223
DESAIX DE VOYGOUX, Louis Charles Antoine, general, VII, b 99-100; (Austria), III, a 115
De Sapientia Veterum (Bacon), III, b 176, b 181
Desargues, Gaspard, geometer (Descartes), VII, b 103, b 105
Desargues's theorem (Geometry), X, a 334, b 352; (Projection), XIX, a b 815
DESAUGIERS, Marc Antoine Madeleine, dramatist, VII, a 100
DESAULT, Pierre Joseph, surgeon, VII, a b 100; (Bichat), III, b 574, a 575; (Surgery), XXII, a *b* 711
De Sauty's capacity test (Telegraph), XXIII, b 126
Desbarres, Joseph F., governor (Surveys), XXII, b 938
Descabezado, mountain (Chili), V, b 535
Descalzos or Discalceati, religious order (Theresa), XXIII, a b 302. See CARMELITES
Descant (Music), XVII, b 88, b 89
Descartes, Joachim, counsellor, VII, b 100
DESCARTES, René, philosopher, VII, b 100-11
    bibliography, a 111
    Cartesianism, spread of, b 109-11
    God, his theory of being of, b 106-7
    Holland, studious life in, b 101-2
    mathematical method of, a b 105
    mental characteristics, b 102
    method of universal science, b 105-6
    methods of working, a b 103
    optical theories of, a b 108
    organic life, theories of, b 108-9
    parentage and minority of, b 100-1
    personal features, a 105
    physical theories of, a 107-8
    psychology, a b 109
    Stockholm period, b 104
    theological opposition, a b 110
    travels, early, b 101
    treatises of, composition of, a b 104
    Utrecht, Cartesianism at, b 103-4
    vocation determined, b 101
    volunteer-soldier period, a b 101
    vortex theory of, b 107-8

—— (Algebra), I, a b 454; (Atom), III, a 34, a 35; (Axioms), b 138; (Berkeley), b 508, *a* 509, a 510; (Cartesianism), V, a 125-30; (Clauberg), a 711; (Collier), VI, *b* 129, (Condillac), a b 222; (Cudworth), b 610; (Curve), b 632; (Ethics), VIII, a 535; (Evolution), b 654-5, a 656, b 664; (Fontenelle), IX, b 319; (France), a b 581; (Gassendi), X, a *b* 96; (Geometry), a 334; (Harvey), XI, a 451; (Hobbes), XII, b 36, *a* 37; (Infinitesimal Calculus), XIII, a b 8; (Leibnitz), XIV, a 422; (Light), a 594, b 601, b 602; (Metaphysic), XVI, b 92, a 97, b 105; (Pascal) XVIII, a b 339, a 340, b 341, a 342; (Roberval), XX, a 617; (Spinoza), XXII, b 415, b 416, note, a 417; (Squaring the Circle), a b 452; (Theism), XXIII, b 263, note
——, folium of (Infinitesimal Calculus), XIII, a 56

Descartes' experiment (Vascular System), XXIV, a 112
—— rule of signs (Algebra), I, a 481
Descent, law of (Inheritance), XIII, a b 84–5; tribal rules of (Totemism), XXIII, b 503–4
——, theory of (Hybridism), XII, b 437–9, a b 440; with modification (Treviranus), XXIII, b 588. See EVOLUTION
Descent from the Cross, painting (Rubens), XXI, a b 48
Descent of Man, Darwin (Mammalia), XV, a 371; (Variation and Selection), XXIV, a 88, a 89
—— from totems, belief in (Totemism), XXIII, a 497
DESCHAMPS, Eustache, or Morel, poet, VII, a b 111; (France), IX, *a* 567; (Transverse Flute), XXIII, b 552
Deschapelles, Alexander Louis Honoré Lebreton (Chess), V, b 522
Deschatre, Abbé, tutor (Dudevant), VII, a 439
Deschneff, Simon. See Deshneff.
Des Chutes, river (Oregon), XVII, b 845, a 846, *b* 847
Descloizeaux, mineralogist (Crystallography), VI, a b 598; (Opal), XVII, a b 799
Descloizeaux's polariscope (Ill.) (Mineralogy), XVI, a 389
Descloizite (Mineralogy), XVI, a 423
Descort, song (Provençal Literature), XIX, b 900
Descriptive Geometry, X, b 368
Descriptive Sketches (Wordsworth), XXIV, a 704
De sedibus et causis Morborum (Morgagni), XVI, a 849
Desenzano, town (Garda), X, *b* 68
Deseret, state (Mormons), XVI, b 853
Désert (David, F.C.), VI, a 741
Desert, Aral-Caspian (Russia), XXI, a 74; Great African (Sahara), a 157–60; Great Indian (Jáisalmir), XIII, b 554. See Deserts
—— lands, U. S. (Homestead), XII, a 127; sandstone (Queensland), XX, a 179; Snakes, XXII, a b 203, a 210
Desertas, islands (Madeira), XV, b 177, b 180, b 182
Deserted Village, Goldsmith (Goethe), X, b 646; (Goldsmith), b 678–9
Desertion (Divorce), VII, b 261, a 262, b 263; (Women), XXIV, a 676
——, military (England), VIII, a 222
Deserts (Arabia), II, a 208, a b 209, a 213; (Egypt), VII, b 610–11, a 680; (Kirmán), XIV, b 101, a 102; of Chili and Peru (America), I, b 625, a 626; (Peru), XVIII, b 683; (Turkestan), XXIII, a 679
——, dunes of the (Geology), X, b 236
Desèze, Raymond, count, advocate (Malesherbes), XV, a 336
Desful, town (Dizful), VII, b 265
Desfontaines, Pierre François Guizot, Abbé, critic (Periodicals), XVIII, b 550; (Thou), XXIII, b 336; (Voltaire), XXIV, a b 308
DESFONTAINES, René Louiche, botanist, VII, b 111–12
Desgodins, C. H., missioner (Tibet), XXIII, b 359, b 362, b 363, a b 370
Desgoffe's manometer (Ill.), XV, a 503
Desingaçadores, machines (Wine), XXIV, b 640
Deshayes, naturalist (Teredo), XXIII, *b* 201, b 202
Deshneff, Simon, explorer (Geography), X, b 170; (Polar Regions), XIX, b 330
DESHOULIÈRES, Antoinette du Ligier de la Garde, poetess, VII, a b 112; (Racine), XX, a 214
Desiccation of living matter (Biology), III, a 588; of spores (Schizomycetes), XXI, a 424
—— of lands (Turkestan), XXIII, b 674–5, a 679; (Volga), XXIV, a 300
Desideri, Ipolito, missionary (Lhasa), XIV, a 497, a 498, b 499 note, a b 500, b 501, b 502, a 503
DESIDERIO DA SETTIGNANO, sculptor, VII, b 112
Desiderius or Didier of Lombardy, king (Lombards), XIV, a 825; (Romance), XX, b 668–9
Design, schools of (Paris), XVIII, b 286; (Technical Education), XXIII, *a* 114–7
Designing guns (Gunmaking), XI, a 259–61
—— harbors (Harbors and Docks) (Ill.), XI, b 412, b 417
—— ships (Shipbuilding), XXI, b 856
Designs, industrial (Copyright), VI, a b 323, b 324
—— for Plate, XIX, b 198
—— preparation of (Mathematical Drawing and Modelling), XV, b 635
Desima, island (Nagasaki), XVII, b 170
De Simplicibus (Medicine), XV, a 815
Désirade, island (Guadeloupe), XI, b 203
Desire, Spinoza on (Cartesianism), V, b 138, a 139; theory of (Psychology), XX, b 78–9
De Slane, orientalist (Tabarí), XXIII, b 8, a 9
Deslongchamps, E., naturalist (Brachiopoda), IV, b 171, b 172, a 173, a 176
Desmacidonidæ, family (Sponges), XXII, b 439, a 445
Desmacytes, cells (Sponges) (Ill.), XXII, a 435, a 436
Desman, mole (Mammalia), XV, a 351; (Pyrénées), XX, a 132
Desmarest, Anselme, naturalist (Ornithology), XVIII, a 15
Desmarestieæ, family (Vegetable Kingdom), XXIV, *a* 138
Desmarest's *Théorie des Nombres* (Tables), XXIII, a 18
Desmobrya (Ferns), IX, b 90
Desmodactyli, group of birds (Ornithology), XVIII, a 44, a 45, a 51
Desmodontes, order (Mammalia), XV, *a* 412, b 414, b 418, a 420
Desmodus, mammal (Vampire), XXIV, *a* b 59
Desmognathæ, birds (Ornithology), XVIII, b 38, a 39
Desmognathous skull (Birds), III, b 616–9
DES MOINES, Iowa, city, VII, b 112
Desmond, earls of (Ireland), XIII, b 225, a *b* 267, a 268, a 270–1
——, Gerald Fitzgerald, 15th earl of (Cork), VI, a 359
—— estates (Kerry), XIV, a 54
Desmothoraca (Protozoa), XIX, b 867
DESMOULINS, Lucie Simplice Camille Benoist, politician, VII, b 112–4; (Cordeliers), VI, b 345; (Danton), b 718, b 719; (Newspapers), XVII, b 435, b 436; (Robespierre), XX, a 617, a b 619, *a* 620; (Saint-Just), XXI, b 185
——, Roger, grand-master (St. John of Jerusalem), XXI, a 183
Desmidieæ, plants (Diatomaceæ), VII, b 147–8; (Reproduction), XX, a 438, a 440
Des Murs, naturalist (Ornithology), XVIII, a 17, a 36
Desna, river (Orel), XVII, b 849, a 850; (Russia), XXI, a 81; (Tchernigoff), XXIII, *a* 103
Desolation Island (Kerguelen's Land), XIV, b 50–1
—— Land (Tierra del Fuego), XXIII, a 410
DE SOTO, Ferdinando or Hernando, explorer, VII, a b 114; (Florida), IX, a 298; (Hakluyt), XI, b 338
Despatches (Ambassador), I, b 578, a 579; (Contraband), VI, a 286
Despeñaperros, pass (Spain), XXII, a 308
Despenser, Hugh, favorite (Edward II.), VII, *a* 593; (Piracy), XIX, a 126
Des Periers, Bonaventure, writer (France), IX, *b* 574, a 576; (Marguerite de Valois), XV, *b* 545
Despoir bay (Newfoundland), XVII, a 392
Desportes, Philippe, Abbé, poet (Regnier), XX, *b* 360
Despotism (Government), XI, b 11, b 13; (Italy), XIII, a 487–91
Despotisme, Essai sur le (Mirabeau), XVI, *b* 516
Desprès of Hainault, Josse. See DEPRÈS
Desquamation (Scarlet Fever), XXI, b 393, a b 394
Dessa, village (Java), XIII, b 615
DESSAIX, Joseph Marie, count, general, VII, b 114
Dessalines, Jean Jacques, emperor (Hayti), XI, *a* 487
DESSAU, town, VII, b 114–5; (Anhalt), II, *a b* 43
Dessler, Wolfgang C., poet (Hymns), XII, b 622
Dessoubre, river (Jura), XIII, *b* 791
De statu Imperii Germanici (Pufendorf), XX, a b 105
D'Este, family. See Este
DESTERRO, city, VII, a 115
Destinées, Les, poem (Vigny), XXIV, a 244
Destiny. See Fate and Fatalism
Destouches, Philippe Héricault, dramatist (Drama), VII, b 368, note; (France), IX, b 585
D'Estrées, abbess (Arnauld), II, b 543
Destruction of the Armada, painting (De Loutherbourg), VII, a 47
—— *of the Philosophers*, treatise (Al-Gazali), I, b 450
Destructiveness, organ of (Phrenology), XVIII, a 859
Destutt de Tracy, A. L. C. See TRACY
De Subtilitate Rerum (Cardan), V, a 81, a 82
Desuetude, invalidation by (Statute), XXII, a 488
Deswáli Játs, tribe (Dholpur), VII, a 127
De Synodis (Hilarius), XI, b 726
Detachable drop cut-off (Steam-Engine), XXII, b 921
Detached escapement (Clocks) (Ill.), VI, b 19–20; (Watch) (Ill.), XXIV, b 417, a b 418–9
Detachment Court-martial, VI, a 460
Detainer, right of (Lien), XIV, a b 573
Detectives (Police), XIX, b 349, b 354
Detectors in Locks, XIV, b 752–53, b 756
Determinants (Algebra), I, b 455; (Jacobi), XIII, b 548; (Numbers), XVII, b 634–6, a 639; theory of (Spottiswood), XXII, b 448–9
Determination of Time, XXIII, a 419–23
Determinatives (Hieroglyphics), XI, b 716–8
Determinism (Hobbes), XII, b 38; (Scholasticism), XXI, a 447. See FATALISM
De Thou, Jacques Auguste, historian. See THOU
DETMOLD, town, VII, a 115; (Lippe), XIV, b 689
Detonation (Blasting), III, a b 702, note; (Explosives), VIII, a 708–9; (Gun-Cotton), XI, a 246
De Tranquillitate Animi (Volusenus), XXIV, b 316, a 317
De Trinitate (Hilarius), XI, b 726
Detritus, agency of (Geology), X, a 333; deposition of sea (Geology), a 255–6; glacial (Geology), b 249–50; transportation of river (Geology), b 243–4; of sea (Geology), b 254–5
DETROIT, Michigan, city (Plan), VII, a 115–6; siege

DETROIT, *continued*
of (Pontiac), XIX, b 923; river (St. Lawrence), XXI, *a* 188; Tunnel, XXIII, b 663
Detsud-gan, king (Tibet), XXIII, b 367
Dettingen, battle of, 1743 (France), IX, b 516
DEUCALION, legendary hero, VII, a 116
Deucalionia (Hellanicus), XI, a 566
Deule, river (Lille), XIV, a *b* 648
Deus, João de, poet (Portugal), XIX, b 573
Deuterius of Caria, bishop (Syriac Literature), XXII, b 876
Deuteronomic reformation (Israel), XIII, b 425-6
Deuteronomy (Bible), III, a b 551; (Decalogue), VII, b 15, *a b* 16; (Hebrew Language and Literature), XI, a 535; (Israel), XIII, a 412, b 425-6, a 428-9; (Josiah), a 763; (Passover), XVIII, a 349; (Prophet), XIX, a 841, b 842; (Tabernacles, Feast of), XXIII, a b 10; (Tithes), a b 438
——, date of (Pentateuch), XVIII, a b 516, b 517, b 518, a b 520, b 524; laws of (Bible), III, a b 551; narrative in (Pentateuch), XVIII, b 523
DEUTSCH, Emanuel Oscar Menahem, orientalist, VII, a b 116
Deutsch, signification of (Germany), X, a 425, a 435, a b 461
Deutsche Allgemeine Zeitung (Newspapers), XVII, a 440
—— *Entartung* (Goltz), X, a 684
—— *Grammatik* (Grammar), XI, b 178, a b 179
—— *Hausmärchen* (Ethnography), VIII, a 548
—— *Mercur*, periodical (Wieland), XXIV, b 590
—— *Theologie* (Mysticism), XVII, *a* 141, b 142
—— *Zeitung* (Gervinus), X, a 494
Deutschgesinnte Gesellschaft (Germany), X, a 475
DEUTSCHKRONE, town, VII, b 116
Deutschland und die Revolution (Görres), X, b 699
DEUTZ, town, VII, b 116; (Cologne), VI, *a* b 136
Deux Journées, Les, opera (Cherubini), V, b 510
DEUX PONTS, town, VII, b 116
Deux Sèvres, department, XXI, a b 743
Deva, deities (Brahmanism), IV, b 183; (Zoroaster), XXIV, b 860, *a* 861
Devaddhiganin, canonist (Jains), XIII, b 553
Deval river (Macedonia), XV, a 138
Deva-Nágari or nâgarî, script (Sanskrit), XXI, b 285; alphabet (India), XII, b 813
DEVAPRAYAGA, town, VII, b 116
Devaráy-durga hills (Tumkur), XXIII, b 644
"Devastation," H. M. ship (Ship-building), XXI, a 850, a 856
Devastavit, offence (Waste), XXIV, a 415
Devatâ-dhyâya (Sanskrit), XXI, a 291
De Vaux, Clotilde (Comte), VI, b 207, a 212
Developables or torses (Surface), XXII, *b* 702-4, b 706
Development, animal (Biology), III, b 589, a b 590, b 593; (Metaphysic), XVI, b 97; (Vertebrata), XXIV, a 193-203; (Zoology), a b 840. See EVOLUTION
——, embryonic (Biology), III, a 597; (Mollusca) (Ill.), XVI, b 660, b 661, a b 677, b 684, a 687, a 688, b 708, a b 709, a 720, b 721; (Nemertines), XVII, a b 340; (Tape Worms) (Ill.), XXIII, a 57-8; (Trematoda)(Ill.), b 571-2, a b 574; of turbellarians (Planarians), XIX, b 184
—— in human body, bone (Anatomy), I, b 750-2; cartilage, b 748; cerebro-spinal system, b 757-8; connective tissue, b 746-7; ear, a b 786; eye, a 782; hair, a b 789; muscles, a 739, b 753; nerve tissue, b 757; skeleton, a 728-30; vascular system, a 797-8
—— of culture (Anthropology), II, a b 107
—— of language (Philology), XVIII, b 784-5
—— of plates in Photography, XVIII, b 842-3
—— of species, fossil (Geology), X, a b 286
——, theories (Azais), III, b 144; (Evolution), VIII, a 659-76; (Lamarck), XIV, b 232-3; (Zoology), XXIV, a b 840
DEVENTER or Demter, town, VII, b 116-7; (Holland), XII, a 67, b 70; (Overyssel), XVIII, b 81; school (Kempis), XIV, a b 33; (Wessel), XXIV, *b* 532
De Vera Obedientia (Gardiner), X, b 69, a 70
Devereaux, Captain, assassin (Wallenstein), XXIV, b 350
Devereux, family. See Essex, Earls of
Devergie, Marie Guillaume Alphonse, physician (Drowning), VII, *a* 410
De Veritate (Herbert, Lord), XI, b 645-6
De Veritate Rerum (Cardan), V, a 81, a 82
Devî, Hindu goddess (Thugs), XXIII, a 348
Deviation, angles of (Optics), XVII, b 823, a 825, a 826, of compass (Magnetism), XV, b 252-4; formulæ (Magnetism), a 253
"Deviations" in development (Pathology), XVIII, b 367
De Vi attractiva Ignis Electrici (Volta), XXIV, b 304
Devigne, Henrique, artist (Billiards), III, b 582
DE VIGNY, Alfred Victor, Count, poet, VII, a b 117. See also VIGNY, by Saintsbury, XXIV, a 243-4
DEVIL, The, VII, b 117-9; (Girgenti), X, b 555; lawfulness of denying (Heresy), XI, b 659; origin of mediæval (Babylonia), III, b 167; Tasmanian, XXIII, b 80
DEVIL FISH or Sea Devil, VII, b 119; (Ichthyology), XII, b 724; (Ray), XX, b 312-3
—— machine (Wool), XXIV, a 696
De Ville, Antoine, engineer (Fortification), IX, b 389
Deville, E. H. Ste. Claire. See SAINTE CLAIRE DEVILLE
—— and Debray process (Platinum), XIX, a b 202
—— and Troost's Pyrometer, XX, a b 137, a 138, b 140
Deville's air thermometer (Heat), XI, b 508; method (Manganese), XV, a b 487; portable Furnace, IX, b 744
Devil's advocate (Canonization), V, a 22
—— arrows, monoliths (York), XXIV, a 786
—— Bit, mountains (Tipperary), XXIII, b 432
—— coach-horse, beetle (Coleoptera), VI, b 118
—— darning-needles, insects (Dragon-fly), VII, b 33
—— Ditch (Newmarket), XVII, b 409
—— Dyke (Kirkcudbright), XIV, b 100; hill (Sussex), XXII, a 761, a 763
—— Glen (Wicklow), XXIV, *a* 588
—— Inkstand (South Australia), XXII, a 298
—— Punchbowl, lake (Kerry), XIV, a 53
—— Tower (United States), XXIII, a 848
Devil-wood (Olive), XVII, b 784
Devîmâhtâmya (Sanskrit), XXI, a 297
Devin du Village (Rousseau), XXI, b 30, note
De Visionibus Wettini (Walafrid Strabo), XXIV, b 341
De Vita Contemplativa (Monachism), XVI, a 725; (Philo), XVIII, b 773, b 777
De Vita Propria (Cardan), V, b 81, a 82
Devitrification (Glass), X, a 584
DEVIZES, borough and town, VII, b 119-20; (Wilts), XXIV, *a b* 626, a 627
Devno, Lake (Varna), XXIV, b 98
De Voluptate (Valla), XXIV, b 48
Devolution, law of (Spain), XXII, a 347
—— war (France), IX, a b 507; (Louvois), XV, b 28
Devon cattle, North (Agriculture), I, b 344
Devon Commission Digest (Ireland), XIII, b 226, b 248
Devon, Great Consols Mines (Devonshire), VII, b 121
—— hounds (Hunting), XII, b 409-10
—— rivers (Clackmannan), V, a 697
Devonian Corals, VI, b 336, a *b* 337, a 341, a 343
—— fauna (Distribution), VII, a 245, 246, *a* b 247
—— rock system, North America, I, b 596-7; (Devonshire), VII, a 121; (Geology), X, b 301-3, a b 306; (Germany), a 402, a 403; (Greenland), XI, b 149; (Russia), XXI, b 81
DEVONPORT, borough, VII, a b 120; Dockyard, 275
DEVONSHIRE, county (Plate III), VII, b 120-3
  antiquities, b 122-3
  area and aspects of, b 120
  bibliography, b 123
  climate, b 121-2
  communications, a 123
  dialect of, a 123
  ecclesiastical and political features, a 123
  geology, a 121
  history, b 122
  industrial features, a 122
  minerals, b 121
  people, distribution of, a 122, a b 123
  streams, b 120-1
—— (Coal), VI, a b 52; (Dairy), b 679
—— Emerald, VIII, b 156; enclosures (Agriculture), I, b 275
——, dukes of (Cavendish, Sir William), V, b 237; (Chatsworth), a b 385
——, Edward Courtney, earl of (England), VIII, b 304
——, William Cavendish, 1st earl (Hobbes), XII, a 34, *a* 35
——, William Cavendish, 3d earl of (Hobbes), XII, a 35, *a* 38, note
DEVONSHIRE, William Cavendish, 4th earl, 1st duke of, VII, b 123-4; (Cibber), V, *b* 672
——, seal of earls of (Griffin), XI, a 174
Devorgilla's Bridge (Dumfries, Town), VII, *a* 456
Devoti Musica Cordis (Hymns), XII, b 621
Devoy, John, Fenian (Ireland), XIII, b 277
Devr, rite (Dervish), VII, a 99
De Vulgari Eloquio (Provençal Language), XIX, b 893
Dew (Adam), I, a b 126; (Meteorology), XVI, b 125
Dewar, James, physicist (Spectroscopy), XXII, *b* 389, *a* b 390, *a* 391, a 393, *a* 394
DEWBERRY, VII, a 124
Dew-claw (Mammalia), XV, b 444, note
D'EWES, Sir Simonds, antiquarian, VII, a b 124
DE WETTE, Wilhelm Martin Leberecht, critic and theologian, VII, b 124-5; (Bleek), III, b 715, a 716; (Gospels), X, b 747, a 749; (Hegel), XI, a 550; (Israel), XIII, b 441; (Job), b 711-2; (Pentateuch), XVIII, a b 516, b 518
Dewey, Melville, librarian (Libraries), XIV, a b 538, note
Dewie Srie, goddess (Java), XIII, b 613
DE WINTER, Jan Willem, admiral, VII, a 125
DE WITT, Cornelius, statesman, VII, a 125, a 126; (France), IX, a b 508
——, Madame Guizot, authoress (Guizot), XI, a b 241
DE WITT, John, statesman, VII, a 125-6; (Annuities), II, b 69-70; (France), IX, a b 508; (William III.), XXIV, *a* b 610

Dewlaps (Lizard), XIV, a b 742
Dew-point (Hygrometry), XII, b 604, a b 605
DEWSBURY, town, VII, a 126; (York), XXIV, b 785, *a* 786
Dexamenus of Chios, engraver (Gems), X, b 124
Dexippus, Publius Herennius, historian (Goths), X, a 754; (Greece), XI, b 98
"Dexter" (Horse), XII, b 208, a b 209
—— cattle (Ireland), XIII, b 231; (Kerry), XIV, b 53
DEXTRIN or British gum, VII, a b 126; (Coal), VI, a b 46
Dextrose (Chemistry), V, a 490; (Sugar), XXII, *a* b 656
Dey, ruler (Tunis), XXIII, a 661
Deyrsimlis, tribe (Kurdistan), XIV, b 157, b 158, b 159, a 161
Deyverdun, George (Gibbon), X, a 516, a *b* 517, a 518
Dhahabí, historian (Tabarí), XXIII, a 9
Dháhir bi-lláh Abu-l-Hasan 'Alee, edh, caliph (Egypt), VII, b 651
——, sheykh of Acre (Egypt), VII, b 658, a 659
Dhaleswarí, river (Dacca), VI, *a* 667; (Sylhet), XXII, b 848
Dhalíp Singh, Dhulip Sinh, or Dhuleep Singh, maharajah (India), XII, b 847, a 848; (Punjab), XX, *a* 118
Dhamma, doctrine (Lamaism), XIV, b 227
Dhammapada, Path to Virtue (Buddhism), IV, a 390, b 392; (Pâli), XVIII, b 187, a 189
Dhammasat, code (Burmah), IV, a b 494
Dhámrá, river (Balasor), III, b 235; (Cattack), V, b 211
Dhananjaya, rhetorician (Sanskrit), XXI, b 308
Dhanaura, town (Murádábád), XVII, b 39
Dhaola-dhár, range (Himalayá), XI, b 736, a 738
DHAR, state, VII, b 126
Dharm Raja, religious chief (Bhután), III, *b* 546, a 547
Dharma-sástras, laws (India), XII, a *b* 822
Dharma sûtras (Sanskrit), XXI, a 288, b 292, note, b 301–2
Dharmsala, town (Punjab), XX, a 114
DHÁRWÁR, district, VII, b 126–7; (Bombay), IV, b 21, *a* 22, b 23
Dhaulaishvaram, village (Godávari), X, *b* 636
Dháva Rájá (Delhi), VII, a 43
Dháwalagiri mountain (Himalaya), XI, a 737
Dhayas, swamps (Timbuktu), XXIII, a 418
Dhe, tribe (India), XII, b 828
Dhebar lake (Udalpur), XXIII, a 763
Dhenros (Fibres, Textile), IX, a 116
Dhián Singh (Punjab), XX, *a* 118
Dhole or wild-dog (India), XII, b 779
Dholká, town (Ahmadábád), I, *a* 375
DHOLPUR, state, VII, a 127
Dhritarashtra, king (Sanskrit), XXI, b 294, a 295
Dhu Heartach lighthouse (Harbors and Docks), XI, a 412, note; (Lighthouse) (Plate VII), XIV, *b* 621, a 622, a 623
Dhuán-dhar, falls (Jabalpur), XIII, b 538
Dhubri, town (Goálpára), X, *a* 631
Dhuis, river (Marne), XV, a 568
Dhulip Sinh, or Dhuleep Singh, maharajah. See Dhalíp Singh
Dhú Nuwás, Aksumite king, (Yemen), XXIV, b 776, b 777, b 778
—— Samai, god (Yemen), XXIV, a b 778
Dhyāni Buddhas (Buddhism), IV, a 392; (Lāmāism), XIV, b 228
Diabase, rock (Geology), X, a 210, b 274
DIABETES, disease, VII, a 127–8; (Dietetics), a 180; (Nutrition), XVII, b 700–1; (Pathology), XVIII, a 394–5
Diable Boiteux (Le Sage), XIV, b 472, b 473, a 474
Diablerets, mountain (Vaud), XXIV, b 125
Diablo, Monte (California), IV, a 618; (United States), XXIII, b 851, a 852
Diablotin, bird (Guacharo), XI, b 201, note
Diabolism (Lycanthropy), XV, b 90–2
Diachæta (Worm), XXIV, a 716
Diachea (Protozoa), XIX, a 863
Diacid base defined (Lead), XIV, b 378
Diacreis or Diacrioi, faction (Pisistratus), XIX, b 139 note, a 140; (Greece), XI, *b* 87
Diadem (Crown), VI, b 546
Diademas, moths (Butterfly), IV, a 528
Diadochite (Mineralogy), XVI, a 425
Diadumenos of Polycletus (Archæology) (Ill.), II, b 312; (Terra-Cotta), XXIII, b 209
Diagnosis (Medicine), XV, b 810, b 813
Diagonal engines (Steam-Engine), XXII, a 543
DIAGORAS of Melos, poet, VII, b 128
—— of Rhodes, king (Games), X, b 59
DIAGRAMS (Ill.), VII, b 128–32
  automatic, b 131
  classes of, b 128–9
  indicator, b 131–2
  kinematics, a 129–30
  reciprocal (Ill.), a b 131
  stress, a 130–1
—— of bending moment (Strength of Materials), XXII, a b 636; shearing force (Strength of Materials) (Ill.), a b 636; stress-strain (Strength of Materials) (Ill.), a b 627, b 633–4, a b 635–6
Diagrydion, drug (Scammony), XXI, a 381 note
Diakovar, town (Croatia), VI, *b* 523
Dial, The, magazine (American Literature), I, b 639; (American Journalism), XVII, a 892; (Ossoli), XVIII, b 60; (Periodicals), b 555; (Ripley), XX, a 582
Dialect. See Dialects
—— poetry, mediæval (Italy), XIII, b 509–10
Dialectic, method of reasoning (Logic), XIV, b 792, b 793, a b 794, a 796, a b 812; (Herbart), XI, a 642; (Zeno), XXIV, a 817; of Fichte (Category), V, a 196; of Hegel, XI, b 552; (Metaphysic), XVI, a 107; mediæval (Scholasticism), XXI, a 436, a 439; of Socrates (Plato), XIX, a 207; (Socrates), XXII, b 248–9
Dialectic, Kant (Metaphysic), XVI, b 88, a 89, b 91, a 92
Dialectic period (Mythology), XVII, b 145, b 147
——, Triads of Boehme, III, b 741
Dialecticians, Greek (Sophists), XXII, b 279, a 283
Dialectics, Greek (Aristotle), II, a 454–5
Dialects (Philology), XVIII, a 792, a b 793, b 794, a 800; variations of (Philology), a b 789–90, a 800
——, African (Gold Coast), X, a 673
——, Arabic (Arabia), II, b 220–1
—— Celtic (Celtic Language), V, b 258–60, b 261; (Gaelic), X, a 9
——, Danish (Scandinavian Languages), XXI, b 389; Dyak (Borneo), IV, b 52
——, English (Dorset), VII, b 322; (Northumberland), XVII, b 580, b 582; (Scotland), XXI, *a* 498; (Sussex), XXII, b 763
——, French, Agen (Jasmin), XIII, b 604; (Channel Islands), V, 340
——, German (Germany), X, b 462–7
——, Greek (Greece), XI, b 96, b 117–20, a 122; (Homer), XII, a b 117, a b 125; modern (Greece), XI, a b 132, b 136
—— (Holland), XII, b 67, a 89–93; (Hottentots), a 326; (Houssa), a 332
——, Icelandic (Scandinavian Languages), XXI, a 384, *a* 385
—— (Indian Archipelago), XII, b 857; (India), a 817–8
—— (Italy), XIII, b 501–9, a 517
—— (Japan), XIII, b 595–6
——, Latin (Præneste), XIX, b 674, note; (Romance Languages), XX, b 678–9
——, Norwegian (Scandinavian Languages), XXI, a 386
——, Romani (Gipsies), X, b 547–8
——, Ancient Scandinavian, XXI, b 390–1
——, Spanish, Castilian (Spain), XXII, b 364, b 366
——, Swedish (Scandinavian Languages), XXI, b 387–8
Diallage, mineral (Geology), X, a 203, a 210; (Mineralogy), XVI, a 434
DIALLING (Ill.), VII, a 132–40
  card (Ill.), b 138–40
  classes of, b 133
  construction (Ill.), b 133–4
  cylinder (Ill.), a b 138
  equatorial (Ill.), a 136
  general principles, a b 133
  history, a 132–3
  horizontal (Ill.), a 134–5
  inclining, b 135–6
  meridian plane, a 136–7
  portable, b 137–8
  style, placing, a b 136, a 137
  vertical south (Ill.), a b 135
  writers on, a 140
Dialoghi delle Nuove Scienze (Galileo), X, b 31
Dialogite (Mineralogy), XVI, b 414
Dialogo dei due Massimi Sistemi del Mondo (Galileo), X, a b 31, a 32
—— *de Mercurio y Caron* (Valdez), XXIV, a b 38
Dialogue (Lucian), XV, b 44; Greek (Drama), VII, b 349–50
Dialogues (Aristotle), II, b 450, *a* 451; (Gregory I.), XI, *a* 157; (Plato), XIX, b 207–22
—— *of the Dead* (Lucian), XV, b 44
—— *sur le commerce des blés* (Galiani), X, b 10; (Political Economy), XIX, a 375
Dialogus Physicus (Hobbes), XII, a 40
—— *de Scaccario* (England), VIII, b 276
Dials (Clocks), VI, a 14, a b 25, b 30–1; (Lapidary) (Ill.), XIV, b 299
Dialysis (Diffusion), VII, a 189; (Sugar), XXII, b 659
Dialytic telescopes (Telescopic Work), XXIII, a 934 note
Dialyzed iron (Iron, Therapeutics of), XIII, b 370; silica (Chemistry), V, a 453
Dialyzing air (Chemistry), V, b 416
Diamagnetic metals (Magnetism), XV, a 265; polarity (Magnetism), b 268–9
Diamagnetism (Faraday, M.), IX, a 28–9; (Flame), a 249; (Magnetism), XV, b 264
DIAMANTE, Fra, painter, VII, a 140
Diamantina, district (Queensland), XX, b 178
DIAMANTINA, town, VII, b 140; (Brazil), IV, *b* 201, b 212
DIAMANTINO, town, VII, b 140
Diameter (Conic Sections), VI, b 242, *b* 244, *a b* 247, a b 251; (Geometry) (Ill.), X, b 358–60
Diamines (Chemistry), V, b 500–1
DIAMOND (Ill.), VII, b 140–4
  chemical character, b 141
  economic uses, b 144

Diamond, *continued*
  history, b 140
  literature of, b 144
  origin, b 142
  ornamental use (Ill.), b 142–4
  physical character (Ill.), a b 141
  remarkable specimens, a b 144
  sources of, b 141–2
—— (Carbon), V, *a* b 77; (Hand-Tools), XI, b 392; (Mineralogy) (Ill.), XVI, a 363, a 364, a 366, a 368, b 378, a b 383, a 387, b 390, a 391, a 393, a 394, a 396–7; (Mining), b 475, b 491, b 493
——, Cape (Quebec), XX, b 174; (St. Lawrence), XXI, b 190
——, combustion of (Davy), VI, a 745
—— cutting (Lapidary) (Ill.), XIV, b 298–300
—— drills (Mining) (Ill.), XVI, b 463
—— fields (Africa), I, a 223, a 226, a 242; (Orange River Free State), XVII, a 837
—— head-dress (Costume), VI, a 417; knot (Seamanship) (Ill.), XXI, b 620; lens (Microscope), XVI, a 270
—— mines (Bahia), III, b 206; (Ballari), a 248; (Brazil), IV, b 201, b 207; (Bundelkhand), a 466; (Cape Colony), V, b 38, a 45; (Chutiá Nágpur), b 671, a 672; (Golconda), X, a 659; (Griqualand West), XI, a 182; (India), XII, a 805; (Panna), XVIII, a 217. See Diamond Fields
—— necklace (Marie Antoinette), XV, a 547; (Rohan), XX, b 638–9
—— peak (Oregon), XVII, b 845
——, Pitt (Chatham), V, a 381
—— synthesis (Wöhler), XXIV, b 660
—— type (Typography), XXIII, b 743
Diana, goddess, VII, b 144–5; (Artemis), II, a 562–3; (Bubastis), IV, *b* 366; (Ephesus), VIII, a b 414
Diana, Montemayor (Romance), XX, a 677
——, sonnets (Constable, H.), VI, a 264
——, painting (Titian), XXIII, a 444. See *Diane*
——, Aventine statue, Rome (Image Worship), XII, b 749; statue (Houdon), a 328; of Versailles (Artemis), II, b 563
—— of Poitiers, mistress (Book-binding), IV, b 37; (France), IX, b 492; (Henry II., France), XI, a 597
Diana's Bath (Smyrna), XXII, a 197
—— Peak (St. Helena), XXI, a 179
Diane Chasseresse, painting (Goujon), XI, a 5
Diano, town, VII, a 145
Dianthus, genus of, plants (Botany), IV, b 107, b 111, b 122; (Breeds), b 222–3, (Horticulture), XII, b 255, *a* 256, a 258, b 261–2, a 267; (Pink), XIX, b 115; caryophyllus (Gillyflower), X, *b* 536
Diapason (Organ), XVII, a b 854, *a b* 855, *a b* 856; French normal (Tuning-fork), XXIII, a 659
Diapasons, strings (Lute), XV, *b* 72
Diapedesis, defined (Vascular System), XXIV, a 115
Diapente, drug (Gentier), X, a 144
Diaper, decoration (Architecture), II, b 406–7; (Japan), XIII, a 601
——, cloth (Textiles), XXIII, b 228
—— shield (Heraldry) (Ill.), XI, b 617
Diaphaneity of minerals (Mineralogy), XVI, a 388
Diaphony in music (Hucbald), XII, a 343; (Music), XVII, b 88–9
Diaphragm (Anatomy) (Ill.), I, b 733, b 793; (Mammalia), XV, b 368; (Respiration) (Ill.), XX, a b 490, a b 492, b 493
—— in water-pipes (Hydromechanics), XII, a 512
—— plate (Microscope), XVI, b 281; pumps (Hydromechanics) (Ill.), XII, b 565; testing machines (Strength of Materials) (Ill.), XXII, b 626–7, a b 628
Diaphoretics, VII, a b 145
Diaphorite (Mineralogy), XVI, a 395
Diaphorophodon (Protozoa) (Ill.), XIX, a b 868
Diaphysis, osseous (Mammalia), XV, a 358
Diapophysis (Mammalia), XV, b 359
Diarbekir, city, VII, b 145–6
Diario di Roma (Newspapers), XVII, a 423, a 442
Diarmait, king (Ireland), XIII, b 255–6
——, MacMurchada (Ireland), XIII, *a* 261
Diarrhœa, VII, a 146; summer (Pathology), XVIII, b 385, a 399
Diarthroses (Anatomy) (Ill.), I, b 730
Diary (Evelyn), VIII, a b 644; (Pepys), XVIII, a b 530, a 532; (Sewall), XXI, b 917; (Walpole), XXIV, b 355
—— *of Ennuyée* (Jameson, A.), XIII, *b* 571
—— *of a Late Physician* (Warren, S.), XXIV, a 394
Dias, Antonio Gonçalves, poet, VII, a 146
Dias or Diaz, Bartolommeo, navigator, VII, b 146; (Cape Colony), V, b 40; (Gama), X, *a* 53; (Geography), b 161, *a* 162; (John II., Portugal), XIII, b 725
Diaspora, the dispersed Jews (Israel), XIII, a 430, a 439–41
—— mission (Moravian Brethren), XVI, b 838
Diasphore (Mineralogy) (Ill.), XVI, b 389, b 403
Diastaltic spinal system (Hall, Marshall), XI, *b* 348
Diastase, ferment (Alcohol), I, a 416; (Brewing), IV, *b* 238; (Fermentation), IX, b 84; (Malt), XV, b 341, a 342
Diastasis fracture (Surgery), XXII, a 716
Diastatic ferments (Physiology), XIX, b 57
Diasticus, fish (Ichthyology), XII, b 714, note
Diastole defined (Vascular System), XXIV, a 108–11; arterial (Vascular System), a 113
Diastylidæ, family (Crustacea), VI, b 571, b 582
Diatessaron, a Harmony of the Gospels (Tatian), XXIII, b 87, a 88, note; (Canon), V, b 8; (Syriac Literature), XXII, a b 864
Diathermancy (Melloni), XV, b 849
Diatomaceæ, order of Algæ (Ill.), VII, b 146–8; (Biology), III, b 588; (Botany), IV, b 78; (Vegetable Kingdom), XXIV, b 137, b 138
Diatom-earth (Geology), X, a 213, a 257; ooze (Pacific Ocean) (Ill.), XVIII, a 127, b 128, a b 131
Diatoms (Algæ), I, a 449; (Botany), IV, b 144, b 147; (Microscope) (Ill.), XVI, a 274, a–b 281, a 283; (North Sea), XVII, a 577, a 578. See **Diatomaceæ**
Diatonic scale (Acoustics), I b 101; (Music), XVII, b 98; (Zarlino), XXIV, b 809
Diatribe du Docteur Akakia (Voltaire), XXIV, b 309, a 310
Diatryma gigantea, fossil (Zoology), XXIV, b 925
Diaz, Bernal, adventurer (Mythology), XVII, b 516; (Spain), XXII, b 373
——, Juan, author (Romance), XX, b 671
——, Porfirio, president (Mexico), XVI, a 229, a 897, a 905
—— de Bivar, Rodrigo (Cid), V, b 675–6
Diaz de le Pena, Narcisse Virgile, painter, VII, b 148
—— de Salis, Juan, navigator (Pinzon), XIX, b 118
Diazo-bodies (Nitrogen), XVII, a 533
Dibai, town (Bulandshahr), IV, b 461
Dibasic acids (Chemistry), V, b 421, a b 422, a 423
Dibble, tool (Horticulture), XII, b 245
Dibdin, Charles, composer, VII, b 148
Dibdin, Thomas, dramatist, VII, b 148–9
Dibdin, Thomas Frognall, bibliographer, VII, a b 149; (Bibliography), III, b 564, note, b 565, a 566, note, a 567, b 568
Dibeneh Su, river (Tigris), XXIII, *a* 413
Diblastula (Hydrozoa) (Ill.), XII, *a b* 581, a 582, a b 583, a 586, b 588–9; (Mollusca) (Ill.), XVI, b 655, b 659, a b 660, a 662, a 677, a 684; (Zoology), XXIV, *a* 850
Dibon, stone of (Moab), XVI, b 558 note, b 559
Dibranchiata, order of Mollusca (Cuttle-fish), VI, a 649; (Mollusca), XVI, a 694, b 700, a 710
Dibutades, artist (Butades), IV, a 516
Dicæarchus of Messene, philosopher and geographer, VII, b 149; (Map), XV, b 523; (Peripatetics), XVIII, a 557; (Ptolemy), XX, *a* 93; (Sicily), XXII, b 25
Dicas's Hydrometer, XII, b 571
Dicasts of Athens (Ballot), III, b 249
Dice (Backgammon), III, b 170, b 171–2; (Hazard), XI, b 488
Diceratherium (Rhinoceros), XX, a 538
Dichasium (Botany) (Ill.), IV, *b* 111
Dichlamydeous, flower (Botany) (Ill), IV, a 114
Dichogamous flowers (Botany), IV, a 120
Dicholophus (Birds), III, a *b* 618, a 624
Dichopsis, tree (Gutta Percha), XI, b 301, b 303
Dichotomæ (Biology), III, b 601
Dichotomous branching (Botany), IV, a 83
Dichotomy, law of (Psychology), XX, a b 84
Dichroiscope (Mineralogy) (Ill.), XVI, b 390
Dichroite (Mineralogy) (Ill.), XVI, a 436
Dichtung und Wahrheit, Goethe (Germany), X, b 482; (Goethe), a 654
Di-chu, river (Tibet), XXIII, *b* 360, b 362, b 363
Dick, Robert, naturalist (Thurso), XXIII, a 354
Dick, Thomas, apologist, VII, b 149
——, William, farrier (Veterinary Science), XXIV, *a b* 215
Dickens, Charles, novelist, VII, a 150–4
  critical estimate, a b 154
  dramatic talent of, b 151
  first publications, a 151
  Humphrey's Clock, a b 152
  last years, b 154
  methods of, a b 152
  novels of, a 152–3
  periodical ventures, a 152, a b 153
  Pickwick Papers, a b 151
  readings, public, b 153–4
  serial writing, early, a 151–2
  youth, a 150–1
—— (Greeley), XI, a 144; (Periodicals), XVIII, b 548; (Reporting), XX, a 417
Dickenson, John, poet (Pastoral), XVIII, b 351
Dickinson, John, senator (Webster), XXIV, a 500, note; (Whig Party), b 893; (Wilson), b 901–2
——, William Howship, physician (St. Vitus's Dance), XXI, b 212
Dickinsonite (Mineralogy), XVI, a 422
Dick's or Dixcove, town (Gold Coast), X, b 672
—— patent extincteur (Fire), IX, a b 205
Dickson, David, poet (Hymns), XII, a 626

Dickson, Thomas, horticulturist (Horticulture), XII, b 298
——, William, bishop (Fox, C. J.), IX, a 437
Dicksonia, genus (Ferns), IX, b 89, *b* 90; (Tree-Fern), XXIII, b 568
Diclidurus, genus (Mammalia), XV, b 417
Diclinous flowers (Botany), IV, a 122
Dicoccum, plant (Wheat), XXIV, *b* 561
Dicoryne (Hydrozoa) (Ill.), XII, a 595
Dicotyledon (Botany) (Ill.), IV, a *b* 82, b 84, a 88–92, a 107; (Physiology), XIX, b 65, b 67; (Vegetable Kingdom), XXIV, a 143; circulation in (Physiology), XIX, a b 54; earliest fossil (Geology), X, a 319; embryo of (Botany) (Ill.), IV, *a* b 141, b 142; (Morphology) (Ill.), XVI, a 870; flowers in (Botany) IV, b 115, a 116, a b 118, a 119, *b* 125, a 132; leaf in (Botany), *a* 102, b 103, a 106
Dicotyles, genus of ungulates (Peccary), XVIII, a b 460; (Swine), XXII, a 813
Dicranum, mosses (Muscineæ), XVII, a 77, b 78
Dictamnus or Dittany, plant (Botany) (Ill.), IV, a 81; (Horticulture), XII, a 258
DICTATOR, VII, b 154–5; (Rome), XX, b 754 note, *b* 755, *b* 757
Dictatorship, Cæsar's (Rome), XX, b 784–6; Sulla's (Rome), b 779–81
Dictes and Sayings of the Philosophers (English Literature), VIII, a 369
Diction (Rhetoric), XX, a 527
DICTIONARY, VII, a 155–68
  African, a b 167
  American, aboriginal, b 167–8
  arrangement, b 156–7
  Asiatic, a 164–7
    Armenian, a 165
    Chinese and Corean, b 166–7
    Indian, b 165-6
    Indian Archipelago, b 166
    Indo-Chinese, a b 166
    Japanese, Aino, a 167
    Northern and Central, a 167
    Persian, a b 165
    Philippine, b 166
    Sanskrit, b 165
    Semitic, a 164–5
  Australasian, b 167
  classes of word dictionaries, b 157–8
  contents of language dictionaries, a b 156
  definitions of sorts, a 155–6
  Egypt and Abyssinia, a b 167
  European, a 158–64
    Celtic, a 163
    English, a 162
    French, Provençal, b 159-60
    German, b 162–3
    Greek, ancient and modern, a 158–9
DICTIONARY, *continued*
    Italian, a b 161
    Latin, a b 159
    Netherlands, b 162
    Portuguese, a 161
    Romance, b 159-60
    Scandinavian, b 161
    Slavonic, a b 163
    Spanish, b 160–1
    Teutonic, b 161–3
    Ugrian, Turkish, b 163–4
  examples, illustrative of word use, a b 157
  varieties of word dictionaries, b 157
——. See ENCYCLOPÆDIA, Glossary, Vocabulary

—— (Philology), XVIII, b 798
——, *Abenaki Indian* (Rale), XX, b 894
——, *Breton French* (Celtic Literature), V, a b 281, a 285
——, *Bulgarian* (Slavs), XXII, b 158
——, *Chinese* (China), V, a 569, a 570; (Williams), XXIV, a 900
——, *Czech* (Bohemia), III, b 748; (Slavs), XXII, a b 161, a 163
——, *Danish* (Scandinavian Languages), XXI, b 389
——, *Efik* (Calabar), IV, b 576
——, *English* (Bailey, N.), III, b 208; (Johnson, S.), XIII, *b* 733, b 734, a b 735, b 736; (Webster), XXIV, b 501; (Worcester), *b* 915
——, *French* (Academy), I, b 72; (Colbert), VI, b 111; (Furetière), IX, b 737, a 738; (Littré), XIV, a b 712; (Nodier), XVII, a 545
——, *Gaelic* (Celtic Literature), V, a 284
——, *German* (Grimm), XI, a b 179
——, *Greek* (Hesychius), XI, a 699
——, Hieroglyphics, XI, b 722–3
——, *Hungarian*, XII, a 390
——, *Icelandic* (Scandinavian Languages), XXI, *b* 384, a 385
——, *Japanese* (Hoffman, J. J.), XII, a 49; (Japan), XIII, b 595, a 596
——, *Kurd* (Kurdistan), XIV, b 158
——, *Latin* (Ainsworth, R.), I, a 379; (Elyot), VIII, b 144; (Milton), XVI, a 350
——, Pâlí, XVIII, a 190
——, *Polish* (Slavs), XXII, a 160
——, *Polyglott* (Calepino), IV, a 606
——, *Russian* (Slavs), XXII, b 157, note, a 158
——, *Sanskrit* (Goldstücker), X, b 680; (Sanskrit), XXI, b 307–8
——, *Scandinavian* dialectic (Scandinavian Languages), XXI, a b 390
——, *Scottish* (Jamieson), XIII, a b 573
——, *Shans*, XXI, b 810
——, *Siamese*, XXI, b 895
——, *Slavonic* (Russia), XXI, b 117, *b* 118
——, *Slovenish* (Slavs), XXII, *b* 159, note
——, *Swedish* (Scandinavian Languages), XXI, a 389
——, *Tamil* (Winslow), XXIV, b 903
——, *Tatar-mantchou* (Amiot), I, b 647
——, *Tibetan* (Tibet), XXIII, a b 368 note
——, *Wendish* (Slavs), XXII, *b* 163, a 164
——, architectural (Viollet-Le-Duc), XXIV, *a* 265
——, Bibliographical, III, b 570–2
——, chemical (Wurtz), XXIV, b 739
—— *of Commerce and Commercial Navigation* (McCulloch), XV, a 136
——, *Historical and Critical* (Bayle), III, a b 396
——, *Legal* (Canon Law), V, b 21
Dictionnaire des Antiquités (Amphitheatre), I, a 681
——, *Encyclopédique* (D'Alembert), VI, a 683
——, *Philosophique* (Voltaire), XXIV, b 309, a 313
——, *Universel de la langue Française* (Furetière), IX, b 737, a 738; (Nodier), XVII, a 545
Dictydium (Protozoa), XIX, a 863
Dictyogens, plants (Botany), IV, a 94, b 98, b 103
Dictyonina (Sponges), XXII, b 434, a b 437–8, a b 439, a b 444
Dictyotaceæ, order (Vegetable Kingdom), XXIV, *a* 138
DICTYS CRETENSIS, historian, VII, a 168; (Romance), XX, *b* 653, *b* 654
Dicuil, monk (Orkney), XVII, a 873
Dicyemida, entozoa (Parasitism), XVIII, a 263; (Reproduction), XX, a 431
Didactic poetry (Fine Arts), IX, a 181; (Persia), XVIII, b 670–71; (Provençal Literature), XIX, b 901; (Roman Literature), XX, a 742; (Sanskrit), XXI, b 300–1; Castilian (Spain), XXII, b 367; mediæval (Germany), X, b 470, b 473
Didascalia Magna (Education), VII, b 584
Didascalica, De Eruditione (Hugh of St. Victor), XII, a 351
Didelphia, marsupials (Birds), III, a b 640, note; (Mammalia), XV, b 373, a b 374
Didelphidæ or Didelphyidæ, family of marsupials (Mammalia), XV, b 381, b 382; (Opossum), XVII, a b 819; distribution of (Mammalia), XV, a 377
Didemnidæ, family of Tunicata (Ill.), XXIII, a 657
DIDEROT, Denis, encyclopædist, VII, a 168–70
  biographical sketch, a 168, a b 170
  encyclopædic work, b 168–9
  first literary ventures, b 168
  ironical works, b 169–70
  miscellaneous essays, a 170
  religion of, a 170

—— (Æsthetics), I, a 192, b 198; (Burke), IV, a 488; (Encyclopædia), VIII, a b 180–1; (Evolution), b 665; (France), IX, a 522, b 585, a 586, *a* b 588, *a* 589, a *b* 590; (Greuze), XI, b 168, a 169; (Raynal), XX, a 315; (Rousseau), XXI, a *b* 30, *a* 31
Didian Law (Sumptuary Laws), XXII, a 678
Didier of Lombardy. See Desiderius
Didinium (Protozoa) (Ill.), XIX, b 886, b 887
Didion, General (Gunnery), XI, b 264, a 269, b 281
Didius Julianus, Roman emperor (Severus), XXI, *a* b 732
DIDO or Elisa, founder of Carthage, VII, b 170
Dido, tragedy (Marlowe), XV, a b 563, b 564
—— *and Æneas* (Purcell), XX, a *b* 119
—— *Building Carthage*, painting (Turner), XXIII, a 708
DIDOT, Ambroise Firmin, publisher, VII, a 171
DIDOT, Firmin, stereotyper, VII, b 170-1
DIDOT, François, printer, VII, b 170
DIDOT, François Ambroise, printer, VII, b 170
DIDOT, Henri, engraver, VII, b 170
DIDOT, Hyacinthe, publisher, VII, a 171
DIDOT, Pierre, publisher, VII, b 170
DIDOT, Pierre François, printer, VII, b 170
DIDOT, St. Leger, papermaker, VII, b 170
Didot's *Bibliotheca Classicorum* (Ptolemy), XX, b 101
DIDRON, Adolphe Napoléon, archæologist, VII, a 171
Didunculus, genus (Birds), III, b 643; strigirostris, species (Pigeon), XIX, a 94; (Polynesia), b 433
Didus, genus (Birds), III, b 624, a b 625
Didymiaceæ (Protozoa), XIX, a 863
Didymium, metal (Chemistry), V, a b 470; (Lanthanum), XIV, b 291-2; spectra (Spectroscopy), XXII, b 390
DIDYMUS of Alexandria, theologian, VII, a 171; (Canon), V, b 11
—— Arius, philosopher (Zarlino), XXIV, b 809
—— Chalkenteros, author (Dictionary), VII, a 158
DIE, town, VII, a b 171
——, tool (Screw), XXI, b 578
—— and mill process (Calico-Printing), IV, b 607
DIE SINKING, VII, b 171; (Archæology), II, a 313, a 317
DIEBITSCH - SABALKANSKI, Ivan Karl Friedrich Anton, count, marshal, VII, b 171–2; (Russia), XXI, *a* 110; (Turkey), XXIII, a 691
Diedrich of Bern, myth (Jew, Wandering), XIII, a 685
Di-electric, insulating medium (Electricity) (Ill.), VIII, a 34-8

- Di-electric strength (Electricity), VIII, a 51, b 56-8
- Diefenbach, Lorenz, philologist (Celtic Literature), V, a 283
- Die-forging (Annealing), II, b 57
- Diego Campo, mountain (Hayti), XI, b 485
- —— Ruy's island (Rodriguez), XX, a 635
- —— Suarez Bay (Madagascar), XV, a 169
- Dieguenos tribes (Indians), XII, b 865, b 866, a 867
- Diekirch, town and district (Luxemburg), XV, *b* 88, a 89
- Diele, early German form of Guillotine, XI, b 233
- Dielytra, plants (Horticulture), XII, a 258
- Diemen, Anton van, governor-general (Tasman), XXIII, a 78
- Diemenia, genus (Snakes), XXII, b 201, b 207-8
- Diemerbroeck, Isbrand van, physician (Plague), XIX, b 170, a 175
- Dieng plateau (Java), XIII, a 620
- DIEPENBECK, Abraham van, painter, VII, a b 172
- DIEPPE, city (Plan), VII, b 172-3; (Ivory), XIII, a 534; town and stream (Seine Inférieure), XXI, b 656, *a* b 657
- Diericx, Charles Louis Maximilian, historian (Ghent), X, b 504, a 505
- Diermen Tepe, hill (Smyrna), XXII, b 196
- DIES, Christoph Albert, painter, VII, a b 173
- *Dies Geniales* (Alessandri), I, a 424
- Dies, Greek (Numismatics), XVII, b 650
- *Dies Iræ* (Hymns), XII, a 617, b 618
- —— Mandati (Maundy Thursday), XV, a 642
- Diesing, naturalist (Trematoda), XXIII, a 569, a 575
- DIEST, town, VII, b 173; (Academy), I, b 73
- DIET, assembly, VII, b 173-4; list of important diets, a 174
- ——, formation of (Poland), XIX, a 300
- ——, imperial (Austria), III, a 107; (Germany), X, a 460
- ——, local (Germany), X, a 445, a 450
- ——, national (Germany), X, b 445, *b* 459
- ——, provincial (Province), XIX, b 910
- ——, Augsburg, 1474 (Free Imperial Cities), IX, b 656; 1530 (Charles V. Emperor), V, b 359, a 360
- ——, Brandenburg (Prussia), XX, a 8, *a* 9
- ——, Eger, 1389 (Wenceslaus), XXIV, b 528
- ——, Frankfort (Germany), X, b 452, *a* 453, a 454, *a* 456
- ——, Nuremberg, 1383 (Wenceslaus), XXIV, b 528
- ——, Polish national (Poland), XIX, b 301, a b 302, a 303-4, a 305, a b 306
- ——, Prussian (Germany), X, b 453, a 454
- ——, Quiersy-sur-Oise, 876 (France), IX, a 472
- ——, Ratisbon, 1541 (Charles V.), V, b 360; 1630 (France), IX, *b* 501
- ——, Roncaglia (Italy), XIII, *b* 483; 1158 (Frederick I.), IX, b 641-2
- ——, Worms, 1076 (Gregory VII.), XI, b 158; (Italy), XIII, b 481; 1521 (Charles V., Emperor), V, a 359; (Luther), XV, a 76-7; (Reformation), XX, b 340
- ——, Würzburg, 1180 (Würzburg), XXIV, a b 740
- "Diet," assay of (Mint), XVI, b 514
- DIETETICS, VII, a 174-85
  - alcohol, uses of, b 177, a b 178
  - animal and vegetable food, relation of, b 181-2
  - athletic training, b 176-7
  - corpulence, reduction of, a b 177
  - economical view of, b 181-5
  - industrial diet, analysis of, b 184-5
  - infancy, food of, a 174-5
  - labor, muscular, b 175-6
  - maternal diet, b 178
  - mental work, diet for, b 177-8
  - military diet, a b 184
  - old age, b 178
  - penal diet, b 183-4
  - pleasure, gastronomic, b 181
  - quantity of food required, a 183-5
  - scurvy, a 180-1
  - sick diets, b 178-81
  - starvation, a 181
  - working value of food, a 182-3
  - youth, food of, a b 175
- —— (Dyspepsia), VII, a b 507; (Hippocrates), XI, a 762; army (Sanitary Commission), XXI, a 902; Greek (Athletæ), III, a 12
- Diether of Mainz, bishop (Universities), XXIII, a b 898
- DIETRICH, Christian Wilhelm Ernst, painter, VII, b 185
- Dietrichite (Mineralogy), XVI, a 419
- "Dietsch" dialect (Holland), XII, b 87-8, *a* 89
- Dievenow, strait (Wollin), XXIV, b 667
- DIEZ, Friedrich Christian, philologist, VII, b 185-6; (Grimm), XI, a 179; (Hammer Purgstall), b 381; (Romance Languages), XX, a 678, b 686
- Difference, category (Psychology), XX, b 84-5
- —— engine (Calculating Machines), IV, a 580-1
- —— threshold (Weber's Law), XXIV, b 496, *a* b 497
- —— tones (Acoustics), I, b 110
- "Differences" in coats of arms (Heraldry), XI, a 612, b 628-9
- Differential (Infinitesimal Calculus), XIII, a 15, *sqq.*
- —— action (Magnetism), XV, a 250, b 265-6
- —— brake (Brake) (Ill.), IV, b 191
- —— calculus (Herschel, John), XI, a 686; (Infinitesimal Calculus), XIII, a 9, a 13, b 14-36
- —— equations (Boole), IV, *b* 42, a 43; (Jacobi), XIII, a b 548; (Pfaff), XVIII, a 739; of motion (Hydromechanics), XII, a 462-3; for determining temperature (Heat), XI, a b 509, a b 512
- —— force instruments (Meteorology), XVI, a-b 168
- —— galvanometer (Electricity), VIII, b 41; (Galvanometer), X, b 45, a *b* 47, b 48; measurement (Telegraph), XXIII, a 125
- —— gas-engine (Steam-Engine), XXII, a 552; gear (Tricycle), XXIII, a b 594; governor (Steam-Engine) (Ill.), XXII, a b 533; lens (Lighthouse) (Ill.), XIV, a 629
- —— locomotive-pulley (Saxton), XXI, b 906
- —— longitude (Surveying), XXII, b 749; method (Telegraph) (Ill.), XXIII, b 132; theory of ideas (Psychology), XX, a 54-5
- —— thermometer (Leslie, Sir J.), XIV, a 477; thermoscope (Heat), XI, b 499, b 510
- Differentiation (Biology), III, b 590-1, b 593; (Histology), XII, *a* 6, b 10
- —— of cells (Anatomy), I, a 741; (Physiology), XIX, b 18-9; of ideas (Psychology), XX, *b* 47, a b 50-2, b 56; of molecules (Atoms), III, a b 43
- Diffraction, dynamics of (Wave Theory), XXIV, b 477-9; Fresnel's bands and (Wave Theory), a 448; of light by small particles (Wave Theory), b 479-81; phenomena, Fraunhofer's (Wave Theory), b 452-5, b 458, b 461; spectra (Microscope) (Ill.), XVI, a 276-7, a 279; symmetrical (Wave Theory), XXIV, a 469-70; unfocused source of light (Wave Theory), b 466-9
- DIFFUSION, VII, b 186-92
  - definition, b 186
  - electrolysis, a b 190
  - gases, a 187-8
  - heat, a 189
  - kinetic theory, a 187-8
  - in liquids, a b 188-9
  - molecular motion, b 186-7
  - reversible processes, b 190-1
  - wet-bulb thermometer, a 189-90
- —— (Heat), XI, b 518-9, a b 523; extracting process (Sugar), XXII, a b 659-60; of gases (Molecules), XVI, a 640-a 641; (Graham), XI, a b 30; of ideas (Psychology), XX, a b 51; of liquids (Graham, T.), XI, b 30
- —— rings, Newton's (Wave Theory), XXIV, b 450-1, b 455, a 456, b 458
- Digambaras, party (Jains), XIII, b 553, a 554
- Digamma, letter (Greece), XI, b 117, b 118, a *b* 119, a 120; (Homer), XII, b 115 note, b 117
- Digarchi or Shigatze, city (Tibet), XXIII, *b* 361, a 362, b 363, *a b* 364
- Digby, Sir Everard, conspirator, VII, a 192; (Fawkes), IX, a 52
- ——, John, earl of Bristol (Charles I., Eng.), V, *a* 351
- DIGBY, Sir Kenelm, physicist, VII, a 192; (Lampedusa), XIV, b 249; (Van Dyck), XXIV, a 67, b 70
- Digenea, parasites (Trematoda), XXIII, a b 573
- *Digenis Acritas, Basilios, Exploits of* (Greece), XI, *a* 132, b 133
- *Digest* of civil law (Castrensis), V, a 175
- ——, Justinian's (Justinian I.), XIII, b 802, *a b* 803, *a* b 804; (Roman Law), XX, b 724, a b 734, a b 735; (Torture), XXIII, b 490, a 491; (Tribonian), b 590, a 591
- Digester, Papin's (Steam-Engine) (Ill.), XXII, b 491-2
- Digestibility of food (Dietetics), VII, a b 175
- Digestion (Dietetics), VII, b 177; (Drunkenness), a 417; (Gelatin), X, b 118, a 119; (Gluten), b 620; (Nutrition), XVII, a 686-97; post-mortem (Hunter), XII, b 401; process of (Spallanzani), XXII, a 382
- DIGESTIVE ORGANS (Ill.), VII, a 192-207
  - abdomen, b 194
  - alimentary canal, b 192-9
  - Brunner's, Lieberkühn's and Peyer's glands (Ill.), a 197-8
  - gall-bladder, b 201
  - general introduction, a b 192
  - intestine, large, a 198-9
  - intestine, small (Ill.), a 196-8
  - liver (Ill.), a 199-201
  - mouth and its accessories, b 192-3
  - œsophagus, a 194
  - palate, soft, b 193-4
  - pancreas, b 201-2
  - peritoneum, b 194
  - pharynx (Ill.), b 193
  - stomach (Ill.), b 194-6
  - teeth, a 202-7
    - alveolus, a 203
    - arrangement, a 202
    - classes of, a b 202
    - development of (Ill.), a 204-7
    - permanent teeth, a 206-7
    - structure of (Ill.), a 203-4
    - temporary teeth, a 204-6
- —— organs (Amphibia), I, b 668-9; (Horse), XII, a 183-4; (Hydropathy), b 577; (Ichthyology), b 691-3; (Leech), XIV, b 401; (Mammalia) (Ill.), XV, b 363-6; (Reptiles), XX, a 470-1; (Vampire), XXIV, b 59; in taxonomy (Ornithology), XVIII, b 28-9. See Digestive system

Digestive process (Insectivorous Plants), XIII, a b 142, a b 143, a b 144, b 145, b 146, a 147
—— system (Annelida), II, b 59, a b 62, a b 63; (Arachnida), a 239, b 240, b 242, a 244, b 246, a 248, b 249, b 257; (Cuttle-Fish), VI, b 649-50; (Insects), XIII, b 151-2; (Mammalia) (Ill.), XV, b 363-6; (Mullets), XVII, b 24; (Nemertines) (Ill.), a b 339; (Planarians), XIX, a b 182; (Protozoa), b 857-8; (Rotifera), XXI, b 10-1; (Trematoda), XXIII, a 570
—— tract (Birds), III, a b 629; cancer of (Pathology), XVIII, b 387, b 389; tumors of (Pathology), a 398
Digger Indians (Cremation), VI, b 500-1; pine (United States), XXIII, b 861
Digges, Leonard, mathematician (Telescope), XXIII, *a* 147, note
——, Thomas, geometer (Telescope), XXIII, a 147
Digging fork (Horticulture) (Ill.), XII, a 239
Diggles, naturalist (Ornithology), XVIII, a 20
Digit, measure (Weights and Measures), XXIV, a 510-1
DIGITALIS, plants, VII, a 207-8; (Botany) (Plate XI) (Ill.), IV, b 120, a 125, a 131, a 134; (Diuretics), VII, a *b* 253; (Fuchs, L.), IX, b 707; (Goitre), X, a 659; (Heart), XI, a b 494; (Horticulture), XII, a 256, a 258
Digitigrade, Mammalia, XV, b 362, a 440
Digits (Anatomy), I, a 726, a 728, b 729, a 730, a 737; (Horse), XII, a 181; (Mammalia) (Ill.), XV, *b* 362; (Skeleton), XXII, a b 123; redundant (Monster), XVI, a b 789
Diglena, animalcule (Rotifera) (Ill.), XXI, b 10, a 11, a 12
DIGNE, town, VII, a 208; (Alpes), I, a 527
Digue, canal (Cartagena), V, a 124
Dihang or Dihong, river (Assam), II, b 628; (Himalaya), XI, b 734; (India), XII, a 770; (Tibet), XXIII, a 362
Dihkans, proprietary class (Firdousí), IX, *a b* 196
Dihkergan, village (Urmia), XXIV, a 17
Dihong river. See Dihang
Dihyrite (Mineralogy), XVI, a 423
Diipolia, festival (Buphonia), IV, a 475; (Sacrifice), XXI, *b* 145, a 146
DIJON, town (Plan), VII, a b 208; (Jacotot), XIII, a 549
Dika butter (Oils), XVII, b 765, a 768
Dikes. See Dykes
Dikhova, Catherine, instructress (Europe), VIII, a 625
Dikran, kings. See Tigranes
Diktur, sacred ballads (Iceland), XII, b 658
Dilamination (Botany), IV, b 116-77
DILAPIDATIONS, English law-term, VII, b 208-9
Dilatation (Elasticity), VII, a 699, b 705, b 706; uniform, of strain (Mechanics), XV, a 701
——, bladder (Vesical Diseases), XXIV, b 206
—— theory (Glacier), X, *b* 560-1
Dilazaks, tribe (Peshawar), XVIII, a 698
Dilbaum, Samuel, editor (Newspapers), XVII, a 443
DILIGENCE, law-term, VII, a 209
DILKE, Sir Charles Wentworth, editor, VII, a b 209; (Pope), XIX, a 502
DILL, plant, VII, b 209; (Anise), II, a 52; (Botany) (Ill.), IV, a 111; (Horticulture), XII, b 302
DILLEN, Johan Jakob, botanist, VII, b 209
DILLINGEN, town, VII, b 209-10
Dillmann, Christian Friedrich August, theologian (Apocalyptic Literature), II, b 153, a b 154, *b* 155, a 158
Dillon, Peter, sailor (Geography), X, b 169
Dilthey, Christiana, poetess (Busching), IV, a 512
Dilutions (Medicine), XV, a 824
Diluvium (Alluvium), I, b 518; (Holland), XII, a 64, a 65
Diluvian age (Archæology), II, a 294
Dilvun, island (Elam), VII, b 689, a 690
Dillwyn, William, philanthropist (Slavery), XXII, b 147
DIMENSIONS, VII, a b 210; (Geometry), X, b 347; method of (Wave Theory), XXIV, a b 480
Dimethyl (Methyl), XVI, b 202
Dimidiation (Heraldry) (Ill.), XI, b 630-1
Dimitri, false (Russia), XXI, b 102-4
——, Ivanovitch, prince (Russia), XXI, b 101-2
Dim'ah, town (Rangpur), XX, a 284
Dimma, Book of (Palæography), XVIII, a 525, a 529
Dimonstrationi Armoniche (Zarlino), XXIV, *b* 809
Dimorphic minerals (Mineralogy), XVI, b 394, a 395; plants (Hybridism), XII, b 439
Dimorphism (Actinozoa), I, b 121; (Calc-spar), IV, b 579; (Crystallography), VI, b 597; (Ferns), IX, a 91; (Hydrozoa), XII, b 587; (Hymenoptera), a 609; (Insects), XIII, b 149; (Mitscherlich), XVI, b 555; of birds (Goatsucker), X, b 634-5
Dimorphite (Mineralogy), XVI, b 410
Dimorphobiosis (Nematoidea), XVII, a 334 note
Dimorphodon (Pterodactyle), XX, b 91, a 92
DINÁJPUR, district, VII, b 210-1; town, a 211
DINAN, town, VII, a 211
DINANT, town, VII, a b 211; (Charles of Burgundy), V, b 367
DINAPUR, town, VII, b 211
Dínár, coin (Numismatics), XVII, a 678
Dinara, mountain (Dalmatia), VI, a 690. See Dinaric Alps
DINARCHUS, Attic orator, VII, b 211-12
Dinard, watering-place (St. Malo), XXI, b 195
Dinaric Alps, I, a 547; (Austria), III, b 100
Dinas clay (Furnace), IX, b 741
Dínawarí, historian (Tabarí), XXIII, b 7
Dindings, territory and islands (Straits Settlements), XXII, a b 615, a 616
Díners du Baron d'Holbach (Genlis), X, b 137
Dingaan, Zulu chief (Natal), XVII, b 248; (Transvaal), XXIII, *b* 551; (Zululand), XXIV, *a* 868
Dingiswayo, chief (Zululand), XXIV, b 867-8
Dingle bay (Kerry), XIV, *a* b 53; beds (Kerry), b 52
Dingo, wild dog (Dog), VII, a 282; (Mammalia), XV, a 445
Dingri, town (Tibet), XXIII, *b* 364
DINGWALL, burgh, VII, a 212
Dini, Pietro, bishop (Galileo), X, b 30
Dinichthys herzeri, fossil (Ohio), XVII, b 755
Dinifera (Protozoa), XIX, b 884
Dinka Dictionary, VII, b 167
Dinkard (Zend - Avesta), XXIV, *b* 814, *a* 815
Dinkel, artist (Agassiz), I, a b 246
DINKELSBUHL, town, VII, a 212
Dinkelsbühler Recht, VII, a 212
Dinner (Philoxenus), XVIII, a 811
Dinner, cheap (Sleep), XXII, a 166
Dinnsenchas (Celtic Literature), V, b 264, a 267
Dinobryon (Protozoa) (Ill.), XIX, a b 880, b 881
Dinoceras, extinct genus (America), I, a 600; (Mammalia) (Ill.), XV, a 432; (Zoology, American), XXIV, a b 926
Dinochloa (Grasses), XI, b 48
DINOCRATES, architect, VII, a b 212; (Alexandria), I, b 436; (Ephesus), VIII, b 414
——, statesman (Sicily), XXII, a *b* 25
Dinoflagellata, class (Protozoa) (Ill.), XIX, a *b* 860, b 883-5
Dinomys, genus of rodents (Mammalia), XV, a 426
Dinophidæ, family (Snakes), XXII, a 204, a b 208
Dinophydia (Protozoa), XIX, b 884
Dinophysis (Protozoa) (Ill.), XIX, b 883, *a* b 884
DINORNIS, bird, VII, b 212; (Australia), III, b 94; (Birds), III, a b 634, b 640 note, a 644; (Gare-fowl), X, b 71
Dinosauria (Reptiles), XX, a b 455-6, note, a b 458, a 478, *a b* 479; (Birds), III, b 631; (Mantell), XV, a 510; (Zoology, American), XXIV, b 925
DINOTHERIUM, fossil, VII, b 212-3; (Mammalia), (Ill.), XV, *a* b 429, a b 431
Dinuzulu, chief (Zululand), XXIV, b 868
Dinwiddie, Robert, governor (United States), XXIII, *b* 782
Dio Chrysostom. See DION CHRYSOSTOM
Diocesan Chancellor, V, b 337; jurisdiction in early church (Ireland), XIII, *a* b 254, a 260, a 261, b 268; synod (Council), VI, b 453; weight in councils (Vatican Council), XXIV, a 122
DIOCESE, VII, a 213; (Episcopacy), VIII, a 433; (Cathedral), V, b 197, a 198; (England), VIII, b 198, b 224; (Italy), XIII, b 468-9; early (Greek Church), XI, a 137
Dioclea, town (Ipek), XIII, a 217
—— or Duklya, city (Servia), XXI, a 722
Diocles, lawgiver (Syracuse), XXII, a b 854
—— of Caristus, physician (Veterinary Science), XXIV, a 213
DIOCLETIAN, Caius Valerius Aurelius, emperor, VII, a b 213; (Chemistry), V, a 398; (Constantine I.), VI, a b 266; (Druidism), VII, b 412; (Egypt), b 648; (George, St.), X, a 386; (Montenegro), XVI, b 806 note; (Persia), XVIII, b 619, a b 620; (Roman Law), XX, a 730, a 731, a 732; (Rome), *b* 791, a 793, *b* 795, *a b* 796; (Sebastian, St.), XXI, *b* 645; (Slavery), XXII, b 143
——, Baths of, III, a b 377
——, era of (Chronology), V, a *b* 620, b 621-2
——, legend of (Gog), X, a 657
——, *Palace of* (Adam, R.), I, b 128
Diodati, Charles (Milton, John), XVI, b 336, b 339
DIODATI, Giovanni, theologian, VII, b 213; (Milton), XVI, b 336, b 339
Diodorus of Antioch, bishop (Theodore), XXIII, a 274
DIODORUS SICULUS, historian, VII, b 213-4; (Chronology), V, b 624; (Greece), XI, b 128; (Moloch), XVI, a 723; (Pericles), XVIII, b 541 note, b 544; (Persepolis), b 570 note, a b 571; (Scythia), XXI, a 605; (Stephens), XXII, *b* 562
Diodotus, satrap (Bactria), III, a 192
——, king, Syria (Surgery), XXII, a 709
Diœcious plants (Botany), IV, 122; (Reproduction), XX, b 441; (Strawberry), XXII, a 622
Diogenes, Antonius, author (Heliodorus), XI, b 564; (Romance), XX, b 650
DIOGENES of Apollonia, philosopher, VII, a 214; (Anatomy), I, a b 702; (Evolution), VIII, b 661; (Stoics), XXII, a *b* 592

DIOGENES, Cynic, VII, a b 214; (Antisthenes), II, *a* 121
— of Edessa, bishop (Syriac Literature), XXII, a 869
DIOGENES LAERTIUS, biographer, VII, b 214; (Homer), XII, *b* 119; (Plato), XIX, b 205; (Pythagoras), XX, *a* 146; his *Life of Aristotle*, II, b 449, a 450; catalogue of Aristotle's writings, a b 451, b 455
— of Seleucia or the Babylonian philosopher (Stoics), XXII, b 598, *a* b 599, a 600
Diognetus, Epistle to (Canon), V, a 9
Diogeneum (Athens), III, b 9
Diolas, tribe (Senegambia), XXI, *a* 695
"Diomed" (Horse), XII, b 207
Diomede Islands (Behring Strait), III, a 440
Diomedea (Albatross), I, a 398
DIOMEDES, hero, VII, b 214
— Arrius, villa of (Pompeii), XIX, b 464
DION CASSIUS COCCEIANUS, historian, VII, a 215; (Catilina), V, a 208; (Hadrian), XI, a 326, a 327; (Rome), XX, a b 788, note, a 830; (Scotland), XXI, b 494; (Severus), *a* b 734; (Tiberius), XXIII, b 358
DION CHRYSOSTOM, rhetorician, VII, b 215; (Longus), XIV, b 878; (Romance), XX, b 650; (Sanskrit), XXI, a b 295; (Slavery), XXII, a 142
DION of Syracuse, philosopher, VII, b 214–5; (Sicily), XXII, *b* 24, a 25; (Syracuse), a b 855
Dionæa, plant (Botany) (Ill.), IV, a b 80, a 81, a 102, a 103; (Insectivorous Plants) (Ill.), XIII, a b 140, b 141, b 142–3, b 146
Dionard river (Sutherland), XXII, a 764
Dione, goddess (Dodona), VII, *b* 280
Dionis, Peter (Anatomy), I, a 711
DIONYSIA or Bacchanalia, festivals, VII, b 215; (Drama), a 353
Dionysiac mysteries (Lustration), XV, b 71; rites (Phrygia), XVIII, b 867; theatre, Athens (Theatre), XXIII, a b 241, a 242
Dionysiaca, epic (Nonnus), XVII, *a* 547
Dionysian or Paschal period (Calendar), IV, b 594–5; (Chronology), V, a 622
DIONYSIUS I. the Elder, tyrant, VII, b 215; (Carthage), V, *a* 141; (Lysias), XV, b 119; (Numismatics), XVII, a 655; (Palæography), XVIII, a 166; (Philoxenus), a 811; (Sicily), XXII, a 23–4; (Syracuse), b 854, *a* 855
DIONYSIUS II., the Younger, tyrant, VII, a 216; (Dion of Syracuse), a 215; (Sicily), XXII, b 24; (Syracuse), a b 855
— of Alexandria, bishop (Cerinthus), V, a b 301; (James), XIII, b 564; (Millennium), XVI, b 328 9
— bar 'Augur, antipatriarch (Syriac Literature), XXII, *a* 898
DIONYSIUS the Areopagite, theologian, VII, a 216; (Denis), a 70; (Ethics), VIII, a b 522; (Hierarchy), XI, a 707; (Mysticism), XVII, *a b* 138; (Neoplatonism), b 347, a b 348; (Paris), XVIII, a 293; (Syriac Literature), XXII, a b 875
— of Colophon, painter (Archæology), II, a 314
— of Corinth, bishop (Apostolic Fathers), II, *b* 171; (Canon), V, a 9; (Sunday), XXII, a 688
DIONYSIUS EXIGUUS, chronologist, VII, a b 216; (Canon Law), V, a b 16; (Chronology), b 618, a 619; (Jesus Christ), XIII, b 670; (Popedom), XIX, a b 507
DIONYSIUS of Halicarnassus, historian, VII, a 216; (Chronology), V, b 618; (Demosthenes), VII, *a* b 64, a 65; (Greece), XI, a 129; (Isæus), XIII, *a* 386, a b 387, note; (Isocrates), *a* 399, a 400, b 402; (Livy), XIV, b 732, b 734; (Lysias), XV, a 120; (Poetry), XIX, a 271, a b 285; (Polybius), b 427; (Roman Law), XX, a b 695; (Rome), a 752, a 753; (Thucydides), XXIII, a b 347
— of Halicarnassus, the Younger (Celsus), V, b 256
DIONYSIUS, Periegetes, geographer, VII, a 216; (Hungary), XII, a 396 note
— bar Salībī, bishop (Syriac Literature), XXII, b 895–6
— of Tell-Mahrē, chronicler (Syriac Literature), XXII, b 863, a 867, note, b 868, note, a 870, a 873, a 877, b 888–9
— Thrax, grammarian (Grammar), XI, b 34, a 39
Dionyso Hadriana Collectio (Canon Law), V, b 16
Dionysopolis, city (Scythia), XXI, a 605
DIONYSUS or Dionysos, Bacchus, god, VII, b 216–17; (Ariadne), II, *a* 441; (Eleusinia), VIII, a b 120; (Greece), XI, a 125; (Mysteries), XVII, a b 135; (Mythology), a 161, a 162; (Orgies), b 863; sanctuary of (Athens), III, a 3
Diophantine analysis (Pell), XVIII, b 486
Diophantus, mathematician (Algebra), I, a *b* 451, *a* 452, b 456; (Porism), XIX, a 535
Diopside (Mineralogy), XVI, a 434
Dioptase, mineral (Mineralogy) (Ill.), XVI, b 382, b 428
Dioptric apparatus (Mollusca), XVI, b 706; images (Microscope), b 276, a 277; lighting system (Lighthouse) (Ill.), XIV, b 623, b 624–8, a b 627, a b 636; Micrometer XVI, a 261
"Dioptrica" (Huygens), XII, b 432
Dioptrics (Descartes), VII, a b 108
Diorite, rock (Geology), X, b 209; (Ural Mountains), XXIV, b 8, a 9; amorphous (Geology), X, b 274–5
Dioscorea, plant (Pyrenees), XX, a 132
Dioscorides, island (Socotra), XXII, b 243
— Pedanius, botanist (Botany), IV, a 70; (Miniature), XVI, a 457; (Weights and Measures), XXIV, b 514, b 515
Dioscorides, Vienna MS. (Palæography), XVIII, a 152
Dioscorus, patriarch (Flavian), IX, a 256
Dioscuri, gods (Cabiri), IV, b 551–2; (Castor and Pollux), V, b 173
Dioscurias, town (Caucasus), V, b 223, b 224
Dioscurides, engraver (Gems), X, a–b 125
Dioscurus, anti-pope (Boniface), IV, b 30
Diosmin, drug (Buchu), IV, a 373
Diospolis Magna or Thebes, city (Egypt), VII, b 673–8
Diospyros, tree (Ebony), VII, b 535–6; (Persimmon), XVIII, a 673
Dioxides (Chemistry) V, a b 413
Dip, magnetic (Compass), VI, b 201; (Magnetism) (Ill.), XV, b 221–2, b 223, b 228; (Meteorology) (Ill.), XVI, 170–2; circle of (Meteorology) (Ill.), a b 164–5, a 166
— of rocks (Geology) (Ill.), X, a 264–5; (Mining), XVI, a 460; faults (Geology) (Ill.), X, b 268, a 270; joints (Geology), a 263
— of sea horizon (Navigation), XVII, b 275
Dip-head level (Coal), VI, a 60
Diphenylamine blue (Coal Tar Colors), XVIII, a 904
DIPHTHERIA, disease, VII, b 217–8; (Ophthalmology), XVII, b 807; (Schizomycetes), XXI, b 417
Diphtheritic conjunctivitis, disease (Ophthalmology), XVII, b 802
— Croup, VI, b 544
Diphthongal phonetics, Old Latin (Romance Language), XX, b 680–1
Diphthongs (Latin), XIV, b 327–8; (Speech-Sounds), XXII, a 397; Catalan (Spain), a 362
Diphyes, genus (Hydrozoa) (Ill.), XII, a 599
Diphylla ecaudata, mammal (Vampire), XXIV, a b 50
Diphyllidæ, family (Tape-Worms), XXIII, b 59
Diphyodonts, group (Mammalia), XV, a b 354, a 355
Diplocondia, family (Protozoa), XIX, b 874
Diplodal rhagon type (Sponges) (Ill.), XXII, a b 430, b 442
Diplodocus, genus (Reptiles), XX, a 456 note
Diploë (Anatomy), I, a 722, b 751
Diploïdion (Costume), VI, a b 401
DIPLOMACY, VII, b 218–20; (Ambassador), I, b 579; (Latin), XIV, a b 343; mediæval (Guicciardini), XI, a 227
Diplomas, ancient (Diplomatics), VII, a b 220 2
Diplomatic agent, I, a 250; Precedence, XIX, a 687
DIPLOMATICS, study of documents, VII, a 220–2
  authenticity, b 221–2
  English charters, a 222
  forgeries, a 222
  formulæ, a b 221
  history, a 220–1
  literature, a b 222

Diplomatique, Nouveau Traité de, VII, b 220, a 222
Diplomesodon, genus (Mammalia), XV, *a* 407
Diplomystax, fish (Ichthyology), XII, a 715, a 731
Diplophrys, genus (Protozoa) (Ill.), XIX, a b 868
Diplopia, disease (Ophthalmology), XVII, a 808
Diplopoda, order (Myriapoda) (Ill.), XVII, a b 125–6
Diploptera, order (Hymenoptera) (Ill.), XII, a 606, *b* 611; (Wasps), XXIV, a 412
Diplosis, genus (Hessian Fly), XI, b 697
Diplosomidæ, family (Tunicata), XXIII, a 657
Diplozoon, parasite (Trematoda) (Ill.), XXIII, a b 573–4; paradoxum (Biology), III, a 594; (Morphology), XVI, a 870
Dipneumona, group (Echinodermata), VII, a 555
Dipnoi, fishes (Ichthyology) (Ill.), XII, b 670, b 672, a b 684, b 689, b 690, b 693, *b* 695, a b 697, b 703, a 704, b 705, a 706, a *b* 708, *b* 709, b 711, a b 725; (Lepidosiren), XIV, a 468
Dipnoids, group (Amphibia), I, a 658, b 674, a 676
Dipodidæ, family (Mammalia), XV, a b 421
Dipodomys, genus (Mammalia), XV, b 424
Dipœnus, sculptor (Archæology), II, a b 305
DIPPEL, Johann Conrad, alchemist, VII, b 222
Dipper, bird (Ousel), XVIII, b 78, a 79
Dipping (Brass), IV, a 197; needle (Magnetism), XV, b 228–9; sheep (Agriculture), I, b 352
Diprotodon, fossil (Kangaroo), XIII, b 850; (Mammalia), XV, *a* 382, b 385
Dipsacaceæ, family of plants (Botany), IV, a 119, b 125, a 137
Dipsacus, genus (Botany), IV, a 108, a 111; (Insectivorous Plants), XIII, a 146
Dipsadidæ, family (Snakes), XXII, b 203
Dipsomania (Insanity), XIII, b 109, b 114
DIPTERA, order of, insects, VII, b 222–3; (Galls), X, a 40, b 41; (Hymenoptera),

DIPTERA, *continued* XII, a 610, a 611; (Insects), XIII, a b 149, b 150, *a* 153, a 154, b 156–7
DIPTYCH, tablet, VII, b 223–4; (Book), IV, a 34; (Palæography), XVIII, a 148, a 158; ivory (Carving), V, b 146–7
Dipus, genus of rodents (Jerboa), XIII, b 636, a 637; (Mammalia), XV, a 425
Dipylidium (Tape-Worms), XXIII, a 61
Dipyre (Mineralogy), XVI, b 429
Dir, legend of (Russia), XXI, a *b* 96
Dirá, measure (Weights and Measures), XXIV, *a* 518
DIRCE, myth, VII, a 224; (Antiope), II, b 117
Dirceu, pseudonym (Gonzaga T. A.), X, *b* 687
Dircks, Henry, engineer (Perpetual Motion), XVIII a 565, a 566
Dircks's ghost (Light), XIV, b 591
Direct-acting engine (Steam-Engine) (Ill.), XXII, b 536, a 538–41
—— action of water (Hydromechanics), XII, a 544
—— current machines (Lighting), XIV, a b 638
—— steam pumps (Steam-Engine), XXII, a 541
—— taxes (Finance), IX, a b 152, b 154–5, a 157, b 158, a 161; (Taxation), XXIII, a b 93; internal (Taxation, U. S.), *b* 923, a b 924; (United States), *b* 882
Directions to Servants (Swift), XXII, a 805
Directories (Newspapers), XVII, a b 447
Directorium Inquisitorum (Inquisition), XIII, *b* 99
Directory, French government (France), IX, a 536–9; (Napoleon I.), XVII, a b 204, a b 206, a b 207, b 208–9; (Talleyrand), XXIII, a b 36
Directory of Government (Presbyterianism), XIX, b 705, note
—— *of Public Worship* (Liturgy), XIV, b 717–8
Directory Statute, XXII, b 486
Directrix of curve (Conic Sections), VI, a 242, b 244, *a* b 245, a b 248; (Geometry), X, a 362
Dir'eeyeh, Ed-, siege of (Egypt), VII, b 663
Dirge, verse (Pindar), XIX, b 108
Dirges (Iceland), XII, b 657; Hebrew (Lamentations), XIV, a 241–2
Dirghâm, Ed-, vizir (Egypt), VII, b 652
Dirhem, coin (Numismatics), XVII, b 672, a 678; weight (Weights and Measures), XXIV, a *b* 518
Dirichlet, Gustav Lejeune, mathematician (Infinitesimal Calculus), XIII, b 68; (Riemann), XX, a *b* 565, a 566
Dirichlet's theorem (Infinitesimal Calculus), XIII, a b 52
Dirk I.–VII., counts, (Holland), XII, a b 74
Dirksen, jurist (Roman Law), XX, b 697 note
Dirphys or Delphi, mountain (Eubœa), VIII, a 569
DIRSCHAU, town, VII, a 224
"Dirt bands" (Glacier) (Ill.), X, *a* 560
Dis, deity (Pluto), XIX, b 247
Disabling Statutes, XXII, b 486
Disappearing carriages (Gunnery) (Plate V), XI, b 278
Disappointment islands (Tuamotu), XXIII, b 639 note
Disc, circular, Electrical density of, VIII, a 29
—— piles (Bridges), IV, b 295
Discarding (Whist), XXIV, a 575
Discharge in Bankruptcy, III, a 295, a 296, a 298
—— of liquids (Hydromechanics), XII, a 482–6, b 488, a 491–503; coefficients of (Hydromechanics), a 483, a b 484, a b 485, a b 491–2, a 495–6, b 497, b 505
Discharges from British Army, II, b 503
Discharging arches (Building) (Plates XX, XXI), IV, a *b* 416, a 422
Dischidia, genus (Insectivorous Plants), XIII, a 146
Discida, family (Protozoa), XIX, b 873
Discina, genus (Brachiopoda), IV, a b 172, b 174, *b* 175, b 176, b 177
Discinidæ, family (Brachiopoda), IV, a b 176
Disciples, calling of (Gospels), X, b 738, b 747
Discipline (Navy), XVII, a b 301, a b 305
—— (Methodism), XVI, a 196, a 197, b 201; Benedictine (Monachism), b 731; Christian (Penance), XVIII, a 496–9; church (Presbyterianism), XIX, a b 697; (Reformation), XX, b 333–4; reform of (Scotland), XXI, b 562; collegiate (Universities), XXIII, a b 959, a 960; Cromwell's army (Ireland), XIII, b 273
Discipline, First Book of (Presbyterianism), XIX, b 699; (Scotland), XXI, a 525; *Second Book of* (Presbyterianism), XIX, b 700, a 701, a 702; (Scotland), XXI, a 525, a 529
Discipline, Jewish (Synagogue), XXII, b 850–1; religious (Quakers), XX, b 154, b 155, a b 157, b 159; (Quakers in U. S.), a b 893; Roman (Army), II, a 493
Disclosure required in Patents, XVIII, b 360
Disco, island (Baffin's Bay), III, a 198; (Greenland), XI, b 148, b 149, *a* 150, b 152
Discoblastic development (Mollusca), XVI, a 708
Discoboli, fishes (Ichthyology), XII, a 716, b 719, a 720; (Lump-sucker), XV, b 66
Discobulus, statue (Archæology), II, a b 310; (Myron), XVII, a 128
Discoglossus, genus (Amphibia), I, a 673, a 674, a 675, b 677
Discognathus, genus (Ichthyology), XII, *a* 710, b 711, a 731
Discoidæ, sub-order (Hydrozoa), XII, a 599
Discomedusæ, order (Hydrozoa) (Ill.), XII, a 580, b 585, a 590–3
Discomycetes, sub-order (Fungus), IX, b 731–2; (Parasitism), XVIII, a 272
Disconnector (Torpedo), XXIII, b 478
Discontinuous intrinsic thermoscopes (Heat), XI, a 500
Discophora, order (Annelida) (Ill.), II, b 58, b 62–3
Discorbina, order (Foraminifera) (Ill.), IX, b 333
Discordant testimony (Probability), XIX, b 798–9
Discorsi (Machiavelli), XV, a b 150, a *b* 151, a 152
Discosaurus, fossil (Reptiles), XX, a 479
Discount, Arithmetic, II, a 471; (Agio), I, b 252; banks (Banking), III, a 283; bills, time of (Banking), a 284; on deferred payments (Insurance), XIII, a 178; fluctuations (Banking), III, b 280–1; table of rates, 1694–1845 (Banking), a 285
Discours de la Vie et de la Mort (Mornay), XVI, a 855
Discourse of Method (Descartes), VII, b 103, a 104, a b 105, a 106, b 110
—— *of Wit* (Abercromby), I, b 40
Discourses (Reynolds, Sir J.), XX, b 517
—— *and Dialogues* (Confucius), VI, a 233
"Discoverie," ship (Hudson), XII, b 346, a 347
Discoveries (Geography), X, a 157–76; in America, I, b 619–21
Discoveries (Jonson), XIII, b 754
Discovery, progress of (Geography), X, a 157–76
——, voyage of the (Geography), X, b 164–5
Discrasite (Mineralogy) (Ill.), XVI, b 408
Discrete masses, linear system (Wave), XXIV, b 439–40
Discurse der Maler, die (Periodicals), XVIII, a 552
DISCUS, quoit, VII, b 224
Disease (Borneo), IV, b 50–1; (Demonology), VII, a 54–5; (Egypt), a b 610; (Fever), IX, b 109–10; (Filter), a b 46, b 149; (Fire), b 201, a 202, note; (Fungus), b 728, b 734; (Hippocrates), XI, b 761–2; (Homœopathy), XII, b 129, b 131; (Insanity), XIII, b 101 *sq.*, a 106, a b 107; (Ireland), a b 244, a 245; (Italy), b 465; (Nepāl), XVII, a b 351; (New Guinea), b 398; (Pathology), XVIII, a 366–417
——, definition of (Medicine), XV, a 804–6; germs (Parasitism), XVIII, a 274–6; (Schizomycetes), XXI, a b 417, a b 425; hereditary (Breeds), IV, a 220; miasmatic (Plague), XIX, b 171; prevention of (Hygiene), XII, a 603; (Quarantine), XX, b 162–4; (Veterinary Science), XXIV, a 216–7; theory of (Broussais), IV, b 344; (Brown, John), a 346; (Plato), XIX, b 221
Diseased milk (Adulteration), I, b 153
Diseases of Artificers (Ackermann), I, a 92
Diseases of the poor. See Poverty, diseases of
DISEASES OF THE STOMACH, XXII, a 603–4
—— of teeth (Dentistry), VII, b 84–5
——, treatment of (Surgery), XXII, b 718–23
——, VESICAL, XXIV, a 204–7
Disembodied spirits (Manes), XV, a b 485
Disengagement governors (Steam-Engine) (Ill.), XXII, b 532–3
Disestablishment, church, (Ireland), XIII, a b 246, b 277
Disgavelling (Primogeniture), XIX, b 754
Disgrazia, peak (Valtellina), XXIV, b 51
Disherison (Roman Law), XX, a 715; jus civile (Roman Law), b 709, a 710; Justinian law (Roman Law), b 733–4
DISINFECTANTS, VII, b 224–5; (Bromine), IV, a 326; (Guyton De Morveau), XI, a 307, note; (Hygiene), XII, a 603; (Manganese), XV, b 488; (Thyme), XXIII, a 355; (Turpentine), b 711. See ANTISEPTICS
Disinfection (Hospital), XII, *a* 319
Disintegration of rocks (Geology), X, b 238–9, a 240, a b 241, a 243, b 244–5, b 248, b 250, b 253–4, a 256
Disk, floral (Botany) (Ill.), IV, b 126
—— method (Pneumatics), XIX, a b 260; principle (Lock), XIV, a 754; wheels (Mechanics) (Ill.), XV, a 765
Disks, suctorial (Mammalia) (Ill.), XV, a 416
DISLOCATION, VII, a 225; (Surgery), XXII, b 616–7; Greek treatment of (Surgery), b 708
Dislocations of rocks (Geology) (Ill.), X, a 267–71; (Norway), XVII, a b 502
DISMAL SWAMP, VII, a b 225
Dismissal (Master and Servant), XV, b 627
Disorderly houses (Sunday), XXII, a 690
Dispensaries (Garth), X, a 79; (Hospital), XII, b 319; (Ireland), XIII, a 245; (Poor Laws), XIX, b 487
DISPENSATION, in canon law, VII, b 225; (Crusades), VI, a 551; royal (Test Acts), XXIII, b 216
Dispensatory, U. S. (Wood), XXIV, *a* 914
Dispersion (Light), XIV, *a* 590, b 596, a 597, a 614; abnormal (Light), b 606;

- Dispersion, *continued* (Wave Theory), XXIV, b 484–5; in spectra, formula for (Wave Theory), a 462, b 474
- —— of animals (Distribution), VII, a 233, *a* b 240; of plants (Distribution), b 249, a 250, a 251, b 252; of races (Japheth), XIII, b 603; of the Jews (Philo), XVIII, b 773
- Displacement (Diagram), VII, a b 129; (Dynamics), a 503; (Hydromechanics), XII, b 457, b 460–1; distribution of, in strain (Elasticity), VII, b 711; Klein and Cayley's theorems (Measurement), XV, a 673–4
- —— of strata (Geology) (Ill.), X, a 267–71
- ——, Tonnage, XXIII, a 472
- *Display of Heraldry*, XI, b 636
- *Dispositio Achillea*, will (Prussia), XX, b 8, b 9
- *Disputa*, Vatican (Raphael) (Ill.), XX, a 290
- Disputation or eristic, Greek (Sophists), XXII, b 278–9, *a* b 280, a b 283
- *Disquisitiones Magicæ* (Demonology), VII, a b 55
- Disraeli, Benjamin, earl of Beaconsfield, *b.* 1804, *d.* 1881 (Cabinet), IV, a b 550; (Cobden), VI, a 81, a 82; (Derby), VII, a *b* 97, a 98; (D'Israeli), b 226; (England), VIII, b 328; (Lytton), XV, b 122; (Rymer), XXI, a 127, note
- D'ISRAELI, Isaac, critic, VII, b 225–6
- Dissecting Microscope (Ill.), XVI, a 288
- Dissection (Anatomy), I, a 702, a 703, a 705, a b 706, *b* 708, a 710, a 711, b 712; (Bell, Chas.), III, a b 466; (Caius), IV, b 575; (Clot), VI, a 37; (Hippocrates), XI, b 761; (Medicine), XV, a 811, b 813; art of (Aristotle), II, b 449 and note 7; (Pitcairne), XIX, *a* 142
- Disseisin (Abatement), I, b 12
- *Dissensions in Athens and Rome* (Swift), XXII, a 801
- Dissent, English, progress of, VIII, b 223
- Dissenters, (Clarendon), V, a 704; (Compton), VI, a 204; (Germany), X, *a* 422; (Hall, Robert), XI, b 349; (Huntington, Countess), XII, a 415; (Marriage), XV, b 573; (Methodism), XVI, a 195; (Priestley), XIX, a 750, b 751; (Prussia), XX, b 21; (Scotland), XXI, b 562, *a* 564, a 565; (Universities), XXIII, a 910; (Whig and Tory), XXIV, *b* 570
- ——, comprehension of (Presbyterianism), XIX, a b 710; defence of (Penn), XVIII, a b 505, b 506; persecution of (Bunyan), IV, a b 472, b 473; rise of the term (England), VIII, b 312
- *Dissenters, Shortest Way with* (Defoe), VII, b 25, a 29
- ——, German (Prussia), XX, b 21. See Dissidents
- ——, Mohammedan. See Kharijites
- Dissenters' marriages, English law on (Marriage), XV, b 573; (Peel), XVIII, b 466, a 467
- Dissenting denominations, list of (England), VIII, b 223–4
- Dissentis, convent (Grisons), XI, b 182, a 183
- "Dissidents" (German Catholics), X, a 400
- Dissipation of force (Electricity), VIII, a 10; (Energy), b 190–1; (Mohr), XVI, b 629; (Thermodynamics), XXIII, a b 306, a 308
- Dissociation, chemical (Chemistry), V, a 412, a 417; (Gunpowder), XI, b 288; (Molecule), XVI, a b 645; (Sainte-Claire Deville), XXI, b 174–5; (Wurtz), XXIV, a 739
- —— in explosive engines (Steam-Engine), XXII, a 553
- Dissonance (Music), XVII, b 112–3; (Monteverde), XVI, a 812
- Dissolution of Partnership, XVIII, a b 336
- "Dissolution," principle of nervous disease (Pathology), XVIII, a 402
- Dissolving views (Magic Lantern), XV, a 214
- Distaff (Linen Manufacture), XIV, a 671; (Yarn), XXIV, a 766
- Distance, definition of (Geometry), X, a 345; function (Measurement), XV, a 668–70; theory of (Measurement), a b 668–70
- ——, sense of (Light), XIV, b 582
- Distaplia, genus (Tunicata), XXIII, b 656
- Distemper (Fresco), IX, *a* 677, b 680; (Tempera), XXIII, a 173–4
- ——, disease (Hound), XII, *a* 329; (Medicine), XV, b 813; (Veterinary Science), XXIV, a 222
- Disthene (Mineralogy) (Ill.), XVI, a 426
- Distich (Proverbs), XIX, b 905, a 908
- *Disticha de Moribus* (Cato, Dionysius), V, b 210
- DISTILLATION, VII, b 226–31
  - alcoholic products, b 229–30
  - apparatus, a 227
  - definitions, b 226–7
  - destructive process, b 228
  - fractional theory, a 228
  - process theory, b 227–8
  - stills, fire, a 230–1
  - stills, steam, a b 231
  - water purification, b 228–9

- —— (Camphor), IV, a 672; (Glycerin), X, *b* 622–3; (Paraffin), XVIII, a b 242–3, a b 245; (Rum), XXI, b 64; (Sodium), XXII, b 253
- ——, ammoniacal (Nitrogen), XVII, a 530; of aniline oil (Coal Tar Colors), XVIII, a b 902; of coal (Coal Tar Colors), b 899–900; of Coal Tar, XXIII, b 63–4; dry (Tar), b 63; essential Oils, XVII, b 769; fractional (Paraffin), XVIII, a 246; of naphtha (Coal Tar Colors), b 900–1; nitric acid (Nitrogen), XVII, a 532; of Petroleum, XVIII, a b 726, b 728, a 732, a b 890; of Potassium, XIX, b 607; products of coal (Gas-Lighting), X, b 80, b 90–1; of tar (Coal Tar Colors), XVIII, a 900; of wood (Acetic Acid), I, b 88; (Water), XXIV, b 421; of Wood Tar, XXIII, b 62–3; (Zinc), XXIV, b 824
- Distilleries (India), XII, b 811; (Ireland), XIII, a b 238
- Distilling (Famines), IX, b 24
- Distoechurus, mammal (Phalanger), XVIII, a 743
- Distoma, anatomy of (Trematoda) (Ill.), XXIII, b 569–71; development of (Trematoda) (Ill.), a b 569, *b* 571, b 572
- Distomidæ, parasites (Trematoda), XXIII, b 573; (Tunicata), b 656
- Distortion of crystals (Mineralogy), XVI, b 381–3
- ——, measure of (Mechanics), XV, b 751
- Distraint (Agriculture), I, a 362, b 363. See DISTRESS
- DISTRESS, remedy in law, VII, b 231–2; (Brehon Law), IV, b 227–8; (Pound), XIX, *a* 668; (Rent), XX, *a* b 415, a 416; (Replevin), a 416; for rent (Landlord and Tenant), XIV, b 273, note, a 275
- *Distressed Mother*, drama (Philips), XVIII, a 768
- Distributing type (Typography), XXIII, b 747
- Distribution of Aurora, III, a 85–6
- —— of earthquakes (Geology), X, a b 227
- ——, electric (Ill.), VIII, a b 19; (Magnetism), XV, b 229–30, b 236, a 243–4
- —— of estates, statute of (Intestacy), XIII, b 203–4
- —— of lakes, XIV, b 217–8
- DISTRIBUTION of life, VII, a 232–52
  - ANIMALS, b 232–48
    - anomalous fossils, a 246–7
    - Australian region, b 236–7
    - cainozoic fauna, b 245–6
    - corallaria, a b 241
    - crustacea, b 241–3
    - dispersion, groupings and barriers, a b 233
    - echinodermata, b 241
    - Ethiopian region, a 235–6
    - evolution, palæontological, a 247–8
    - fossils, b 244–8
    - land animals, b 232–40
    - mammalian migrations, a b 240
    - marine faunas, b 240–4
    - mesozoic or secondary fauna, b 245
    - mollusca, a b 243
- DISTRIBUTION of life, *continued*
  - ANIMALS
    - nearctic region, b 238
    - neotropical region, a 237–8
    - oriental region, a b 236
    - palæartic region, a 234–5
    - palæozoic fauna, b 244
    - post-tertiary land vertebrates, a b 239
    - protozoa, a 241
    - regions, land, b 233–9
    - relations of marine and land faunas, a b 244
    - table, fossil time, a b 246
    - tertiary land mammals, b 239–40
    - vertebrates, marine, b 243–4
  - vertical land regions, b 232–3
  - nature of the science, a b 232
  - VEGETATION, b 248–52
    - Arctic-alpine flora, a b 250
    - authorities, b 252
    - causes of, a 249
    - history, b 248–9
    - northern flora, a 249–51
    - Southern hemisphere, b 251–2
    - temperate flora, north, b 250–1
    - tropical flora, a b 252

- —— (Amphibia), I, a b 675; (Annelida), II, b 60, a 62, *a* 63; (Ape), a b 146; (Asia), b 604–8; (Bear), III, b 398; (Birds), a 639–62; (Butterflies and Moths), IV, a b 529; (Eagle), VII, b 509–10; (Earwig), b 530; (Humble-bee), XII, b 356–7; (Humming-Bird), a b 373; (Hymenoptera), b 611–12; (Ichthyology), a 707–23; (Insects), XIII, a 148; (Lichens), XIV, a b 566; (Lion), b 685–6; (Mammalia), XV, a 375–7; (Ornithology), XVIII, a 10, b 36, a 40, note, b 44; (Oyster Catcher), a 115; (Parrot), b 327–8; (Parasitism), a b 264; (Pelican), a 486; (Rabbit), XX, b 199; (Reptiles), a 480–7; (Salmonidæ), XXI, b 231; (Sheep), b 821; (Snakes), XXII, b 199; (Sponges), a b 444; (Sugar-Bird), a 662, note; (Tape-Worm), XXIII, a 60; (Trogon), a 621; (Viper), XXIV, b 266; (Wagtail), b 337; (Walrus), b 358–9; bathymetrical (Atlantic Ocean), III, b 24–5; (Brachiopoda), IV, b 175–6
- —— of myths (Mythology), XVII, b 149
- ——, "provinces of" (Biology), III, b 591–2
- —— of satellites (Tides), XXIII, a b 406
- —— of steam (Steam-Engine) (Ill.), XXII, a 523–9

Distribution of volcanoes (Geology), X, a 225
—— of Water-Supply, XXIV, b 431-2
—— of wealth (Political Economy), XIX, a 387-9, *a* 393; (Wealth), XXIV, a 488; equitable (Socialism), XXII, *b* 217, b 229-30, b 231-2
Distributive law (Geometry), X, b 337
Distributor, type- (Typography), XXIII, b 746
District of Columbia, VI, b 150-1; (United States), XXIII, a 798, b 803, b 816, a 824, a b 853, b 878, b 883; (Universities), a 913, a b 958; (Washington), XXIV, a b 403-4, *b* 405
—— Court-martial, VI, a 460
—— courts (United States), XXIII, a 799
—— exchanges (Telephone) (Ill.), XXIII, a b 145
—— meetings (Methodism), XVI, b 196, a 197, a 198
—— prisons, Norway (Prison Discipline), XIX, a 781
Distringas, writ (Attachment), III, b 45; (Writ), XXIV, b 731
Dita Mundi (Ireland), XIII, b 235
Ditch (Fortification), IX, a 378, b 392, a 410
Ditchling Beacon (Sussex), XXII, b 760, a 763
Dithionic acid (Chemistry), V, b 439, b 440, a 441
DITHMARSCHEN or Ditmarch, district, VII, b 252-3; (Krantz), XIV, b 147; (Schleswig-Holstein), XXI *b* 433, note
Dithyramb or Dithyrambus, burlesque drama (Dionysus), VII, b 216; (Drama), a b 349; (Philoxenus), XVIII, a 811
Dithyrambic metre (Arion), II, a 442; (Pindar), XIX, a b 108
Ditrema argenteum, species (Ichthyology) (Ill.), XII, b 698, a 730
Ditrocha (Hymenoptera), XII, a 607, a b 610
Dittany, plant (Botany) (Ill.), IV, a 81; (Horticulture), XII, a 258
Dittes, Friedrich, educator (Education), VII, b 588, a 589
Dittmar, William, chemist (Pacific Ocean), XVIII, b 128, a 129; (Sea Water), XXI, a *b* 641, note, a *b* 642, *a* b 643, a b 644; his experiments (Manganese), XV, b 487. See List of Contributors
DITTON, Humphry, mathematician, VII, a 253
DIU, island and seaport, VII, a 253
Diurnal magnetic variations (Meteorology), XVI, a 173-4, a 189
—— pulse rhythm (Vascular system), XXIV, a 114
—— temperatures (Meteorology), XVI, b 121
—— Tides, XXIII, a b 377, b 380, b 381, *a* b 382, a 385, b 386, a 390-1; schedules of (Tides), b 388, a 389, a 393
—— variations of pressure (Atmosphere), III, b 27-9
Diurnation (Hibernation), XI, b 703
DIURETICS, VII, a b 253; (Digitalis), b 207; (Gin), X, a 528; (Mineral Waters), XVI, b 451
Div, evil spirits (Zoroaster), XXIV, b 860
DIVAN or Diwan, government office, VII, a 253-4; (Egypt), b 627; (Mohammedanism), XVI, a 612, a 613; of Bengal (Hastings), XI, b 458
Díván, poems (Háfiz), XI, *b* 328-9. See *Diwán*
Divas, islands (Maldive Islands), XV, b 332, a 333
DIVER, bird, VII, a 254; (Birds), III, b 627, a 630, a 633, b 652
Divergency of infinite series (Algebra), I, a b 495
Divergent parabola (Geometry) (Ill.), X, a 368
Diversions of Purley, treatise (Tooke), XXIII, a 474
Dividends of Bank of England (Banking), III, a 285; Bank of France (Banking), b 292; Bank of Scotland (Banking), b 287; life (Insurance), XIII, b 184-5, a 190
Dividing engine (Graduation) (Ill.), XI, a 27-8; plate (Graduation), *a* 27
DIVIDIVI, plant, VII, a 254; (Leather), XIV, a 382
Divina Commedia (Dante), VI, a b 717; (Eccelino), VII, b 538; (Italy), XIII, b 511, a 513-4; (John of Saxony), b 726; translation (Longfellow), XIV, b 872
Divinarum Institutionum Libri (Lactantius Firmianus), XIV, b 196
DIVINATION, VII, a 254-5; (Apparitions), II, a 178; (Artemidorus), a 562; (Augurs), III, a b 64; (China), V, b 573; (Chrysippus), b 660; (Confucius), VI, a b 233; (Cratippus), a 491; (Etruria), VIII, a 557; (Háfiz), XI, b 328; (Haruspices), b 446-7; (Hazel), b 490; (Lapland), XIV, a b 307; (Magic), XV, a b 202, a b 203, b 204, a 207; (Ordeal), XVII, b 842; (Priest), XIX, b 744; (Prophet), b 842; (Scythia), XXI, a 603; (Scotland), a 497; (Stoics), XXII, b 598
Divine, conception of the (Theism), XXIII, a 253, b 254, a 255
Divine Dialogues (More, Henry), XVI, b 841
—— *Doctrine, Book of* (Catherine), V, a 202
—— *and Human Love*, painting (Titian), XXIII, b 443-4
—— illumination, theory of (Norris), XVII, a 566; (Socrates), XXII, a b 246, b 247, b 251. See Conversion, Inspiration
—— Law, XIV, b 356
—— *Legation of Moses* (Warburton), XXIV, a *b* 389
—— *Looking Glass* (Muggleton), XVII, b 18
—— *Love and Divine Wisdom* (Swedenborg), XXII, b 797
—— right of kings (Filmer, Sir R.), IX, b 145; (Prerogative), XIX, a 692
—— sovereignty (Edwards, J.), VII, a b 598
DIVING (Ill.), VII, a 255-60
  bells (Ill.), b 255-6
  depth, a 259, b 260
  dress (Ill.), b 257-8
  early, a b 255
  health, b 260
  lighters (Ill.), b 257-8
  sensations, divers,' b 259-60
  staging (Ill.), b 256-7
  Tyne, work on the, b 259
——, art (Pearl), XVIII, b 457-8; (Sponges), XXII, a b 445; (Swimming), a 809; bell (Tartaglia), XXIII, a 74; Petrels, XVIII, a 725
Divining rod (Divination), VII, a 255; (Hazel), XI, b 490
Divinity of Jesus Christ, XIII, a b 681-2
Division (Algebra), I, a 462-4; (Arithmetic), II, b 463; compound (Arithmetic), a 469; of fractions (Algebra), I, a 470; (Arithmetic), II, a 465, a b 466; of surds (Algebra), I, a 472
—— of labor (Typography), XXIII, b 756; (Workingmen, U. S.), XXIV, b 917
——, logical (Logic), XIV, a 798
——, metaphysical (Analysis), I, a 699
——, propagation by (Horticulture), XII, b 240
Divisions in Parliament, XVIII, a 318
Divisors (Arithmetic), II, a b 464; common (Numbers), XVII, a b 631; table of (Tables), XXIII, b 11
Divitiacus, chief of the Aedui (Soissons), XXII, b 260
Divodurum, town (Metz), XVI, a 212
Divona, town and fountain (Cahors), IV, a 570
DIVORCE, VII, b 260-5
  Act, Victorian, a 262-3
  bars to, a b 263
  conflict of laws, b 264-5
  ecclesiastical inheritance, a b 263
  English law, b 261-3
  France, b 264
  origin, b 260-1
  Roman law, a b 261
  Scotch law, b 263-4
  United States law, a b 264, a 265
—— (Adultery), I, b 160-1; (Bigamy), III, a 578; (Egypt), VII, b 628; (Jews), XIII, b 693; (Law), XIV, a 367; (Maine), XV, b 302; (Marriage), *b* 575; (Malachi), a 317; (Milton, John), XVI, b 341, a b 342; (Nepāl), XVII, b 352; (New Hampshire), b 401; (Roman Law), XX, b 694, b 705-6, b 714-5, a 725, b 729-30, a 732; (Switzerland), XXII, a b 817; (Women), XXIV, b 674
—— court, English VII, a 262; (Cresswell), VI, a 503; (Pleading), XIX, a 231
——, effect upon property of (Women), XXIV, a 910
—— of Henry VIII. (Cranmer), VI, a b 486; (Henry VIII.), XI, a b 592; (Mary I.), XV, b 599, a 600; (More, Sir Thomas), XVI, a 844
Diwân. See DIVAN
—— poets' works (Mohammedanism), XVI, a 618
Diwán, poetic collections (Anwari), II, a 129; (Háfiz), XI, b 328-9; (Hindustani Literature), a *b* 756; (Motanabbi), XVII, b 7; (Nizami), a 536; (Rúdagí), XXI, a 55; (Sa'di), b 151. See DIVAN
Dix, John Adams, general and governor, *b.* 1798, *d.* 1879 (Pacific Railroads), XIX, a 914; (United States), XXIII, b 822
Dixmerie, Nicolas Bricaire de la. See LA DIXMERIE
DIXON, George, navigator, VII, a b 265
——, Jeremiah, astronomer (Maskelyne), XV, a 616
——, Joseph, chemist (Photography), XVIII, b 844
Diyála, river (Tigris), XXIII, a 413
Díyárbekrí, biographer (Tabarí), XXIII, a 9
Dizé, chemist (Gold), X, b 666
Dizful river (Luristan), XV, *a* 70; (Susa), XXII, *a* 760
DIZFUL or Desful, town, VII, b 265; (Khúzistán), XIV, a 70
Djabik-Karagai, plateau (Ural Mountains), XXIV, a 9
Djeddah or Djiddah, town. See JIDDAH
Djida river (Transbaikalia), XXIII, b 541, a 543
Djrung yg, epic (Tibet), XXIII, a 370
Djurgarden, park (Stockholm), XXII, b 587
Djustendil, town (Kostendil), XIV, a 144
Dlugosz, Jan, historian (Poland), XIX, a 297, a 298, b 300, a 301, b 311
Dmitri Donskoi, grand duke (Russia), XXI, a b 99, b 112
—— or Demetrius the False (Poland), XIX, b 305; (Russia), XXI, b 102-4, b 116
—— Ivanovitch, prince (Russia), XXI, b 101-2; (Uglitch), XXIII, b 765
DMITRIEFF, Ivan Ivanovitch, poet, VII, a 265; (Russia), XXI, a 115
Dmitrievsk, town (Kamuishin), XIII, b 843
DMITROFF, town, VII, b 265-6
DMITROVSK, town, VII, a 266; (Orel), XVII, a 850
DNIEPER, river, VII, a b 266; (Black Sea), III, b 692; (Kherson), XIV, *a* 64; (Kieff), *a b* 71; (Minsk), XVI, a b 501; (Moghileff), a b 567; (Nikopol), XVII, *b* 517; (Odessa), a 745; (Poltava), XIX, b 423, a 424; (Russia), XXI, *a b* 80, b 83,

DNIEPER, *continued*
  a 86; (Scythia), b 602, *b* 603; (Smolensk), XXII, *a* 194; (Taurida), XXIII, b 89; islands of (Cossacks), VI, b 396–7
DNIESTER, river, VII, b 266; (Austria), III, b 101; (Black Sea), a 691, b 692; (Bessarabia), *b* 531; (Odessa), XVII, a 745; (Podolia), XIX, a 266; (Russia), XXI, b 80
DOAB or Duab, district, VII, b 266; (Jalandhar), XIII, b 555, a 556; (Muzaffarnagar), XVII, a 121; (N. W. Provinces), b 585, *a* 587; (Punjab), XX, b 112; (Saharanpur), XXI, *a* 160
Doan, wadi (Arabia), II, b 207
Dobbo, town (Aru Islands), II, b 585
Dobbs, Arthur, governor (Tryon), b XXIII, b 946
——, Arthur, statistician (Ireland), XIII, b 235, a 237, a b 239, b 248
DOBELL, Sydney, poet, VII, b 266–7; (Smith), XXII, a 182; (Sonnet), b 276
Döbereiner lamp (Matches), XV, *b* 631
DOBELN, town, VII, b 267
Döben, village (Grimma), XI, a 180
DOBERAN or Dobberan, town, VII, b 267
"Dobla de la Vanda," coin (Numismatics), XVII, b 673
Döbler, Louis, physician (Legerdemain), XIV, b 415
DOBRENTEI, Gabor or Gabriel, philologist and poet, VII, b 267–8; (Hungary), XII, a 390, *a* 391, b 392
—— *codex* (Hungary), XII, a 390
Dobrînichi, battle of, 1605 (Russia), XXI, *a* 103
DOBRIZHOFFER, Martin, missionary, VII, a 268; (Abipones), I, a 52; (Coleridge, Sara), VI, b 125
DOBROWSKY, Joseph, philologist, VII, a b 268; (Hanka), XI, *b* 393, a 394; (Slavs), XXII, *a* 156, *a* 158, b 159, b 161
DOBRUDJA or Dobrudscha, district, VII, b 268; (Roumania), XXI, b 18, a 19, *a* 27; (Scythia), *a* 605; (Turkey), XXIII, a 693, note, b 694
DOBSCHAU or Dobsina, town, VII, b 268
DOBSON, William, painter, VII, b 268
Doccia Ware (Italy), XIII, b 464
DOCETÆ, heretics, VII, a 269
Docetism (Heresy), XI, b 656, b 658; (Jesus Christ), XIII, b 681
Docimia quarries (Kara-Hissar), XIV, a 4
DOCK or Rumex, plant, VII, a 269; (Botany) (Ill.), IV, b 136, a 137
Dock in Theatre, XXIII, a 244
DOCKS for ships (Plates X–XII), XI, b 416–21; (Antwerp), II, b 127; (Barrow-in-Furness), III, a b 341; (Birkenhead), a b 677; (Brooklyn), IV, b 334; (Cardiff), V, *a* 83; (Dundee), VII, b 461–2; (Geestemünde), X, a 115; (Glasgow), a 571; (Grimsby), XI, a 180; (Hull), XII, b 354–5; (Ipswich), XIII, b 218; (Leith), XIV, a 432; (Liverpool), a b 722, b 723; (London), a b 840–1; (Marseilles), XV, b 578; (Newport, Monmouthshire), XVII, b 416; (New York), b 477; (Plymouth), XIX, a 249; (Preston), a 738; (Southampton), XXII, b 296; (Sunderland), a 692; (Swansea), a 771; (Sydney), b 847; Tyne (Jarrow-on-Tyne), XIII, a 604
Dockwra, William (Post-Office), XIX, b 580, b 581
DOCKYARDS, VII, b 269–77
  Chatham, b 270–1, 275
  Deptford, a 270
  early British navy, b 269
  foreign, b 276–7
  history of management, b 274–5
  list of British, 275
  miscellaneous yards, a 274, b 276–7
  organization of, a 274, b 276
  Pembroke, a 274, 275
  Portsmouth, a 272–3, 275
  Plymouth, b 273–4
  schools, naval, a 273
  Sheerness, b 271, 275
  victualling yard, b 273, b 276
  Woolwich, b 270, 275

—— (Brest), IV, b 232; (Devonport), VII, *a* 120; (Kiel), XIV, b 73; (Pembroke), XVIII, b 493; (Sheerness), XXI, *a* 822; (Singapore), XXII, a 101
Docmac, fish (Siluridæ), XXII, a 75
DOCTOR, title, VII, a 277. See Degrees, scholastic
—— of the Church, title (Liguori), XIV, a b 643
Doctor Faustus (Greene), XI, b 147; (Marlowe), XV, b 563–4
—— *Syntax, Tours of* (Rowlandson), XXI, b 38
Doctor, universalis (Alain de Lille), I, b 390
Doctors, order of (Presbyterianism), XIX, b 696, a 698, b 707
DOCTORS' COMMONS, society, VII, a 277
Doctrina Numorum Veterum (Eckhel), VII, b 557
DOCTRINAIRES, party, VII, a 277; (Broglie, duc de), IV, b 324; (France), IX, a 545; (Guizot), XI, a b 238
Doctrinale, of Alexander Gallus (Typography), XXIII, a 725, a 733, *a b* 735, note
Doctrine Catholique, Exposition de la (Bossuet), IV, a 63
Doctrine, Church (Creeds), VI, a 494–500; (Dogmatic), VII, b 288–97; (Heresy), XI, b 655–60; (Jesus Christ), XIII, a b 681–2; historical place of (Church History), V, a *b* 665. See Confession of Faith, CREEDS, Dogma, THEISM, THEOLOGY
Doctrine of Grace (Warburton), XXIV, b 389
—— *of the Mean* (China), V, b 574; (Confucius), VI, *a* 233
—— Zoroastrian (Zoroaster), XXIV, b 861–3
Documentary testimony (Church History), V, *a* 666; (Evidence), VIII, a b 650
Documents, legal (Stamps), XXII, b 465–6
——, study of (Diplomatics), VII, a 220–2
Dodábetta, peak (India), XII, a 772; (Madras), XV, b 185; (Nilgiri Hills), XVII, a 522
DODD, Dr. William, forger, VII, b 277
DODDER or Cuscuta, plant, VII, b 277–8; (Botany) (Plate X), IV, a b 84, b 98; (Parasitism), XVIII, a b 269, note
Doddington, parish (Cambridge), IV, b 644
——, ship, wreck of (Zululand), XXIV, b 867
DODDRIDGE, Philip, theologian, VII, a 278; (Hymns), XII, *a* 628; (Priestley), XIX, *a* 750
——, Sir John, justice (Knighthood), XIV, a 126
Dodd's case-hardening process (Iron), XIII, b 351
—— range, mountains (Formosa), IX, a 366
Dodecahedron (Geometry), X, *a* 346; construction of (Pythagoras), XX, *a* 148; in crystals (Mineralogy), XVI, b 360, b 363, a 365, *b* 367, a b 368, b 382
DODERLEIN, Johann Christoph Wilhelm Ludwig, philologist, VII, b 278
Dodington, George Bubb, Lord Melcombe, politician (Johnson, S.), XIII, a 734
DODO, extinct bird, VII, b 278–80; (Birds), III, b 634–5; (Butterflies), IV, a 531; (Gare-fowl), X, b 71; (Mauritius), XV, b 647; (Ornithology), XVIII, a 50; (Pigeon), XIX, a 94
DODONA in Epirus, town, VII, a b 280; (Janina), XIII, a 575; temple of (Oracle), XVII, b 832; (Inscriptions) (Plate I), XIII, a 128
DODSLEY, Robert, dramatist, VII, b 280–1; (Akenside), I, a b 386
Dodson, James, mathematician (Insurance), XIII, b 186–7; (Tables), XXIII, a 17
DODWELL, Edward, antiquary, VII, a 281
——, Henry, controversialist, VII, a 281; (Deism), a 31, b 32
Doe, John and Richard Roe (Ejectment), VII, a 687
Does, Jan van der. See DOUSA
Doffer roller (Wool), XXIV, b 693
Doffingen, battle of, 1388 (Wenceslaus), XXIV, b 528
DOG (Ill.), VII, b 281–7
  characteristics of, b 282
  greyhound (Ill.), b 284–5
  history of, a b 282
  hounds (Ill.), a 285–6
DOG, *continued*
  mastiff (Ill.), b 286–7
  Newfoundland dog (Ill.), b 283–4
  sheep-dogs (Ill.), a b 283
  spaniels (Ill.), a 285
  terriers (Ill.), b 287
  wolf-dogs (Ill.), a 283–4
  zoological relations of, b 281–2

——, cardiac pulsations in (Vascular System), XXIV, a 110, a 111, b 116, a *b* 118; diseases of (Veterinary Science), a 222; lumbar region of (Mammalia) (Ill.), XV, b 359; Nutritive System of (Ill.), XVII, b 688, b 691, b 692, b 695; parasites of (Veterinary Science), XXIV, a *b* 223; skin (Glove), X, a 618; skull of (Mammalia) (Ill.), XV, a 358; teeth (Mammalia) (Ill.), a 356; vertebra of (Mammalia) (Ill.), b 359, a 360. See Dogs
—— in Heraldry, XI, a 624; in Zodiac, XXIV, b 831, a 832
—— days (July), XIII, a 782
DOGE, title, VII, b 287–8
Doges of Venice (Italy), XIII, a b 490; (Morosini), XVI, a 863; (Numismatics), XVII, b 675; rise of (Venice), XXIV, a b 153, a b 154
DOG-FISH, VII, a b 288; (Columbia, British), VI, *b* 152; (Ichthyology), XII, a 717; (Shark) (Ill.), XXI, a b 811, a b 815; (Touch), XXIII, b 508
Dogger bank (Fisheries), IX, a b 223; (North Sea), XVII, a b 577
Doggett, Thomas, comedian (Rowing), XXI, a 36
Doghaba river (Hindú Kúsh), XI, a 749
Dogmas, Mohammedanism, XVI, b 614
DOGMATIC, VII, b 288–97
  apologetic period, a 294
  confessional period, a b 297
  consciousness, Christian, b 291
  literature, b 296–7
  method of, a 292–3
  modern period, b 296
  nature and place of, a 289–90
  need of, a b 290
  polemic period, a 294–5
  possibility of, a 290–1
  progressive nature of, a 293–4
  reformation period, b 295–6
  revelation, a b 291
  scholastic period, a b 295
  sources of, b 290–2
  term defined, a 288–9

—— (Church History), V, b 665; (Heresy), XI, b 656–7; (Metaphysic), XVI, b 99, b 100; (Origen), XVII, b 863, b 865–6; mischief of (Christianity), V, b 609; its relation to Apologetics, II, a 166; to ethics (Theology), XXIII, a 294. See Doctrine
Dogmatic, Compendium of (Michælis), XVI, b 236

Dogmatic literature (Theodoret), XXIII, a b 275; German (Baur), III, b 388; (Gieseler), X, a 526; (Hagenbach), XI, *b* 330; Hahn, A.), b 333; (Lutherans), XV, a 86; theology (Theodore), XXIII, b 274-5; (Theodoret), a b 275. See Doctrine

Dogmatik (Bretschneider), IV, a b 234

Dogmatism (Hegel), XI, a b 552; defined (Jerrold), XIII, a 644

Dogmengeschichte (Gieseler), X, b 526; *compendium der* (Baumgarten - Crusius), III, a 387

Dogra, clan (Gilgit), X, b 534; (Punjab), XX, a 115, b 116

Dogs (Afghânistân), I, a 210; (Arabia), II, b 211; (Breeds), IV, a 222, a 223, a b 224; (Canary Islands), a 704; (Egypt), VII, b 610, a 617; (Eskimo), VIII, b 281, a 283; (Hermes), XI, b 670; (Hound), XII, b 328-30; (Hunting), b 408; (Instinct), XIII, *b* 165-6; (Ireland), a 262; (Japan), a 585; (Newfoundland), XVII, a 393; (Rabies), XX, b 206-8; (Tobit), XXIII, b 456

——, classification of (Mammalia), XV, a 444-5; pointing (Partridge), XVIII, a 338; superstition of (Apparitions), II, a 181; tailless (Breeds), IV, a 222; wild (Cuba), VI, b 601; (India), XII, b 779

Dog's grotto (Water), XXIV, b 420

Dog-tax (Police), XIX, a 348

—— -tick (Mite), XVI, a 553

Dog's-tooth violet (Horticulture), XII, b 258

Dogtooth decoration (Architecture), II, a 407, b 411

Dog-violet (Botany), IV, a 100

Dog-watch defined (Seamanship), XXI, a 633

DOGWOOD, plants, VII, a b 297; (Gunpowder), XI, *b* 285, a 292; (United States), XXIII, b 860

Dohna, Christoph von, envoy (Sarpi), XXI, *b* 327

Dohrn, Anton, zoologist (Arachnida), II, a 243; (Crustacea), VI, a 572, b 573, a b 574, note, b 578 note; (Hemiptera), XI, a 577; (Vertebrata), XXIV, a 195, a b 198, b 203; (Zoology), *b* 580, b 853

——, Heinrich, zoologist (Tunicata), XXIII, a b 658, note

Dokela mountains (Tibet), XXIII, b 362

Dokhn, food (Kordofan), XIV, b 141

Dokthol· province (Tibet), XXIII, *a* 361

DOL, town, VII, b 297; canton (Ille-et-Vilaine), XII, *a* 742

Dola, weight (Weights and Measures), XXIV, b 518

DOLABELLA, Publius Cornelius, general, VII, b 297-8; (Verres), XXIV, a 189

Dolabra (Guillotine), XI, b 233

Dolanor, city (Lama-Miau), XIV, b 231

Dolbear, Amos Emerson, physicist (Telephone), XXIII, a 139, a 931, a 932

DOLCE, Ludovico or Luigi, author, VII, a 298

DOLCI, Carlo or Carlino, painter, VII, a b 298

Dolcino of Novarra, sectary (Apostolici), II, b 173

Dolcoath mine, Cornwall (Mining) (Ill.), XVI, b 472-3, a 484

DOLE, town, VII, b 298; mountain (France), IX, a 446; (Jura), XIII, *a b* 791

Dole, Sanford, naturalist (Hawaiian Islands), XI, *b* 473

Dolent, Mont (Switzerland), XXII, *a* 814

Dolerite, rock (Geology), X, a 210; intrusive (Geology), b 274, b 275

DOLET, Etienne, author, VII, b 298-9; (Rabelais), XX, a b 201, *a* 202

DOLGELLY, town, VII, a b 299

Dolgorouki, house of (Menshikoff), XVI, *a* 17; faction (Russia), XXI, a *b* 106

——, George, of Suzdal, prince (Russia), XXI, *a* 98

——, Ivan, prince (Berezoff), III, a 507

——, Yuri Alexievitch, chief (St. Petersburg), XXI, a 205

Dolichonyx, bird (Icterus), XII, a 736

Dolichos Catjang (Gram), XI, a 34

Dolichotis, genus of rodents (Cavy), V, b 240; (Mammalia), XV, a 426

Doliolidæ, family of Tunicata, XXIII, a 654-5

Doliolum, genus of Tunicata (Ill.), XXIII, a b 654

Döll, botanist (Grasses), XI, a b 49, b 50, b 53

Dollar, coin (Money), XVI, 759, note

——, village (Clackmannan), V, a *b* 697

—— law, hill (Peebles), XVIII, a 462

Dollart Zee, bay (Germany), X, a 402; (Holland), XII, b 61, a 62; (North Sea), XVII, a 577

Dollfus, geologist (Guatemala), XI, *b* 212, note, b 214

Dollfuss, John, philanthropist (Mülhasen), XVII, b 21

Döllinger, Ignatius, physician (Universities), XXIII, a 902

——, Johann Joseph Ignaz, theologian (Huber, J.), XII, b 341; (Joan, Popess), XIII, a b 706; (Old Catholics), XVII, a *b* 776, b 777; (Socialism), XXII, a 227

DOLLOND, John, optician, VII, b 299; (Micrometer) (Ill.), XVI, b 259 *sq.*, a 262; (Microscope), b 272; (Telescope), XXIII, a b 149, note, a 150, a 154, b 156

——, Peter, optician (Telescope), XXIII, a 150, b 158

Dolmens, monuments (Architecture) (Ill.), II, b 335; (Aveyron), III, a 132; (Ballma), a 249; (Barrows), a 313; (Carnac), V, b 104; (Cromlech), VI, a 528; (Devonshire), VII, b 122; (Druidism), a 413; (Poitiers), XIX, b 293; (Rude Stone Monuments), XXI, b 56, *b* 57-8

Dolni-Mahlé, locality (Shumla), XXI, *a* 888

DOLOMIEU, Déodat Guy Silvain Tancrède Gratet de, geologist, VII, b 299

Dolomite, mineral (Alps), I, b 554; (Dolomieu), VII, a 300; (Geology), X, b 203, a 207, a 308, b 311; (Kansas), XIII, a 852; rock (Lime), XIV, b 653; (Mineralogy), XVI, b 385, b 390, b 392, a 414

DOLPHIN, cetacean, VII, a b 300; (Whale), XXIV, b 551; classification of (Mammalia) (Ill.), XV, b 395, b 396, b 403; Distribution of VII, a 244; (Mammalia), XV, a b 376; Gangetic, (India), XII, b 781-2; freshwater, eyes of (Mammalia), XV, a 370; respiration of (Mammalia), b 368; teeth (Mammalia) (Ill.), a 355, a 357

—— coryphæna, fish, VII, b 300; (Ichthyology), XII, a 728

—— in Heraldry, XI, b 625, a 626; in legend (Arion), II, a 442

Dolphin's rise (Atlantic Ocean), III, b 16, b 21

Dolus, fraud (Sale), XXI, a 216

Dom, peak (Valais), XXIV, a 37

Domaîrî. See Damîrî

DOMAT or Daumat, Jean, jurist, VII, b 300

Dombey and Son, novel (Dickens), VII, a 153

DOMBROWSKI, Jan Henryk, general, VII, a 301

DOME, VII, a 301-2; (Architecture), II, a 407; (Baghdad), III, a 201; concrete cast (Rome), XX, a 827, note; in Gothic Architecture, II, a b 376, a 379, b 380, a 381; Indian (Architecture), II, b 346-7; Saracenic (Architecture), a *b* 390

Dome of the Rock, mosque (Sepulchre, Holy), XXI, a b 704-5, notes; (Temple), XXIII, *a* b 185; lamp from (Pottery and Porcelain) (Ill.), XIX, b 639, a 640

Dome-boc, King Alfred (Domesday-Book), VII, b 303

Domenichi, Louis, translator, (Jovius), XIII, a 767

DOMENICHINO or Domenico Zampieri, painter, VII, a 302-3

Domenico Greco, or Teoscopoli, engraver (Titian), XXIII, b 443

—— di Pisa, artist (Glass), X, b 597

—— Veneziano, painter (Sebastiano), XXI, b 646

Domes of crystals (Mineralogy) (Ill.), XVI, b 373, a 375

DOMESDAY BOOK, VII, a 303-4; (Ellis), VIII, b 139; (England), a b 265, a 266; (Finance), IX, a b 153; (Harold II.), XI, *b* 435; (Knighthood), XIV, a 113, *b* 114, a b 115; (Lancashire), a 255; (Oxford), XVIII, a b 102; *new* (England), VIII, a 202

Domestic animals, statistical table of (Europe), VIII, a b 611

—— servants. See Servants and Labor, Domestic

Domestication of animals (Acclimatization), I, b 80, b 81, a 83; (Breeds), IV, b 222, a 223, a b 225; (Canary), *a* b 702; (Hybridism), XII, b 438, a 439, a b 440; (Ichthyology), a 103; (Instinct), XIII, a b 165; (Rabbit), XX, b 199; (Sheep), XXI, a b 821; (Variation and Selection), XXIV, a b 85, a 87

Domett, cotton flannel (Flannel), IX, a 255

Domeykite (Mineralogy), XVI, b 409

DOMICILE, in law, VII, a 304-6; (Divorce), a 265; (International Law), XIII, b 197-8; (Intestacy), *b* 204; (Will), XXIV, a 606; right of (Ireland), XIII, b 263

Dominant (Music), XVII, a 103, *a* 108; seventh chord of the (Music), b 92

Domini Canes (Inquisition), XIII, b 99

DOMINIC, Guzman, St., VII, a 306-7; (Frances), IX, a 478; (Francis, St.), b 610; (Inquisition), XIII, a 99; (Monachism), XVI, a b 736; (Orange), XVII, b 834

—— the Cuirassier, hermit (Penance), XVIII, b 497

DOMINICA or Dominique, island, VII, a b 307; (West Indies), XXIV, b 538

——, republic of or Dominican Republic. See San Domingo

"—— in Albis" (Alb), I, b 394

——, battle of, 1782 (Rodney), XX, b 633-4

Dominical letter (A), I, a 10; (Calendar), IV, b 593-4, b 599

Dominican order. See DOMINICANS

DOMINICANS, order, VII, b 307; (Abbey), I, a 27; (California), IV, b 615; (Catherine), V, *b* 200, a 201; (Immaculate Conception), XII, a b 754; (Inquisition), XIII, a 99-100; (Italy), a 485, b 510; (Missions), XVI, a 536; (Monachism), b 736-7, a b 742; (Scholasticism), XXI, a 445, b 446, b 448; (Tauler), XXIII, a b 88; (Templars) b 179, b 180; in France (Lacordaire), XIV, b 194-5

Dominici, Bernardo de, painter (Ribera), XX, a b 547

Dominion of Canada, IV, a b 676, *a* 677, a 678-91; (Columbia, British), VI, b 151-3; (Newspapers), XVII, b 447. See CANADA

Dominique, island. See DOMINICA

Dominiques, fowl (Poultry), XIX, a 665

DOMINIS, Marc Antonio de, theologian, VII, b 307

Dominium bonitarium (Roman Law), XX, *a* b 717

Dominium ex jure Quiritium (Roman Law), XX, a b 707, a b 717
——, theory of (Lollards), XIV, a 820; (Wycliffe), XXIV, b 744-5
Dominus ac Redemptor, papal brief (Jesuits), XIII, a 666; (Popedom), XIX, a 522
DOMITIAN, Titus Flavius, emperor, VII, a b 308; (Gladiators), X, a 563; (Juvenal), XIII, b 814, a 815, a 816; (Libraries), XIV, *a* 511; (Martial), XV, b 584, *a* 586; (Massinger), b 625; (Mœsia), XVI, a 566; (Rome), XX, b 790 note, a b 791; (Statius), XXII, *b* 484; (Tacitus), XXIII, b 24; (Trajan), *a* 535, a 536; (Vesta), XXIV, a 210
—— Age (Roman Literature), XX, b 745
Domitianus, Lucius Domitius, general (Egypt), VII, b 648
Domitilla, cemetery of St. (Catacombs), V, b 182, b 186 note
Domkirche (Cathedral), V, a 197; (Riga), XX, b 568
Domnall, king (Ireland), XIII, b 256
—— Brec, king of Alba (Ireland), XIII, b 256
——, O'Neill (Ireland), XIII, b 258
Domninus, St. (Borgo San Donnino), IV, b 48
Domostroi, book (Russia), XXI, b 112-3
Domovoy, Russian brownie (Apparitions), II, a 178
Dompo, state and town (Sumbawa), XXII, *a* 675
Doms or Domrās, caste (Assam), II, a 631; (Hindustani Literature), XI, b 755
DON, river, VII, b 308-9; (Black Sea), III, *b* 691, b 692; (Rostoff), XX, b 884, *a* 885; (Russia), XXI, *a* 80, a 81, b 83, a b 93; (Saratoff), a b 319; (Tamboff), XXIII, b 45; (Tula), b 642; (Volga), XXIV, a b 299, b 301; (Voronezh), a *b* 318
——, river (Aberdeenshire), I, b 46
——, river (Derby), VII, *a* 93; (York), XXIV, b 784, a 786
——, Sir George, general (Gibraltar), X, b 521, a 522
Doña Ana, pass (Chili), V, b 535
Donabyu, town (Thúnkhwa), XXIII, a 351
DONAGHADEE, town, VII, b 309
Donald I., king (Scotland), XXI, b 500
—— II., king (Scotland), XXI, *b* 500
—— V., king (Scotland), XXI, b 497
—— VIII., Bain, king (Scotland), XXI, b 503-4
—— of the Isles (Inverness), XIII, *a* 207; (James I., Scotland), b 565; (Scotland), XXI, a 514
Donaldson, James (Agriculture), I, a b 268
DONALDSON, John William, philologist, VII, a 310; (Alphabet), I, *a* 538
Donaldson's Hospital (Edinburgh), VII, a 578; (Deaf and Dumb), b 10 note
Donar or Thor, god (Germany), X, a 426, b 429
DONATELLO or Donato di Belto di Bardo, sculptor, VII, b 310-1; (Mural Decoration), XVII, b 40; (Ghiberti), X, *a* 506; (Michel Angelo), XVI, a 238, a 239; (Padua), XVIII, a 136; (Robbia), XX, *b* 604; (Sculpture), XXI, a b 595
Donati, family (Dante), VI, a b 714, a *b* 715
DONATI, Giovanni Battista, astronomer, VII, a 311
Donati's comet (Astronomy), II, a b 713
Donatio ante nuptias (Roman Law), XX, a b 732; mortis causa (Gift), X, a 527; (Will), XXIV, a 605
Donation of Constantine, VI, b 268; (Popedom), XIX, a 505, note, b 509; (Rome), XX, b 803, *a* 804; (Sylvester I.), XXII, a 81; (Valla), XXIV, b 48
DONATISTS, sect, VII, a 311-2; (Augustine), III, b 67-8
Donatus of Casæ Nigræ, sectary (Donatists), VII, a b 311, note
DONATUS, Ælius, grammarian, VII, a b 312; (Grammar), XI, a 39; (Jerome), XIII, b 640; (Typography), XXIII, a 735
Donatus Magnus, bishop (Donatists), VII, a *b* 311, note
Donatus, Latin grammar (Typography), XXIII, a 723, a 725, b 727, *a* 728, a b 731, note, a b 732, b 734, a b 735, a 736
Donatz Proensals (Provençal Literature), XIX, b 901
DONAUWORTH, town, VII, b 312
Don Carlos. See Carlos
Don Carlos, Schiller's (Drama), VII, b 339, b 382; (Germany), X, b 481; (Schiller), XXI, a b 413
DONCASTER, town (Ill.), VII, b 312-13; cup (Horse), XII, b 205; races (Horse), *b* 204
DON COSSACK COUNTRY, VII, a 309; (Cossacks), VI, b 396-7; (Novotcherkaask), XVII, *a* 624
Donders, Frants Cornelis, physiologist, *b.* 1818, *d.* 1889 (Gelatin), X, b 118; (Ophthalmology), XVII, a 802
Donduks, khans (Mongols), XVI, b 771
DONEGAL, county, VII, a 313-4; town, a b 314
Donelson, capture of fort, 1862 (United States), XXIII, b 825, b 837
Donetz river (Don), VII, a 309; (Ekaterinoslaff), *a* 688; (Lugansk), XV, *a* 62; north (Russia), XXI, a 81; coal measures (Russia), a 80, b 81, a 82, *a* 94
Dongala, district (Celebes), V, *a* 252
Dongan, Thomas, governor (New York), XVII, a 467, a 475
Don Garcie de Navarre, tragicomedy (Molière), XVI, a 650
Don Gioranni, opera (Don Juan), VII, b 309; (Lute), XV, a 72; (Mozart), XVII, a 17
Dong-King, province. See Tong-King
Dongo (Angola), II, b 41
DONGOLA or Donkola, town, VII, b 314-5; (Meroe), XVI, b 45; kingdom (Nubia), XVII, a 627
——, New, town (Egypt), VII, a b 663
Dongolawi dialect (Africa), I, b 233; (Nubia), XVII, b 627
Donisthorpe, inventor (Wool), XXIV, b 695
DONIZETTI, Gaetano, composer, VII, a b 315; (Music), XVII, a 106, note
DON JUAN, legendary hero, VII, b 309
Don Juan, play (Molière), XVI, b 650
Doujon or keep (Architecture), II, a 410
Donkin, Bryan, inventor (Pen), XVIII, a b 491
Donkin's dividing engine (Graduation), XI, a 28
Donk-King, town (Cachao), IV, b 554
Donkola, town. See Dongola
Donnai, river (Cochin China), VI, b 86
DONNE, John, poet, VII, b 315-6; (English Literature), VIII, a b 373; (Huygens, Sir C.), XII, b 432
——, W. Bodham, critic (Jonson), XIII, b 755
Donnè and Maresca condenser (Potassium), XIX, b 607
Donnehad, king (Ireland), XIII, b 260
Donner, lake (Nevada), XVII, b 376
Donnerkraut (Houseleek), XII, b 331
Donnersberg, mountain (Germany), X, a 403; (Vosges), XXIV, a 319
Donnybrook, village (Dublin), VII, a 428
Donohan, king (Ireland), XIII, b 258-9
Donolo, Schabtai, author (Phrenology), XVIII, a 858 note
Donon, Mont (Vosges), XXIV, *a* 319
DONOVAN, Edward, naturalist, VII, b 316; (Ornithology), XVIII, b 13; (Taxidermy), XXIII, b 95; (Whitebait), XXIV, *b* 580
Don Quixote (Cervantes), V, b 303, *a b* 304, *a* 305, *a* 306-7, a 308-9; (Spain), XXII, a 372
Don Sebastian (Dryden), VII, *b* 424, b 425
Donskoi, Dmitri Joanovich, prince (Serghievskiy), XXI, a 708
Dontas, sculptor (Archæology), II, b 305
Doom or *Last Judgment* (Mural Decoration), XVII, a 51
—— *of Devorgoil*, poem (Scott), XXI, a 575, note
—— *of Mayence* (Romance), XX, a 666, b 668
Doondiah, chieftain (Wellington), XXIV, *a* 522
Doopsgezinden, sect (Mennonites), XVI, b 16
Doors (Building) (Plate XVI) (Ill.), IV, a b 439-40; bronze (Metal-Work), XVI, b 80; (Monreale), b 786; framing (Building), IV, a 435
Door tax (France), IX, b 454
Doorways, Scandinavian (Wood-Carving) (Ill.), XXIV, a b 680
Dopplerite (Mineralogy), XVI, a 448
Döppler's principle (Light), XIV, b 618-9; (Radiation), XX, b 223
Dór, river (Punjab), XX, b 112
Dora Baltea, river (Italy), XIII, a 445
Doradina, order of fishes (Ichthyology); XII, b 711, a 712, a 731
Doramah, town (Arabia), II, a 222
Dora Pass (Hindú Kúsh), XI, a b 748
—— Riparia, river (Italy), XIII, a 445
Doras, fish (Siluridæ), XXII, a 75
Dorat or Daurat, Jean, poet. See DAURAT
Dorataspida (Protozoa), XIX, b 874
Dorcas of Lydda (Monachism), XVI, a 725
DORCHESTER, town (Ill.), VII, b 316-7; (Dorset), *b* 320, a 321, a *b* 322
——, town, Mass. (Boston, U. S.), IV, a b 65; (United States), XXIII, a 779
——, town, New Brunswick, XVII, b 384
Dorcopsis, genus (Kangaroo), XIII, a 850
DORDOGNE, department, VII, a 318; caves (Anthropology), II, a 102
—— river, VII, a 317; (France), IX, b 446, b 457; (Libourne), XIV, b 508; (Lot), XV, a 10; (Puy de Dôme), XX, *b* 125
Dordrecht, town. See DORT
Dore, Mount (France), IX, b 445
Doré, Gustave, painter, *b.* 1832, *d.* 1883 (Munchausen), XVII, b 29; his *Don Quixote* (Engraving), VIII, b 390
Dorei, bay (Lake Dwellings), XIV, b 223
Dorema Ammoniacum, plant, I, b 650; (Sumbul), XXII, b 674
Dorfmund, lieutenant (Tables), XXIII, a 14
DORIA, Andrea, admiral and doge, VII, a b 317; (Barbarossa), III, a 313; (Fiesco, G. L.), IX, *b* 129; (Genoa), X, a 140, b 141, a 142; (Tunis), XXIII, a 661
—— gallery (Schools of Painting), XXI, a 467
Dorian letters (Pottery and Porcelain), XIX, a 628
DORIANS, race, VII, b 317-8; (Codrus), VI, a 98; (Corinth), a b 353; (Crete), a 505; (Greece), XI, b 81, *b* 83, a *b* 84, a b 85, *a* b 86, b 88, a 89, *a* 122; (Homer), XII, b 114; (Lycurgus),

DORIANS, *continued* XV, b 96-7; (Messenia), XVI, b 57; (Phœnicia), XVIII, b 821; (Sicyon), XXII, a 37
Doric architecture (Archæology), II, a 304, b 305, *b* 309, a b 314; Grecian Architecture (Plates VIII, IX, X), a b 353-5, a *b* 358-60; Roman Architecture (Plates XV, XXIV), b 363, a b 366, b 382, *b* 384; temples (Selinus), XXI, b 665-6; (Cambodia), IV, a 642
—— dialect (Greece), XI, b 118-9, a 122; poetry (Theocritus), XXIII, a b 272
Doricha (Birds), III, a 650
Dorididæ, family (Mollusca), XVI, a 680
Döring, H., critic (Goethe), X, a *b* 656
Dorippe, genus (Crustacea), VI, *b* 580, a 581
DORIS, district, VII, b 318-9
——, genus (Mollusca) (Ill.), XVI, a 680, b 681
Dorjé of Buddha, symbol (Lhasa), XIV, b 500, a 501
Dorjiling, sanitarium (Lhasa), XIV, b 500
DORKING, town, VII, a 319; district (Surrey), XXII, b 729, a 730
—— fowl (Agriculture), I, a 356; (Poultry), XIX, a 666
DORLÉANS, Louis, poet, VII, a 319
Dormer window (Architecture), II, a 407
Dormitor, mountain (Herzegovina), XI, a 693, a 694; (Montenegro), XVI, a 806
Dormitory (Abbey), I, a 19, *a* 20, a b 23, *a* b 24; (Architecture), II, a 407
DORMOUSE, rodent, VII, a b 319; (Hibernation), XI, *a* 704; (Mammalia), XV, b 421, a 422, b 423
Dormoy's rabble (Iron) (Ill.), XIII, b 330-1
DORNBIRN or Dornbühren, town, VII, b 319
Dornoch Firth (Ross), XX, b 876; and burgh (Sutherland), XXII, *a* 764, *a* 765
Dorn's still (Distillation), VII, b 230, a 231
Dorobuzh, town (Smolensk), XXII, a 193
DOROGOBUSA, town, VII, b 319
DOROGOI or Dorohoi, town, VII, b 319
Doronicum, plants (Horticulture), XII, a 258
Dorotea, La, romance (Vega Carpio), XXIV, b 134
DOROTHEUS, jurist, VII, b 319; (Justinian I.), XIII, a 803; (Tribonian), XXIII, b 590
——, bishop of Marcianopolis (Nestorius), XVII, b 364
DORP, town, VII, b 319
DORPAT or Dörpt, town, VII, b 319-20; university (Observatory), XVII, b 734-5; (Telescope) (Ill.), XXIII, b 161-2; (Universities), XXIII, b 901
Dorr, Thomas Wilson, popular leader (Rhode Island), XX, *b* 539, note
Dorsal or Dossel (Architecture), II, b 415
—— fins (Ichthyology) (Ill.), XII, a b 674; (Skeleton), XXII, a b 127; lamina (Tunicata), XXIII, a 650, b 655, b 657; languets (Tunicata), a 650, b 655, b 657; region (Mammalia), XV, a 360; tubercle (Tunicata) (Ill.), XXIII, a 648, b 650; vertebræ (Anatomy), I, b 720, b 728; (Skeleton), XXII, b 119-20
D'ORSAY, Alfred Guillaume Gabriel, count, artist, VII, a b 320
DORSET, county (Plate IV), VII, b 320-2; (Agriculture), I, a 313; (Mammalia), XV, b 377
—— or Poole clay (Pottery and Porcelain), XIX, a 663
—— sheep (Agriculture), I, b 348
DORSET, Charles Sackville, earl of, VII, b 323; (Butler), IV, a 524; (Prior), XIX, b 762; (Waller), XXIV, *b* 351
——, Henry Grey, marquis of (Grey, Lady J.), XI, a b 172
——, Sir Thomas Beaufort, earl of (Admiral), I, b 141, *b* 142
DORSET, Thomas Sackville, Lord Buckhurst, first earl of, VII, b 322-3
Dorsetshire. See DORSET, county
Dorsibranchs (Annelida), II, b 59, b 61
Dorsiventrality of plants (Physiology), XIX, b 65
Dorso - lumbar vertebræ (Skeleton), XXII, b 119
Dorstenia, plant (Botany) (Ill.), IV, a 111, a 137, a 139; (Mulberry), XVII, a 19
DORT or Dordrecht, city, VII, b 323-4; (Holland), XII, a 67, a 75; (Meuse), XVI, b 213
——, SYNOD OF, VII, a b 324; (Predestination), XIX, b 690; (Presbyterianism), a 716
DORTMUND, town, VII, b 324
Dorus, eponym (Dorians), VII. *a* 318; (Architecture), II, b 353
DORY, fish, VII, b 324
Doryclidas, sculptor (Archæology), II, b 305
Dorylæum, town (Eski-Shehr), VIII, b 483; battle of, 1097 (Crusades), VI, a b 552
Dorylaus, general (Strabo), XXII, b 609
Doryphora decemlineata, beetle (Colorado), VI, b 146
Doryphorus, statue (History), XII, b 22
Dos or dowry (Settlement), XXI, b 726, a 727. See Dowry.
Dosage of Champagnes (Wine), XXIV, a 638
Dossi, Dosso, painter (Schools of Painting), XXI, b 455, a 463
Dost Mahommed or Dost Muhammad Barakzái, khan (Afghânistân), I, b 209, a b 213, a 215-6; (India), XII, *b* 846, a b 847, a 851; (Lawrence, Lord), XIV, a b 372
Dostoievski, Feodor Mikhailovitch, novelist (Russia), XXI, a 116
Dotation in French Army, II, b 526
Doterel or Dotterel, bird (Killdeer), XIV, a 78, note; (Rail), XX, a 230
Dothan, valley of (Israel), XIII, b 412
Doty's burner (Lighthouse) (Ill.), XIV, a 633
DOUAI or Douay, town, VII, b 324-5; college (Alan, Cardinal), I, a 391
—— *Old Testament* (English Bible), VIII, b 348
DOUARNENEZ, town, VII, a 325
Double absorption (Wave Theory), XXIV, b 475
—— altitudes (Navigation), XVII, a 277-8
—— bass viol (Violin), XXIV, b 261
—— beat valves (Steam-Engine) (Ill.), XXII, b 528
—— blackwall hitch (Seamanship) (Ill.), XXI, a b 618
—— cloth (Weaving) (Ill.), XXIV, a b 493
—— current system (Telegraph) (Ill.), XXIII, b 131
Double Dealer, comedy (Congreve), VI, a 241
—— dummy hand (Whist), XXIV, b 578
—— entry (Bookkeeping), IV, a 41-2
—— Island (Swatow), XXII, b 771
—— Marine Insurance, XIII, b 191
—— refraction (Maxwell, J. C.), XV, a 653; (Wave Theory), XXIV, a b 470, a 473-5
—— solar observations (Navigation), XVII, a b 278
—— stars (Optics), XVII, a b 830
—— strop (Seamanship) (Ill.), XXI, a 621
—— touch, magnets (Magnetism), XV, a 277
—— wall and crown (Seamanship), XXI, a 619
DOUBLEDAY, Thomas, author, VII, a 325
Double-headed rails (Railway), XX, a 232, b 251-2, 253
Doublet (Costume), VI, b 414, a 415, *a b* 418, b 419, *a b* 420, *a* b 421
—— de Persan, Mâdame, journalist (Newspapers), XVII, a 436
Doublets (Backgammon), III, a 171
DOUBS, department, VII, a b 325; River, b 325; (France), IX, b 457; (Jura), XIII, b 790, *a b* 791; (Jura, Dept.), *b* 792
Doubt (Descartes), VII, a b 106; abstractive function of (Cartesianism), V, a b 125; methodic (Condillac), VI, a b 222; pleasures of (Scepticism), XXI, a 398
DOUCE, Francis, antiquarian, VII, b 325
—— Hill (Wicklow), XXIV, a 588
Douches (Baths), III, b 379-80
Dougherty, Francis, divine (Presbyterianism), XIX, *b* 717
Doughty, Robert, teacher (Shakespeare), XXI, a 788
DOUGLAS, town, VII, b 325-6; (Man), XV, a 458, *a b* 459, *a* b 460; Bay (Man), b 457
——, Archibald Tyneman, earl of (Scotland), XXI, *b* 513
——, Archibald, 4th earl of, general (Scotland), XXI, *b* 515
——, David, botanist (Hawaiian Islands), XI, a 473
DOUGLAS, Gawain or Gavin, bishop and poet, VII, a 326; (Scotland), XXI, *b* 519, a 520, b 566-7
——, George (Mary Stuart), XV, a *b* 605; (Scotland), XXI, a b 521
——, Sir Howard, general (Ionian Islands), XIII, b 212
——, Isabel, countess (Mar), XV, a 532
——, James, anatomist (Hunter, W.), XII, *b* 407
——, Sir James, the "Good Soldier" (Montrose), XVI, a 822; (Robert Bruce), XX, *a* b 610, *a* 611
——, James, 2d earl of (Scotland), XXI, b 512, a 513
——, James, 9th earl of (Scotland), XXI, *a* b 516, note
DOUGLAS, Stephen Arnold, politician, VII, b 326-7; (Lincoln, A.) XIV, b 665; (United States), XXIII, a 819, b 820, *a* 821, b 822; (Wade), XXIV, a 879
——, William, 1st earl of (Scotland), XXI, b 512, a 513
——, William, 8th earl of (James II., Scotland), XIII, a b 566; (Scotland), XXI, b 515, *a* 516
——, Willie (Mary Stuart), XV, b 605
—— of Liddesdale, Sir William (Scotland), XXI, *b* 511
—— fir (Arboriculture), II, b 277, a 280; forests (United States), XXIII, a b 861
——, *Tragedy of* (Drama), VII, a 378; (Home), XII, a 111
Douglases, expulsion of the (Scotland), XXI, b 520
Douglass, David Bates, engineer (Canal), IV, *a* 693
——, J. N., engineer (Lighthouse), XIV, *a b* 621, a 626, *a* b 633, a b 636
Douketios, prince (Sicily), XXII, a 22
Doulcet de Pontècoulant, Louis Gustave, comte, Girondist (Napoleon I.), XVII, b 202
Doulting quarry (Wells), XXIV, a 528, note
Doum Palm, XVIII, a 194; (Botany), IV, b 93
Douma, oasis (Arabia), II, a 206
Doumontier's fan training (Horticulture) (Ill.), XII, b 283-4
Doup, heddle (Weaving), XXIV, *b* 493
Dour, river (Kent County), XIV, b 39
DOUR, town, VII, a 327
Dourdan, town (Seine-et-Oise), XXI, b 656

Douro or Duero river (Leon), XIV, a 455; (Oporto), XVII, a 818; (Portugal), XIX, b 551; (Salamanca), XXI, a 213; (Soria), XXII, a 289; (Spain), *a* 309; (Valladolid), XXIV, a 49
—— or Entre Minho e Douro, province (Portugal), XIX, a 551, a *b* 552, a 553, a 555, b 556
DOUSA or Douza, Janus, or Jan Van der Does, statesman and historian, VII, a b 327; (Universities), XXIII, a 906
DOUVILLE, Jean Baptiste, traveller, VII, b 327–8
DOUW or Dow, Gerhard, painter, VII, a 328; (Mieris), XVI, a 301
Doux, Madame Le, painter, (Greuze), XI, a 169
DOVE, bird, VII, a 328–9; (Birds), III, *b* 635, a 651, b 659, b 668; sacred (Mecca), XV, a 681
——, river (Derby), VII, a 93; (Stafford), XXII, a 459
Dove, Heinrich Wilhelm, physicist (Meteorology), XVI, a 119; his syren (Acoustics), I, b 102
Dovekey, bird (Guillemot), XI, a 233
DOVER, Cinque Port (Plan), VII, a 329–30; (Cinque Ports), V, *a* b 687; (London), XIV, a 839; breakwater (Harbor and Docks) (Plate IX), XI, a b 411; straits (Pas de Calais), XVIII, b 344; treaty of, 1670 (France), IX, b 507
DOVER, Delaware, town, VII, a 330
DOVER, New Hampshire, city, VII, a 330; (New Hampshire), XVII, b 401, a 402
DOVER, George James Welbore Agar Ellis, baron, historian, VII, a b 330
Dover cliffs (Zaire), XXIV, a 803
Dovercourt Spa (Harwich), XI, a 453
Dovetailing (Building), IV, a b 437
Dovmont, Timotheus, prince (Pskoff), XX, a *b* 41
Dovre Fjeld, mountains (Norway), XVII, *a* b 589, b 592, a 594; (Sweden), XXII, b 774
Dow, Gerard, painter. See Douw
Dow, Lorenzo, preacher, VII, b 330
Dowalton loch (Crannogs), VI, a b 489; (Wigtown), XXIV, a 594, *a* 595
Dowasir valley (Arabia), II, *a* 209, b 221
Dowdall, George, primate (Ireland), XIII, b 269
Dowden, Edward, critic (Shakespeare), XXI, b 799, [illegible]00, b 804, b 806; (Shelley), a 831
Dowelling floors (Building), IV, a 441
Dowels, coping (Building), IV, a b 422
Dower (Husband and Wife), XII, a 417; mediæval (Women), XXIV, a 673; modern (Women), a 910. See Dowry
Dowkerbottom Cave, V, a b 235
Dowlais coal (Iron), XIII, a 299; cold blast (Iron), a 326; iron-works (Bellows), III, a 475; ore (Iron), XIII, a 294
DOWLETABAD, city and fortress, VII, b 330
DOWN, county, VII, b 330–2
Down (Feathers), IX, a b 53
Downcast pit (Coal), VI, b 59
Downes, Cornelius, mathematician (Navigation), XVII, b 267, note
Downheaval of land (Geology), X, b 326–7
Downie, Commodore (Plattsburgh), XIX, a 225
Downing college (Cambridge, Town), IV, a 647
—— street (London), XIV, b 849
DOWNPATRICK, town, VII, a b 332
—— castle (Mayo), XV, b 657
Downs (Deal), VII, a 14; (Dorset), a 321, a 322; (Hampshire), XI, a 384; (Kent), XIV, a 39
Dowry (Greece), XI, b 76; (Roman Law), XX, a 725, a b 732; (Settlement), XXI, b 726–7; jus civile (Roman Law), XX, b 705, a 711
Dowson, John, philologist (Inscriptions), XIII, b 124, a 126
DOXOLOGY, VII, b 332
Doxopater, Joannes, rhetorician (Greece), XI, a 131
DOYEN, Gabriel François, painter, VII, b 332–3
Doyen de Killérine (Prévost d'Exilles), XIX, a b 739
Doyle, John, satirist (Caricature), V, a 93
——, Richard, satirist (Caricature), V, a 93
Dozy, Reinhart, orientalist (Cid), V, b 675, a 677; (Tabarí), XXIII, b 8, a b 9
Draa, wady (Africa), I, a 224, a 227, b 237
Drab, color (Dyeing), VII, a 501
Draba, plants (Horticulture), XII, a 258
Drac river (Alpes), I, a 527
Dracæna, dragon tree (Botany), IV, *b* 93; (Canary Islands), IV, *b* 705; (Dragon's Blood), VII, a 337; (Horticulture), XII, b 241, b 275
Drachma, coin and weight (Greece), XI, b 80; (Numismatics), XVII, b 677; (Weights and Measures), XXIV, b 514, a *b* 515, *a b* 516
Drachmann, Holgar, poet (Denmark), VII, a 82
DRACO, lawgiver, VII, a 333; (Areopagus), II, b 424, *a* b 425; (Greece), XI, a 87
——, fish (Weever), XXIV, a 504
——, lizard (Dragon), VII, b 333; (Reptiles), XX, a 459, a 461
Dracocephalum, plants (Horticulture), XII, a 258
Dracontiasis, disease (Parasitism), XVIII, b 275
Draft riots, 1863 (Seymour), XXI, b 921; (United States), XXIII, b 827
Drafting, British Militia, XVI, b 312
Drag, trail (Hunting), XII, a 410
Drag bench (Mint) (Ill.), XVI, a b 511
Dragmastra, genus (Sponges) (Ill.), XXII, a b 434, a 435
Dragoman, official (Greece), XI, a 111
DRAGON, monster, VII, a b 333; figure of (Turner), XXIII, b 707, note; in Heraldry (Ill.), XI, a 626; in the Zodiac, XXIV, b 831, a 832
—— (Lizard) (Ill.), XIV, b 742; red-throated (Flight) (Ill.), IX, a 270
DRAGON-FLY, insect (Ill.), VII, b 333–6
  cabinet, b 336
  classification, b 333
  development (Ill.), a 335–6
  distribution, a b 336
  fossils, b 336
  reproduction, b 334–5
  structure, b 333–4
—— (Insects), XIII, a b 152, b 158
Dragon, Gum, XI, a 244
—— -tree. See Dracæna
Dragonnades, sovereign's persuasion (Camisards), IV, b 656; (Louvois), XV, a 29; (Maintenon), b 307
DRAGON'S BLOOD, resin, VII, b 336–7; (Incense), XII, a 757; (Palm), XVIII, a 195
Dragontea, La, poem (Vega Carpio), XXIV, a 134
Dragoons (Cavalry), V, a b 228
Dragosh, prince of Moldavia (Roumania), XXI, b 23
Drags for tillage (Agriculture), I, a 278
DRAGUIGNAN, town, VII, a 337
Dragut or Torghud, admiral (St. John of Jerusalem), XXI, b 183; (Tripoli), XXIII, b 612; (Turkey), a 685, note
Dragutin, king (Servia), XXI, a 721
Drâhyâyana (Sanskrit), XXI, a b 291, note
Drain tiles (Brick), IV, b 252, a 253
Drainage, artificial (Agriculture), I, b 271, b 287, a 292–8, b 310, a 357, b 358, a b 359, b 363; (Bedford Level), III, b 416–7; (Calcutta), IV, a 584; (Cambridge, County), a b 643; (Celano), V, a 249; (Edinburgh, County), VII, b 570; (Fez), IX, b 111 note; of Haarlem Lake, XI, b 318–9; (Horticulture), XII, b 221–2, b 278; (Irrigation), XIII, b 372–3, b 374, a 375, a b 377; (Lincoln), XIV, a b 660; (Manure), XV, a b 515, a 518; (Mining), XVI, b 478–80; (Paris), XVIII, b 285; (Pullman), XX, b 890; (Roads and Streets), a 598, a 604
——, river (Geology), X, a 242
——, Surgical, XXII, b 715, b 717, b 723, a *b* 725
—— tools (Agriculture), I, a 297
—— of tow-path (Canal) (Ill.), IV, b 693–4
Drains for cuttings (Building), IV, b 403; house (Building) (Plate XXI), b 417–8
Drake, Edwin L., engineer (Petroleum), XVIII, b 726, a 727, a 889
DRAKE, Sir Francis, admiral, VII, a 337–8; (Armada), II, b 476, a b 477; (California), IV, b 615; (Florida), IX, b 298; (Geography), X, a *b* 165; (Hawkins), XI, b 478; (India), XII, a 837; (Pacific Ocean), XVIII, a 119; (Plymouth), XIX, b 248, *b* 249; (Tavistock), XXIII, a 91; (Vega Carpio), XXIV, a 134
——, Friedrich, sculptor (Sculpture), XXI, a 593
——, Joseph Rodman, poet (Halleck, F.), XI, b 353
——, Nathan, antiquarian (Periodicals), XVIII, b 547
——, Roger, anatomist (Vascular System), XXIV, b 104
Drakenberg mountains (Africa), I, *b* 224, *a* 228; (Bushmen), IV, b 512, a 513; (Cape Colony), V, a b 38; (Kaffraria), XIII, b 825; (Natal), XVII, a 246; (Transvaal), XXIII, b 549, *a b* 550, a 551
DRAKENBORCH, Arnold, editor, VII, a 338
Drake's astrolabe (Navigation), XVII, b 258–9
Drakule, Poviest o (Russia), XXI, b 112
Dram in Weights and Measures, XXIV, b 518
DRAMA, art, VII, a 334–84
  acting, art of, b 342–3
  characterization, literary, a b 341
  CHINESE, a 346–8
    acting, a 348
    characterization, a 347
    history of, a b 346
    merits of, 347–8
    species of, b 346–7
    structural methods, a b 347
  definition, a b 338
  Dutch, b 383
  Egyptian elements of, b 348–9
  ENGLISH, b 369–80
    comedy, Georgian, a 378–9
    comedy, late Elizabethan, a 374
    comedy, late Stuart period, b 376–7
    Elizabethan period, b 370–4
    Garrick and contemporaries, b 377–8
    historical plays, a 370, a 372
    influence of Shakespeare, b 372–3
    Irish stage, b 375
    nineteenth century, a b 379
    opera, a 378
    pastoral drama and masque, a b 373

Drama, *continued*
- English
  - predecessors of Shakespeare, b 370-1
  - prospects of, b 379-80
  - Puritan opposition to, b 374-5
  - revival of, Stuart, a b 375
  - rise of regular, b 369-70
  - sentimental comedy, a b 377
  - Shakespeare, b 371-3
  - stage, late Elizabethan, b 374
  - tragedy, late Elizabethan, b 373-4
  - tragedy, late Stuart period, b 375-6
- French, b 365-9
  - acting, b 369
  - comedy, a b 366, a 367, a 368-9
  - Corneille and Racine, a 367
  - domestic, b 368-9
  - future of, b 369
  - Italian influence, a b 366
  - Molière and his school, a b 368
  - regular, rise of, b 365-6
  - Revolution and Empire, a 369
  - romantic school, a b 369
  - seventeenth century, b 366-7
  - stage, a 368, a 369
  - tragedy, a b 366, a 367-8
- German, a 380-3
  - depression of, a 381
  - English influence, b 380
  - Goethe and Schiller epoch, a b 382
  - Leipsic school, a b 381
  - Lessing's influence, b 381-2
  - modern, a 383
  - origin, a 380
  - romantic school, b 382-3
  - Sturm und Drang, a 382
  - Thirty years' war period, b 380-1
- Greek, a 349-54
  - classical tragedy, a b 350, a 351-2
  - comedy, history of, a 352-3
  - comedy, origin of, a 350
  - history, a 350-1
  - modern, b 362
  - origin of, a 349-50
  - permanence of its influence, b 353-4
  - religious origin of Attic, a 353
  - stage representation of, a b 353
  - theoretical writers on, b 353
  - tragedy, origin of, a 349-50
- Indian, East, a 343-6
  - history, b 343-4
  - native criticism, a b 344
  - origin, a 343

Drama, *continued*
- Indian
  - poetical, quality of, a 346
  - representation, methods of, a b 345
  - species of, b 344
  - summary, b 346-7
- Italian, a 360-2
  - comedy, a 361-2
  - pastoral, a 362
  - rise of modern, a 360
  - tragedy, a 360-1
- Japanese, a b 348
- laws of construction, b 338-40
- manners, representation of, a 342
- Mediæval, a 357-60
  - ecclesiastical sources, a 357-8
  - English religious, b 358-60
  - interludes and pageants, b 359
  - moralities, b 357, b 359
  - progress of, a b 358
  - renaissance, effect of, a 360
  - secular sources, a b 357
- origin of, theoretical, b 338
- probability of action, b 340-1
- progressive steps of the action, a b 340
- qualities required in plays, b 340-2
- Roman, a 354-7
  - comedy, history of, b 355-6
  - mimes and decay, b 356-7
  - original forms of, a b 354
  - representation of, a 356
  - togatæ, a 356
  - tragedy, history of, b 354-5
- Russia, b 383-4
- Scandinavia, b 383
- Spanish, b 362-5
  - Calderon and contemporaries, a 365
  - early, a b 363
  - foreign influences and decay, a b 365
  - Lope de Vega, a b 364
  - modern, b 365
  - national, rise of, b 362-3
  - sixteenth century, b 363
  - species of, a b 364
- species of, a b 342
- unity and completeness of action, a 339-40

—— (Act), I, b 13; (Æsthetics), a b 194, a b 196, a b 197; (Celtic Literature), V, a b 281-2; (Copyright), VI, a 319, a b 320, a b 322, notes, b 323, a b 325; (Fine Arts), IX, b 176, b 180-1; (Gluck), X, a b 619; (Mysteries), XVII, a 134; (Press Laws), XIX, b 730; (Protection), a 931; (Provençal Literature), b 901; development of (Satire), XXI, *b* 333, b 334; legitimate (Theatre), XXIII, a 246

——, Burmese, IV, a 496

——, Byzantine (Greece), XI, a 130

——, Chinese, VII, a 346-8; (China), V, b 578-9; (Julien), XIII, a 780

——, Dutch, VII, b 383; (Feith), IX, a b 57; (Holland), XII, b 94, *a b* 97, a b 98, a *b* 99; (Hooft), *a* 150

——, English, VII, b 369-80; (Alexander, Sir W.), I, b 435-6; (Baillie), III, b 209-10; (Brome, R.), IV, b 325; (Brooke, Henry), a 333; (Brown, John), b 345; (Centlivre), V, b 296; (Chapman), a b 344, a 345; (Collier), VI, a 131; (Cumberland), a 620-3; (Daniel), a 711; (Davenant), b 735-6; (Day), a b 746; (Dekker), VII, b 34-5; (Etheredge, Sir G.), VIII, a 505-6; (Farquhar, G.), IX, b 36-7; (Ferguson), a 76; (Field, N.), a b 124; (Fielding, H.), b 125-6; (Foote, S.), a 322-3; (Ford, John), b 346-8; (Garrick), X, b 75-6; (Gascoigne), a 93; (Gay), b 108-9; (Goldsmith), b 678-9; (Greene, R.), XI, a b 147, a 148; (Griffin), b 174, a 175; (Heywood, T.), b 702; (Hill, A.), a 730; (Holcroft), XII, a 60; (Home), a b 111; (Inchbald), a 761; (Jerrold), XIII, a b 643, a 644; (Kean), XIV, a b 23-4; (Kembles), a b 32-3; (Knowles), b 130; (Landor), b 279, a b 280; (London), b 845-6, b 857-8, a 859; (Lyly), XV, b 104-5; (Lytton), a 124; (Mackenzie), b 159; (Marston), a b 582; (Middleton), XVI, a b 295; (More, Hannah), b 840; (Murphy, A.), XVII, b 63; (Nash), a b 242; (Pastoral), XVIII, b 352; (Peele), b 468; (Randolph, T.), XX, b 283; (Reade), b 315, *a* b 316; (Rowe), XXI, b 34-5; (Sheil), b 824; (Shelley), b 830; (Sheridan), b 833, a b 835; (Shirley), b 868-9; (Southern), XXII, a b 303; (Suckling), b 650; (Taylor), XXIII, a 102; early (English Literature), VIII, a b 371; Elizabethan Age, b 373; (Renaissance), XX, a 405; (Shakespeare), XXI, a 782, a b 786-7, b 791-2, a 794, b 795-801, a 885; Hanover period (English Literature), VIII, b 382; origin of (Scotland), XXI, a 567; Stuart period (English Literature), VIII, b 377, a b 378

——, French, VII, b 365-9; (Chénier), V, b 505; (Corneille), VI, a 370-3; (Delavigne), VII, b 39; (Ducis), b 436; (Dufresny), b 445; (Favart), IX, a b 50; (France), a 567-8, a 573-4, b 578-9, a b 585; (Girardin), X, b 554; (Gozlan), XI, a 22; (Gresset), b 167; (Gringoire), b 181; (Hardy), a b 425; (Le Sage), XIV, b 472, a b 473; (Marivaux), XV, b 557-8; (Musset), XVII, a 118-9; (Racine), XX, a 212-6; (Regnard), a b 359; (Ronsard), a 864; (Rotrow), XXI, b 12-3; (Scarron), a 395; (Scribe), a 580; (Sedaine), b 649

——, German, VII, a 280-3; (Ayrer), III, b 143; (Engel), VIII, a 194; (Faustus), IX, b 49-50; (Germany), X, a b 471, a 474, a b 475, b 476-7, a *b* 479, a b 481, a b 482, a 483, a 484, *a* 485, a 486, *b* 487-8; (Goethe), a 649, a b 651, b 652, a b 653; (Gottsched), b 760; (Grillparzer), XI, a b 175-6; (Grotius), b 193; (Gryphius), a b 201; (Gutzkow), a 304; (Hebbel), b 529; (Iffland), XII, b 738; (Immermann), a 755; (Klein), XIV, b 110; (Körner), b 142; (Kotzebue), b 145-6; (Lessing), b 479, a b 481, a 482; (Schiller), XXI, b 412, a b 413, b 414-5; (Schlegel), a *b* 426

——, Greek, VII, a 349-54; (Æschylus), I, a b 188; (Aristophanes), II, b 446-8; (Euripides), VIII, a 591-6; (Greece), XI, a 122, a 125-6; (Lycophron), XV, b 95; (Music), XVII, a 87; (Pindar), XIX, b 110; (Slavery), XXII, b 139; (Sophocles), a 285-7; modern (Greece), XI, b 132, b 134, b 135, a 136; satyric (Satyr), XXI, a 337

——, Hebrew (Bible), III, *b* 552; (Canticles), V, a b 31-3

——, Hindu, VII, a 343-6; (Kálidása), XIII, a b 838; (Sanskrit), XXI, a 298-300; (Wilson), XXIV, b 622

——, Hungarian, XII, a b 391, a b 392, *a* 393, a 394; (Kisfaludy, K.), XIV, a 103

——, Italian, VII, a 360-2; (Alfieri, Vittorio), I, a b 444; (Federici), IX, a 56; (Goldoni), X, a b 676; (Gozzis), XI, *b* 22; (Guarini), b 210-11; (Guidi), b 228; (Italy), XIII, a 511, a b 513, a b 516, a 518, a 520, a 523; (Machiavelli), XV, a b 152; (Maffei), b 197; (Metastasio), XVI, b 110; (Pastoral), XVIII, b 350

——, Japanese, VII, a b 343; XIII, a 598

——, mediæval, VII, a 357-60; (Hrosvitha), XII, a 340-1; (Italy), XIII, a 511, a b 513, a b 516; religious (Holland), XII, b 94

——, Persian, XVIII, b 672, b 673

——, Polish, XIX, a 312, a 315

——, Portuguese (Ferreira), IX, a 96; XIX [illegible] 572, a 573

——, Roman, VII, a 354-7; (Ennius), VIII, a b 399; (Nævius), XVII, b 168-70; (Oscans), XVIII, b 56; (Pacuvius), a b 134; (Rome), XX, a 735, a b 736; (Terence), XXIII, a 204-5; meters of (Latin), XIV, a 331

Drama, Russian, VII, b 383–4; (Griboyedoff), XI, b 173; (Moscow), XVI, a 886; (Poushkin), XIX, a 669; (Russia), XXI, *a b* 114, b 115, a b 116, b 117
——, Scandinavian (Beskow), III, a 531; (Dalin), VI, b 687; (Denmark), VII, b 79, a 80; (Ewald), VIII, a b 679; (Hauch), XI, a 465; (Heiberg), a 555; (Hertz), b 690; (Holberg), XII, a 59; (Norway), XVII, *a b* 605, a 606; (Oehlenschläger), b 751; (Paludan Müller), XVIII, a b 207; (Pram), XIX, b 679; (Sweden), XXII, b 792, a b 794
——, Spanish, VII, b 362–5; (Alarcon y Mendoza), I, a 392; (Calderon de la Barca), IV, b 585–7; (Castro), V, b 175–6; (Cervantes), b 305, a 308; (Euriquez Gomez), VIII, a b 400; (Iriarte), XIII, b 281; (Moratin, L. F. de), XVI, b 835–6; (Moratin, N. F. de), b 836; (Moreto), b 847; (Renaissance), XX, b 401; (Rojas-Zorilla), b 639–40; (Saavedra), XXI, a 131; (Solis), XXII, b 264; (Spain), a b 370, a 372–3, a b 375, a b 376; (Vega Carpio), XXIV, b 134–6
Dramatic Histories of Shakespeare, XXI, a 807
Dramatic Poetry, XIX, b 276, a b 277, a b 278
——, *Essay on* (Dryden), VII, a 423; Ewald on, VIII, a b 769
Dramaticas y Liricas, Obras (Moratin), XVI, a 836
DRAMBURG, town, VII, a 384
Drame, species of play (France), IX, b 594
DRAMMEN, town, VII, a 384; (Norway), XVII, a b 596
Drams Elv, river (Norway), XVII, b 589
Drance or Dranse, stream (Rhone), XX, a 542; (Savoie, Haute), XXI, a 348; valley glacier (Geology), X, a 244
Drangiana, country. See SISTÁN
Draper, Henry, astronomer, *b.* 1837, *d.* 1882 (Observatory), XVII, a 736; (Telescope), XXIII, a 159; (Telescopic Work), a b 933
——, Sir William (Junius), XIII, *a b* 785, *b* 786, a 787
Drapery, woollen (Ireland), XIII, b 235–6
Drapier's Letters (Swift), XXII, a b 804
Drasche-Wartinberg, Richard Ritter von, anatomist (Tunicata), XXIII, b 647, b 658
Draught, ease of (Roads and Streets), XX, a 603
——, furnace (Steam-Engine), XXII, b 517–8, a 523; steam (Steam-Engine), b 494
DRAUGHTS, game (Ill.), VII, a 384–5
Drave river (Alps), I, a 555; (Carinthia), V, a 94; (Croatia), VI, *a* 523; (Hungary), XII, *a b* 376
Dravida, country (India), XII, b 832–3
Dravidian civilization (Tinnevelli), XXIII, b 431
—— languages (Anthropology), II, b 105, b 106; (Hindūstāni), XI, b 750, note; (India), XII, a b 817–8; (Philology), XVIII, a 793; (Tamils), XXIII, b 46–7
—— races (Asia), II, a b 609, a 610; (India), XII, a 773, a 784; (Tamils), XXIII, a b 46
Drawbacks, allowance (Commerce), VI, a 182
DRAWING, VII, b 385–90
  archaic methods, a b 386
  art education, b 387–8
  Asiatic design, a 387
  courses of study, b 389–90
  delineation described, b 386–7
  etymology of terms, b 385–6
  Greece, a b 387
  mediæval, a b 388
  modelling, b 388–9
  picturesque, a b 389
  Renaissance, b 388
——, copy (Camera Lucida), IV, a 654–5
——, geometrical (Mathematical Drawing and Modelling), XV, a 635
——, teaching of (Technical Education), XXIII, a 115
—— frame (Cotton) (Ill.), VI, a b 436
—— machines (Mechanics), XV, b 781
—— Paper, sizes of, XVIII, a 230
—— on stone (Lithography), XIV, b 704–5
—— rollers (Yarn), XXIV, *a* 767; yarn (Wool), b 695
Draw plates (Hand Tools), XI, b 392; (Wire), XXIV, a 648
—— Poker, game, XIX, b 294
Dray, vehicle (Drawing), VII, b 385
Drayson, author (Whist), XXIV, *a* 576
DRAYTON, Michael, poet, VII, a 390–1; (Alexandrine Verse), I, a 442; (Pastoral), XVIII, b 351–2
DREAM, VII, a 391–7
  analogies of, b 396–7
  causes of, a b 394
  characteristics of, a b 391
  combinations, order of, b 395–6
  modern psychology of, b 393–4
  naturalistic theory, a b 393
  objectivity of, b 391, a 396–7
  physiological theories, b 394
  sources of materials, b 394–5
  supernaturalistic theory, b 392–3
  theories, b 391–4
—— (Apparitions), II, b 177; (Demonology), VII, a b 55; (Psychology), XX, a 67; (Sleep), XXII, b 164, a b 167, a 168; divination by (Artemidorus), II, a 562; (Divination), VII, a 255; influence on savages (Animism), II, a 50
Dreams of a Clairvoyant (Kant), XIII, a 857, a b 859
Drebell, Cornelius, mathematician (Microscope), XVI, a 271
Drebenau, town (Görlitz), X, a 699
DREDGE, Naturalist's (Ill.), VII, a 397–400
  Challenger voyage, a 399, a 400
  Ball's dredge (Ill.), a 397–8, a b 399
  deep-sea explorations, b 398–9
  mode of using, b 399–400
  requirements in, a 397
  scientific value of, b 398
  sieves (Ill.), a 398
  trawls, a 400
—— (Zoology), XXIV, a b 853
Dredge's suspension bridge (Bridges) (Ill.), IV, b 272, b 290
DREDGING (Ill.), VII, b 400–4
  American, a b 401
  Amsterdam and Suez, a 401
  blasting (Ill.), a b 402
  Clyde, b 402–3
  dredgers, Clyde, a b 403
  forms of, b 400–1
  longitudinal and cross, b 401–2
  reference books, a 404
—— (Dredge), VII, b 397–400; (Geology), X, b 255–6; (Glasgow), a 571; (Oyster), XVIII, a b 112, note, a 113; (River Engineering), XX, b 593
—— or clubbing (Seamanship), XXI, b 629
Dred Scott decision (United States), XXIII, a 795, a 800, a b 820, a 830; (Taney), b 921
Dreier, Salomon, zoologist (Denmark), VII, b 81
Dreihelm Stadt, town (Landshut), XIV, a 282
Dreikretcham, town (Kamenz), XIII, a 842
Dreissena, genus (Mollusca) (Ill.), XVI, a 711, a 715, a 716
Dreissigjährigen Krieges, Geschichte des (Schiller), XXI, *b* 413
DRELINCOURT, Charles, theologian, VII, a 404
Dreme, The, poem (Lyndsay), XV, b 108–9
Drenching horses (Veterinary Science), XXIV, a 218
Drenthe, province (Holland), XII, *a b* 64, a 65, *a* 66, *a b* 67, a 68, a b 69, *a* 70, a 73, a 87, a 89
Drepandia, parasite (Protozoa), XIX, a 879
Drepanophorus, genus (Nemertines) (Ill.), XVII, a b 336, a 338, a 339
Drepanum, town. See TRAPANI
DRESDEN, city (Plan), VII, a 404–5; (Dahl, J. C.), VI, a b 672; (Libraries), XIV, a 526, a 548; (Napoleon I.), XVII, a 223, a b 225; (Organ), b 861
——, battle of, 1813 (Austria), III, b 117; (France), IX, b 543; (Napoleon I.), XVII, a 227. See Leipsic, battle of
—— Blind Institution, III, a b 721
—— china (Heraldry), XI, a 614; (Meissen), XV, b 840; (Pottery) (Ill), XIX, a b 659, a 660
——, conference of, 1571 (Lutherans), XV, b 86
——, district (Saxony), XXI, b 372, *a b* 373, *a* 374
—— gallery (Abati), I, a 13; (Crespi), VI, a 503; (Dietrich), VII, b 185; (Palma), XVIII, a 196; (Schools of Painting), XXI, a 466
—— opera at (Weber), XXIV, a b 495, *a* 496
——, peace of, 1745 (France), IX, b 516; (Frederick II.), b 647
Dress (Egypt), VII, b 618–9; Aztec (Mexico), XVI, b 217, b 221; Diving (Ill.), VII, b 257–9; Esquimaux, VIII, b 481; Miautse, XVI, a b 232; Turcoman (Merv), b 48; laws against (Sumptuary Laws), XXII, a b 678. See COSTUME
Dresser, C., artist (Japan), XIII, a 599, b 601
Dressing the web (Cotton), VI, a 4
—— for wounds, gauze (Surgery), XXII, a 713 note
—— machine (Wool), XXIV, b 696
Dressler, metaphysician (Beneke), III, b 483, b 484
DREUX, town, VII, b 405
Drevlians, race (Russia), XXI, *a b* 97
Drevnaia i Novaia Rossia, periodical (Russia), XXI, b 117
Drew, Frederick, sycophant (Gilgit), X, *a b* 534
DREW, Samuel, theologian, VII, b 405–6
Dreyfus, Charles (Calico-Printing), IV, b 610, a 611, a 612
DREYSE, Johann Nicholas von, inventor, VII, a 406
Dried Food. See PRESERVED FOODS
Driers, painter's. See Dryers
Driesche, Johannes van den (Drusius), VII, b 420
DRIFFIELD, town, VII, a 406
Drift in engineering (Mining), XVI, a 468, a 469; (Tunnelling), XXIII, a 662
—— of projectiles (Gunnery) (Ill.), XI, a b 270
—— ice (Geology), X, b 326–1, a 327
—— or Quaternary period (Anthropology), II, a 102–3; (Archæology), a b 295; (Brazil), IV, a 201
—— rock in the Baltic, III, a b 255
—— soils (Ohio), XVII, b 756
——, stratified (Mississippi), XVI, b 545
Drifting Torpedo, XXIII, a 480
—— nets (Fisheries), IX, b 218–21, a b 224
Drill, baboon (Mandrill), XV, a 485
——, military, early (Artillery), II, b 573; importance of (War), XXIV, a b 374; modern (Artillery), II, b 583; subordination of (War), XXIV, a 365

Drilling, effects on strength of Iron, XIII, b 364; for oil (Petroleum), XVIII, b 892–3; rifle bores (Gunmaking), XI, a 251; tools (Petroleum) (Ill.), XVIII, a 730–1
Drills (Agriculture), I, a 285–6, a b 287, a b 317
—— (Gems), X, b 122; (Lapidary) (Ill.), XIV, b 298–9
—— (Machine Tools) (Ill.), XV, b 156; (Patents), XVIII, a 877; metal (Hand Tools) (Ill.), XI, a 392; rock (Mining) (Ill.), XVI, b 462, a 464; (Tunnelling), XXIII, *b* 664
Drin, river (Montenegro), XVI, b 806; (Albania), I, a 396
Drina, river (Montenegro), XVI, b 806
Dring and Fage's saccharometer (Brewing), IV, b 237
Drink, play (Reade), XX, a 316
Drinking cups (Pottery and Porcelain) (Ill.), XIX, b 619
Drinking Horn, poem (Celtic Literature), V, b 277
Drinkwater-Bethune, John, soldier (Gibraltar), X, b 523
Drinoff, philologist (Slavs), XXII, a 156 note
Drios, port. See PAROS
Dritzehn, Andrew (Gutenberg), XI, *b* 300
Driva, river (Norway), XVII, b 589
Drive for type-making (Typography) (Ill.), XXIII, a 744
Driven well (Water-Supply), XXIV, b 426–7; controversy (Patents), XVIII, a 876
Driver (Mechanics), XV, *b* 763
Driving Bees, III, a 434
—— clock (Telescope) (Ill.), XXIII, b 169–70
—— a heading (Tunnelling), XXIII, a 662
—— Partridges, XVIII, a b 338
—— -wheels, locomotive (Steam-Engine), XXII, a 547, a b 549
Drobak, port (Christiania), V, b 598
Drocæ, town. See DREUX
DROGHEDA, town, VII, a 406–7; (Louth), XV, *a b* 27; parliament of (Ireland), XIII, a 268; siege of, 1649 (Cromwell), VI, a 531
——, countess of (Wycherley), XXIV, a 742, *b* 743, a 744
DROHOBYCZ, town, VII, a 407
Droighteach, Coilin, abbot (Scotland), XXI, a 499, a 500
Droit d'Aubaine (Alien), I, b 506
—— *de bris* (Wreck), XXIV, a 722
—— *de regale* (Popedom), XIX, *b* 520
—— *des Gens* (Vattel), XXIV, *a* 124
Droits and perquisites (Admiral), I, b 142, a b 143, b 146, a *b* 147
DROITWICH, borough, VII, a 407; (Worcester), XXIV, b 700, *a* b 701
Dromæognathæ, group (Birds) (Ill.), III, a 605, a b 616, a 618; (Ornithology), XVIII, b 38, note, b 48, a 49; (Tinamou), XXIII, b 429
Dromæornis, genus (Birds), III, b 634
Dromæus or Emeu (Birds), III, *a* 616, a 618, a 622, *a* b 623, a 625, a b 626; (Emeu), VIII, b 158
Dromas ardeola, species (Plover), XIX, a 240
Dromatherium, fossil (Distribution), VII, b 245; (Mammalia), XV, a 378
DROME, department, VII, a b 407
Dromedary (Arabia), II, *a* 211; (Camel), IV, a 652; (Canary Islands), b 705, a b 706
Dromia, genus (Crustacea), VI, *b* 568, b 573, note, *b* 580, a 581
Dromicia, genus (Phalanger), XVIII, a 743
Dromilites (Crustacea) (Ill.), VI, b 581
Dromon or Dromion, ship (Dockyards), VII, b 269
Drone (Bee), III, a *b* 418; massacre of (Bee), a 428; metamorphosis of (Bee), a 427
——, musical term (Music), XVII, b 88
Drontheim, city. See THRONDHJEM
Drop-bar perfecting machine (Typography), XXIII, b 753
"Drop" in compound engines (Steam-Engine), XXII, b 514, *a* b 515
—— cut off (Steam-Engine), XXII, *b* 921
—— drill (Agriculture), I, a 286
——, Zinc, XXIV, a 825
Droplaug's Sons' Saga (Iceland), XII, b 659
DROPSY, disease, VII, b 407–8; (Gamboge), X, b 55–6; (Maldive Islands), XV, b 334; brain (Hydrocephalus), XII, b 448; of Bright's disease (Pathology), XVIII, a 397
Drosera, plant (Botany), IV, a 80, b 99; plants (Horticulture), XII, b 216; (Insectivorous Plants), XIII, a 140–2
Droseraceæ, order (Insectivorous Plants), XIII, a b 140–4
Droserin, extract (Insectivorous Plants), XIII, b 145
Drosophyllum, genus (Insectivorous Plants) (Ill.), XIII, a b 140, a 144
Drostan of Deer, abbot (Scotland), XXI, a 497, b 498
DROSTE-HULSHOFF, Annette Elizabeth, baroness of, poetess, VII, a 408
Droste zu Vischering, Clemens August von, bishop (Bunsen), IV, *a* 468
DROUAIS, Jean Germain, painter, VII, a b 408
DROUET, Jean Baptiste, terrorist, VII, b 408
DROUET D'ERLON, Jean Baptiste, count, soldier, VII, b 408–9
Drought (Famines), IX, b 23, (India), XII, b 792, *a* 793, b 805, a b 806; effect on rivers (Geology), X, b 241; protection against (Agriculture), I, b 293. See Rainfall, Rainless region
Drover's Dog, VII, b 283
DROWNING (Ill.), VII, a 409–11; (Medical Jurisprudence), XV, a 791; (Suicide), XXII, a 665
Drown's puddling process (Iron), XIII, b 335
Droysen, Johann Gustav, historian (Persia), XVIII, b 617
DROZ, François Xavier Joseph, author, VII, b 411–2
——, Gustave, novelist (France), IX, a 597
Drude, Oscar, botanist (Parasitism), XVIII, a 269, note
Druggists, brewers' (Adulteration), I, b 157
Druggist's Opium, XVII, b 811
Drugs (Adulteration), I, a b 159; (Pharmacopœia), XVIII, a b 744, a 745
Druid Hill Park (Baltimore), III, a 258
—— stones (Geology), X, a 239; (Louth), XV, b 27. See CROMLECHS
Druidic remains (Derby), VII, b 94; (Inverness), XIII, b 206
DRUIDISM, VII, a 412–4; (Britannia), IV, a b 318; (Scotland), XXI, a 497
Druids (Anglesea), II, b 28; (Celtic Literature), V, b 262, *a* 263; (Cork), VI, a 359; (Ireland), XIII, b 250, b 254, a b 255, a b 256; (Man, Isle of), XV, b 459, b 460; (Mistletoe), XVI, a 551
Druimceta or Drumceat, convention of (Ireland), XIII, a 255, a 256; (Celtic Literature), V, a 263
DRUM, noise-maker, VII, a b 414; (Tahiti), XXIII, a 29; divining (Lapland), XIV, a b 307
—— in Mechanics, XV, a 770; (Metallurgy) (Ill.), XVI, a 64; winding (Coal), VI, a 70
—— hills (Waterford), XXIV, a 422
——, loch (Kincardine), XIV, b 80; (Longford), a 874
—— mountain (Carnarvon), V, a 105
—— tower (Peking), XVIII, b 480–1
—— weir (River Engineering) (Ill.), XX, a 590
Drumclog, battle of, 1679 (Dundee), VII, a 464; (Lanark), XIV, b 252
Drum-head Court Martial, VI, a 460
Drumlanrig, tower of (Hawick), XI, a 477
Drummer, insect (Cockroach), VI, a 92
DRUMMOND, Henry, banker, VII, b 414
DRUMMOND, Thomas, mathematician, VII, b 414–5; (Normanby), XVII, a 552
——, Thomas, U. S. judge (Protection), XIX, b 929
DRUMMOND, of Hawthornden, William, poet, VII, a 415–6; (Edinburgh), b 571, a 574, b 576; (Jonson), XIII, b 753, a 756; (Scott), XXI, b 568
——, W. H., naturalist (Lion), XIV, a 688, note
Drummond's Lake (Dismal Swamp), VII, b 225
DRUNKENNESS, VII, a 416–7; (Contract), VI, a 287; (Liquor Laws), XIV, b 694–5; animal (Flying Fox), IX, a 309; Persian (Shi'ites), XXII, b 699
Drupe and drupels in Botany (Ill.), IV, b 137
Drury Lane Theatre (Ill.), XXIII, b 244; (Cibber), V, *b* 673; (Garrick), X, *a* 76; (Kean), XIV, b 23–4; (Kemble), b 32, a 33; (London), *b* 845
——, Sir Robert, benefactor (Donne), VII, a 316
DRUSES, Syrian race, VII, a 417–20
    education, b 419
    habitat, b 417
    history, b 419–20
    literature, a b 420
    manners, a b 419
    origin of, b 417–8
    religion of, a 418–9
—— (Lebanon), XIV, *a b* 395; (Mohammedanism), XVI, a 616; (Turkey), XXIII, b 695
——, crystal-forms (Mineralogy), XVI, a 385
DRUSIUS, or Van den Driesche, Johannes, orientalist, VII, b 420
——, John, prodigy, VII, b 420
Drusus Cæsar, son of Tiberius, XXIII, b 356, a 358
—— Nero, Claudius, general (Genealogy), X, a 129 note; (Germany), b 426; (Tiberius), XXIII, *b* 356
DRUSUS, Marcus Livius, senior, tribune, VII, b 420–1
—— Marcus Livius, junior, tribune, VII, a 421; (Rome), XX, a 778
Druzbacka, Elizabeth, poetess (Poland), XIX, a 314
DRYADES, nymphs, VII, a 421
DRYANDER, Jonas, naturalist, VII, a 421
Dry areas for walls (Building) (Ill.), IV, b 413–4
—— bottoms, furnace (Iron), XIII, b 340
—— Champagnes (Wine), XXIV, *b* 635
DRYDEN, John, poet, VII, b 421–5
    All for Love, a b 424
    ancestry and education of, b 421
    Annus Mirabilis, a 423
    Commonwealth, literary life under the, b 421–2
    contract plays, period of, a b 423
    heroic tragedies, b 422, b 423–4
    late tragedies, b 424
    Restoration plays, period of, a b 422

DRYDEN, *continued*
  rhymed tragedy theory, b 422-3, a 424
  Roman Catholicity, period of his, a b 425
  satirical writings, b 424-5

—— (Addison), I, a b 134, a 135; (Congreve), VI, b 240, a 241; (Dorset), VII, b 323; (Drama), *a* 376; (English Literature), VIII, *b* 377, a 378; (Flecknoe, R.), IX, a 264; (Hymns), XII, *b* 627; (Jonson), XIII, b 755, a 756; (Milton), XVI, b 348; (Monmouth), a 783; (Music), XVII, a 95; (Oldham), a 781; (Otway), XVIII, b 74; (Pitcairne), XIX, b 142; (Pope), b 497, a 498; (Rymer), XXI, *a* 127, note; (Settle), *a* 726; (Shadwell), *b* 763; (Shaftesbury), a 767
Dry Docks (Plates X-XII), XI, b 416, a b 420-1
Dryers (Mural Decoration), XVII, b 52-3; (Varnish), XXIV, *b* 99
Dryfe, river (Dumfries), VII, b 454
Dryfield soil (Stirling), XXII, *b* 581
Drying (Calico-Printing), IV, a b 609; (Preserved Food), XIX, b 726-7; (Tobacco), XXIII, b 452; (Wool), XXIV, b 691-2
—— machine (Bleaching) (Ill.), III, a 710; (Paper) (Ill.), XVIII, a b 227
—— oils (Oils), XVII, b 760, a b 765, *a b* 767. See Dryers
Dry Lake (California), IV, a 619
Drymæca, genus (Birds), III, b 659
Drymœcinæ, sub-family (Warbler), XXIV, b 387, a 388
Dry method of analysis (Iron), XIII, b 294
Dryolestidæ, family (Zoology), XXIV, a 925
Dryopes, tribe (Eubœa), VIII, b 569
Dryophidæ, family (Snakes) (Ill.), XXII, b 203, a 206
Dryopithecus fontani, species (Ape), II, a 146
Dry-plate bath processes (Photography), XVIII, a b 840; collodion (Photography), b 838-40
—— pile electroscope (Electrometer) (Ill.), VIII, a b 14
—— Point Engraving, VIII, b 396
—— Puddling (Iron), XIII, b 328
DRY ROT, disease, VII, b 425-6; (Botany), IV, a 84
—— and wet bulb Hygrometer (Ill.), XII, a 605
Drzic, Marino, poet (Servia), XXI, a 623
Dschabir Ben Haijan, alchemist (Geber), X, *a* 112-3
Dschufa Dagh, mountain (Caucasus), V, b 221
Dsongaria, district. See DZUNGARIA
Duab, region. See DOAB
Dualism, doctrine (Evolution), VIII, b 659; (Manichæism), XV, b 490-1, a 493, a 494; (Marcion), a *b* 541, a b 542; (Metaphysic), XVI, a 87, b 95, a 96, a 104; (Peripatetics), XVIII, a 556; (Zoroaster), XXIV, b 861-2; Aristotle's (Metaphysic), XVI, a 96; of Descartes (Cartesianism), V, a 126, b 127; Kant's (Metaphysic), XVI, b 88-9, a 90-1; law of (Psychology), XX, a b 84; relativity of (Schleiermacher), XXI, b 429; of Spinoza (Cartesianism), V, b 136, a b 137
Dualin, explosive. See NITROGLYCERIN
Duality, method of (Diagrams), VII, a 129; principle of (Geometry), X, a 353-4; (Plücker), XIX, b 240
Duallas, tribe (Cameroons), IV, b 656
Dual logarithms (Tables), XXIII, b 17-8
—— number (Grammar), XI, b 36
—— numbers (Tables), XXIII, b 17
Duane, William J., statesman (Taney), XXIII, b 921
Duardos of England, myth (Romance), XX, b 673
Duaren, François, jurist (Cujas), VI, b 612
DU BARRY GOMARD DE VAUBERNIER, Marie Jeanne, countess, concubine, VII, b 426; (France), IX, b 522; (Music), XVII, a 102
DU BARTAS, Guillaume de Salluste, poet, III, a 346; (France), IX, a 573; (Ronsard), XX, *a* b 864
Du Bellay, cardinals (Sledanus), XXII, *a* b 168. See BELLAY
——, Joachim, poet (France), IX, *b* 572
Düben, Gustave von, historian (Lapland), XIV, *a* b 307, a 308
Dub-gaill, the (Ireland), XIII, b 257-8
DUBLIN, county, VII, b 426-8
DUBLIN, city (Maps), VII, b 428-34
  buildings, public, b 431-2
  charities, a 431
  commerce, b 432-3
  description of, b 428-9
  education, b 430-1
  history, a 433-4
  libraries, b 431
  monuments and parks, b 432
  organization, b 429-30

—— (Fisheries), IX, a 230; (Foundling Hospitals), b 427; (Ireland), XIII, b 242, a 243, b 244, b 257, *a* 258, *a* b 259, *a* 260, a 261, a 276; (Libraries), XIV, b 522-3, b 543; (Monk), XVI, b 778; (Newspapers), XVII, a 434; Observatory, b 730
Dublin Pharmacopœia, XVIII, b 744
Dublin Philosophical Society (Societies), XXII, b 233
——, province (Archbishop), II, a 324
——, Royal Irish Academy, I, a b 71
—— University (Berkeley), III, b 508-9; (Hamilton, Sir W. R.), XI, a 377; (Ireland), XIII, b 247, a b 271; (Taylor), XXIII, b 100-1; (Universities), b 911; (Usher), XXIV, b 21. See Trinity College, Dublin
DUBNO, town, VII, a 434; (Volhynia), XXIV, *b* 302
DUBOFKA, town, VII, a b 434; (Saratoff), XXI, *a* 320
Dubois, Alphonse, naturalist (Ornithology), XVIII, b 21
DUBOIS, Guillaume, cardinal, VII, b 434; (France), IX, *b* 514, *a* 515
——, Jacques, physician (Anatomy), I, b 707, a 708
——, J. A., missionary (Caste), V, b 165 note
——, Peter, lawyer (Occam), XVII, a 738 note
Du Bois, Reymond Emil Heinrich, physicist (Electricity), VIII, a 13, b 45; (Physiology), XIX, b 29, a b 30, b 50
DUBOS, Jean Baptiste, author, VII, b 434-5; (France), IX, a 587
Duboscq, Jules, optician (Stereoscope), XXII, b 565
DUBOSSARI, town, VII, a 435
Du Boulay, César Égasse, historian. See Bulæus
Dubourg, Anne, martyr (Hotman), XII, b 322
Dubravius of Olmutz, bishop (Slavs), XXII, a 161
DUBROVNA, town, VII, a 435
Dubrovin, historian (Russia), XXI, a 117
Dubrovnik, village (Ragusa), XX, a 228
Dubrunfaut processes (Sugar), XXII, a b 660
Dubuat, Jacques Laurent Desfourneaux, engineer (Hydromechanics), XII, b 453, b 530, *b* 547
DUBUQUE, Iowa, city, VII, a b 435
——, Julien, manufacturer (United States), XXIII, b 863
Du Bure Globe, X, a 608
DuBus, B. A. L., naturalist (Ornithology), XVIII, a 17
Duc, Fronton le, Jesuit author (Petau), XVIII, b 706
Du Camp, Maxime (Post-Office), XIX, b 596, notes, a 599
DUCANGE, Charles Dufresne, Seigneur, historian, VII, b 435-6; (Knighthood), XIV, *b* 113, a b 121; (Villehardouin), XXIV, *b* 248
Ducansby Head (Caithness), IV, b 574
DUCAS, Michael, historian, VII, a 436; (Byzantine Historians), IV, b 545
Ducat, coin (Numismatics), XVII, a 673
Duccio, Agostino di, sculptor (Robbia), XX, a 606
—— di Buoninsegna, painter (Schools of Painting) (Ill.), XXI, a *b* 451, a 462
Ducetius, chief. See Douketios
Du Chaila, Abbé (Camisards), IV, b 657
Du Chaillu, Paul Belloni, traveller (Africa), I, b 221, a 222, a 225
Duchat, Jacob Le, critic (Rabelais), XX, b 203, a 205
Duchenne, G. B., physiognomist (Physiognomy), XIX, a b 9
DUCHESNE or Duchenius, André, historian, VII, a b 436
——, François, historiographer, VII, a 436
——, Joseph, physician. See Quercetanus
——, le Père. See HÉBERT
Duchess of Malfy, tragedy (Webster), XXIV, *b* 500
Duchy, mediæval Roman (Rome), XX, *b* 801-2, a 804
Ducie cultivator (Agriculture), I, b 278
DUCIS, Jean François, dramatist, VII, b 436; (Drama), a 368
Ducite, stone (Geology), X, b 209
DUCK, bird, VII, b 436-7; (Birds), III, *a* 617, b 623, a 630, b 633, a 644, b 653, a 655, b 671; (Gadwall), X, a b 7; (Golden Eye), b 674; (Goose), a 693; Labrador (Birds) (Ill.), III, b 637; (Japan), XIII, a b 585; (Merganser), XVI, a *b* 40; (Pochard), XIX, a 264-5; (Poultry), a b 667; (Scaup), XXI, b 395; (Scoter), b 491-2; (Sheldrake), a 825-6; (Shoveler), a b 882; (Teal), XXIII, a 113; (Tennessee), *b* 193; (Zoology, American), XXIV, b 924; moult of (Birds), III, a 673; parasites of (Trematoda), XXIII, b 573; sternum of (Ornithology), XVIII, a 27, b 28; Touch in, XXIII, a 509
DUCKWORTH, Sir John Thomas, admiral, VII, b 437-8
Duclerc, French sailor (Brazil), IV, a 207
DUCLOS, Charles Pineau, author, VII, a b 438
——, Roger, consul (Napoleon I.), XVII, b 208, a b 209, a 210
Du Crest, Micheli, statesman (Geneva), X, a 135
Duct of Wirsung (Digestive Organs), VII, b 201
Ductility (Elasticity), VII, b 691; (Gold), X, b 659; (Metals), XVI, a b 70; (Wire), XXIV, b 647-8
Ductless glands (Mammalia), XV, b 367-8
Ducts of salivary glands (Digestive Organs), VII, b 193
Ductus cochlearis (Anatomy), I, b 784, *a* 785
Duddon, river (Lancashire), XIV, a 253
DUDEVANT, Armantine Lucile Aurore, or George Sand, novelist, VII, b 438-4
  birth, b 438
  characteristics of her books, b 440-1
  convent to marriage, a b 439
  literary history of, b 439-40
  Nohant childhood, b 438-9

Dudevant (Chopin), V, a 596; (France), IX, b 596; (Gaskell), X, b 95; (Guerin), XI, b 218; (Leroux), XIV, b 471; (Longus), b 878; (Newspapers), XVII, b 437; (Musset), a 119; (Pastoral), XVIII, a 353; (Sandeau), XXI, a 270
Dudgeon's engine (Steam-Engine), XXII, a 542
Dudik, Beda, historian (Slavs), XXII, b 162
Dudino, village (Yeniseisk), XXIV, b 779, a 780
DUDLEY, borough, VII, a b 441; (Worcester), XXIV, a 701
——, Edmund, statesman (Leicester, Earl), XIV, a 426
——, Lord Guilford (Grey), XI, b 172-3
——, John, duke of Northumberland (Edward VI.), VII, *a* 595
——, Robert. See LEICESTER, Earl of
——, Thomas, governor (Winthrop), XXIV, a 904
—— locust (Geology), X, a 297
—— Observatory, XVII, b 735
—— ore, Staffordshire (Iron), XIII, b 294
Dudo of St. Quentin, author (Normandy), XVII, a 553, a b 554
Dudresnaya, genus (Biology), III, b 600; (Reproduction), XX, a 438
DUEL, combat, VII, b 441-5
  England, b 443-4
  explanation of, b 444
  France, a b 442-3
  judicial ordeals, b 441-2
  literature, a 445
  Norman customs, a b 442

—— (Calabar Bean), IV, a 577; (Campbell), a 670; (Cardigan), V, a 85; (Fencing), IX, a 62; (Fénelon), a 64; (Gilpin), X, a 537; (London), XIV, a 833; (Ordeal), XVII, a 844; artillery (War), XXIV, a 381; German (Sword), XXII, a 842; (Universities), XXIII, *a* 904; prohibition of (Trent, Council of), b 585
Duenna, opera (Sheridan), XXI, a 835
Duero, river. See Douro
Duesbury, William, potter (Pottery and Porcelain), XIX, a b 661, a 662
Duets, chamber (Steffani), XXII, a b 557
Du Fail, Noel, writer (France), IX, b 574
Du Faur de Pibrac, Guy, poet (France), IX, a 573
Dufay, Charles François de Cisternay, physicist (Electricity), VIII, a 6
Dufferin, Frederick Temple Blackwood, earl of (Canada), IV, b 690; (Columbia, British), VI, b 152
——, L., naturalist (Arachnida), II, a 239 note, a 247 notes, b 249, *a b* 250
DUFOUR, Wilhelm Heinrich, general, VII, a 445; (Fortification), IX, *b* 409
Dufrenite (Mineralogy), XVI, a b 422
DUFRÉNOY, Pierre Armand, mineralogist, VII, a b 445; (Élie de Beaumont), VIII, a 126; (Iron), XIII, a 326, note
Dufrenoysite (Mineralogy), XVI, a 411
DU FRESNY, Charles Rivière, dramatist, VII, b 445
Dufton Fell, hill (Westmorland), XXIV, a 541
DUGDALE, Sir William, antiquary, VII, b 445-6; (Herbert, Sir T.), XI, b 645; (Inns of Court), XIII, b 93, b 95, a 96; (Shakespeare), XXI, a 775, b 790
Dugès, naturalist (Amphibia), I, a 661, a 667, a b 674; (Arachnida), II, *b* 240, b 246, b 258, a 259
Dugommier, Jean François Coquille, general (Napoleon I.), XVII, b 201
DUGONG or duyong, mammal, VII, a b 446; (Malay Peninsula), XV, b 324; (Mammalia), b 376, *a* b 393, a 394, a 395; mouth of (Skeleton), XXII, a 116
Dugonics, Andrew, romancist (Hungary), XII, a 392
"Dug-out" (Canoe), IV, b 716; (Ship), XXI, a 841
DUGUAY-TROUIN, René, admiral, VII, b 446-7; (Brazil), IV, a 207; (St. Malo), XXI, *b* 195, *a* 196
DU GUESCLIN, Bertrand, soldier, VII, a b 447; (France), IX, *a* 483; (Spain), XXII, *a* 335
Du Haillan, Bernard de Girard, seigneur, historian (France), IX, a 575
DUHALDE, Jean Baptiste, geographer, VII, b 447
DUHAMEL, Jean Baptiste, astronomer, VII, b 447; (Analysis), I, b 697; (Academy), a 69
DUHAMEL DU MONCEAU, Henry Louis, botanist, VII, b 447-8; (Agriculture), I, a 268; (Chemistry), V, b 399; (Hunter), XII, b 402; (Sodium), XXII, b 254, a 255
Duhamel's vibrograph (Acoustics), I, a 103
Du Hausset, Madame (Quesnay), XX, b 183, note
Dühring, Eugen Karl, economist (Political Economy), XIX, a 415
Dui station (Prison Discipline), XIX, a 782; (Saghalin), XXI, a *b* 155, a 156
Duilius, Caius, general (Milazzo), XVI, b 305; (Rome), XX, a 766; column of (Latin), XIV, b 329
Duillier, Fatio de, mathematician (Infinitesimal Calculus), XIII, a 11
DUISBURG, town, VII, a 448
Dujardin, Felix, naturalist (Arachnida), II, b 240, a 241; (Foraminifera), IX, b 324; (Parasitism), XVIII, b 262; (Protoplasm), XIX, b 850, a 852; (Protozoa), a 854
Dújïk and Mezor Dagh range (Kurdistan), XIV, b 156-7
Duk-duk, mummery (New Britain), XVII, a 382
DUKE, title (Ill.), VII, a 448-9; (Lancaster, House), XIV, b 256; (Lombards), *a b* 823; (Titles of Honor), XXIII, *a* 446; feudal (Germany), X, b 432, b 433, a 435; Frankish (Germany), b 428-9; French (Principalities), XIX, b 758; origin of the calamity (Peerage), XVIII, a 475; rank of (Parliament), b 312; (Precedence), XIX, b 682, note; royal (Prince), b 575
—— of Gloucester islands (Tuamotu), XXIII, b 639 note
—— Town (Africa), I, a 241; (Calabar), IV, b 576
—— of York Column (London), XIV, b 849
—— of York islands (New Britain), XVII, b 381
Dukes of Baden, III, b 194-5
Duke's Gallery, description of (London), XIV, b 858
—— laws (New York), XVII, a 475
Dukhobortsy, sect (Russia), XXI, b 90
DUKINFIELD, township, VII, a 449
Duklya, city. See Dioclea
Dulary, Baudet, socialist (Fourier), IX, b 432
DULCAMARA, drug, VII, a 449; (Nightshade), XVII, b 512
Dulce Lamentar de los Pastores, poem (Pastoral), XVIII, a 351
Dulciana, stop (Organ), XVII, a 854, a 855, a 857
DULCIGNO, town, VII, a 449; (Montenegro), XVI, b 805, note, a 807
Dulcimer, keyed, musical instrument (Pianoforte), XIX, a 79
Duleek, town (Meath), XV, b 675, a 676
Dulia, worship (Adoration), I, b 149; (Mary), XV, b 598
Dullah, town (Kei), XIV, b 29
Dulong and Petit's law (Atom), III, b 36; (Chemistry), V, b 403, a 404, b 407; (Radiation), XX, *a* b 223
Dulse or dillesk, food (Algæ), I, *a* 449
DULUTH, city, Minnesota, VII, a 449; (St. Lawrence), XXI, b 186-7; (Minnesota), XVI, a b 499
Du Luth, Jean, explorer (Minnesota), XVI, b 499
DULWICH, village, VII, b 449; (London), XIV, a 827
—— College, VII, b 449; (Alleyn), I, b 514, a 515; (England), VIII, b 231; (Libraries), XIV, a b 516
—— gallery (Schools of Painting), XXI, b 465
—— manor (Alleyn), I, *b* 514
Duma, council (Russia), XXI, b 77
Duma, ballad (Russia), XXI, a 118
Dumah, patriarch (Ishmael), XIII, b 396
DUMANGAS, town, VII, b 449
DUMARSAIS, César Chesneau, philologist, VII, b 449-50
DUMAS, Alexandre, père, novelist, VII, a 450-1; (James, G. P. R.), XIII, *a* 571
——, Alexandre, fils, novelist, VII, b 451
——, Jean Baptiste, chemist (Alchemy), I, b 413; (Chemistry), V, *b* 403, a 404, b 406; (Chloroform), a 591; (Dyeing), VII, *b* 501-2; (Glass), X, b 583, a 584; (Liebig), XIV, b 569-70; (Methyl), XVI, b 203, a 205; (Nitrogen), XVII, b 533; (Wurtz), XXIV, *a* 739; quantitative analysis of (Chemistry), V, b 473, b 474; vapor density, process of (Chemistry), b 474-5
DUMAS, Matthieu, Count, general, VII, b 451-2
DUMB, DEAF AND (Ill.), VII, a 5-13
DUMBARTON, county, VII, a 452-3
DUMBARTON, town and castle, VII, a *b* 453; (Glasgow), X, *b* 570
Dumb-bell (Gymnastics), XI, b 312-3
Dumb-drift for ventilation (Coal), VI, a 66
Dumb madness (Rabies), XX, a b 208
DUMDUM or damdamá, town, VII, a 454
Duméril, André Marie Constant, naturalist (Amphibia), I, b 657, *a* 658, b 666; (Ichthyology), XII, a 672; (Reptiles), XX, b 447, a 448, b 449, b 451, a 453; (Siredon), XXII, b 103, a *b* 104, a 105
DUMFRIES, county, VII, a 454-5; (Coal), VI, b 50; (Scotland), XXI, a 546, a 551, b 557
DUMFRIES, city, VII, a 455-6
  history, a b 456
  present features, a 455-6

Dümichen, Johannes, Egyptologist (Denderah), VII, *a* 69; (Egypt), *a* 622, note, b 633
Dümmersee, lake (Hanover), XI, a 399; (Oldenburg), XVII, b 778
Dümmler, E. L., critic (Roland), XX, a 641
Dummy cars (Tramway), XXIII, a b 540-1
Dumnonia or Damnonia, kingdom (Celtic Literature), V, a 262; (Cornwall), VI, *a* 378; (Devonshire), VII, b 122
DUMONT, Jean, author, VII, b 456-7
DUMONT, Pierre Étienne Louis, author, VII, a 457-8; (Bentham), III, a b 497; (Mill, John Stuart), XVI, b 321; (Mirabeau), *b* 520, a 521
DUMONT D'URVILLE, Jules Sébastien César, navigator, VII, a 458; (Geography), X, b 172; (Kiwi), XIV, a 107
Dumortier, Barthélemy Charles, botanist (Grasses), XI, a *b* 49, b 51, b 53
Dumoulin's liquid glue (Gelatin), X, a 120
DUMOURIEZ, Charles François, general, VII, a 458-9; (Austria), III, b 113; (France), IX, *a* 531, b 532,

DUMOURIEZ, *continued* *a* 533; (Marat), XV, b 534; (Marie Antoinette), b 547; (Miranda), XVI, b 521; (Pichegru), XIX, a 88
Dumpies or creepers (Poultry), XIX, a 666
Dumraon, town (Sháhábád), XXI, a 771
Dun, The, novel (Edgeworth, Maria), VII, b 567
Dun Cow, Book of the (Celtic Literature), V, b 265, b 267, b 268, a 270
Dun, fort (Celtic Literature), V, *a b* 264; (Ireland), XIII, b 261, a 262
—— flies (Angling), II, b 34-5
Dûn, valley (Jumna), XIII, b 782; (Himalaya), XI, a b 736
Duna, river. See DWINA
DUNABURG, town, VII, a 459
Duna Földvár, town (Földvár), IX, a 311
Dunagiri, mountain (Garhwal), X, b 72; (Himalaya), XI, a 737
DUNBAR, town, VII, a b 459; (Haddington), XI, *a* b 323, a 324; battle of, 1650 (Cromwell), VI, b 531; (Scotland), XXI, a 536
——, Gavin, bishop of Glasgow (Scotland), XXI, b 520, a 521
DUNBAR, William, poet, VII, b 459-60; (Aëronautics), I, a 168; (Edinburgh), VII, *a* 574; (Haddington), XI, a b 324; (Scotland), XXI, b 566
Dunbird (Pochard), XIX, b 264
DUNBLANE, town, VII, a b 460
Duncan I., king (Scotland), XXI, a b 502; (Macbeth), XV, b 131
—— II., king (Scotland), XXI, a 504
DUNCAN, Adam, first viscount, admiral, VII, b 460-1
——, James (Agriculture), I, a b 339
——, John, explorer (Africa), I, a 221
——, Peter Martin, naturalist (Actinozoa), I, a b 120
DUNCAN, Thomas, painter, VII, a 461
——, William (Missions), XVI, b 539
Duncan Campbell, Life and Adventures of (Defoe), VII, b 26, a 29
Duncannon Fort (Wexford), XXIV, a b 550
Duncan Passage (Andaman Islands), II, a 12
Dunciad, satire (Dennis), VII, a 83; (Hervey, John), XI, a 692; (Pope), XIX, b 496, a 497, b 500-1; (Theobald), XXIII, b 271, a 272
Duncker, Maximilian Wolfgang Theodor, historian (Persia), XVIII, b 593
DUNDALK, town, VII, a 461; (Libraries), XIV, a 523, b 543; (Louth), XV, *a b* 27
Dundas, Francis, general (Hottentots), XII, a 327
——, Henry, viscount Melville (Hastings), XI, a b 460; (Pitt), XIX, a 146, a 149, b 151, b 155, a b 157
DUNDEE, city (Ill.), VII, a 461-3; (Gunny), XI, a 282; (Jute), XIII, b 811, b 812-3; (Libraries), XIV, a 522, b 543; (Scotland), XXI, a 550, a 551, *a b* 558, *a* 559; (Seal), *a* 609
——, John Graham, of Claverhouse, viscount, VII, b 463-4; (Scotland), XXI, *b* 538, a b 539
Dunder, lees of still (Rum), XXI, b 64
Dun-diver, bird (Merganser), XVI, a 40
Dundonald, Archibald Cochrane, earl of (Gas-Lighting), X, b 79
DUNDONALD, Thomas Cochrane, 10th earl of, sailor, VII, b 465-7; (Marryat), XV, *a* 576; (Peru), XVIII, b 691, b 693
DUNEDIN, city, VII, b 467-8; (New Zealand), XVII, a *b* 480
Dune, island (Heligoland), XI, a 563
Dunes, sand (Geology), X, a b 236; (Holland), XII, b 61, a b 62, b 64; (Landes), XIV, a 273; (Sahara), XXI, b 157-8, a 159
Dunfanaghy Bay (Donegal), VII, a 313
Dun Fell, hill (Westmorland), XXIV, a 541
DUNFERMLINE, city, VII, a 468-9; district (Coal), VI, b 51
——, Jas. Abercromby, Lord, I, b 40, a 42
Dung (Agriculture), I, a 305, a b 312, a b 325; (Ammoniac), b 650; (Calico-Printing), IV, b 609; (Fuel), IX, b 710; (Manure), XV, a 516, a *b* 518, a *b* 519
Dungal, son of Selvach. Dalriad king (Scotland), XXI, *a* 499
DUNGANNON, town, VII, a 469; (Tyrone), XXIII, b 759, *a* b 760
——, Matthew O'Neill, baron of (Ireland), XIII, a 270
DUNGARVAN, town, VII, a 469; (Waterford), XXIV, a *b* 422, *a* 423
Dungeon (Architecture), II, a 407
Dunii, mountain (Iona), XIII, b 209
Dunipace, hills of (Stirling), XXII, a 582
Dunisir ruins (Kúrdistán), XIV, a 160
Dunite rock (Geology), X, b 210
Dunk river (Prince Edward Island), XIX, a 759
DUNKELD, town, VII, a 469; (Scotland), XXI, a *b* 499, a b 500, b 506
Dunkerque, city. See DUNKIRK
DUNKERS, sect, VII, a b 469; (Universalists), XXIII, b 951
Dunkerry beacon (England), VII, a 196; (Somerset), XXII, a 271
Dunkin, R., astronomer (Astronomy), II, a 694, b 717
DUNKIRK or Dunkirque, France, town, VII, b 469; (Nord), XVII, *a b* 548; sale of (Clarendon), V, a 704
——, New York, town, VII, b 469-70
Dunleary, town (Kingstown), XIV, b 92
Dunlin, bird (Sandpiper), XXI, a 273
Dunloe Gap (Kerry), XIV, b 52
Dunlop, Bessie, witch (Witchcraft), XXIV, b 655
——, John, critic (Romance), XX, b 677
——, John, philanthropist (Temperance), XXIII, b 174
——, R. H. Wallace, swimmer (Swimming), XXII, b 809, a 810
——, William, divine (Presbyterianism), XIX, b 718
—— Cheese, V, a b 395
Dunlop's pneumatic governor (Steam-Engine), XXII, b 533
——, Charles, process (Chlorine), V, 589-90
DUNMOW, Great, town, VII, a 470; Little, village, a 470
——, Samuel, author (Navigation), XVII, *a* 270
——, Samuel, reformer (Methodism), XVI, b 198
Dunnet Head (Caithness), IV, b 574; lighthouse (Geology), X, a 252
DUNNING, John, Baron Ashburton, lawyer, VII, a 470
Dunnock, bird (Sparrow), XXII, a 383
DUNOIS, Jean, Count of Orleans and Longueville, soldier, VII, b 470; (Charles VI. and VIII. of France), V, b 356
DUNOON, town, VII, b 470
Dunoyer, Charles, publicist (Political Economy), XIX, a b 397, a 399
Dunraven, Windham T. W. Q., earl of, physicist (Geysers), X, *a* 499
Dun Rig, mountain (Selkirk), XXI, a 670
Dunse, town (Berwickshire), III, *b* 529, *a* 530
DUNS SCOTUS, John, schoolman, VII, b 470-1; (Arabian Philosophy), II, b 235; (Averroes), III, b 130, a 131; (Ethics), VIII, b 523; (Evolution), a 664; (Immaculate Conception), XII, a 754; (Phrenology), XVIII, b 857, note; (Scholasticism), XXI, b 435, a 436, a *b* 446-7; (Theism), XXIII, b 260; contempt for (English Literature), VIII, *b* 370
Dunshaughlin, town (Meath), XV, *b* 675
Dunsink, observatory, Dublin (Micrometer), XVI, a 254; (Observatory), XVII, b 730
DUNSTABLE, town, VII, b 471
Dunstable, John of, musician (Music), XVII, b 89
DUNSTAN, St., archbishop, VII, b 471-2; (Edward, the Martyr), b 591; (Edwy, King), a 600; (England), VIII, b 257, a 258; (England, Church of), a 333; (English Literature), b 361-2; (Ethelred), b 500; (Glastonbury), X, b 601, a 602; (Metal-Work), XVI, b 82; (Monachism), b 734
Dunstone (Geology), X, a 207, a 308
Dunthorn's method (Navigation), XVII, *b* 267, note, a 268
Duntocher, town (Dumbarton), VII, a 453
DUNTON, John, bookseller, VII, b 472-3; (Periodicals), XVIII, a 546, a 547
Duny, Annie, witch (Witchcraft), XXIV, b 654 note
Duodecimal system (Money), XVI, b 757, a 760
Duodenum (Anatomy), I, *b* 703, b 712; (Digestive Organs) (Ill.), VII, a 196, b 197, a 198; (Nutrition), XVII, *b* 687, a 688, b 689; bloodvessels of (Anatomy), I, a 793
Duomo. See CATHEDRAL
Dupa Sir, mountain (Kohát), XIV, b 136
Dupanloup, Félix Antoine Philibert, of Orleans, bishop (Littré), XIV, *a* 712; (Old Catholics), XVII, b 775, a 776
Du Pape (Maistre), XV, *b* 309, a 310
Du Parc, Marquise de Gorlo, actress (Racine), XX, b 212, a 213
Duparquet, Jacques Diel (Martinique), XV, a 593
Dupaty, Charles Marguerite Jean Baptiste Mercier (Vergniaud), XXIV, a b 178
Du Perac, Etienne, architect (Rome), XX, b 834, note, a 844
Duperré, Victor Guy, admiral (Algeria), I, b 499, a 500
DUPERREY, Louis Isidore, navigator, VII, a 473
Du Perron, Anquetil Abraham H., orientalist, II, a b 81; (Jones, Sir W.), XIII, a 750; (Persia), XVIII, a 666, a 667; (Zend-Avesta), XXIV, *b* 816
DUPERRON, Jacques Davy, cardinal, VII, a b 473; (Casaubon), V, a *b* 151; (France), IX, a 576; (Morin), XVI, a 851; (Mornay), b 855
Dupes, day of (France), IX, b 501-2
Du Petit-Thouars, Louis Marie Aubert, botanist (Morphology), XVI, a 868
DUPIN, Andre Marie Jean Jacques, lawyer, VII, b 473-4
DUPIN, Louis Ellies, historian, VII, a 474; (La Bruyère), XIV, b 178
DUPLEIX, Joseph, governor-general, VII, a 474; (Burmah), IV, b 496; (Clive), VI, *b* 9; (India), XII, *b* 839, b 840
——, Scipion, historiographer (History), XII, b 24
Du Plessis, César Choiseul, marshal (Choiseul), V, a 592
——, Lucile, wife (Desmoulins), VII, a 114
—— -Mornay, P., theologian (France), IX, a b 576; XVI, a 855. See MORNAY
Duplex burner (Lamp) (Ill.), XIV, b 247

Duplex escapement (Watch) (Ill.), XXIV, b 417, b 418, a 419
—— Hammers, XI, b 380
—— method (Telegraph), XXIII, a b 132, note, a 133
—— *querela*, writ (Quare Impedit), XX, a 165
—— signalling (Heliography), XI, a 565
—— system (Machine Tools), XV, a 155
—— tubular boiler (Horticulture) (Ill.), XII, b 235
Duplicate proportions (Newton), XVII, a b 455
Duplication of the cube (Conic Sections), VI, a 242
Dupondius, coin (Numismatics), XVII, a b 670
Dupont, Peter, grand-master (St. John of Jerusalem), XXI, b 183
DUPONT, Pierre, song-writer, VII, b 474
DUPONT DE L'EURE, Jacques Charles, jurist, VII, b 474
DUPONT DE NEMOURS, Pierre Samuel, economist, VII, a 475; (Political Economy), XIX, b 372, *a* 374, b 382, a 396; (Quesnay), XX, a *b* 183; (Smith, A.), XXII, b 179
Dupplin Hatchery (Salmonidæ), XXI, a 237
Du Prat, Antoine, chancellor (France), IX, a 490; (Francis I.), b 608
Dupré, August, chemist (Alcohol), I, b 416; (Capillary Action), V, b 52, b 53; (Wine), XXIV, b 635
Du Prel, Karl, philosophic writer (Evolution), VIII, a 673
Duprez, F., mathematician (Capillary Action), V, a *b* 62
DUPUIS, Charles François, scientist, VII, a 475–6
——, Jean, adventurer (Tong-King), XXIII, *b* 469
——, Joseph, ambassador (Ashantee), II, b 595
——, *Tables de Logarithmes* of (Tables), XXIII, b 15, a 17
Dupuit's pipe equation (Hydromechanics), XII, b 510–11
Du Puy, Raymond, grand-master (St. John of Jerusalem), XXI, *b* 182, a 183
——, W. H., editor (United States), XXIII, b 884
Dupuy's direct process (Iron), XIII, b 346
DUPUYTREN, Guillaume, baron, surgeon, VII, a 476
DUQUESNE, Abraham, marquis, admiral, VII, a b 476; (Algeria), I, a 499; (Messina), XVI, b 62
——, fort (United States), XXIII, b 782, *a* 783
Du Quesnoy, François, artist (Carving), V, a 147; (Sculpture),. XXI, b 589
Dúra, plain (Mesopotamia), XVI, b 56
Dura den, Fifeshire (Geology), X, b 305
Dura mater and cranial sinuses (Anatomy) (Ill.), I, a b 759
Duramen, heartwood (Botany), IV, b 89, a 90
DURAN, Augustin, litterateur, VII, b 476; (Cid), V, *a* 677; (Spain), XXII, b 375, a 376
Durance river (Alpes), I, a 527; (Vaucluse), XXIV, a 155
Durand, Amand, engraver (Engraving), VIII, a 392, note
——, Sir Henry, lieutenant-governor (Ellenborough), VIII, b 136
Durandus of Santo Porciano, bishop, VII, a 477
DURANDUS or Durantis, Wilhelmus, jurist, VII, b 476–7; (Occam), XVII, b 738; (Scholasticism), XXI, a 448; (Typography), XXIII, b 728, b 738
Durangite (Mineralogy), XVI, a 425
DURANGO or Ciudad de Victoria, Mexico, VII, b 477
——, state (Mexico), XVI, a 223, a 908, b 909, a 910, b 911
DURANGO, Spain, town, VII, a b 477
Duráni, dynasty (India), XII, a b 846
Durante, Castor, engraver (Judas Tree), XIII, b 771
DURANTE, Francesco, composer, VII, b 477
DURAO, Jose de Santa Ritta, poet, VII, b 477–8
Duration, effect of (Magnetism), XV, b 261; sense of (Psychology), XX, b 69–71
DURAZZO, town, VII, a 478. See EPIDAMNUS
DURBAN or D'Urban, town, VII, a 478; (Natal), XVII, *b* 246, b 247, *a* b 248; (Observatory), b 736
Durbots or Dörböd, tribe (Calmucks), V, a b 629
Durbungah, town. See Darbhangah
Durdik, Joseph, metaphysician (Slavs), XXII, a 163
DUREN, town, VII, a 478
DURER, Albrecht, artist, VII, a 478–83
    Albrecht, senior, a 479
    art training, b 478–9
    bibliography, b 482–3
    engravings, b 480, b 481–2
    fame, contemporary, a b 481
    final labors, a b 482
    last journeys, a 482
    marriage, a 480
    Nuremburg art in 15th century, a b 479
    painting period, a 480, b 481
    travels of, early, b 479
    Venice, journey to, b 480–1
    woodcut period, a 482
—— (Cornelius), VI, a 374; (Engraving), VIII, b 389, *a* 390, a b 392, note, a 393; (Fortification), IX, *b* 391, a 392, b 408, *a* 411; (Germany), X, a 473; (Grün, H. B.), XI, *b* 199; (Lucas), XV, a 40; (Marcantonio), a *b* 538; (Numismatics), XVII, b 676; (Raphael), XX, a b 290; (Schools of Painting), XXI, a 457, b 463; (Sculpture), a 592
Duress, effect of (Treaties), XXIII, b 564
D'URFEY, Thomas, satirist, VII, a 483
DURHAM, county, Palatine (Plate V), VII, a 483–5
DURHAM, town (Ill.), VII, a 485–6
——, Arthur E., physiologist, (Sleep), XXII, a 165, a 168
DURHAM, John George Lambton, earl of, VII, a b 486
——, bishop of, III, a 684, a 685; (Bishop Auckland), a 686
—— cattle (Agriculture), I, a 270, b 343
—— and Churchill governor (Steam-Engine), XXII, a 533
—— Coal-field, VI, a 47, b 49
—— coke (Iron), XIII, a 299
—— college, Oxford (Libraries), XIV, b 513
Durham Gospels, MSS. (English Literature), VIII, a 363; (Miniature), XVI, b 457; (Palæography), XVIII, a b 163
Durham house (London), XIV, a 857, a 861
——, monks of (Seals), XXI, a 614. note
—— Observatory, XVII, b 730
—— University, XXIII, b 909–10; (Libraries), XIV, a 521, b 543
DURIAN, fruit, VII, b 486–7; (Borneo), IV, b 51
Durich, Fort., philologist (Slavs), XXII, a 158
Durini family (Monza), XVI, a 825
Durio, tree (Durian), VII, b 486
Durival, Jean, author (Mirabeau), XVI, b 517, b 520
DURKHEIM, town, VII, a 487
DURLACH, town, VII, a 487
Durmast Oak, XVII, b 709, a 710
Durme, river (Lokeren), XIV, a 819
Durness, Kyle or bay of and town (Sutherland), XXII, b 763, a 764, a 765
Durnovaria (Dorchester), VII, b 316, a 317
Durocassis, town (Dreux), VII, b 405
Durocher's theory of rocks (Geology), X, b 198–9
Durostorum, town (Silistria), XXII, b 59
Durotriges, tribe (Dorset), VII, b 320, a 322
Durovernum, town (Canterbury), V, a 27
DURRA or Indian Millet, VII, a b 487; (Millet), XVI, b 333
Durrânis, tribe (Afghânistân), I, b 210, a 212, a 215
D'Urvillæa utilis, species (Algæ), I, a b 449
D'Urville, traveller. See DUMONT D'URVILLE
Durward, Alan, justiciar (Alexander III.), I, a 434; (Scotland), XXI, *b* 507, a 508
Duryer, Pierre, dramatist (Drama), VII, b 366
Duryodhana, prince (Sanskrit), XXI, b 294, a 295
Du Serre, preacher (Camisards), IV, b 657
Dushan, Stephen, king (Servia), XXI, a 721
Dushenka (Russia), XXI, b 114
Dushety, town (Transcaucasia), XXIII, b 547
Düsing, physiologist (Sex), XXI, *a b* 758, a b 759, note
DUSSEK, Johann Ludwig, composer, VII, b 487–8; (Pianoforte), XIX, b 82; (Woelf), XXIV, b 659
Düsseldorf, district (Prussia), XX, *b* 25, *a* 26
DUSSELDORF, city (Plan), VII, a b 488; academy (Schadow), XXI, b 402; music at (Mendelssohn), XVI, a 12; Observatory, XVII, b 732
Düsselthal, village (Düsseldorf), VII, b 488
Dust in atmosphere (Twilight), XXIII, b 716
—— or braize of coal (Pennsylvania), XVIII, a 512
——, fern (Horticulture), XII, a 277
—— images (Electricity), VIII, a b 62
Duster, machine (Paper), XVIII, b 223
Düsterdieck's *Commentary* (John, Epistles of), XIII, b 719, b 720
Dusting (Gunpowder) (Ill.), XI, a 293
Dust-showers (Geology), X, b 236; volcanic (Geology), b 218–9
—— storm (Meteorology), (Ill.), XVI, a–b 136
Dutch, people (Acclimatization), I, a b 85; (Áchín), b 91; (Amboyna), b 581; (Blake), III, a 698; (Bleaching), b 704; (Brazil), IV, b 206, a 207; (Calico-Printing), b 606; (Cambodia), a 641; (Cochin), VI, a b 85; (Colombo), *b* 141; (Cotton), b 433–4; (Goa), X, a 630; (Japan), XIII, a b 582, b 587, a 594; (Malacca), XV, b 315–6; (Renaissance), XX, a 404; (Pernambuco), XVIII, a 563; (Pichegru), XIX, b 88; (Sumatra), XXII, b 671–3, b 674; (Western Australia), XXIV, *a* 537; (Whale), *a* 557; wars with England, VIII, b 312, a b 313. See HOLLAND, NETHERLANDS
—— Academy (Holland), XII, *b* 97
—— Army, II, a 537
—— Annuities, II, a 70, b 77
—— Arsenals, II, a 555
—— Boers (Zululand), XXIV, *a b* 868. See Boers
—— books, early printed (Typography), XXIII, a b 735
—— bulbs (Hyacinth), XII, *b* 435
—— cartographers (Map), XV, b 527–8; (Melvill van Carnbee), b 853
—— cattle (Breeds), IV, a 220
—— character (Holland), XII, a b 72
—— clinkers in paving (Building), IV, b 417
—— Clocks, VI, *a* 25, a 32; (Ispahan), XIII, b 404
—— coins (Numismatics), XVII, b 674
—— Colonies, VI, a 143, a 145; (Africa), I, a 221, a 226; (America), a 627; (Ashantee), II, a 596;

Dutch, *continued*
  (Borneo), IV, a *b* 53; (Cape Colony), V, b 40-1; (Ceylon), b 316-7; (Chinsurah), a 586; (Delaware), VII, a b 40; (Guiana), XI, a 223-5; (India), XII, b 836, a 838-9, a 841; (Indian Archipelago), b 857-60; (Java), XIII, b 620; (Natal), XVII, *b* 248; (New Guinea), *a b* 399; (Sumatra), XXII, b 672-3, b 674; (Timor), XXIII, b 424; (Timor Laut), a 425; (United States), a 778; (West Indies), XXIV, *a* 538
—— Drama, VII, b 383
—— East India Company (Coffee), VI, a b 101; (Hottentots), XII, b 326; (Hudson, H.), b 346; (Indian Archipelago), a b 859; (Java), XIII, b 620; (New York), XVII, a 475; (Portugal), XIX, a b 563
—— explorers (Australia), III, a b 91; (Geography), X, a 165, *b* 166-7, a 168; (Polar Regions), XIX, a b 329, a b 330, a 337; (Western Australia), XXIV, *a* 537
—— independence (Holland), XII, b 79-80; (Renaissance), XX, a b 404
—— Guiana, XI, a 223-5
—— language (Dictionaries), VII, b 162; (Europe), VIII, a 615; (Germany), X, *a* 462; (Holland), XII, a 87-93
—— Learned Societies, XXII, a *b* 236, b 237, a b 238, *a* b 239, a b 240
Dutch Nation, The (Helmers), XI, b 568
—— painting (Schools of Painting) (Ill.), XXI, a 459, b 463-4, *b* 465, a *b* 466, b 468. See Painting, Dutch
—— poetry. See Poetry, Dutch
—— Rabbits, XX, *a* 200
DUTCH REFORMED CHURCH, XX, b 352, note; (Arminius), II, b 483-4; (Dort, Synod of), VII, a b 324; (Presbyterianism), XIX, a b 716; American (New York), XVII, b 896; (Presbyterianism), XIX, b 717, a 719, b 720
Dutch Republic (American Literature), I, a b 635; (Motley), XVII, b 8-9
—— roots (Haarlem), XI, b 318
—— rubbers, game (Bowls), IV, b 163
—— rush, plant (Horsetail), XII, a 212
—— systems (Shorthand), XXI, b 881
—— vessels (Harbors and Docks), XI, a 408
—— West India Company (New York), XVII, b 473; (Van Rensselaer), XXIV, a 876
Dutchess cattle (Agriculture), I, a 344
"Dutchman" (Horse), XII, b 208
DUTENS, Louis, author, VII, b 488-9; (Gunpowder), XI, *b* 282
Dutertre, Jacques, missionary (Yellow-Fever), XXIV, b 771
Duthiersia, genus (Tape-Worms), XXIII, b 60
Duties, tax (Advertisement), I, a 161; (Corn Laws), VI, b 363, a b 364-6; (Free Trade), IX, a 661-70; (Ireland), XIII, b 240-1; Athenian (Finance), IX, b 150; illegal (England), VIII, b 308; imports, first imposition of (United States), XXIII, b 802; Townshend's (United States), a 786-7. See PROTECTION, Tariffs
Du Tillet, Louis, canon (Calvin), IV, b 633, a 634
DUTROCHET, René Joachim Henri, physiologist, VII, a 489; (Physiology), XIX, b 67, a 68, a b 69
Dutton, C. E., geologist (Surveys), XXII, b 937, a 938
Dutuit, Eugene, biographer (Rembrandt), XX, a 390
Duty in morals (Law), XIV, a b 356, b 357, b 361; external (Stoics), XXII, a 597, a b 599; nature of (Schleiermacher), XXI, *b* 430
Du Vair, Guillaume, jurist (France), IX, a *b* 576; XXIV, b 36-7
DUVAL, Jules, economist, VII, a b 489
——, M. R., orientalist (Syriac Literature), XXII, a 893 note
Düveke, courtesan. See DYVEKE
Du Verdier, Claude, poet (Rabelais), XX, *b* 202
DUVERGIER DE HAURANNE, Jean, theologian, VII, b 489
Duverney, Joseph Guichard, physician (Anatomy), I, b 712, a b 713; (Ornithology), XVIII, b 11
——, Paris banker (Beaumarchais), III, *a* 404
Duvet, François Joseph, sculptor (Sculpture), XXI, b 590
Duveyrier, Henri, geographer (Kabyles), XIII, b 823, note
Duxbury, Massachusetts, town (Standish), XXII, a 919
Dvina, river. See DWINA
Dwale or deadly nightshade (Belladonna), III, a 469
DWARAKA or Jigat, town, VII, b 489
Dwarávati-pura, city (Hassan), XI, a 456
DWARF, VII, b 489-91; (Edda), b 564; (Monster), XVI, a 789; German (Hephæstus), XI, *a* 605
—— apple (Horticulture), XII, a 279
—— Pine, XIX, b 112
—— races (Bushmen), IV, b 512, b 513
—— tree pruning (Horticulture) (Ill.), XII, a b 247
Dwars, districts (Bhutan), III, a 547; in den Weg, island (Sunda Islands), XXII, b 687; western (Jálpáigurí), XIII, a b 558
Dwarsberg range (Transvaal), XXIII, a 550
Dwellings (Arabia), II, a 219; (Architecture), a 371; (Baghdad), III, b *a* 200; (Bamboo), a 264; (Benares), b 479; (Berlin), a b 514; (Bhután), a 546; (Brehon Law), IV, a 226; (Buenos Ayres), b 394; (Cairo), b 572-3; (Catacombs), V, b 184; (China), b 557; (Damascus), VI, a 697; (Greenland), XI, b 152; (Heating), a 529; (Hottentots), XII, a 324; (Hygiene), a b 601-2; (Japan), XIII, b 587-8; (Java), b 615; (Kâfiristân), b 832; (Lhasa), XIV, b 496-7; (London), a 855, b 859; (Madagascar), XV, a 173; (New Britain), XVII, a 382; (New Caledonia), a 386; (New Guinea), b 398-9; (New Hebrides), b 405; (Rome), XX, b 848-9, a 857; (St. Petersburg), XXI, a 202; (Switzerland), XXII, b 818; (United States), XXIII, b 876. See BUILDING
—— Assyrian (Architecture), II, a 349, a 350; Bedouin (Arabia), b 216-7; Chinese (Architecture), b 393; (China), V, b 557; Egyptian (Architecture), II, b 343; (Cairo), IV, b 572-3; Greek (Architecture), II, a 362; Indian, North American, I, b 606
DWELLINGS, LAKE, XIV, a 223-5
——, Mediæval (Ireland), XIII, b 261, a 262; Roman (Architecture) (Plate XVII), II, b 367-9, a 371; (Rome), XX, b 848-9, a 857
Dwight, John, potter (Pottery and Porcelain), XIX, b 651, b 660
DWIGHT, Timothy, theologian, VII, a 491; (American Literature), I, b 633; (Trumbull), XXIII, b 944, a 945
DWINA or Duna, rivers, VII, a b 491; Northern, a 491; (Russia), XXI, a b 80, a 82; Southern or West, VII, a b 491; (Baltic), III, a 254; (Livonia), XIV, a 730; (Pskoff), XX, a *b* 40; (Riga), a b 568; (Russia), XXI, a b 80, a 81, a 82, b 83, b 85; (Vitebsk), XXIV, b 281, *a* 282; (Vologda), b 771
Dyad elements (Chemistry), V, b 409, a 410
Dyakisdodecahedron (Mineralogy) (Ill.), XVI, a 368
Dyaks, race (Borneo), IV, b 51-2, a 53; (Brooke, Rajah), a *b* 333; (Dictionary), VII, b 166; (Ethnography), VIII, a 547; (Funeral Rites), IX, a 725; (Taboo), XXIII, a 22; dialects of (Borneo), IV, b 52
Dyas system, rocks (Geology), X, b 311-2
DYCE, Alexander, editor, VII, b 491-2; (Beaumont and Fletcher), III, a 405; (Bentley), b 499, a 501; (Peele), XVIII, b 468
——, William, painter, VII, a b 492; (Glass), X, b 600, a 601
—— library, South Kensington (Libraries), XIV, b 517, a 545
Dych Tau, mountain (Caucasus), V, a 220
Dyedinova, village (Ryazañ), XXI, b 124
Dyer, Sir Edward, poet (Pastoral), XVIII, b 351
DYER, John, poet, VII, a b 502
——, W. T. T., botanist (India), XII, a 779
DYEING, VII, b 492-502
  artificial colors, a 494
  black colors, a b 501
  blue colors, a 498-9
  brown colors, a 501
  compound colors, a 500-1
  definition, b 492-3
  general principles, b 494-5
  green colors, a 500
  historical sketch, a 493-4
  mordants, general use, b 494-5
  orange colors, b 500
  practical processes, b 495-501
  purple colors, b 500
  red on cotton, b 497-8
  red on wool, b 495-7
  reference books, a 502
  theory of, b 501-2
  yellow colors, b 499-500

—— (Calico-Printing), IV, b 609-10; (Fur), IX, b 737; (Java), XIII, a 615; (Jute), b 812; (Leather), XIV, a *b* 389-90; (Silk), XXII, a b 70-1; 15th century (Mural Decoration), XVII, b 44; morocco (Leather), XIV, a 389
Dyes, Aniline, II, b 43-4; (Chemistry), V, a 501; (Coal Tar Colors), XVIII, a 903-5
——(Brazil-Wood), IV, b 216; (Buckwheat), a 380; (Calico-Printing), b 610-11; (Catechu), V, b 192; (Carbolic Acid), b 76; (Cochineal), VI, b 89; (Glycerin), X, b 623; (Henna), XI, b 583; (India), XII, a 796, b 797; (Indigo), a 884-5; (Kermes), XIV, b 51, a 52; (Lac), b 182-3; Lichens, b 562-3; (Archil), II, a 332; (Madder), XV, b 177; (Phthalic Acid), XVIII, a 869; (Pigments), XIX, a 94; (Quercitron), XX, a b 182; (Safflower), XXI, a b 153; (Saffron), *b* 154; action of light on (Photography), XVIII, a 853; effect of (Photography), a b 851; vegetable (Chemistry), V, a 497
Dyestone ore (United States), XXIII, a 867
Dye-woods (Calico-Printing), IV, a 611; (Forests), IX, a 358; (Heath), XI, a 527; (*Honduras, British*), XII, *a* 137; (Logwood), XIV, b 814-5; (Oak), XVII, b 712, a b 713; (Sappan Wood), XXI, a 317; (Teak), XXIII, b 111
Dyfi, river and valley (Merioneth), XVI, *b* 43
Dyfnaint, kingdom (Devonshire), VII, b 122
Dyfrdwy or Dee, river (Merioneth), XVI, b 43, a 44
Dying Gladiator, statue (Archæology), II, b 319; (Ireland), XIII, b 263

Dykes (Belgium), III, b 444; (Essex), VIII, a 488; (Holland), XII, *a* b 62, b 65; (Loire, River), XIV, a 816; (Po), XIX, a 264; (Teredo), XXIII, *a* 202
——, Beresite (Gold), X, a b 661; defensive (Shropshire), XXI, b 887; lava (Geology), X, a 218, a 220; rock (Geology), b 276-7; Roman (Cambridge, County), IV, b 643, a 644; (Canal), *b* 691-2
Dyle, river (Belgium), III, a 445
Dymphna, saint (Gheel), X, b 502, a 503
Dynamic colorimetry (Heat), XI, a 497-8
—— equations of scales (Heat), XI, b 509-12
—— Geology, X, b 190, a 214-8
—— principles (Kant), XIII, b 862, b 863
—— stability in Ship Building, XXI, b 852
—— theory of diffraction (Wave Theory), XXIV, b 477-9; theory of electrolysis (Electricity), VIII, b 84-8; theory of heat (Energy), a 189; (Fortification), IX, a 399; (Thermodynamics), XXIII, a 303-8
—— Theory of Tides, XXIII, b 380-6
DYNAMICS, VII, b 502-4; (D'Alembert), VI, b 682; (Galileo), X, a 29; (Hamilton, Sir W. R.), XI, *b* 377; (Huygens), XII, a 432; (Mechanics), XV, b 705-57; (Physical Sciences), XIX, a 6-7
——, applied (Mechanics), XV, a 774-81; electric (Ampère), I, b 656; of an elastic solid (Mechanics), XV, a 751-4; Electro, VIII, b 10-11, b 62-78
Dynamics of a Particle (Hodograph), XII, a 46; (Mechanics), XV, b 757
—— of stresses and strains (Elasticity), VII, a 714-6; of a system of particles generally (Mechanics), XV, a 729-31
DYNAMITE, explosive, VII, b 504-5; (Blasting), III, *b* 702, *a* 703; (Mining) (Ill.), XVI, a b 465; (Nitroglycerin), XVII, a 534-5; (Torpedo), XXIII, b 477-8
Dynamiters, suppression of (United States), XXIII, b 830
Dynamo-electric machine (Blasting), III, a 704; (Lighting), XIV, a 637-9; (Siemens), XXII, a 43; (Traction), XXIII, a 526
DYNAMOMETER, VII, a 505; (Harbors and Docks) (Ill.), XI, b 409-10; (Mechanics), XV, b 774
Dynamometric governors (Steam-Engine) (Ill.), XXII, a b 533
Dynasties, ancient (Egypt), VII, b 632-3; (Weights and Measures), XXIV, a b 508, a b 510, a 513
—— of Babylon, III, b 524, a 525; (Berosus), a b 525
—— of Bengal III, b 491-2
Dyne, unit (Dynamics), VII, a 504; (Energy), VIII, b 187; (Measurement), XV, *a* 675; (Telegraph), XXIII, a 124
Dyrrachium, city (Epidamnus), VIII, a 423; (Greece), XI, a 106; (Illyria), XII, a 748; (Numismatics), XVII, a 658. See DURAZZO and EPIDAMNUS
Dysanalyte (Mineralogy), XVI, a 445
DYSART, town, VII, a b 505; Main Coal, VI, b 51
Dysaster, fossil (Echinodermata) (Ill.), VII, a 545, *a* 547
Dyscolus, Apollonius, grammarian (Grammar), XI, a 39
DYSENTERY, disease, VII, b 505-6; (Bee), III, a 430; (Cochin China), VI, a 87; (Egypt), VII, a b 610; (Ipecacuanha), XIII, a b 216, a 217; (Pathology), XVIII, a b 405
Dysluite (Mineralogy), XVI, a 402
Dysmerogenesis (Hydrozoa), XII, b 587-8; (Vertebrata), XXIV, *b* 198
Dyson, Jeremiah (Akenside), I, *a b* 386
DYSPEPSIA, disease, VII, b 506-7; (Dietetics), b 179-80; (Insanity), XIII, a 112; (Stomach Diseases), XXII, a b 603; gout a form of (Pathology), XVIII, a 397
Dyspnœa, disease (Respiration), XX, a b 500
Dysporomorphæ, group (Birds), III, a 618, b 627, a 630
Dytiscidæ, family (Coleoptera) (Ill.), VI, b 115, a b 116, b 117
DYVEKE, mistress, VII, b 507-8
Dzerin, species (Antelope), II, b 90
Dzierzon, Johann, naturalist (Bee), III, a 426, a 430, b 431, a 434
Dzungañs, people (Turkestan), XXIII, b 677
DZUNGARIA or Songaria, kingdom, VII, b 508; (Turkestan), XXIII, a 673, b 680-1
Dzungarian gate (Turkestan), XXIII, b 674
Dzungarians, people (Lhasa), XIV, b 502
Dzunmo-Lun mountains (Tibet), XXIII, a 363

E. letter, VII, a 508
e, Naperian base (Logarithms), XIV, b 779, *a* b 780, b 781
E at Delphi, On the (Plutarch), XIX, a 246
EACHARD, John, satirist, VII, a b 508
Eadbert or Ecbert, king (Northumberland), XVII, a 584; (Scotland), XXI, a 499, note
Eadfrith, bishop Lindisfarne (English Bible), VIII, a 342
Eadgar, king of Wessex. See Edgar
Eadgyth. See Editha
—— Swanneshals, wife of Harold II., XI, b 435
EADIE, John, divine, VII, b 508-9
EADMER or Edmer of Canterbury, historian, VII, a b 509; (Scotland), XXI, a b 504; (Wilfrid), XXIV, b 597, a 598
Eadmund. See EDMUND
Eadred, king (England), VIII, a 257, a b 258
Eadric the Wild, Saxon chief (England), VIII, a 263
Eads, James Buchanan, engineer, *b.* 1820, *d.* 1887 (Bridges), IV, b 305; (Diving), VII, a 259, note, b 260; (Mississippi), XVI, a 544; (New Orleans), XVII, b 414; (River Engineering), XX, a 596
Eadulf Cudel of Lothian, earl (Northumberland), XVII, *b* 584
Eadwig. See EDWY
Eadwine. See Edwin
—— earl (Harold II.), XI, *a* 435
Eager, wave. See Bore
EAGLE, birds (Ill.), VII, b 509-11; (Birds), III, a 617, a *b* 618, a 629, a 669; (Buzzard), IV, b 536-7; in Heraldry (Ill.), XI, b 624, a 625, b 634; (Mythology), XVII, b 153; (Pilate), XIX, a 98
——, sign (Zodiac), XXIV, a 832
——, golden (Lämmergeyer), XIV, a b 244-5; eggs of (Birds), III, a 671
——, island (Achill), I, b 89
—— mountains (Texas), XXIII, b 221
—— Owl, bird, XVIII, a 93
—— Pass (Texas), XXIII, *b* 221
—— Ray, fish (Ill.), XX, b 312-3
—— river (Labrador), XIV, a 176
—— tower (Carnarvon), V, b 105
Eaglewood (Cambodia), IV, b 641
Ealdhelm, saint (England), VIII, a 258. See ALDHELM
Ealdhune, bishop (Durham), VII, a 485
Ealdred, bishop (English Bible), VIII, a 342
Ealhwine. See Alcuin
Ealred. See Ailred
Eanfled, Oswy's queen (Wilfrid), XXIV, a 597
Eanfrid, king, Bernicia (Northumberland), XVII, a 583
EAR, VII, a 511-14
  diseases of, a 514
  external, a 511
  internal, a 512-3
  middle, a b 511
  physiology of hearing, b 513-4
  vibrations, b 512-3
—— (Anatomy) (Plate XIX), I, a 723, a 734, a 783-6; (Birds), III, a 629; (Diving), VII, a 260; of emballonura (Mammalia) (Ill.), XV, b 417; (Mammalia), a b 370, a 412; (Owl), XVIII, a 92, a 93, notes; (Reptiles), XX, a b 474; internal (Anatomy), I, a b 707, a 708; mechanism of (Music), XVII, *a* 110
Ear-cockle, animalcule (Wheat), XXIV, b 566
EARL, title (Ill.), VII, b 514-5; (Peerage), XVIII, a 470, b 471, a b 473, b 474, a b 475, a 478; Canute's (England), VIII, b 260; rank (Parliament), XVIII, b 312; of William I. (England), VIII, a b 265
Earldoms, royal acquisitions of (Scotland), XXI, a 515
EARLE, John, bishop, VII, a b 515
—— historian of (Swithun), XXII, *b* 814
Earlstown junction (Newton-Le-Willows), XVII, b 461
Earlstown, town (Berwickshire), III, *b* 529
Earl-marshal (Marshal), XV, a 581; (Precedence), XIX, *b* 682 note; (State, Great Officers of), XXII, *b* 475, a 477
EARLOM, Richard, engraver, VII, b 515
Earl's Barton steeple (Architecture), II, b 372
Early English Pronunciation, Ellis (J.), XIII, a 538
Early, Jubal A., general (United States), XXIII, a 828
Earnest, payment (Sale), XXI, b 215, b 216, b 217
Earnshaw, Thomas, mechanician (Watch), XXIV, b 416, b 418
EAR-RING, ornament, VII, b 515-6; (Jewellery) (Plate XII), XIII, b 687, a 688; Greek (Costume), VI, a 402
EARWIG, insect (Ill), VII, a 530-1; (Insects), XIII, a 159
EARTH, Figure of the, VII, a 516-26
  arc of meridian measurements, a 516-8
  Bessel's triangulation method, b 517-9
  comparison of standards, b 523-4
  compensation bars, a b 518
  early spherical measurements, a 516
  local attraction, b 520-2
  mechanical theory, b 518-20
  pendulum observations, a 526
  principles of calculation, a 522-3
  semiaxis, calculation of, a 524-6
  solid of revolution, a 526
  zenith sectors, b 518
—— (Astronomy), II, b 692-7; (Mythology), XVII, a 156, *b* 161, *b* 163
——, age of its consolidation (Tides), XXIII, b 402, b 404-5
——, axis of (Astronomy), II, a 694; VII, a 524-6; inclination of (Geography), X, b 177-8
——, circumference of (Ptolemy), XX, b 97
——, cooling of the (Geology), X, a 222, a 226, b 229, b 329, a 331
——, cotidal lines of (Tides) (Ill.), XXIII, b 396-7

Earth, crust of (Geology), X, *a* 198-9; contraction of, b 225-6, b 229, a 232-3, a b 329-30, a 331; formation of (Dolomieu), VII, a 300; movements of (Geology), X, a 194
—— currents, electric (Meteorology), XVI, b 185, b 186, b 190-1
——, deformation of the (Tides), XXIII, b 398-9, b 404-5
——, density of the (Astronomy), II, a 694; (Cavendish), V, a 237; determination of (Maskelyne), XV, a 616
——, distance from sun of (Light), XIV, a b 589
——, electricity of, VIII, a 68
——, figure of, VII, a 516-26; (Astronomy), II, b 669-71, b 692; (Geology), X, b 192; (Geodesy), a b 154; (Huygens), XII, b 432; (Hydromechanics), b 458-9; Clairaut on (Astronomy), II, b 663; determination of (Astronomy), b 661
——, horizontal force of (Magnetism), XV, a 240-1
—— inductor (Magnetism), XV, a 242
——, interior condition of (Geology), X, a 199-202
——, irregularities of surface (Geodesy), X, b 152-3
——, mass of (Astronomy), II, b 693
——, magnetic system (Magnetism), XV, b 238-9; (Meteorology), XVI, b 189; intensity of (Magnetism), XV, a 240-1
——, measurement of (Astronomy), II, b 670
——, meteorological system (Meteorology), XVI, b 189
——, moon system, degradation of (Tides), XXIII, a 402; uniqueness of (Tides), a 403-5
——, motion of (Mechanics), XV, b 724; (Geology), X, b 192-6
——, orbit of (Astronomy), II, a 656, b 695
——, potential of (Magnetism), XV, b 235-6
——, radius calculation (Geography), X, a 176, a 177
——, resistance of (Mechanics), XV, a 759
——, rotation of (Gyroscope), XI, a 314, b 315-6; (Tides), XXIII, a 377, a b 400-1; Retardation of, a 402-4, a 406
——, *Sacred Theory of the* (Burnet, Thomas), IV, a b 503
——, sphericity of (Thales), XXIII, a 237; first known (Geography), X, a 158
——, *Theory of the* (Hutton), XII, b 430, *a* 431; (Whiston), XXIV, a 579
—— Thermometers, XXIII, a 312
——, yellow (Mineralogy), XVI, b 443
Earth-closet (Agriculture), I, a b 311; (Building), IV, b 418; (Sewerage), XXI, b 753
Earthenware (Filter), IX, b 146, a 147; expansion test (Pyrometer), XX, a b 139; Roman (Inscriptions), XIII, b 136. See POTTERY
Earth-Flea, IX, a 263
—— -flea, beetle. See Turnip-Fly
Earthkin, magnet (Magnetism), XV, b 223-4
Earthly Paradise (Gleyre), X, b 605
Earth-Oracles, XVII, a 832
Earth-pig (Aard Vark), I, b 10; (Mammalia), XV, b 392
EARTHQUAKE (Ill.), VII, a 526-30
    accounts of early, b 526
    bibliography, a 530
    distribution of, b 529-30
    propagation of, a 527-8
    seismometers (Ill.), b 528-9
    theories of, b 526-7
    waves of vibration, a 527-8

——, 1755, at Lisbon, XIV, b 696 note, a 699; (Canstatt), V, a 25; (Teplitz), XXIII, b 200
Earthquakes (Aleppo), I, a 423; (Antioch), II, a 116, a 117; (Arequipa), b 426; (Artesian Wells), a 564; (Asia Minor), b 621; (California), IV, a 621; (Chili), V, b 535; (Europe), VIII, a b 599; (Famines), IX, a 24; (Geology), X, b 226-7; (Greece), XI, b 74; (Hainan), a 335; (Hawaiian Island), a 475; (Hydra), XII, b 446; (Ibarra), a 639; (India), b 774, a 777; (Iquique), XIII, a 219; (Ischia), b 395; (Isernia), b 396; (Jamaica), b 560; (Japan), a b 581, b 583; (Java), a 611, note; (Kant), b 856; (Lake), XIV, *a* 222; (Malaria), XV, a 321; (Mendoza), XVI, b 13; (Mexico), a 224, note; (Oajaca), XVII, b 708; (Oran), b 833; (Panamá), XVIII, *b* 212; (Peru), a 685; (Philippine Islands), a b 763; (Pompeii), XIX, b 459; (Port Royal), a 548; (Poseidon), a 574; (Potenza), a 616; (Ragusa), XX, a b 228; (Santiago), XXI, a 314; (Seismometer), b 657-61; in South America, I, b 591; (South Carolina), XXII, a 301; (Turkestan), XXIII, b 675; (Zante), XXIV, b 805
Earth-stopper (Hunting), XII, a b 411
Earth-Wolf. See AARD WOLF
Earthworks (Fortification), IX, a 379-88; (Todleben), XXIII, b 459
Earth-worm (Mole), XVI, a 631; (Worm)(Ill.), XXIV, a 712-9; parasite of (Protozoa), XIX, b 877
Earthy waters (Mineral Waters) (Table), XVI, a b 452
Easby Abbey, I, b 25
Easel (Painting), XVIII, b 141
EASEMENT, Right of, VII, a 531; (Prescription), XIX, a b 724; extinguishment of (Possession), b 577
Easky river and lake (Sligo), XXII, a 169
East river (Labrador), XIV, a 176
—— river (New York), XVII, *a* 470
East-Angles, tribe (England), VIII, a 244
East Anglia, kingdom (Suffolk), XXII, *a* 655
EASTBOURNE, town, VII, a 531; (Sussex), XXII, *a* 762
East Cheap Market (London), XIV, *a* 857
EASTER, festival, VII, a 531-2; (Calendar), IV, a b 593, a 598-9; (Fasting), IX, b 41
—— controversy (Ireland), XIII, b 255; (Irenæus), b 279; assemblies (Volunteer), XXIV, b 315; how determined (Calendar), IV, b 598-601; in Sweden (Demonology), VII, b 55. See PASSOVER
—— island (Geography), X, a *b* 169; (Polynesia), XIX, a b 442; (Rapanui), XX, b 285
Eastern Archipelago (Pacific Ocean), XVIII, a 120, a 123, a 125
—— Bosphorus, strait (Vladivostok), XXIV, b 291
—— Church (Apostolic Canons), II, b 170; (Church), V, b 663, b 664; (Creeds), VI, b 495, b 497, a 499; (Greek Church), XI, a 137-42; (Hymns), XII, a 613-15; (Liturgy), XIV, b 712-3, a 716. See GREEK CHURCH, Orthodox Church Russian Church
—— Empire (Constantine VII.), VI, a 269; (Crusades), b 555-6; (Nicephorus I.), XVII, a 495; depression of (Greece), XI, b 101-2; organization of (Greece), a 104-5. See Byzantine Empire
—— epic (Poetry), XIX, a b 281
Eastern Life (Martineau), XV, b 590
Eastern Question, the (Italy), XIII, b 497, b 499-500; (Stratford de Redcliffe), XXII, *b* 619-20; (Wellington), XXIV, b 526
—— Roman Empire, VIII, a 166
—— shore (Maryland), XV, a b 609
—— Siberia (Maritime Province), XV, b 554-6
East Fuegia Island (Tierra del Fuego), XXIII, b 409-10
Easthampton, Mass. (Button), IV, b 532 note, a 533
East India Company (Asia), II, b 613; (Balasor), III, a 236; (Banjarmassin), a 272; (Bengal), a 492; (Bombay), IV, a 23; (Calcutta), a 582, *a* 583; (China), V, a b 565; (Clive), VI, b 9-13; (Cotton), a b 429, a 432-3; (Cuddalor), a 609; (Finance), IX, b 156; (Geography), X, a 166; (Gunpowder), XI, a 284; (Haldane), b 340; (Hastings), b 457, *a* b 458, a b 459, a b 460; (Holland), XII, a 81; (India), b 836, a 837-9, b 840, *a* b 841, a 846, a 850; (Lancaster, Sir J.), XIV, a 258; (London), a 839, b 840; (Mill, James), XVI, b 319; (Mill, John Stuart), b 321, b 325; (Ministry), a 496; (Missions), a b 537; (Moorcroft), b 829; (New Guinea), XVII, b 399; (Opium), a 810; (Peacock), XVIII, b 455; (St. Helena), XXI, a 180; (Shipping), b 865, *a* 867; (Tanjore), XXIII, a 52; (Tea), *b* 108, a 109; (United States), a 787; its army (Army), II, b 517; (Bengal), III, b 516
—— Company, Dutch (Geography), X, *b* 166; (Grotius), XI, a 194; (Hottentots), XII, b 326; (Hudson), b 346; (Indian Archipelago), a 859. See Dutch East India Company
—— Marine Society (Salem), XXI, b 220-1; trade (Acapulco) I, b 76
—— Indies (Holland), XII, a 72; (Ichthyology), b 671; (India), a 769
EASTLAKE, Sir Charles Lock, painter, VII, b 532-3; (Jameson, A.), XIII, a 572
——, Elizabeth Rigby, authoress (Cross), VI, a b 540. See List of Contributors
East Liverpool, Ohio, town (Gas and Gas-Lighting), X, b 79
—— London, town and district (Cape Colony), V, a 39, b 41, *a* b 42, b 44; Kaffraria), XIII, a 826
—— Lothian, county (Haddington), XI, b 322. See Haddington
East Lynne, novel (Wood), XXIV, b 678
East Moulsey, district (Surrey), XXII, b 729
Eastney, town (Portsmouth), XIX, b 549
EASTON, city of Pennsylvania, VII, a 533
EAST PRUSSIA, XX, *b* 24
East Riding (York), XXIV, b 783, *b* 784, *a b* 785, *a* 786
EAST SAGINAW, Michigan, city, VII, a 533
East St. Louis (St. Louis), XXI, b 194
—— Saxons (England), VIII, b 244. See ESSEX
East-Turki or Uigur language (Ural-Altaic), XXIV, a 5, b 6
Eastward Ho (Jonson), XIII, b 752
Eastwick, Edward Backhouse, orientalist (Rasht), XX, *a* b 298
—— and Harrison lever (Steam-Engine), XXII, a 924
Easy Club (Ramsay), XX, *b* 278
Eata, abbot and bishop of Hexham (Cuthbert), VI, b 646; (Northumberland), XVII, b 583
Eaton, Amos, naturalist (Sheathbill), XXI, a b 819; (Torrey), XXIII, b 481
——, John, educator (Schools), XXI, a 908
——, Theophilus, governor (New Haven), XVII, b 404
—— Square (London), XIV, b 861

Eaton's mule (Cotton), VI, a 443
—— puddling process (Iron), XIII, b 335
EAU DE COLOGNE, VII, a 533
—— de luce (Amber), I, a 580
—— de Noyaux, liqueur (Apricot), II, b 86
—— médicinale (Hyssop), XII, b 634
Eaux-Bonnes, spa (Pyrénées), XX, *a* 133
Eaux-Chaudes, spa (Pyrénées), XX, a 133
Eaux-fortes sur Paris (Méryon), XVI, b 49, a 50
Eaux-Vives, commune (Geneva), X, b 131, b 132, b 133
Eb river (Chutiá Nágpur), V, b 671, a 672
Ebal mountains (Gerizim), X, b 399, note; (Palestine), XVIII, b 176
Ebb and flood defined (Tides), XXIII, b 375–6
EBEL, Hermann Wilhelm, philologist, VII, a b 533
Eber or Heber, leader and clan (Ireland), XIII, a 250, a 251
Eber, Biblical (Hebrew Language and Literature), XI, *b* 531
EBERHARD I. im Bart, duke of Würtemberg, VII, b 533–4; (Reuchlin), XX, *a* 504; (Würtemberg), XXIV, b 737–8
—— III. and IV., dukes of Würtemberg, XXIV, a 738
EBERHARD, August Gottlob, poet, VII, a 534
EBERHARD, Johann Augustus, theologian, VII, a b 534
Eberhard, chronicler (Gandersheim), X, *b* 61
Ebers, Georg, Egyptologist (Circumcision), V, a *b* 690
Ebersberg, battle of, 1809 (Austria), III, b 116
Eberswalde, town (Neustadt-Eberswalde), XVII, a 375
EBERT, Friedrich Adolf, bibliographer, VII, b 534–5
EBINGEN, town, VII, a 535
Ebin-gol, river (Transbaikalia), XXIII, a 542
EBIONITES, sect, VII, a b 535; (Canon), V, a 8; (Gospels), X, b 718; (Heresy), XI, b 656, b 658; (Irenæus), XIII, b 279, a 280; (Jesus Christ), a b 681; (Nazarenes), XVII, a 312
Ebir, tribe (Somali), XXII, a 269
Ebisuminato, town (Niigata), XVII, a 513
Eblani, tribe (Dublin), VII, a 428
Ebner, Christina and Margaretha (Mysticism), XVII, b 140
Ebnerin, Margaret of Nuremberg (Stigmatization), XXII, a 577
Ebn Faridh, poet (Arabia), II, a 231
—— Malek, grammarian (Arabia), II, a 232
—— Sáood, Mohammed, sheik (Arabia), II, a 228
Eboe, district. See IBO
EBOLI or Evoli, town, VII, b 535
——, Ruy Gomez de Silva, prince of (Perez), XVIII, b 535; (Philip II.), b 758
Ebon island (Polynesia), XIX, b 440–1
Ebonite or vulcanite (Accumulator), I, b 87; (India-Rubber), XII, b 883
EBONY, wood, VII, b 353–6; (Botany), IV, b 89, a 90; (St. Helena), XXI, *b* 179
Eboracum or Eoforwic, city (England), VIII, b 244; (York), XXIV, *a* 786, a 789
Ebrard, Johann Heinrich August, theologian (Dogmatic), VII, b 296, a 297
EBRO, river, VII, a 536; (Aragon), II, a 267; (Logroño), XIV, b 814; (Navarra), XVII, a b 256; (Spain), XXII, b 307, *a* 309, *a b* 310, a b 311, b 312, b 314, *b* 320; (Zaragoza), XXIV, a 808
Ebrodunum, town (Embrun), VIII, a 150
Ebroin, mayor of the palace (France), IX, a 469
Ebur fossile (Cave), V, a 232
Eburodunum, town. See Yverdon
Eburones, race (Cæsar), IV, b 565
Ebusus, island. See Iviça
ECARTÉ, game, VII, a 536–7
Ecatomiti, tales (Giraldi), X, b 553
Ecbalium, plant (Cucumber), VI, b 608; (Elaterium), VII, b 716
ECBATANA, cities, VII, b 537–8
—— or HAMADAN (*q.v.*), VII, b 537–8; (Alexander the Great), I, a *b* 427; (Persia), XVIII, b 574, a 576, a b 577, a 600, b 606; ruins of (Architecture), II, b 350
Ecbert, king of Northumbria. See Eadbert
Ecbolin, alkaloid (Ergot), VIII, b 461
Ecca, city. See ICA
ECCARD, Johannes, composer, VII, a 538
Ecce Homo by Guido Reni (Schools of Painting) (Ill.), XXI, b 455
ECCELINO or Ezzelino da Romano, Ghibelline chief, VII, a b 538
Eccentric (Mechanics), XV, a 771
—— fan-blower (Bellows) (Ill.), III, b 476
—— path, diagrams of (Steam-Engine), XXII, a 524–5
—— slide-valve (Steam-Engine) (Ill.), XXII, b 523, b 525
——, solution of link-motion by equivalent (Steam-Engine), XXII, b 526
Eccentricity of curve (Conic Sections), VI, a 242, *a* b 248; of earth's orbit (Geology), X, a 193, *b* 194–5, b 196; of moon's orbit, XVI, b 827, a 828; changes in (Tides), XXIII, b 403–4; of solar orbit (Ptolemy), XX, b 94, a 95, *a* 96 note
Eccerinus (Italy), XIII, b 516
ECCHELLENSIS or Echellensis, Abraham, translator, VII, b 538; (Maronites), XV, b 569
Ecchondrosis, tumor (Pathology), XVIII, b 376–7
Ecchymosis defined (Surgery), XXII, a 715
ECCLES, village, VII, b 538
Ecclesgreig, church (Scotland), XXI, b 500
ECCLESIA, assembly, VII, b 538–9; (Greece), XI, b 87
Ecclesia, De (Huss), XII, a *b* 421, a 422
ECCLESIASTES, *The Book of*, VII, a 539–42
  analysis of, a 540–1
  authorship, b 541
  canonical position of, a b 539, a 542
  design of, a b 541
  expositors, vagaries of, b 539
  literature, a 542
  time of composition, b 541–2
  title, b 539–40

—— (Bible), III, b 552; (Canon), V, *b* 4, *a* 6; (Job), XIII, b 713; (Semitic Languages), XXI, a b 678
Ecclesiastical abuses (Fabyan), VIII, a 738
—— archæology (Antiquities), II, a 119; (Somerset), XXII, b 272–3; (Surrey), a 730
—— Calendar, IV, a 590, b 591, a 593–601
Ecclesiastical Canon (Clemens Alexandrinus), V, b 716
ECCLESIASTICAL COMMISSION, VII, a b 542
—— Corporations, VI, a 383, a b 384
—— Costume (Ill.), VI, b 407–10; (Girdle), X, b 555; (Vestments), XXIV, b 211
—— courts (Appeal), II, a 182, a 183; (Intestacy), XIII, b 203; (Roman Law), XX, a 730; (Will), XXIV, a *b* 603, b 605
—— dietary (Scoter), XXI, b 492; Seals (Ill.), b 614–5
—— discipline (Law), XIV, a b 360
—— foundations (Italy), XIII, b 469–70
—— historians, modern (Greece), XI, b 134
—— *Histories* (Syriac Literature), XXII, b 876, *a* 877
—— *History* (Amat), I, a 575; of Bar-Hebræus (Syriac Literature), XXII, b 898; of Bede, III, a 415, a 416; (English Literature), VIII, b 362; of Sozomen, XXII, b 305–6
—— Immunities, congregation (Roman Catholic Church), XX, b 645
—— Latin (Latin Language), XIV, a 339–41
ECCLESIASTICAL LAW, VII, a b 543; (Glebe), X, b 603; (Simony), XXII, b 91–3; (Sunday), a b 689; (Witchcraft), XXIV, a 653–4, *a* 656; Saxon (Women), a 673. See Canon-Law, Church-Law, Law, Ecclesiastical
—— livings (Dilapidations), VII, b 208–9. See ADVOWSON, Presentation, SIMONY, VICAR
Ecclesiastical Polity, Laws of (Hooker), XII, b 154, *a* 155–6. See Polity
—— Precedence, XIX, b 686
—— Prerogative, XIX, a 694
—— Reforms. See REFORMATION, Reforms
—— reservation (Germany), X, a 448
—— scales (Music), XVII, a b 88
—— year (Chronology), V, a 619
Ecclesiasticus (Apocrypha), II, b 159, *b* 160; (James), XIII, b 563; (Jesus, son of Sirach), a 683
Ecclesiazusæ, play (Aristophanes), II, a 448; (Women), XXIV, a 908
Ecdemite (Mineralogy), XVI, b 425
Ecdysis (Insects), XIII, a 153
Ecgberht, king (England), VIII, b 255. See EGBERT
Ecgfrith, king (England), VIII, a 255
Echard, Jaques, historian (Voragine), XXIV, a b 317
Echellensis. See ECCHELLENSIS
Echeneis, genus (Ichthyology), XII, b 720, b 728; (Pilot-Fish), XIX, b 105
Echenique, José Rufino, general (Peru), XVIII, a b 692, note
Echevins, officers (Paris), XVIII, b 294
ECHIDNA or Porcupine Ant-Eater, animal, VII, b 543–4; (Platypus), XIX, b 225; (Mammalia), XV, a 351, b 361, a 387. See Ant-Eater
Echidnidæ, family (Mammalia), XV, *a* 374
Echinacea, plants (Horticulture), XII, a 258
Echinidea, order (Echinodermata) (Ill.), VII, a b 544–7
Echinocactus, group (Cactus), IV, *b* 555–6; (Horticulture), XII, b 274–5
Echinococcus, genus (Tape-Worms), XXIII, a b 58
Echinococcifer, genus (Tape-Worms), XXIII, a 61
Echinocucumis, genus (Echinodermata), VII, a b 554
ECHINODERMATA (Ill.), VII, a 544–5
  asteridea or star-fish (Ill.), a 547–9
  blastoidea (Ill.), b 553
  classification of, b 546–7, a 549, a 550, b 552, a 555
  crinoidea, or feather-stars (Ill.), b 550–2
  cystidea (Ill.), b 552–3
  echinidea or sea urchins (Ill.), a 544–7
  edrioasterida, b 553
  general observations, a 544
  holothuridea or sea slugs (Ill.), a 554–5
  larva of, b 546, b 548, a 550, a 552, a 555
  literature, a b 555
  ophiuridea or brittle-fish (Ill.), a 549–50

—— (Agassiz), I, b 246; (Animal Kingdom), II, b 46, b 47–8; (Cœlentera), VI, a 99; (Distribution), VII, b 241, 246; (Histology), XII, a 10; (Morphology), XVI, a b 869; (Reproduction), XX, a 421, b 431;

Echinodermata, *continued* (Parasitism), XVIII, a 264; (Sex), XXI, b 756; (Skeleton), XXII, a 114; (Touch), XXIII, b 508; (Vertebrata), XXIV, *a* b 203; (Zoology), a 852
Echinoida, genus (Echinodermata), VII, a *b* 545, *a b* 546
Echinoencrinus, genus (Echinodermata) (Ill.), VII, *a b* 553
Echinomys, genus (Mammalia), XV, a 422
Echinopædium, larva (Animal Kingdom), II, b 47, *a* 48
Echinopsis, genus (Cactus), IV, b 555, a 556; (Horticulture), XII, a 275
Echinorhinus, genus (Shark), XXI, a 815
Echinorhynchus, entozoon (Parasitism), XVIII, b 263, a b 264; (Veterinary Science), XXIV, a 223
Echinothrix, genus (Mouse), XVII, a 12
Echinothuridæ family (Echinodermata), VII, b 544
Echinus, genus (Echinodermata), VII, a b 546; (Fisheries), IX, a b 234; shell of (Histology) (Ill.), XII, a 10
—— moulding (Architecture), II, a 407; Greek (Architecture), a 354, a 355
Echiomyinæ, sub-family (Mammalia), XV, a b 425
Echiothrix, genus (Mammalia), XV, a 422, a 424
Echis, genus (Snake) (Ill.), XXII, b 209, a 210; (Viper), XXIV, b 265, b 266
Echiurus, genus (Annelida), II, a b 63, a 64
ECHO, nymph, VII, b 555; (Olympia), XVII, b 791
—— manual (Organ), XVII, a 854, a 861
—— Porch of (Olympia), XVII, b 791
Echoes (Acoustics), I, a 100; (Aëronautics), b 175
Echternach, town (Luxemburg), XV, b 88, *a* 89
Echunga, town (South Australia), XXII, b 297, b 298
ECIJA, city, VII, b 555–6; (Seville), XXI, b 740
Eciton, genus (Ants) (Ill.), II, b 86–7
ECK, Johann Maier von, polemic, VII, a 556; (Carlstadt), V, b 100; (Luther), XV, b 74, *a* 75, a b 76, a 77
ECKERMANN, John Peter, editor, VII, a b 556; (Goethe), X, b 655
Eckernforde, town (Schleswig-Holstein), XXI, b 432
ECKERSBERG, Carl Vilhelm, painter, VII, b 556; (Denmark), a 82
ECKHART, Johannes, mystic philosopher, VII, b 556–7; (Germany), X, b 470, b 471; (Mysticism), XVII, a b 140, a 141; (Tauler), XXIII, a b 88; (Theism), a 260, a 261, note
ECKHEL, Joseph Hilarius, numismatist, VII, b 557
Eckhof, Conrad, actor (Drama), VII, b 381; (Iffland), XII, a b 738
Eckhold's omnimeter (Surveying) (Ill.), XXII, b 756–7
Eckmühl, battle of, 1809 (Austria), III, b 116
Éclair, L' (Halévy), XI, b 341–2
Eclampsia, convulsions (Pathology), XVIII, a 400
Eclasa, Gradh or order (Celtic Literature), V, a 264
ECLECTIC Philosophy, VII, b 557–8; (Ammonius), I, a 652; (Peripatetics), XVIII, b 557; (Stoics), XXII, a b 600
Eclecticism, modern (Cousin), VI, b 463, b 465, a 467, b 468; (Fauriel, C. C.), IX, a 48; in Medicine, XV, a 813
Eclectus, genus (Lory), XV, *a b* 9, notes
"Eclipse" (Horse), XII, b 187–8, a 191
——, ship (Whale), XXIV, a 558
—— (Light), XIV, b 585; limits (Astronomy), II, b 703; observations (Sun), XXII, b 684; seasons (Astronomy), II, a 702
Eclipses (Babylonia), III, b 165; Irish (Gaelic), X, a 9; lunar (Astronomy), II, a 702–3; (Moon), XVI, b 825, b 828; (Ptolemy), XX, a 95
——, solar (Algebra), I, a b 493; (Astronomy) (Ill.), II, b 689, a 702–3; 585 B.C. (Persia), XVIII, b 575, note; 1858, 1878 (Sun), XXII, a *b* 682; 1882 (Sun), b 681, a 683; (Thales), XXIII, b 235–6
Ecliptic (Astronomy), II, a 674, a b 694; (Map), XV, a 523; changes in plane of (Tides), XXIII, a 403–4; lunar obliquity (Tides), b 404; obliquity of (Climate), VI, b 3; (Geology), X, a 193; (Ptolemy), XX, a 94
——, Martian (Tides), XXIII, a 405
Ecloga of Leo III. (Greece), XI, b 102
Eclogite, rock (Geology), X, b 210
Eclogues (Pastoral), XVIII, b 350, a b 351, a 352; modern (Italy), XIII, a 518; Spanish (Drama), VII, a 363, b 364; of Calpurnius, IV, *b* 630, a 631; of Virgil, XXIV, *a* b 268, *b* 269, a b 270
Écluse, L', Charles, naturalist (Phalanger), XVIII, a 741
Ecna, Gradh, order (Celtic Literature), V, a 263, a b 264; (Ireland), XIII, a 255, a 264
Ecolampadius. See Œcolampadius
École des Beaux Arts, Paris (Delaroche), VII, b 38
École des Femmes, comedy (Molière), XVI, b 650, a 651
École des Maris, comedy (Molière), XVI, 650
École Normale (Volney), XXIV, b 302, note; Polytechnique (Comte), VI, b 204, a b 206; (Universities), XXIII, a 907. See ACADEMY, French Schools, SCHOOLS and UNIVERSITIES
Economia pubblica, Elementi di (Political Economy), XIX, b 375
Economic Entomology. See Entomology, Economic
—— man (Political Economy), XIX, a 394, a 410; (History), XII, a b 25; revolution, mode of (Socialism), XXII, b 224, b 225, b 229–30, b 231–2. See POLITICAL ECONOMY
Economical Researches (Hermann), XI, b 661–2
Economics, book attributed to Aristotle (Macedonian Empire), XV, b 144
Économie Politique, Traité d' (Say), XXI, a *b* 376, a 377; *Publique Pratique, Cours d'* (Say), b 376, a 377
Economites, communistic society (Communism), VI, a 193. See RAPP
"Economizer" (Air-Engine), I, b 379, *a* 380
Economy (Dietetics), VII, b 181–3; (Taxation), XXIII, a 93; æsthetic (Psychology), XX, b 74; of production (Iron), XIII, a 323–6
——, Pennsylvania, town (Rapp), XX, a 896
Écorché, model (Houdon), XII, a 328
Écossaise Baths, III, a 380
Écossaise, L', play (Voltaire), XXIV, a 311, a 312
Ecsedi Lap, marsh (Hungary), XII, a 377
Ecskabalauron, treatise (Urquhart), XXIV, b 17
ECSTASY, mental state, VII, b 558; (Camisards), IV, b 657, b 658; (Inspiration), XIII, *a b* 161, *a b* 162; (Mysticism), XVII, b 136–7, *a* 138, a 139; (Neoplatonism), b 342, b 343, b 345, note
Ecteinascidia, genus (Tunicata), XXIII, a 656
Ecthesis, exposition (Martin I.), XV, a 589; (Monothelites), XVI, a 785
Ecthyma, eruption (Skin Diseases), XXII, a 131
Ectocarpeæ, family (Vegetable Kingdom), XXIV, *a b* 138
Ectocarpus, plant (Reproduction), XX, b 437, b 439, b 440, a 442
Ectochone (Sponges), XXII, b 431
Ectoderm, covering (Animal Kingdom), II, b 46, a *b* 48; (Embryology), VIII, b 150, a 156; anemone (Corals), VI, a b 327
—— cells (Histology), XII, b 6, a 8, a b 11, a 12; (Hydrozoa) (Ill.), a *b* 581, note, a b 582–3, a b 584, a 587, b 595; (Physiology), XIX, b 17–9; tissue (Sponges) (Ill.), XXII, b 434–5
Ectoparasites (Leech), XIV, *b* 405; (Parasitism), XVIII, a 266
Ectopistes migratorius, species (Pigeon), XIX, b 93
Ectoplasm (Histology), XII, a 6, a 13, b 14; products (Protozoa), XIX, b 855–6
Ectoprocta, sub-class (Polyzoa) (Ill.), XIX, a 451–2, a 454
Ectosarc, external layer (Animal Kingdom), II, *a* 46; (Foraminifera), IX, a *b* 325
Ectosome, tissue (Sponges), XXII, a 431
Ectyonidæ, family (Sponges), XXII, b 439
ECUADOR, La Republica del, state, VII, b 558–63
  area, b 558
  antiquites, b 562
  authorities, b 563
  botany, a b 561
  climate, a 561
  history, b 562–3
  minerals, b 560–1
  mountains, b 558–60
  organization, political and social, a b 562
  productions, a 562
  water systems, a b 560
  zoology, b 561–2

—— (Acclimatization), I, a 85; (America), a b 625; (Bolivar), IV, b 8, b 9; (Forests), IX, b 357; antiquities of (America), I, b 607; VII, b 562
Écuelle process (Orange), XVII, b 835
Ecumenical Councils. See Councils, Œcumenical
Ecuy Globe, X, a 608
Eczema, disease (Mercury), XVI, b 39; (Skin Diseases), XXII, b 130–1; epizootica (Murrain), XVII, b 66, a b 67; in gout (Pathology), XVIII, b 397
EDAM, town, VII, b 563; sea-woman of (Mermaids), XVI, a 45
Edchmiadzin. See ETCHMIADZIN
EDDA, Icelandic books, VII, b 563–5; (Æsir), I, a 189; (Baldur), III, a 238; (Celtic Literature), V, a 270; (Mythology), XVII, a b 162, a 164; (Norway), a 598; *Prose* (Snorro Sturluson), XXII, b 212; Snorri's (Iceland), XII, a 658, note, a 661
Eddana, town (Phœnicia), XVIII, a 818
Eddies and countercurrents (Hydromechanics), XII, a 481; (Whirlpool), XXIV, *a* 572
Ed-Dir 'eeyeh, siege of, 1816, (Egypt), VII, b 663
Ed-Dirgham, vizier (Egypt), VII, b 652
Eddius, biographer (Wilfrid), XXIV, b 597, a 598
Eddrochillus, bay and parish (Sutherland), XXII, *a* 764
Eddystone lighthouse (Geology), X, a 253; (Harbor and Docks), XI, *a* 412; (Plate VII), XIV, a b 620–21, a 623, b 636
EDELINCK, Girard, engraver, VII, a b 565
——, Nicolas, engraver, VII, b 565; (Leonardo), XIV, a 460
EDEN, garden of, VII, b 565–6; (Adam), I, a 125; (Mesopotamia), XVI, b 55; (Paradise), XVIII, b 240

Eden river (Carlisle), V, *b* 95; (Cumberland), VI, b 615, b 616; (Westmorland), XXIV, a 542
—— river (Fife), IX, *b* 131; (Roxburgh), XXI, b 39
—— river (Surrey), XXII, a 729
——, Ashley, diplomatist (Bhutan), III, a 547
——, Eleanor, Lady Hobart, VII, a 566
——, George. See AUCKLAND
EDEN, Emily, novelist, VII, a 566
——, Richard, author (Cabot), IV, b 552, b 553
——, Wm. See AUCKLAND
EDENTATA, order of mammals, VII, a 566; (Africa), I, 231, a 232; (Birds), III, b 644; (Pangolin), XVIII, b 214
Edentata, anatomy of (Mammalia), XV, b 356, a 357, b 366, b 368, b 369, b 370, a 371, b 374, b 386–92
Eder, Dr. J. M., inventor (Photography), XVIII, a 835, b 839, a 852, a 853
EDESSA, Macedonia, city, VII, a 566; (Macedonia), XV, b 138
—— or Orfa, Mesopotamia, city, VII, a b 566; (Crusades), VI, b 552, a 554; (Mesopotamia), XVI, b 52, b 53; (Numismatics), XVII, a 668; (Osrhoene), XVIII, b 60; (Semitic Languages), XXI, *a* 681; (Thomas), XXIII, b 328; fall of, 1144 (Syriac Literature), XXII, a 895
Edessenum Chronicon (Syriac Literature), XXII, a b 876
Edeyen, district (Sahara), XXI, a 158
Edfrith, bishop. See Eadfrith
EDFU, Edfoo or Atbo, village, VII, b 566–7; (Architecture) (Plate VII), II, a b 341, a 342, a 343; (Egypt), VII, b 678–9. See Apollinopolis Magna
Edgar or Eadgar, king of Wesser, the Peaceable (Dunstan), VII, a 472, note; (Edwy), *a* 600; (England), VIII, b 258; (Lothian), XV, *a* 12; (Ireland), XIII, a 259; (Northumberland), XVII, b 584; (Scotland), XXI, b 501; (Wolf), XXIV, b 662
——, king of Scotland, XXI, *a* 504
—— or Eadgar, the Atheling, prince (England), VIII, a *b* 262, *b* 263; (Harold II.), XI, b 434; (Scotland), XXI, a 503, a 504
Edgar or the English Monarch, tragedy (Rymer), XXI, a 127
Edgar Huntly (Brown, Chas. B.), IV, *b* 345
Edgar, John, philanthropist (Temperance), XXIII, b 174
Edgbaston, parish (Birmingham), III, b 678, a 679, a b 680
Edge, Captain, explorer (Polar Regions), XIX, b 329
Edgefield, county (South Carolina), XXII, *b* 301
Edgehill, battle of, 1642 (Dugdale), VII, a 446; (England), VIII, b 311; (Harvey), XI, b 448
Edge Hills (Westmorland), XXIV, b 399, a b 400
Edge-milling (Machine Tools), XV, b 157
Edgeware Road (London), XIV, b 838
Edgeworth, F. Y., publicist (Statistics), XXII, a 480
EDGEWORTH, Maria, novelist, VII, a 567–8; (Ferrier, Susan E.), IX, b 97, a 98; (Hamilton, E.), XI, b 370
EDGEWORTH, Richard Lovell, author, VII, b 568–9
Edgyth or Ealdgyth, queen (Harold II.), XI, *a* 435
Edgren, Adolf C., dramatist (Sweden), XXII, b 796
Edible nests. See Nests
Edica or Ædico, chief (Odoacer), XVII, a 747
Edict of Amboise, 1563 (France), IX, b 494
—— of Boulogne, 1573 (France), IX, b 495
—— of Grace, 1629 (Camisards), IV, a 657
—— of Nantes, 1598 (Book), IV, b 36; (Camisards), a b 657, a 658, a 659; (Fenelon), IX, b 64; (France), b 497, a 510; (Huguenots), XII, b 352, a 353; (Maintenon), XV, b 307; (Nimes), XVII, a 524; (Popedom), XIX, b 519, a 521; (Thou), XXIII, *b* 336; (Waldenses), XXIV, a 346
—— of Romorantin, 1560 (Francis II.), IX, a 609
—— of Restitution, 1629 (Austria), III, *b* 109; (Ferdinand II.), IX, b 68; (Germany), X, a b 449
—— of Union, 1588 (France), IX, b 496
Edicts, imperial (Roman Law), XX, a 724; of magistrates (Roman Law), b 715–16, a b 720; perpetual (Prætor), XIX, b 675; (Roman Law), XX, a b 723
Ediger, Kahn (Siberia), XXII, a 17
Edilinge, chief (Saxony), XXI, a 367
EDINBURGH, county, VII, b 569–71
  antiquarian features, b 571
  climate, a 570
  geology, b 569–70
  land uses, a b 570
  manufactures, a 571
  minerals, b 570–1
  physical features, b 569
  population, distribution of, a b 571
EDINBURGH, city (Maps), VII, b 571–79
  charities, a b 578
  educational institutions, b 574, a 576–8
  history, a b 572
  literary character of, a b 574
  miscellaneous, b 579
  monuments, a b 579
  public buildings, a 575–6
  religious features, a 579
  scientific and art institutions, b 575–7
  topography, a 573–4, a 575
—— (Abattoir), I, a b 44; (Abercromby), b 40, a 41; (Agriculture), b 332-3; (Cockburn, A.), VI, b 90; (Cromwell), b 530, a b 531; (Fergusson, R.), IX, b 77; (Kay), XIV, b 21; (Libraries), a 521-2, b 543; (Meteorology), XVI, a 139; (Newspapers), XVII, a b 433; (Savings Banks), XXI, a 345; (Scotland), a b 550, *a* 551, *b* 553, *b* 557, *a* b 558, *b* 560; (Scott), b 571
—— Bible Society, III, b 562
—— castle, VII, a b 572, a 575; (Scotland), XXI, b 503
—— clubs (Golf), X, a 682
Edinburgh Encyclopædia (Brewster), IV, b 246
—— *Gazette* (Newspapers), XVII, a 433
—— and Glasgow Railway, XX, b 233, a *b* 241, b 260
—— mound tunnel at (Railway) (Ill.), XX, b 241–2
—— national gallery (Schools of Painting), XXI, a 466
—— Royal Infirmary, VII, b 576; (Hospital), XII, a 316, a b 318, a 319; (Bill), III, *b* 466
—— Royal Observatory, VII, b 571, a 572, a 577; XVII, b 730; (Meteorology), XVI, b 187
——, Somerset's destruction of (Scotland), XXI, a 522
——, University of (Forbes, J. D.), IX, b 343; XXIII, b 910–1
——, Alfred Ernest Albert, duke of, prince (Greece), XI, a 112
Edinburgh Pharmacopœia, XVIII, b 744
Edinburgh Review (Brougham), IV, b 337–8, a 343; (Byron), a 539; (English Literature), VIII, b 385, b 386; (Hallam), XI, a 351; (Horner), XII, b 175; (Jeffrey), XIII, *a b* 628; (Lancaster, J.), XIV, *a* 259; (Macaulay), XV, a b 127, *a* 128; (McCulloch), *b* 135, a 136; (Mill, James), XVI, a b 319; (Periodicals), XVIII, b 546–7; (Smith), XXII, b 179, *a* 187, *a* 188; (Wedderburn), XXIV, a 502; (Wilson), b 623
Edingdon of Canterbury, archbishop (William of Tyre), XXIV, *a* 617
Edingtonite (Mineralogy) (Ill.), XVI, a 367, b 441
Edirneh, province. See ADRIANOPLE
Edison, Thomas Alva, electrician (Lighting, Electric), XIV, b 638 note, a 639 notes; (Telephone), XXIII, a b 139, b 140, b 142, a b 146, a *b* 931 note; (Telegraph), b 133, *a* 930; (Traction), b 526
Edisto, river and inlets (South Carolina), XXII, a 301
Edith or Eadgyth, queen of Edward the Confessor (Godwine), X, a b 641
Editiones principes, classical (Bibliography), III, a 568
Edlund, E., physicist (Electricity), VIII, a 12, a 45, b 54, a b 56, a 75, a 83, b 92
Edmer, historian. See EADMER
Edmonds, T. R. (Annuities), II, b 76
Edmondson, William, preacher (Quakers), XX, a 158
EDMUND or Eadmund, St., king, East Anglia, VII, b 580; (Bury St. Edmunds), IV, a 511; (England), VIII, b 256
EDMUND or Eadmund I., Atheling, West Saxons, VII, b 580; (England), VIII, *a* 257; (Scotland), XXI, b 501
EDMUND or Eadmund II., Ironside, West Saxons, VII, b 580–1; (Canute), V, a b 36
EDMUND Rich, St., archbishop, VII, b 579–80; (Carpet), V, a 113
—— the Elder, king of Sweden, XXII, b 783
—— Crouchback, earl (Lancaster), XIV, a 256, b 257
—— of York, son of Edward III., XXIV, a 790
Edmunds Act (Utah), XXIV, b 25, b 26
Edmundson, Thomas, of Westmorland (Ireland), XIII, a b 274
Edom. See ESAU
——, country (Idumea), XII, b 737–8; (Isaiah), XIII, b 390, *b* 391; (Israel), a b 415; (Philistines), XVIII, b 769
Edomites, race (David), VI, b 739; (Joel), XIII, a 716, a 717; (Moab), XVI, a 557, a 558, a 559; (Obadiah), XVII, *a b* 722; (Palestine), XVIII, a 179, b 180; (Uz), XXIV, b 27
Edred, king. See Eadred
Edreneh, town. See ADRIANOPLE
Edric. See Eadric
—— of Mercia, earl (Canute), V, a b 36
——, earl (Edmund II.), VII, *a* 581; (England), VIII, a 259
Edrioasterida, order (Echinodermata), VII, a 544, b 553
Edriophthalmia, division (Crustacea), VI, a 560 note, a b 561, a b 563, a 565, a 567, b 571, b 582–5; (Distribution), VII, b 242
Edris, prince (Fez), IX, a 112; Muley's town (Morocco), XVI, b 860
EDRISI or Aldrisi, geographer, VII, a b 581; (Geography), X, a 159; (Map), XV, b 525
Edu, counts of (Artois), II, b 585
EDUCATION, VII, a 582–91
  Basedow and Salzmann, b 586–7
  bibliography, b 588–9
  classical lands, a b 582
  Comenius, b 584
  Francke, a 586
  Jacotot, a 588
  Jesuits, b 584–5
  laws, English, b 589–90
    Ireland, b 590–91
    Scotland, a b 590
  mediæval, b 582–3
  Milton and Locke, b 585–6
  Montaigne, a 585
  origin, a 582
  Pestalozzi, a b 587
  Port Royal, a 586

EDUCATION, *continued*
  Reformation, b 583
  Renaissance, b 583
  Richter and Goethe, b 587–8
  Rousseau, a b 586
  Spencer and Bain, a b 588
  Sturm and Ratke, a 584
  See Colleges, SCHOOLS, UNIVERSITIES

—— (Agriculture), I, a b 362, a 363 (Ascham), II, b 592, a 593; (Baptists), III, b 306; (Basedow), a 352; (Combe), VI, a b 161; (Comenius), a 163; (Communism), a b 190; (Condillac), b 224 note; (Crime), b 517; (Deaf and Dumb), VII, a 7–13; (Froebel), IX, a 696–8; (Government), XI, b 17; (Jesuits), XIII, a 658, b 659, a b 662, a 665, b 666; (Kindergarten), XIV, b 81–2; (Mauritius), XV, b 648; (Mill, J. S.), XVI, b 320, a 321; (Montaigne), a 794; (Poor-Laws), XIX, a b 491; (Priestley), b 750; (Renaissance), XX, b 398–9; , mediæval (Scholasticism), XXI. a 435, a b 437; physical (Gymnastics), XI, a 311–2; Salzmann system (Ritter), XX, a b 585; Smith on State (Political Economy), XIX, a 382; Trotzendorff's system, XXIII, a 626
—— in Africa, not Egypt (Cape Colony), V, a 44; (Madagascar), XV, b 175; (Madeira), b 178
——, Aristotle's value in, II, a 643
——, Australasia (Melbourne), XV, a b 846; (New South Wales), XVII, a 422; (New Zealand), b 483–4; (Queensland), XX, b 181; (South Australia), XXII, a 300; (Sydney), a 848; (Tasmania), XXIII, a 81; (Victoria), XXIV, b 235; (Universities), XXIII, b 912
—— in Austria-Hungary, III, a b 103; XII, a b 380, b 388; (Universities), XXIII, a 895–6, a b 905, b 907–8
—— in Belgium, III, b 447–9; (Brussels), IV, b 364; (Universities), XXIII, b 896–7, b 905–6
—— in Canada, IV, b 689–90; (Manitoba), XV, b 498; (New Brunswick), XVII, a b 684; (Nova Scotia), b 617–8; (Ontario), b 797–8; (Universities), XXIII, b 912–3
——, charitable (England), VIII, b 231
—— in Charlemagne's time (Monachism), XVI, a 734; (Universities), XXIII, b 887
—— *of Children* (Plutarch), XIX, a 734
—— in China, V, a 583; (Mencius), XVI, a 9
—— in Corea, VI, a 349
——, Cuban, VI, b 602
——, Dutch (Holland), XII, b 69–70; (Indian Archipelago), XII, b 858–9; (Universities), XXIII, b 905–6
——, early oriental (Syriac Literature), XXII, a 866
—— in Egypt (Cairo), IV, a b 573; (Egypt), VII, a 628, a 629, b 680, a 681; ancient, VII, b 624
—— in England (Alfred the Great), I, b 447; (England), VIII, a 225–6; (Gloucester), X, b 615, b 616; (Harrow-on-the-Hill), XI, a 443; (Hill, Sir R.), a 731; (Lancaster, J.), XIV, a 258–9; (Liverpool), a 721; (London), a 844–5; (Manchester), XV, b 469–70; (Melville), a b 852; (Owen, R.), XVIII, b 90; (Peterborough), b 713; (Universities), XXIII, a 893–4, b 903, a b 904–5, a 908–10; gentleman's (Pitt), XIX, a b 144; Sheridan's theory XXI, *a* b 833, a 834
—— in Europe (Table), VIII, a 623–5
—— in France (Cousin), VI, b 464–5; (Fénelon), IX, *b* 64, a 65; (Foucroy), b 431; (France), b 452–4, b 541; (Guizot), XI, a 239; (Jacotot), XIII, a 549; (Louvain), XV, a 28; (Lyons), a 113; (Marseilles), *b* 579; (Paris), XVIII, a 284, b 285–6; (Talleyrand), XXIII, b 35; (Universities), XXIII, a 894–5, a b 897, a b 902, b 906–7
—— in Germany (Baden), III, b 194; (Berlin), b 514–5; (Frederick II., Emperor), IX, a 644; (Germany), X, a 423–4; (Gräfe, H.), XI, a 29; (Luther), XV, b 79; (Mecklenburg), a 786; (Prussia), XX, b 21–2; (Saxony), XXI, *b* 369, b 374, a 376; (Universities), XXIII, a 895–6, b 897–8, a b 899, b 900–5; (Vienna), XXIV, b 238; (Würtemberg), a 737
——, Greek, XI, a b 78, b 131–2, a 136; (Gymnasium), b 310–1; (Herodotus), a 676 (Pericles), XVIII, b 540; (Socrates), XXII, b 248–50; (Sophists), a 277, *a b* 278, a *b* 279, a *b* 280, b 281, a b 282–3
—— in India (Agra), I, b 255; (Bengal), III, b 488; (Bombay), IV, b 22; (Brahmanism), a 185; (Burmah), b 496, a 501; (Calcutta), a 584; (Cotton, Bishop), VI, a 452; (India), XII, a 813–5; (Madras), XV, a 188; (Malabar), b 315; (Parsis), XVIII, a 333; (Punjab), XX, a b 115; (Surgery), XXII, a 708; (Universities), XXIII, a b 912
—— in Ireland (Cork), VI, b 358–9; (Dublin), VII, b 430–1; (Ireland), XIII, 246, a 247–8, a b 256, a 277; (Universities), XXIII, b 911–2; legislation on (Peel), XVIII, b 464, a 467; mediæval (Ireland), XIII, b 261, b 268–9
—— in Italy (Genoa), X, a b 140; (Italy), XIII, b 469–72; (Lucca), XV, a 41; (Malta), a 344; (Naples), XVII, b 196–7; (Universities), XXIII, a 888–9, b 891–3, b 899–900, b 907
——, Japan (Tokio), XXIII, b 461–2
——, Jews, XIII, a b 692; (Jesus Christ), a b 672; (Synagogue), XXII, b 850
——, literature on (Campe), IV, b 671; (Hamilton, E.), XI, *b* 370; (Hartlib), a 446
—— in Mexico, XVI, a 227, b 903; Aztec, a 221
——, military, British Army, II, a 512–3; British Indian Army, II, a 519; Prussian, II, a 524; Russian, II, a 534; in United States (West Point), XXIV, b 891–2
——, Mohammedan, not in Egypt (Abdallatif), I, b 34; (Arabia), II, b 220; (Bokhara), IV, a 4, a 5; (Constantinople), VI, a 274; (Druses), VII, b 419; (Ispahan), XIII, a 405; (Sunnites), XXII, a 695–6; (Shi‘ites), a 699; (Turkey), XXIII, a 697
—— in Portugal, XIX, b 554; (Universities), XXIII, a 895, b 907
——, Roman (Aurelius), III, b 75–6; (Greece), XI, a 98; (Quintilian), XX, a b 794
—— in Russia (Kazan), XIV, b 22; (Moscow), XVI, a 886; (Russia), XXI, a b 78; (Vyatka), XXIV, a 323; (Universities), XXIII, b 901, a b 905, a 908
——, Scandinavian (Denmark), VII, a 73; (Iceland), XII, b 654; (Norway), XVII, b 596; (Sweden), XXII, a 781; (Universities), XXIII, b 898, a 908
——, Scotch (Free Church of Scotland), IX, a 655; (Glasgow), X, b 573–5; (Presbyterianism), XIX, a 700; (Scotland), XXI, b 559–60; (Universities), XXIII, b 898–9, b 902, b 910–1; Mediæval, XXI, *a* 514, b 519; rise of, b 564
—— in Siam, XXI, a 893
—— in South America (Bolivia), IV, b 15; (Brazil), a 214; (Chili), V, b 539–40; (Colombia), VI, a 140; (Ecuador), VII, b 562; (Peru), XVIII, b 688
—— in Spain (Madeira), XV, b 178; (Madrid), b 192; (Spain), XXII, b 318; (Universities), XXIII, a 895, b 907
——, Swiss (Fellenberg), IX, a b 59; (Geneva), X, a 132–3; (Switzerland), XXII, b 818–9; (Universities), XXIII, a 898, a b 905, a 906
EDUCATION, TECHNICAL, XXIII, a 113–7
——, *Thoughts on* (Locke), XIV, b 760, a 762, b 763–4
—— in United States (Boston), IV, a 67; (Chicago), V, a b 532; (Cincinnati), b 685; (Georgia), X, a b 393; (Illinois), XII, b 744; (Indiana), a b 853; (Maine), XV, b 302; (Mann), a 500; (Maryland), b 610–1; (Massachusetts), b 620–1; (Minnesota), XVI, a b 499; (Missouri), a 550; (Nebraska), XVII, a b 318; (New Hampshire), a b 402; (New Jersey), b 407–8; (New York), a b 468, b 473–4, a b 897; (Ohio), a b 758; (Oregon), b 848; (Pennsylvania), XVIII, b 513; (Philadelphia), b 753–4; (Quakers), XX, b 893; (Rhode Island), a 539; (St. Louis), XXI, a 193; (Schools), b 907–12; (South Carolina), XXII, b 302; (Tennessee), XXIII, a b 194; (Texas), a 223; (Virginia), XXIV, a 279, notes; (Washington Territory), a 408; (Wisconsin), b 651–2; early colonial (United States), XXIII, a 780, See SCHOOLS; National Bureau of (Schools), XXI, b 907–8; penalties of (Slavery), XXII, a 908, b 909; statistics (United States), XXIII, a b 884; (Universities), b 913–4, a 953–8, a b 962
—— of Women, XXIV, b 674, b 676, a 910–1, 912; (Universities), XXIII, b 958–9. See WOMEN, Education
Edulf. See Eadulp
EDWARD or Eadward I., Anglo-Saxon king, VII, a b 591; (England), VIII, a 257; (Scotland), XXI, a 501
EDWARD or Eadward II. the Martyr, Anglo-Saxon king, VII, b 591
EDWARD or Eadward III. the Confessor, VII, b 591–2; (Canonization), V, a 22; (England), VIII, a 261–2; (Godwin), X, a b 641; (Harold II.), XI, *b* 434, a b 435; (Hunting), XII, b 409; (Seals) (Ill.), XXI, a b 614; *Laws of* (Salic Law), a 226; shrine of (Oak), XVII, b 710
EDWARD I., England, VII, a b 592; (Admiral), I, a b 142; (Alphonso X.), a 542; (Berwick), III, b 528, a 529; (Carlisle), V, a 96; (Chester), b 525, b 526; (Convocation), VI, a 289, b 290; (Costume), b 413; (Crusades), b 557; (England), VIII, a 280–1, b 283, a 284–5; (Finance), IX, a 155; (Henry III., England), XI, a 588; (Holland), XII, b 74; (Hovedon), a 333; (Hull), b 355; (Inns of Court), XIII, b 93; (Ireland), a 266; (Knighthood), XIV, a b 117; (Linlithgow), b 677; (London), a 828, b 836, a 839, *b* 847, *b* 855; (Money), XVI, a 753; (Oswestry), XVIII, a 68; (Parliament), a b 310; (Peerage), a b 473; (Perth), a 680, b 681; (Real Estate), XX, b 318; (Robert), *a b* 608, a *b* 609; (Scotland), XXI, a *b* 508, *a* b 509, *a b* 510; (Templars), XXIII, a 179
EDWARD II., England, VII, b 592–3; (Carnarvon), V, b 105; (Company), VI, b

EDWARD II., *continued* 198, b 199; (Costume), *b* 413; (England), VIII, b 281-2; (Famines), IX, b 24; (Mint), XVI, b 503; (Parliament), XVIII, a 311; (Robert), XX, b 609, a b 610-1; (Scotland), XXI, b 510-1; roll of (Heraldry), XI, a 610; shrine of (Gloucester), X, b 616

Edward the Second, tragedy (Marlowe), XV, a 564

EDWARD III., England, VII, a 593-4; (Antwerp), II, a 127; (Archery), a b 325; (Artillery), *a* 573; (Banking), III, a 273; (Charles IV.), V, a 358; (Chaucer), *b* 389; (Company), VI, *b* 198, a b 199; (Cornwall), *a* 378; (Costume), b 413, a b 414; (England), VIII, b 285-7, a 289-90; (Finance), IX, a 154, b 155; (France), a b 481, *a* b 482; (Gunnery), XI, b 272; (Gunpowder), *b* 283; (Holland), XII, *b* 75; (Horse), a b 185; (Knighthood), XIV, *a* b 123, *a* 124; (London), *a* 828, a 837; (Money), XVI, b 753; (Navy), XVII, b 287-8; (Normandy), b 559; (Numismatics), a 674; (Parliament), XVIII, a 311; (Peerage), a b 475; (Perth), b 681; (Royal Household), XXI, *a* 42, note; (Scotland), *a b* 511, *a* 512; (Shipping), a 865; (Universities), XXIII, b 894; (Wallace), XXIV, *b* 347, a 348; (William of Wykeham), a 617; (Windsor), b 632; (Wool), *a* 688; (York), a 790; muster roll of (Army) II, b 498

EDWARD IV., England, VII, a b 594; (England), VIII, a b 294; (Hebrides), XI, b 542; (Helmet), a 569; (Hereford), b 653; (Percy), XVIII, a 534; (Scotland), XXI, b 516, *b* 517; (Shakespeare), b 776; (Shore), b 874; (Warwick), XXIV, a *b* 402, a 403; (Windsor), *b* 633; (Witchcraft), b 654; (Wool), a 688; (York), a *b* 790; tomb of (Metal-Work), XVI, b 82

EDWARD V., England, VII, b 594; (England), VIII, b 294-5; (York), XXIV, b 790

Edward, Murder of Children of King (Hildebrandt, T.), XI, b 728

EDWARD VI., England, VII, b 594-5; (Archery), II, a 326; (Bucer), IV, a 370; (Cardan), V, b 81; (Corn Laws), VI, *b* 365; (Cranmer), a 488; (England), VIII, b 303-4; (England, Church of), a 337; (Grey, Lady J.), XI, b 172; (Lhasa), XIV, b 500; (London), a 837; (Shakespeare), XXI, b 777, b 787; reign of (Poor Laws), XIX, b 477, a b 478, a 479

——, king of Portugal, XIX, b 559-60, b 571

—— the Elder, king of Northumberland, XVII, *b* 584

EDWARD the Black Prince, of Wales, VII, b 595; (Costume) (Ill.), VI, a 415; (Crecy), b 493; (Duke), VII, a b 448; (France), IX, a b 482, a 483; (Helmet), XI, a 569; (Knighthood), XIV, b 123; (Lancaster), *b* 256; (Pedro I.), XVIII, b 461; (Spain), XXII, *a* 335

——, count of Savoy, XXI, a 356

Edwardi Confessoris Leges (Salic Law), XXI, a 226

EDWARDS, Bryan, historian, VII, b 596-7

——, Edward, bibliographer (Libraries), XIV, a 536 note, a b 537, a 538, b 539, a 542. See List of Contributors

——, George, inventor (Photography), XVIII, b 853

EDWARDS, George, ornithologist, VII, a b 597; (Ornithology), XVIII, a b 9, note; (Secretary-Bird), XXI, a 648

——, Henri Milne, naturalist. See Milne-Edwards

EDWARDS, Sir Herbert Benjamin, general, VII, a b 596; (India), XII, b 847, b 849; (Punjab), XX, a b 118

EDWARDS, Jonathan, metaphysician; VII, b 597-9; (American Literature), I, a 632; (Hopkins, S.), XII, a *b* 162

EDWARDS, Richard, musician, VII, b 599

Edwards's heliotype process, Ernest (Photography), XVIII, a 846

Edwin. See Eadwine

EDWIN or Eadwine, king of Deira or Northumberland, VII, b 599-600; (England), VIII, b 251; (Lothian), XV, b 11; (Northumberland), XVII, *b* 582, *a* 583; (Scotland), XXI, *b* 497-8; (York), XXIV, b 787, b 789

Edwin Brothertoft, novel (Winthrop), XXIV, a 891

"Edwin Forrest" (Horse), XII, b 208

EDWY, Eadwig or Edwin, king, Wessex, VII, a 600; (Dunstan), a 472

Edzards, counts (Frisians), IX, b 692

Edzell, town (Forfar), IX, *b* 362, a 363

EECKHOUT, Gerbrand van den, painter, VII, a b 600

EECLOO, town, VII, b 600

EEL, fish, VII, b 600-2; (Angling), II, a 40; (Comacchio), VI, b 158; (Ichthyology), XII, *b* 672, b 675, b 693, b 698, a b 703, b 708, b 715, a 723, a 733; (Leeuwenhoek), XIV, b 412; (Muræna) (Ill.), XVII, b 39-40; electric (Ichthyology), XII, b 687, a 712, a 733

Eel, sand. See SAND EEL

Effen, Justus van, writer (Holland), XII, b 99

Efferent nerve fibres (Respiration), XX, b 494

Effervescing drinks (Tartaric Acid), XXIII, a 75

Efficiency (Mechanics), XV, b 774, b 782; of engines (Ship-Building), XXI, a 863; (Steam-Engihe), XXII, a 509-10; expansive engine (Steam-Engine), b 505-6; furnaces (Steam-Engine), a b 517; gas-engines (Steam-Engine), a b 553; of Money, XVI, b 747, a 748; of perfect engine (Steam-Engine), XXII, b 500, a b 501, b 504-5; tests of thermodynamic (Steam-Engine), a b 512; uniformity in compound engines of (Steam-Engine), b 515-6; whole mechanism (Steam-Engine), a 514

EFFIGIES, monumental, VII, a 602-3; (Costume), VI, a 411-8; (Duke), VII, b 448; (Earl), a 515; (Girdle), X, a b 555; (Sceptre), XXI, a 402 note; (Sculpture)(Ill.), b 584-5, notes, a *b* 586, a b 589, a b 591; (Venice), XXIV, b 166, a 169; (Winchester), b 628; (Wood-Carving), b 680; (Worcester), a 702; Guild Hall, London (Gog), X, a 657

Effluvia, morbific (Pathology), XVIII, b 403, b 405

Effusion of gases (Graham), XI, b 30

Efik, people (Calabar), IV, b 576; (Dictionary), VII, b 167

Eftekeen, el, chief (Egypt), VII, *b* 651

Efts or evets, amphibia (Triton), XXIII, a 614, note

Egasse, historian (Universities), XXIII, b 914

Egbaland, state(Abbeokuta), I, b 16

EGBERT or Ecgberht, king of Wessex, VII, a b 603; (England), VIII, *b* 255

—— of York, archbishop (Scotland), XXI, b 498; (Ember Days), VIII, a 147; (Witchcraft), XXIV, b 653

Egbo, secret society (Calabar), IV, b 576

EGEDE, Hans, missionary, VII, b 603; (Greenland), XI, b 153, note; (Norway), XVII, a 604; (Sea Serpent), XXI, b 639, note

EGEDE, Paul, missionary, VII, b 603

Egedesminde, station (Greenland), XI, b 152

Eger river (Elbe), VII, *a* 717; (Fichtelgebirge), IX, b 121

EGER, town, VII, b 603

——, town of Hungary. See ERLAU

Egerbrunnen. See FRANZENSBAD

Egerdir or Egerdin Göl, lake (Asia Minor), II, b 619; (Pisidia), XIX, a b 139

Egeria, goddess (Numa Pompilius), XVII, b 628; fountain (Vesta), XXIV, a 210, note

——, schooner (Yachting), XXIV, b 759, b 760

Egeron strait (Timor Laut), XXIII, *a* 425

Egerton, family (Milton), XVI, a b 338

——, Francis, duke. See BRIDGEWATER

——, Francis, earl. See ELLESMERE

——, Sir Philip, naturalist (Ichthyology), XII, a 706

——, Wilbraham, author (Sword), XXII, b 840, b 842

Egfrid or Egfrith, king of Northumbria (Berwick upon Tweed), III, b 528; (England), VIII, a 255; (Northumberland), XVII, *b* 583; (Scotland), XXI, a 498

EGG, VII, b 603-4; cell (Zoology), XXIV, a 856, a b 857; development (Trematoda), XXIII, b 571, b 574; keeping (Preserved Food), XIX, a 728; mammalian (Zoology), XXIV, b 855; yolk of hen's (Reproduction), XX, a 426. See Eggs and Ovum

EGG, Augustus Leopold, painter, VII, b 604-5

Egga, city (Soudan), XXII, b 292

Eggars, moths (Butterflies) (Plate XXX), IV, a 531

Egg-birds (Tern), XXIII, b 206

Egg-eaters (Snakes), XXII, b 203, a b 205

Eggeling, Julius, orientalist (Sanskrit), XXI, a 292 note, a b 307 notes. See List of Contributors

Eggenberg, Jakob von, preacher (Gratz), XI, b 57

——, princes of (Gradisca), XI, a 25

Eggertz's analysis (Iron), XIII, a 288, *b* 295, *a* 296

Eggestein, Heinrich, printer (Typography), XXIII, *a* 729, a 739

Egg-float (Mollusca) (Ill.), XVI, a 675

Eggland (Holland), XII, b 70

Egg-oil (Oils), XVII, b 768

—— -plant (Horticulture), XII, a b 294

—— -section sewers (Sewerage) (Ill.), XXI, b 747-8

—— -shell cups (Japan), XIII, b 600

Eggs (Amphibia), I, a b 674; (Bees), III, a b 426; (Birds), b 669-72; (Butterflies and Moths), IV, a 528; (Coleoptera), VI, a 116; (Crocodile), b 524; (Crustacea) (Ill.), a 568-78; (Cuttle-Fish), b 652; (Cuckoo), b 606-7; (Dietetics), VII, b 175; (Easter), b 532; (House-Fly), XII, a 331; (Hydrozoa), a 583; (Hymenoptera), a 608, a 610; (Ichthyology), b 698; (Mollusca) (Ill.), XVI, a b 660, a b 677, a 687, a b 708, a 709, a 720; (Myriapoda), XVII, b 127; (Ornithology), XVIII, a 36; (Osprey), a 60; (Ostrich), b 66; (Platypus), XIX, b 225; (Tape-Worms), XXIII, a 57; (Tinamou), a 430, note; (Toad), b 450

—— of Anodon (Mollusca), XVI, b 719; Nautilus (Mollusca), a 708; Octopus (Mollusca), b 709, a 710; Siphonopoda (Mollusca), b 693. See Egg, Ova

- Egill, poet (Iceland), XII, b 657, b 659
- Egillson, Sweinbjörn, philologist (Iceland), XII, b 664; (Scandinavian Languages), XXI, b 384
- Egina or Engia, island. See ÆGINA
- EGINHARD, biographer, VII, a 605–6; (Romance), XX, a 666
- *Egla*, saga (Iceland), XII, *b* 659
- EGLANTINE, sweetbrier, VII, a 606
- —— guild (Holland), XII, b 94, *b* 96, *a b* 97
- EGLINTON, Archibald William Montgomerie, 13th earl of, VII, a 606
- ——, earls of (Ardrossan), II, b 423
- EGLINTON CASTLE, VII, a 606
- Église consistoriale (Presbyterianism), XIX, a b 715
- Egloffstein, Baron F. W. von (Mexico), XVI, a b 224 notes, a 226 note
- Egmond, village (Holland), XII, b 62, a b 63
- ——, the Abbey, village (Descartes), VII, a b 102
- ——, counts of (Guelderland), XI, *b* 216
- ——, Charles, count of (Guelderland), XI, b 217
- Egmont, mount (New Plymouth), XVII, b 415; (New Zealand), a 479
- EGMONT or Egmond, Lamoral, count of, Prince of Gavre, VII, a b 606; (Holland), XII, *b* 77, *a* 78; (William the Silent), XXIV, *b* 614
- *Egmont* (Drama), VII, b 382; (Germany), X, b 481; (Goethe), a 648, b 649, b 650
- Egnatian way (Macedonia), XV, b 138; (Monastir), XVI, b 745
- Ego in psychology (Herbart), XI, a 643, a 644; (Kant), XIII, b 860–1, b 862, b 863; (Psychology), XX, a 44–5, b 46, b 47, a b 89; (Schleiermacher), XXI, b 429, b 430; pessimistic (Schopenhauer), a 471
- Egoistic feelings (Psychology), XX, a b 75
- Egorievsk, town (Ryazañ), XXI, b 124
- Egret, bird (Heron), XI, b 679, a 680; (Lapwing), XIV, a 309, note
- Egripo or Euripus, strait (Greece), XI, b 74, a 80
- EGYPT (Plate VI), VII, a 607–83
  - agriculture, b 613–4
  - animals, b 616–8
  - appearance of, a b 609
  - birds, b 617–8
  - canals, a b 615
  - climate, b 609–10
  - condition of, a b 613
  - diseases, a b 610
  - divisions, nomes, provinces, b 607–9
  - education, b 680–1
  - finances, b 681–2
  - geology, b 610–1
  - HISTORY, b 631–65
    - 'Abbáside period, a 650–1

EGYPT, *continued*
  - HISTORY
    - Alexander the Great, invasion of, b 645
    - Ali Bey, sheykh, b 658–9
    - Amasis, or 27th dynasty, b 644–5
    - Amenophis IV. and family, a 640
    - Arabia, Mehemet Ali's invasion of, a b 663
    - art of 18th dynasty, b 638–9
    - Assyrian wars, b 643–4
    - Bahree Memlooks, a 655–6
    - Benee-Tooloon dynasty, a b 650
    - Bey and Memlook war, b 661–3
    - Beybar dynasty, b 654–5
    - British expedition under Fraser, b 662
    - calendar reckoning, b 631–2
    - Christian Church under Rome, b 648–9
    - chronological system, b 632–3
    - Circassian Memlooks, b 656–8
    - Cleopatra I. to VI., b 646–7
    - Crusades, period of the, b 653–5
    - Ethiopian dynasties, b 643, a 644
    - Exodus, Hebrew, b 641–2
    - fall of ancient Pharaohs, a b 645
    - Fátimee caliphs, a 651–2
    - French occupation, a b 659
    - Ghuzz, overthrow of the, b 659–60
    - Ikhsheedeeyah dynasty, b 650
    - Ismail, khedive, a b 665
    - Khursheed Pasha, usurpation of, a b 661
    - Mehemet Ali Pasha, b 659–65
    - Memlook dynasties, a 655–8
    - Memphite or 3d to 5th dynasties, b 634–6
    - Mendesian or 29th and 30th dynasties, a 645
    - Mohammedan conquest, a b 649
    - Muslim reigns reviewed, a 658
    - Mustansir's reign, b 651–2
    - Pepi or 6th dynasty, a b 636
    - Persian invasion, Cambyses, b 644
    - Psametik or 26th dynasty, a b 644
    - prehistoric age, b 633
    - Ptolemies, era of, b 645–8
    - pyramid age, a b 635

EGYPT, *continued*
  - HISTORY
    - Ramses II., king, b 640–1
    - Ramesides or 19th and 20th dynasties, a 640–3
    - Roman provincial age, b 647–9
    - Saïte or 23d to 27th dynasties, b 643–5
    - Saladin, time of, a 653–4
    - Shepherd or Hyksos kings, 12th to 17th dynasties, b 637–8
    - Shishak or 22d dynasty, a 643
    - Tanite or 21st and 22d dynasties, *a* 643
    - Theban supremacy, 18th dynasty, a 638–40
    - Theban or 12th and 13th dynasties, b 636–7
    - Thinite or first two dynasties, a b 634
    - Turkish conquest, b 657–8, a 659
    - Turkish war of Mehemet Ali, a b 664
  - INDEX, 683
  - industrial features, a b 681, b 682
  - INHABITANTS, ANCIENT, a 618–26
    - appearance, personal, a b 618
    - army, a b 624
    - arts of, a b 626
    - cycles of the gods, b 619–20
    - dress of, b 618–9
    - language and literature, a b 625
    - later divinities, a 622–3
    - laws and government, a b 624
    - manners and customs, b 624–5
    - moral duties of, b 623–4
    - Osiris group of gods, a 621–2
    - religion, a 619–24
    - rites and ceremonies, a b 623, b 626
    - science, b 625–6
    - solar group of gods, b 620–1
    - theological doctrines of, a 619–21
  - INHABITANTS, MODERN, b 626–31
    - administration, b 627–8
    - appearance, personal, a 626
    - arts, b 629–30
    - dress, b 627
    - education, a b 628
    - festivals, a b 630
    - funeral rites, a 631
    - learning, a b 629
    - luxuries and amusements, a 630
    - number of, b 626–7
    - religions, b 627, a 631
    - social qualities, a 629
    - superstitions, b 629
    - women, b 628–9

EGYPT, *continued*
  - inundations, a b 612
  - lakes, b 614–5
  - names and limits, a b 607
  - Nile river, b 611–3, a 623
  - PHYSICAL GEOGRAPHY, b 607–12, b 614–5
  - political organization, modern, a b 680
  - STATISTICS, a 680–3
  - TOPOGRAPHY, MONUMENTS, a 666–80
    - Adfoo or Edfu, b 678–9
    - Alexandria, a b 666
    - Amenophium, a 676
    - Benee Hasan, a 672
    - Cairo, b 667–8
    - Delta, a 666–7
    - Dendarah, a 673
    - Deserts, a 680
    - Feiyoom, a b 671
    - Geezh, b 668
    - grottoes of Thebes, b 677
    - Karnak, a 674–5
    - Kurneh, b 675
    - Medeenet Haboo, b 676–7
    - Memphis, b 668, b 670
    - Nile voyage from Cairo to Abydos, a 671–3
    - Philæ, b 679
    - Pyramids, a 669–71
    - Ramesium, b 675–6
    - Thebes, b 673–8
    - tombs of the kings, a 678
    - Upper Nile voyage, b 678–80
  - vegetable products, b 615–6
  - weights and measures, modern, a b 682

- —— (Abbassides), I, a 16; (Abyssinia), b 61; (Abraham), b 54; (Abercromby, Sir R.), a 42; (Africa), b 219, a 220, a 231, b 232, *a* b 233, b 234, b 238, a 239–40; (Agriculture), b 259–60; (Ammoniac), b 650; (Arabia), II, a 225, *b* 227, b 228–9; (Alchemy), I, b 408, a 409; (Army), II, a 490; (Babylonia), III, b 182; (Birds), a 654, a 658; (Cambyses), IV, a b 648; (Caste), V, b 167–8; (Catacombs) (Ill.), a 188; (Cavalry), b 227; (Circumcision), a *b* 690, a 691; (Commerce), VI, a 177; (Copernicus), b 307; (Copts), b 314–5; (Costume) (Ill.), b 404–5; (Cotton), a b 30; (Crusades), a b 554, b 556; (Cyprus), a 661; (Darfur), *b* 725; (Deluge), VII, b 49–50; (Dervish), *b* 99; (Education), a 582
- —— (Esarhaddon), VIII, b 471, a 472; (Ethiopia), a 538; (Finance), IX, a 150; (Fire), a 201; (Flag) (Ill.), a 241; (Flagellants), a 245; (Flax), b 256; (Forests), a 359; (France), a 538–9; (Frankincense), a 625; (Fuel), b 710; (Geoffroy, Saint-Hilaire), X, a 156; (Greek Church), XI, a b 138, a 139; (Herodotus) b 676, a 677; (Hittites), XII,

Egypt, *continued* b 28; (Hunting), b 408; (Incense), a 757–8; (Insanity), XIII, b 116; (Io), a 208; (Iron), b 296; (Irrigation), b 380; (Isaiah), a 389; (Israel), a 410, b 421, a b 422, a b 423, a b 424, a 426–7, a 430; (Jacob), a 546; (Joel), a b 716, a 717; (Joseph), b 759; (Jute), b 808–9; (Kleber), XIV, a b 110; (Leprosy), a b 469; (Libraries), a b 509, a b 510, a 552; (Macedonian Empire), XV, a b 145; (Magic), b 201–2, *b* 203, a 204, a 205, b 207; (Makrisi), b 314; (Mandeville), a 482
—— (Mohammedanism), XVI, a 589, a 590, a 592, b 608, a b 610; (Mummy), XVII, b 26; (Napoleon I.), a 207–8, a 212; (National Debt), *a* b 254; (Numismatics), a 668–9; (Opium), b 814; (Pericles), XVIII, a 542; (Persia), b 579, a b 583, b 585, a 586, a 590, a 592, a 593; (Phœnicia), a 818, b 821; (Railway), XX, b 263; (Rome), b 770; (Sardinia), XXI, *b* 324; (Sunnites), XXII, *b* 697; (Syria), b 861; (Turkey), XXIII, a 684, b 695
Egypt, Account of (Abdallatif), I, b 34
——, district (Illinois), XII, a b 742
Egyptian Altars, I, a 562
—— apiculture (Bee), III, b 430–1
——Architecture (Plate VII) (Ill.), II, a b 335, b 336–43
—— Arms and Armor, II, a 486
—— Army, II, a 490, a 541
—— Art, VII, a b 626, b 629–30; (Archæology), II, a 296, b 303; (Carpets), V, *b* 112; (Carving), b 146, b 147; (Drawing), VII, a 386; (Embroidery), VIII, b 148; (Enamel), b 167; (Fans), IX, b 25; (Fine Arts), a 185; Fresco, a 676; (Ornithology), XVIII, b 6, note; (Furniture), IX, a 745; (Gems), X, a b 122, a *b* 123; (Glass), b 576, a 580; (Jewellery) (Plate XI), XIII, b 686; (Metal-Work), XVI, a 79; (Mosaics), a 877; (Mural Decoration) (Ill.), XVII, a b 40, b 45–6; (Plate) (Ill.), XIX, a b 189; (Pottery) (Ill.), a 620–1; (Rings), XX, a 575; (Textiles), XXIII, a 225, note; (Wax Figures), XXIV, a 486; (Wood-Carving) (Ill.), a b 679
—— Astronomy, II, a 651, b 679
—— Chronology, V, a b 617, b 620, b 621–2; VII, b 631–3; (Anthropology), II, b 103; (Calendar), IV, *b* 589, a 590
—— Dogs, VII, a b 282, b 284, b 287
—— Drama, VII, b 348–9
—— dyeing (Calico-Printing), IV, b 606
—— Filter, IX, b 146
—— Funeral Rites, IX, a b 725; VII, a 623–4, a 631; (Embalming), VIII, a b 146; (Mummy), XVII, a 26–7; (Phrenology), XVIII, a 857
—— Geometry (Pythagoras), XX, a b 147
—— hajj (Caravan), V, *a* b 75
—— Harp (Ill.), XI, a 437
—— Institute (Monge), XVI, a 766; Jasper, XIII, a 607; judiciary (Sunnites), XXII, b 696 note, b 697
—— language (Bible), III, b 559; (Dictionary), VII, a 167; (Philology), XVIII, b 788, b 791, a 792; (Semitic Languages), XXI, *b* 674, a 675; ancient, VII, a b 625; (Hieroglyphics), XI, a 709; (Hittites), XII, *a b* 28, *a b* 29
—— Lock (Ill.), XIV, a b 750; Maps, XV, a 523; Millet, XVI, b 333; monks (Abbey), I, a b 17; (Abbot), a b 28, a 29
Egyptian Mythology, Analysis of (Prichard), XIX, b 742
Egyptian Numerals, XVII, a b 640; papyri (Illumination), XII, a 746; pea (Gram), XI, b 33; pestilence, 1834, 1845 (Plague), XIX, a 171, b 177
—— religion, VII, a 619–24, b 627, a 631; XX, b 374–5, a b 382; (Ammon), I, a b 649; (Coleoptera), VI, b 119; (Demonology), VII, b 55; (Garlic), X, b 73; (Incense), XII, a b 757; (Metempsychosis), XVI, b 111–2; (Priest), XIX, a 745, a 746; (Sacrifice), XXI, b 143, *a* 145; (Serapis), XXI, *b* 706–7; (Theism), XXIII, b 254, b 255
—— sacred books (Hermes Trismegistus), XI, a 671
—— sepulchres (Mummy), XVII, b 26, a 28. See PYRAMIDS
—— Ships, XXI, *b* 841–2; Surgery, XXII, a 708; wheel or Noria, pump (Hydromechanics), XII, a 451; Wheat, XXIV, a b 562
—— writing (Alphabet), I, a 528, b 529, b 532; (China), V, b 568–9; (Hieroglyphics) (Ill.), XI, a 709–23; Weights and Measures, VII, a b 682; XXIV, a 510, a 512, b 513, a 514, a b 516, a 518
Egyptians (Beard), III, b 399; (Brewing), IV, a 236; (Fasting), IX, b 40; (Festivals), *a* 100; (Gipsies), X, a b 546, *a* 547, a 550; (Israel), XIII, b 406–7; (Map), XV, a 523; (Music), XVII, *a* b 85, a 86; (Mythology), b 143, b 152, a 157–8; ancient (Egypt), VII, a 618–26; modern (Egypt), b 626–31
"Egyptians," mother-of-pearl (Pearl), XVIII, a 458
Egypt's Place in Universal History (Bunsen), IV, a 470
EHLERS, Martin, novelist, VII, a 683
Ehlite (Mineralogy), XVI, b 423
EHNINGEN, town, VII, a 683
Ehrenberg, Christian Gottfried, naturalist (Animal Kingdom), II, *a* 46; (Arthropoda), II, a b 566; (Foraminifera), IX, a 337, a b 340, note; (Geology), X, b 236; (Humboldt, A.), XII, b 358; (Polyzoa), XIX, a 443, b 456; (Protozoa), b 880, b 886, b 889; (Rotifera), XXI, a 8, b 12; (Schizomycetes), b 416, a 422, b 424
EHRENBREITSTEIN, town, VII, a b 683
Ehrensvärd, Karl August, critic (Sweden), XXII, a 795
EHRENSVARD, GYLLEMBOURG, authoress, XI, a b 310; (Heiberg), b 554, a 555. See GYLLEMBOURG
Ehrenwerd, August, count, field marshal (Helsingfors), XI, a 572
Ehrenwerth's furnace (Iron), XIII, b 333
Ehsts, people (Livonia), XIV, a b 730, a 731. See Esthonians
EIBENSTOCK, town, VII, b 683
Eichelstein, monument (Mainz), XV, a 309
EICHENDORFF, Joseph, Freiherr von, poet, VII, b 683–4; (Germany), X, a 485
Eichholtzheim, castle (Mannheim), XV, *b* 501
EICHHORN, Johann Gottfried, critic, VII, a b 684; (Canticles), V, a 31; (Gospels), X, *b* 747
EICHHORN, Karl Friedrich, jurist, VII, b 684
Eichler, August Wilhelm, botanist (Martius), XV, a 593
EICHSTADT or Eichstatt, town, VII, b 684
EIDER, duck, VII, b 684–5; (Greenland), XI, a 151, b 152; (Pochard), XIX, b 264–5
—— river (Schleswig-Holstein), XXI, *b* 432, *a* 433
Eidgenossen, league (Granson), XI, b 45; (Hapsburg), b 405; (Huguenots), XII, b 351
Eidograph (Surveying), XXII, b 758–9
Eidology (Herbart), XI, a 643
Eidophusicon, show (De Loutherbourg), VII, a 47
Eifel district (Geology), X, *b* 302–3; (Germany), a b 402, *a* 403, a 404; (Geology), *b* 215, b 218, b 223, b 224; (Prussia), XX, *a* b 25
Eiffe's compensation (Watch), XXIV, a 417
Eigg, island (Scotland), XXI, a *b* 544, a 550
Eighth century, events in, B.C. (Chronology), V, b 625; A.D. (Chronology), b 629–30
Eighteenth century, events in, A.D. (Chronology), V, a 646–51
Eikon Basilike (Charles I.), V, b 353; (Gauden), X, *b* 98, a 99; (Milton), XVI, b 344; (Toland), XXIII, b 462
Eildon Hills (Roxburgh), XXI, b 39, *a* 40
EILENBURG, town, VII, a 685
Eilethyia, town (Egypt), VII, a b 623, note, a 638, b 678
Eilhardia, genus (Sponges), XXII, b 433, a 439
Eilhardidæ, family (Sponges), XXII, a 439
Eimâk, tribe (Afghânistân), I, b 204, *b* 211; (Ghúr), X, a 509
Eimer, Th., naturalist (Actinozoa), I, *a* 122; (Hydrozoa), XII, b 584, a b 585, b 589, b 590, b 597
EINBECK or Eimbeck, town, VII, a 685
Ein feste burg (Hymns), XII, b 620
Einhard. See Eginhard
Einheit des Staats und der Kirche (Zacharias), XXIV, b 809
Einleitung in die Schriften des Neuen Testaments (Hug), XII, *a* b 350
—— *in die Christkatholische Theologie* (Hermes, G.), XI, *a* 671
—— *in die Geschichte des neunzehnten Jahrhunderts* (Gervinus), X, a b 494
Einsiedel, Friedrich Hildebrand, politician (Saxony), XXI, *a* 371
EINSIEDELN, town, VII, a b 685; (Schwyz), XXI, *a* b 486; (Zwingli), XXIV, a 872
—— manuscript (Rome), XX, b 839, note, a 840, a b 853
"Eirdehouses" (Edinburgh), VII, b 571
Eirenæus Philalethes, pseudonym (Alchemy), I, b 411
Eirik the Red, Sagas (Iceland), XII, a 660
Eirinus, physician (Asphalt), II, b 625
Eisach, river (Italy), XIII, b 445
EISENACH, town, VII, b 685; (Saxe-Weimar), XXI, *b* 364, *a b* 365
EISENBERG, town, VII, b 685
EISENBURG or Vas Vármegye, county, VII, b 685
Eisenerz, Styria, ore (Iron), XIII, a 294, a b 314
Eisennickelkies (Mineralogy), XVI, a 409
EISENSTADT or Kis-Marton, town, VII, b 685
EISLEBEN, town, VII, b 685–6
EISTEDDFOD, festival, VII, a 686–7; (Bard), III, b 319
Eisthaler Thurm, mountain (Austria), III, b 100
Eiyúbis dynasty (Numismatics), XVII, a 679
EJECTMENT, law action, VII, a b 687; (Brehon Law), IV, b 227–8; (Landlord and Tenant), XIV, b 274, a 278, note; (Possession), XIX, a 577; Act of 1662 (Baxter), III, a 394; acts (Ireland), XIII, b 233–4
——, English clerical (Presbyterianism), XIX, b 709, a 710; Irish clerical (Presbyterianism), a 712; (Taylor, Jeremy), XXIII, a 101; Scotch clerical (Presbyterianism), XIX, b 703, a 704
Ejin, race (China), V, b 554
EKATERINBURG, town, VII, b 687; (Meteorology), XVI, b 124, b 133, b 134, b 143; (Perm), XVIII, b 561, a 562; (Ural Mountains), XXIV, a b 10; peak, XXIV, a b 8, b 9
EKATERINODAR, town, VII, b 687–8; (Kuban), XIV, a 151

EKATERINOSLAFF, government, VII, a b 688; (Russia), XXI, a 76, b 84, b 87, a 93; town, VII, b 688
Ekaterinstadt, town (Nikolaievsk), XVII, a 517
Ekbatana. See ECBATANA.
Ekersberg, painter (Denmark), VII, a 82
Ekdálah, fortress (Gaur), X, b 101, b 104
EKHMIN or Akhmin, town, VII, b 688
Ekkehard the Younger, chronicler (Hymns), XII, *b* 617, *a* 618
Eko or Cohit river (Gaboon), X, b 4
Ekrem Bey, poet (Turkey), XXIII, b 699
EKRON or Accaron, city, VII, b 688-9; (Israel), XIII, a *b* 424; (Philistines), XVIII, a 770
El, god (Phœnicia), XVIII, a 816
Elachistodon, species (Snakes), XXII, b 205
Elæagnus, genus (Botany), (Ill.), IV, a b 80
Elæoblast (Tunicata), XXIII, a 656
Elæolite (Mineralogy) (Ill.), XVI, a 430
Elæoptene, oily substance (Oils), XVII, a 769
El-Afdal, vizier (Egypt), VII, b 652
Elagabalus, emperor. See HELIOGABALUS
——, sun-god (Heliogabalus), XI, *b* 564
Elaghin, island (St. Petersburg), XXI, a 200, *a* 202
El-Ahma, plain (Galilee), X, *a* 26, b 27
Elaidin proof (Oil), XVII, *a* 766
Elaine of Round Table stories (Romance), XX, *a* 663
El-Aksa, mosque (Jerusalem), XIII, a b 653
El-Aksur, Askar or Uskur, village (Egypt), VII, a 650, a 652, b 667, a 674; (Luxor), XV, a 90
El-Altar, mountain (Ecuador), VII, b 559, a 561
ELAM or Susiana, province, VII, a 689-90; (Babylonia), III, a 161, a b 162, a 163; (Khuzistan), XIV, a 70
Elamite conquests, early (Babylonia), III, *b* 160–1
ELAND, antelope, VII, a 690; (Antelope), II, b 90; (Mammalia), XV, b 383
Elanus, genus (Kite), XIV, *a* 106
Elapidæ, family (Snakes), XXII, a 204
Elaps, genus (Mimicry), XVI, a 354; (Snakes) (Ill.), XXII, b 207
EL-ARAISH or Larache, town, VII, b 690
El Arish, port (Turkey), XXIII, a 695; capitulation of, 1800 (Capitulation), V, b 66
El-Asee, conqueror. See AMRU EL-KAIS
El-Ashmooneyn, village (Egypt), VII, a 672
El-Ashraf, Khaleed, sultan (Egypt), VII, a 656
——, El-Melik, sultan (Egypt), VII, a 657
El-Askar, city. See El Aksur
Elasmobranchii, division (Amphibia)), I, *a* 676; (Ichthyology), XII, b 723; fins of (Skeleton), XXII, *b* 126, *a* 127
Elasmognathus, fossil (Mammalia), XV, a 434
Elasmosaurus, fossil (Geology), X, b 319; (Plesiosaurians), XIX, a 232, b 233
Elastic arterial coats (Anatomy) (Ill.), I, *a* 795
—— forces, moment of (Bridges) (Ill.), IV, a 259–60, a 262–3
ELASTICITY, VII, b 690–716
  bending solid rods, b 701–2
  bulk elasticity, b 690–1, a 692
  cylinder torsion, a 703
  definition of, b 690–1
  distortions, homogeneous, a b 694
  distortions not uniform, a 692–4
  DYNAMICAL RELATIONS OF STRESS AND STRAIN, a 714–16
    differential equation of energy, a b 714
    natural crystals, b 715–6
    plane waves in homogeneous æolotropic solid, a b 716
    potential function and equilibrium, b 714
    six principal strains, a 715
  experiments, b 709–10
  flexural rigidities, a b 702, b 704
  gases and liquids, a 695
  homogeneousness defined, b 697
  Hooke's law, a b 697
  isotrophy and æolotropy, b 697–9
  limits of, b 691–706
  longitudinal stress, a 698–700.
  MATHEMATICAL THEORY, b 710–6
    concurrence of stresses and strains, a 712, b 713–4
    definitions, b 710
    displacement in a strain, b 711
    distribution of force in a stress, a 711
    measurement of stresses and strains, a 713
    orthogonal stresses and strains, a 712
    resolution of stresses and strains, a 712
    specification of stresses and strains, b 712
    transformation of types, a 714
    types of reference, b 712
  metallic viscosity, b 695–6
  modulus of longitudinal strain, a 700
  modulus tables, b 707, 708, b 709
  molecular friction, b 696–7
ELASTICITY, *continued*
  molecular strains and strength of materials, b 692–4
  permanent molecular changes in solids, b 707–9
  prism. torsion of, a b 703, b 704
  resilience, b 700–1
  rigidity of solid, b 698, b 699
  shape elasticity, a 691–2
  solids, limit in, b 694–5
  strain at angles, a b 705
  temperature changes in, b 705–7
  tempering iron, stress, b 709
  thermodynamic tables, b 706–7
  torsion, b 702–5
  viscosity, a 695–7
  weight modulus, and length of, a 700–1
  Young's modulus, a b 698, b 699
—— (Acoustics), I, b 94, b 96–7; (Constitution of Bodies), VI, *b* 277; (Ivory), XIII, a 530; of beams (Bridges), IV, a 262; of crystals (Mineralogy), XVI, b 393; of Metals, b 70, b 73; limits of (Strength of Materials), XXII, b 624; of materials (Bridges), IV, a b 256; of steel (Iron), XIII, a b 364; tempering, effect of (Iron), a b 364; theory of (Capillary Action), V, a 51; of volume (Hydromechanics), XII, a b 455, a 480
Elastic reaction (Constitution of Bodies), VI, a 278
—— recovery (Electricity), VIII, b 37
—— solids, VII, b 694–5, b 698, b 699; (Wave Theory), XXIV, a 443; dynamics of (Mechanics), XV, a 751–4; reflection theory (Wave Theory), XXIV, b 482-4; theory, b 443, a 444, b 470, b 477, b 478, b 479, a 481
—— spheres (Mechanics), XV, a 728
—— strain measurement (Strength of Materials), XXII, a 629
—— string, falling bodies connected by (Mechanics), XV, a b 725; support, a b 711
—— Tides, XXIII, b 398–9
—— tubes, pulsation in (Vascular System), XXIV, a 112
—— webbing (India-Rubber), XII, a 883
El-'Asy, river (Lebanon), XIV, a 394
Elate, tree (Date Palm), VI, a 732
Elatea, city (Phocion), XVIII, a 813 note; (Phocis), b 814; mount (Cithæron), V, a 694
Elateridæ, family (Coleoptera) (Ill.), VI, a 120
Elaterite, mineral (Derby), VII, b 93; (Mineralogy), XVI, a 447
ELATERIUM, drug, VII, b 716
Elater lineatus, beetle (Wheat) (Ill.), XXIV, b 566
Elaters, organs (Muscineæ) (Ill.), XVII, b 72, a 76
Elath, Biblical locality (Akabah, Gulf of), I, a 385
Elato, mount (Cephalonia), V, b 298
Elatobranchia, group (Mollusca) (Ill.), XVI, a 710–21
ELBA, island, VII, b 716–7; (Etruria), VIII, b 558, a 559; (Italy), XIII, a 450, a 452; (Napoleon I.), XVII, b 228, a b 229
——, mountain (Africa), I, b 224
—— specular ore (Iron), XIII, b 292
ELBE, river, VII, a b 717; (Austria), III, *b* 101; (Germany), X, a *b* 403, a b 404, b 411, b 413, *b* 420; (Hamburg), XI, a b 365; (Hanover), b 398, a 399; (Saxony), XXI, *b* 372, a 374, b 375, a 376
—— dues (Stade), XXII, b 456 note
ELBERFELD, town (Plan), VII, b 717–8; (Prussia), XX, *b* 19, a 21, b 25
Elbert mountain (Colorado), VI, b 145
ELBEUF, town, VII, a 718; (Seine Inférieure), XXI, *a* b 657
——, Emmanuel Maurice, prince (Herculaneum), XI, a b 647
——, René, marquis of (Guise), XI, a b 236, a 237
ELBING, town, VII, a b 718; River, a 718
Elbodus, bishop (Nennius), XVII, b 341
El-Bohturì, poet (Hamasah), XI, b 360
Elbow-joint (Anatomy), I, a 736; (Dislocation), VII, a 225
Elbows, water-pipe (Hydromechanics), XII, a b 512
Elbruz, mountain (Caucasus), V, *a* 220, a 221, a 222, b 223
Elbseifen, stream (Elbe), VII, a 717
El-Burullus, lake (Egypt), VII, a 615
ELBURZ, mountains, VII, b 718; (Asia), II, a b 599; (Caspian Sea), V, a 155; (Mazandaràn), XV, a 658
El-Carmen, town (Yucatan), XXIV, a 796
——, town (Patagonia), XVIII, *b* 358
——, town, Spain (Coal), VI, a 55
ELCHE, town, VII, b 718
Elchingen, duke of. See NEY
Elcho's Act, Lord (Labor), XIV, a b 171
ELDAD BEN MALCHI, traveller, VII, b 718
ELDER, official title, VII, a 719; (Pastoral Epistles), XVIII, a 354; (Presbyterianism), XIX, a 698, b 707; (Quakers), XX, *b* 157; early church (Christianity), V, a b 607–8; French (Presbyterianism), XIX, a 713; ruling, XIX, a 701, a b 708

ELDER, plant, VII, a b 719; (Botany) (Ill.), IV, a 74, a 75, *b* 89; (Guelder Rose), XI, a 217
——, John, manufacturer (Steam-Engine), XXII, b 495
Elderslie, town (Johnstone), XIII, a 741
Eldey, island (Gare-Fowl), X, b 71
ELDON, John Scott, earl of, VII, b 719–21; (Brougham), IV, b 339; (Copyright), VI, b 319, a 320; (Hutton), XII, b 429; (Peel), XVIII, b 464, b 465; (Shelley), XXI, a 829
EL DORADO, mythical country, VII, b 721; (Raleigh), XX, b 274–5
Elea, city (Phocæa), XVIII, a 812
Elean dialect (Greece), XI, a b 118
"Eleanor" (Horse), XII, b 189
ELEANOR of Aquitaine or Guienne, queen, VIII, a 3; (Costume), VI, *b* 412; (France), IX, b 476, a 477; Queen (John, Eng.), XIII, a b 724; (Plantagenet), XIX, a 186; (Poitiers), b 293, a 294; (Provençal Literature), *a* 899, a 900; (Rosamond), XX, b 870; (Sea Laws), XXI, a 611
—— of Castile (Costume), VI, b 413; (London), XIV, b 855–6
—— of Foix, queen of Navarre (Spain), XXII, b 339
—— de Guzman, beauty (Spain), XXII, a b 334
—— of Pembroke (Montfort), XVI, b 813
—— of Provence (Montfort), XVI, b 813–14 note; tomb of (Metal-Work) (Ill.), b 82; (Sculpture) (Ill.), XXI, a 585
—— Crosses, VI, b 541
ELEATIC SCHOOL of Philosophy, VIII, a 3–4; (Categories), V, a 194; (Cousin), VI, a 467; (Euclid of Megara), VIII, a b 578; (Evolution), b 659, b 661; (Gorgias), X, b 697; (Logic), XIV, a *b* 791; (Metaphysic), XVI, b 86; (Parmenides), XVIII, a 321, b 322; (Scepticism), XXI, *a* 396; (Sophists), XXII, b 227, *a* 280; (Xenophanes), XXIV, a *b* 755; (Zeno), a 817, a 818
ELECAMPANE, plant, VIII, a 4
Electi, saints (Manichæism), XV, *b* 491, *a* 492; (Paul), XVIII, a 438
Elections (Austria), III, a 123; (Belgium), a b 446, a 447, b 457, b 458; (Bolivia), IV, b 15; (Brazil), *a* 212; (Germany), X, a 417; (Probability), XIX, b 800; (Prussia), XX, b 22; (Universities), XXIII, *b* 960–1; Venetian (Doge), VII, a 283; Royal Roman, XX, b 751, a 752
——, British, VIII, a b 4; (Government), XI, b 13, a 14; (Parliament), XVIII, a 312, b 314–6, a 319; (Registration), XX, a 357–8; contested (Parliament), XVIII, b 316, a 319; frauds (Ballot), III, b 250; (Bribery), IV, b 248–9; (Fox, C. J.), IX, a 438, a 439; Writs of, XXIV, *b* 732, *a* 733
—— in United States (Judges), XIII, a 773; (Tammany), XXIII, b 920; act of federal (United States), a 830, a b 832; electoral commission of 1877 (Republican Party), XX, b 907; (Tilden), XXIII, a 414; machine system (Tammany), a 921; (Florida), IX, a 299; Presidential (Morton), XXIII, b 839; (United States), 797, b 798, b 802, a 821. For local qualifications, see "Government" under title of each State
——, ecclesiastical (Abbot), I, b 28; (Conclave), VI, a 313–4; (Congé d'Élire), a b 235
——, imperial (Charles IV., emperor), V, a 358; (Diet), VII, b 173–4; (Germany), X, a b 442, b 443, a 444, b 446, b 449; (Golden Bull), a 674; (Palatinate), XVIII, b 170, a 171; (Wenceslaus), XXIV, a 529; rise of (Saxony), XXI, a 368
Elective Affinity, I, b 203
Electors, title (Prince), XIX, b 758
Electra, heroine (Orestes), XVII, a 851
Electra, play (Euripides), VIII, a 594; (Sophocles), XXII, b 286, a 287
Electric air-currents (Meteorology), XVI, a 190–1
—— appliances (Patents), XVIII, a 883; arc spectrum (Radiation), XX, b 220, a 222; Baths, III, b 379; cable diffusion (Heat), XI, b 519, b 523, b 525; cage, VIII, a 18, note; -calamine, ore (Zinc), XXIV, a 823; candle, Jablochkoff's, VIII, a 56; cat-fish (Siluridæ), XXII, b 75; character of the Aurora, III, a 84–5
—— Clocks (Ill.), VI, b 25–6
—— conductivity. See Conductivity, Electrical
—— current in Dionæa (Insectivorous Plants), XIII, b 143
—— currents. See Currents, electric
—— decomposition (Chemistry), V, b 412. See Decomposition
—— densities compared, VIII, b 21
—— distribution (Ill.), VIII, a 19
—— field, VIII, a 23
—— fire-tester (Petroleum), XVIII, b 892
—— fishes VIII, a b 69; (Eel), VII, b 601–2; (Ichthyology), XII, b 671, a b 687, a 712; (Ray) (Ill.), XX, a b 312; (Siluridæ), XXII, b 75
—— force (Attraction), III, *b* 56; VIII, a 17, b 20; images, VIII, b 30–1, a b 62; lamps (Coal), VI, b 68; (Lighting), XIV, a 639–40
—— Lifts, XIV, b 577
—— light (Carbon), V, *b* 77; (Electricity), VIII, a 5, b 55–6; (Gas and Gas Lighting), X, a 93; (Lighthouse), XIV, b 633–4; (Micrometer), XVI, b 263 note; (Mining), XVI, b 482, a 483; effect on plants (Horticulture), XII, b 219; Foucault's (Electricity), VIII, a 56
ELECTRIC LIGHTING, XIV, a 637–40; (London), *a* 835; (Railway), XX, b 260
—— Log, XIV, a b 778
—— motors (Railway), XX, b 260; (Tramway), XXIII, a 541; (Traction), a 526–7, a b 528; in mountings of Telescopes, XXIII, b 166
—— nerve phenomena (Physiology) (Ill.), XIX, a b 30; (Taste), XXIII, b 86; stimulation of brain, XIX, a 47–8; stimulation of heart (Vascular System), XXIV, a 110; stimulation of nerves, XIX, a 28–9. See Electro-biology
—— Peak, mountain (Yellowstone Park), XXIV, b 773
—— pile (Volta), XXIV, a 305; polarization of mercury (Capillary Action), V, a 59; potential VIII, a b 23; (Waves), XXIV, a b 443; Pyrometer (Iron), XIII, a 312; (Ill.), XX, b 139–40
—— Screens, VIII, b 27; sighting (Sights), XXII, a 54; Thermometer, XXIII, a 313; Tourniquet, VIII, a 60
—— TRACTION, XXIII, a 526–8; (Siemens), XXII, a 43. See Electric motors and Motors
—— tubes (Gunnery), XI, a 272
—— Windmill, VIII, a 60
ELECTRICITY (Ill.), VIII, b 4–99
  absolute measurements, a 97–8
  CURRENTS, PASSAGE OF, (Ill.), a 38–51
    battery resistance, b 47–8
    boxes, resistance, b 42–3
    conduction, electrolytic, a b 44
    currents, conservation in, a 38
    differential galvanometer, b 41
    disruptive discharge, a 51
    electrolytes, a 44–6
    electrometer measurement, a 44
    Ewing and Macgregor, a b 47
    fluid resistance, b 49–50
    gases, resistance of, b 50–1
    Kirchhoff and Foster's methods, a b 43
    Kohlrausch and Nippoldt, b 45–7
    linear conductors, b 39–41
    Mathiessen and Hockin, b 43–4
ELECTRICITY, *continued*
  CURRENTS, PASSAGE OF
    measurement of electrolytic resistance, a 44–7
    metals, resistance of, 48–9
    multiple arc, a 41
    network distribution, b 40–1
    Ohm's law, b 38–41, a 44–7
    order of conductivity, a b 48
    polarization resistance, b 44–5
    resistance measurement, b 41–4, a 48–51
    rheostat, b 42
    unit dimensions, a b 39
    Voltaic circuit, a b 40
    Wheatstone's bridge b 41–2
  HISTORY, b 4–15
    absolute units, b 15
    analysis, first applications of, a b 10
    batteries, b 13
    classical age, b 4–5
    conductivity experiments, b 5–9
    conservation of energy, a 14
    dynamics of, b 40–4
    eighteenth century, b 5–10
    electrical atmospheres theory, a b 8
    electrolysis, b 13
    fishes, a b 9
    Franklin, a b 7
    galvanic or voltaic, b 9–10, a 14
    inductive currents, b 11–2
    Leyden jar, b 6–8
    machines, magneto, a 12–3
    magnetism, discoveries in, b 10–2
    mathematical theory, a 12
    measurement discoveries, b 9–10
    pile theories, a 14
    polarization, b 13–4
    pyro-electricity, b 8–9
    resistance and current strength, b 12–3
    seventeenth century, b 5
    sixteenth century, a 5
    statical experiments and theory, a 14–5
    thermo-electricity, a b 11
    vitreous and resinous age, a 6, a 8
    Watson's experiments, b 6–7
  INDEX, a 98–9
  INSULATING MEDIUM, (Ill.), a 34–8
    Boltzmann's measurements, b 35–6
    Faraday's experiments, a 34–5
    fluids and gases, a b 36
    Hopkinson and Maxwell, b 37–8

ELECTRICITY, *continued*
INSULATING MEDIUM
Kohlrausch's theory, a b 37
latent charge, b 36–7
residual discharge, b 36–8
Siemens and Gaugain, a b 35
specific induction, b 34–6
introduction, b 4
MATHEMATICAL THEORY (Ill.), b 22–34
accumulators, a 32–4
coefficients of induction, a 26–7
configuration, change of, a 28 *sq.*
definitions, a 23
distribution, problem of, b 25–7
electric images, Thomson's, b 30–1
ellipsoid distribution, b 28–9
external and internal systems, a b 27
free and bound electricity, b 33–4
force in terms of, a b 23
inverse square, law of, b 25
inversion, a 31–2
Leyden batteries, b 32 4
parallel plates, a 32
points and edges, b 29
Poisson's two spheres, b 29–30
spheres, distribution on, 29–32
surface induction integral, b 23–4
synthesis of Green, b 30
system of conductors, b 27–8
tubes of force, b 24–5
PHENOMENA IN GENERAL (Ill.), b 15–22
attraction tested of oscillation, b 20
composite conductors, a b 22
Coulomb's results, b 21–2
definitions, a b 16
distribution, a b 19
experimental machines, a b 17
fundamental experiment, b 15–6
laws of force, b 19–21
provisional theory, b 16–7
quantitative results, a 21 2
quantity, b 17–8
statical unit, b 18, b 20–1
speculation theories, b 98
TRANSFORMATION OF ENERGY (Ill.), b 51–97
Ampère's law, b 65–6; theory, a b 70
batteries, dynamics of, b 84–8
brush discharge, b 59
coil, induction, b 96–7

ELECTRICITY, *continued*
TRANSFORMATION OF ENERGY
chemical affinity, measurement of, b 86–7
circuit, action on element of, a 64–5
coils with iron core, a 74
constant current heating, a b 53
contact force, b 78–82
convection, electrolytic, b 82–3
currents, thermo-electric, a 89
currents of higher order, b 74
dark discharge, a b 60
di-electric strength of gases, b 56–8
discharge, action of magnet on, b 69–70
discharge of statical, b 51–3
disruptive discharge, b 56–62
dynamical theory of battery, b 84–8
dynamometer, Webber's, b 67–8
electrolyte heating, b 53
electro-magnetism (Ill.), b 62–70
extra current-measurement, a 75–6
Faraday's induction law, a b 71
force, electro-motive, a 78–97
forms of discharge in gases, b 58–61
frictional electricity, a 93–5
galvanic batteries, a 87–8
gas polarization, a b 82
glow and convective discharge, b 59–60
heat effects, b 51–6
heat evolution at electrodes, a 85–6
Holtz's machine, a b 96
induction of currents, a 71–8
induction machines (Ill.), a 95–7
intermittent discharges, a b 61
inversion, thermo-electric, a 90
kinetic energy, b 71–2, b 76
law of heat evolution, b 52–3
Lenz's law, a b 72
light, electric, b 55, –6, a 59–61
linear circuit in field, a 64
liquids and metals, contact force of, b 79–81
machines, frictional (Ill.), b 93–4
machines, induction and convection (Ill.), a 95–7
magnetic shell, a 63–4
masses of metal, induction in, b 77–8

ELECTRICITY, *continued*
measurement of electro-motive force, a b 81
mechanical effects of discharge, b 61–2
melting and volatilization by, b 54–5
Oersted and Ampère, b 62–3
oscillations, a b 77
physiological induction, a 74
polarization, contact force from, b 81–3
pole, action on magnetic, a 66, a 68
powders, friction of, b 94–5
pressure on gases, effect of, b 57–8
pyro-electricity, b 92–3
rarified gases, discharge in, b 60–1
residual motive force, b 85–6
reversible heating, b 53–4
rotations, a 68–9
seat of motive force, b 92
Seebeck's discovery, a b 88
self-induction, b 74–6
solenoid currents, a b 67
spark discharge, a b 59
statical discharge, induction by, a b 74
strain, effects on metals of, a b 89
surface figures, a b 62
Tait's thermo-dynamics, a 91–2
temperature variations, effects of b 89–90
theoretical heating, b 54
theory and experiment compared, a 66–8
thermo-electricity, a 88–92
thermo-electrometer (Ill.), a 52–3
Thomson's thermodynamics, a 90–1
two fixed circuits, induction by, a b 76
unipolar induction, b 73–4
vacuum strength, b 58
vector potential, b 64–5
velocity of electricity, b 61
verification of induction laws, b 72–4
Voltaic circuit, energy of, b 83–4

—— (Æpinus), I, b 165, a 166; (Allemand), b 510; (Amber), b 579; (Blasting), III, a 703–4; (Canton), V, a 36; (Cavendish), V, a 237; (De la Rive), VII, b 37–8; (Energy), VIII, a b 191, a 192; (Eye), a 719; (Faraday), IX, b 27–9; (Flame), a 249; (Foucault, J. B. L.), *a* 420; (Franklin), a b 627; (Galvani), X, b 44; (Gunnery), XI, b 264-8; (Harris, Sir W. S.), XI, b 441; (Laplace), XIV, b 303-4; (Lichtenberg), a 567; (Light), b 583; (Magic), XV, b 209–10; (Matteucci), b 639; (Maxwell, J. C.), b 653-4
——, Measurement of, VIII, b 9-10; (Lighting), XIV, a 640; (Measurements), XV, a 675; absolute, VIII, a 97-8; electrolytic, a 44–7; resistance, b 41–4, a 48–51
—— (Mineralogy), XVI, b 390; (Mining), b 465, a 466, b 476; applications of (Siemens), XXII, a b 43; atmospheric (Meteorology), XVI, a 191; (Thunderstorm), XXIII, a 350–1; classification of (Physical Sciences), XIX, b 6–7; overcoming effect of (Watch), XXIV, a 420; propagation of (Ohm), XVII, b 759
—— *and Magnetism* (Maxwell, J. C.), XV, b 653–4
——, plant dissipation of (Physiology), XIX, b 63-4
——, *Principles of* (Stanhope), XXII, b 466
Electro-biology (Galvani), X, b 44; (Magnetism), XV, *b* 279
—— -chemical equivalents (Electricity), VIII, a 98; (Electrolysis), b 105–6; science (Chemistry), V, b 403, a 404; (Davy), VI, b 744
—— -contact mines (Torpedo) (Ill.), XXIII, b 477, a b 478
—— -deposition (Bronze), IV, a 331
Electrodes (Electricity), VIII, a 44, a 61; (Electrolysis), b 100
Electro-dynamics. See ELECTRICITY
—— -gilding, X, a 531; (Electro - Metallurgy), VIII, a 110
ELECTROLYSIS, VIII, 99–108
capillary action, b 102–3
chemical equivalents, a 105–6
contact solutions, b 105
definitions, a 99–100
determination of ions, b 101–3
electrolytes, b 100–1, b 103
Faraday's law, a b 101, b 104–5
electro-vection or endosmose, b 104
motion, b 103–4
passivity, a 103
secondary actions, a 102–4
theories, b 106–8
typical action and terms, a b 100
voltameters, b 101

—— (Diffusion), VII, a b 190; (Iron), XIII, b 285; (Optics), XVII, a 829
Electrolytes (Electricity), VIII, a 44–7, a b 48, b 49–50, b 53–4, b 82–3; (Electrolysis), a 100–1, b 103

Electrolytic iron (Magnetism), XV, a 263
Electro-magnetic current (Blasting), III, b 701, b 703; engines (Electricity), VIII, a 11; Gyroscope, XI, b 314, a 316; seismometer (Earthquake), VII, a 529; theory (Wave Theory), XXIV, a 444, a b 475
—— -magnetism (Ampère), I, b 656; (Electricity), VIII, b 10-1; (Faraday), IX, b 27-9: (Morse), XVI, a b 874; efficiency of (Mechanics), XV, b 784
—— -magnets (Henry, J.), XI, b 601-2; (Lighting), XIV, b 638, b 639; (Magnetism) (Ill.), XV, a b 227, a b 277
—— -mechanical mines (Torpedo)(Ill.), XXIII, b 478-9
—— -metallurgic maps (Surveying), XXII, b 751
ELECTRC - METALLURGY, VIII, a 108–10
  apparatus, b 108–9
  electrotypes, b 108, b 109
  gilding, a 110
  history, a b 108
  minor uses, a b 110
  plating, b 109–10
  thermo-electricity, a b 109
—— (Electricity), VIII, b 13, a 86
ELECTROMETER (Ill.), VIII, b 110-6
  absolute machine (Ill.), b 113-4
  attracted disc (Ill.), b 112–4
  capillary apparatus, b 115-6
  definitions, b 110
  direct quantity apparatus, b 110-1
  quadrant machine (Ill.), b 114-5
  replenisher, a b 114
  repulsion apparatus (Ill.), a 111–2
  symmetrical machines (Ill.), b 114–5
—— (Electricity), VIII, a 17, a 44, a b 81; (Telegraph), XXIII, a 125–6; (Volta), XXIV, a 305; Thomson's (Ill.), VIII, b 14, a 17, a 18, a 97
Electron. See Electrum
Electrophorus, Volta's, VIII, a b 95; XXIV, b 304
Electro-plating (Iron), XIII, a b 367; (Electro-Metallurgy), VIII, b 109-10; (Nickel), XVII, a 502
Electroscope (Mineralogy), XVI, a 391; (Electricity), VIII, a 17; (Electrometer) (Ill.), b 110, *a b* 111, a b 114; Volta's (Electricity), b 32
Electroscopic needle (Electricity), VIII, *a* b 16
Electrostatic capacity of cables (Telegraph), XXIII, b 123-4
Electro-statics (Electricity), VIII, a 14–5, b 20, b 22–34, a 97
Electrotropism of plants (Physiology), XIX, b 67
Electrotypes (Electro-Metallurgy), VIII, b 108, b 109; curved (Typography), XXIII, b 754; time required for (Typography), a b 749
Electrotyping charts (Surveying), XXII, a 752; process (Typography), XXIII, a b 749
Electro-vection (Electrolysis), VIII, b 104
Electrum or electron (Amber), I, b 579; alloy (Gold), X, a 659, a 668; (Mineralogy), XVI, b 387, b 398; (Mint), a 504; (Numismatics), XVII, a 645, note, b 646, b 661-2, a 664; coins (Lydia), XV, b 101
Eleganze della lingua Toscana e Latina (Manutius), XV, a b 521
Elegiac poetry (Greece), XI, a 122, a 124; (Mimnermus), XVI, a 357; (Poetry), XIX, a 285; (Propertius), b 834, a b 835, a b 836; (Roman Literature), XX, a b 743; (Tibullus), XXIII, a 370; (Tyrtæus), b 760
Elegies, poems (Cowley), VI, b 472; (Poland), XIX, a 312; (Pontanus), a 469; (Tourneur), XXIII, b 521; Hebrew (Lamentations), XIV, a 241–2; (Talmud), XXIII, b 42 note
Elegit, writ (Real Estate), XX, a 319; (Writ), XXIV, *b* 731
Elegy Written in a Country Churchyard (Gray, Thomas), XI, b 70, a 71, note
—— *Written in Spring* (Bruce, M.), IV, b 353, a 354
Eleia. See ELIS
El-Elfee, Mohammed Bey (Egypt), VII, a 660–2
Elementary Geometry, X, a 334-46
Elements of Chemistry, V, b 404 12; ancient theories of (Chemistry), *b* 397–8; atomic weights of (Chemistry), b 404, a b 405–8, b 470–1; combination laws (Chemistry), a 405–8; of earth's crust (Geology), X, b 198; electro-negative (Chemistry), V, b 412, a 414, *b* 420-1; electro-positive (Chemistry), b 412, a 414, *b* 420-1; isolation (Wöhler), XXIV, b 660; table of (Chemistry), V, b 402; periodic relations of (Chemistry), b 470-1; valency of (Chemistry), b 409-10
—— of physics, Aristotelian, II, a b 457; (Empedocles), VIII, a 164; (Plato), XIX, a 221
Elements of Euclid, VIII, b 575–6; (Porism), XIX, a 534; (Simpson), XXII, a 95
ELEMI, resin, VIII, a 116; (Incense), XII, a 757
Eleonora, queen of Sardinia, XXI, b 324
Eleonorite (Mineralogy), XVI, b 422
ELEPHANT, mammal (Ill.), VIII, a 116–8
  anatomical structure, a 116–7
  domestication, a b 118
  fossils, b 118
  habits, a 117
  species described, a 117–8
  treatises, b 118-9
—— (Assam), II, a 630; (Burmah), IV, b 493; (Cambodia), b 641; (Ceylon), V, b 315; (Distribution), VII, b 240; (Hunting), XII, a 412; (India), a 780, b 791; (Ivory), XIII, a 530-1, note; (Mastodon), XV, *b* 628, *a* 629; anatomy of (Mammalia) (Ill.), XV, a b 353, a 354; circulation of (Mammalia), b 366, a 367; foot of (Mammalia) (Ill.), a b 427, b 428, *a b* 429, *a b* 430, *a b* 431; reproductive organs of (Mammalia), b 372; respiration of (Mammalia), a b 368; fossil (Zoology), XXIV, b 926. See Elephas
ELEPHANTA ISLE, VIII, a 119
ELEPHANTIASIS, disease, VIII, a b 119; (Egypt), VII, b 610; (Hypertrophy), XII, b 632· (Leprosy), XIV, a 469· (Polynesia), XIX, b 435 See LEPROSY
Elephantine, island (Egypt), VII, b 617, a 679
Elephant's island (Gambia), X, a 54
Elephas, fossil (Archæology), II, a *b* 294, *a* b 295; (Mammoth) (Ill.), XV, a b 454, b 455
El Estero Real, channel (Honduras), XII, b 133
Elets, districts (Orel), XVII, b 849, a 850
Elettaria, plant (Cardamon), V, *b* 80
ELEUSINIA, festival, VIII, b 119–20; legends of (Harmonia), XI, a 430
Eleusinian Mysteries, XVII, b 131–8; (Ceres), V, *a* 300; (Lustration), XV, b 71; (Pilgrimage), XIX, b 100; (Sacrifice), XXI, a 146
ELEUSIS, city (Plan), VIII, b 120-1; plain of (Attica), III, b 52–3
Eleutheria, festival (Platæa), XIX, b 188
Eleutherodactyli, section of passeres (Ornithology), XVIII, a 44, a 51
ELEUTHEROPOLIS, city, VIII, a 121; (Idumea), XII, *a* 738
Eleutherus, river (Syria), XXII, b 860
——, bishop (Montanism), XVI, a 802
Eleuths, tribe (Mongols) XVI, a 771
Elevated Railways (Ill.), XX, b 249–50; (New York), XVII, a 478
Elevation-crater, theory (Geology), X, b 220
Elevators (Hydromechanics) (Ill.), XII, b 550–1; (Lifts), XIV, b 577–80; furnace lifts (Iron), XIII, b 307–9
—— in Dentistry, VII, b 85
Eleven Thousand Virgins, strait of (Magellan), XV, a 199
Eleventh century, events in, B.C. (Chronology), V, b 625; A.D. (Chronology), b 630-1
El-Ezbekee, general (Egypt), VII, *b* 657
Elf, myth (Orpheus), XVIII, b 54
El-Faiz, caliph (Egypt), VII, b 652
Elfeld, town. See Eltville
Elfin Pipes, XIX, a 120
Elfrida or Aelfthryth, queen (Edward II.), VII, b 591; (England), VIII, b 258
Elfrida, play (Mason), XV, a 617
Elfsborg, province (Sweden), XXII, b 777, *a* b 778, b 780
El-Fustat, city (Egypt), VII, b 649, a b 650, a 651, a 652, b 667
Elfving on plant growth (Physiology), XIX, *a* 65, a *b* 67
El - Ganbardee, general (Egypt), VII, b 657–8
El-Geezeh, ruins. See Gizeh
El-Gemálee, vizier (Egypt), VII, a b 652
El-Ghoree, sultan (Egypt), VII, b 657
ELGIN, county, VIII, a 121–3
  antiquities, b 122
  burgh, b 122–3
  history, a b 123
  industrial features, a 122
  land distribution and towns, a b 122
  physical features, a 121–2
—— (Scotland), XXI, *a* 544, a 551; city, VIII, b 122–3
——, town (Illinois), XII, b 744, a 745
——, James Bruce, earl of (Canada), IV, a 677; (China), V, a *b* 566; (Peking), XVIII, a 481
ELGIN, Thomas Bruce, earl of, ambassador, VIII, b 123; (Archæology), II, b 301–2, a b 311, a 312, b 314
ELGIN AND KINCARDINE, James Bruce, earl of, VIII, b 123-5; (T'ientsin), XXIII, a 409
—— Marbles, VIII, b 123; (Ellis), b 139; (Flaxman, J.), IX, b 261
Elgiva, queen (Edwy, King), VII, *a* 600
EL-GOLEA, town, VIII, a 125
El-Grao, town. See Grao or Villaneueva
El-Greco, painter. See Theotocopuli
El Guisr, town (Canal), IV, b 698, a 699
El-Haddad, chief (Algeria), I, a 502
El-Háfidh, caliph (Egypt), VII, b 652
El-Hákim, caliph (Egypt), VII, b 651
El-Hamra, town (Egypt), VII, b 672
El-Hasan, geometer. See ALHAZEN
El-Hoseyn, martyr (Egypt), VII, b 629, *b* 630. See Hosain
El-Hye, canal (Baghdad), III, b 199
ELI, priest and judge, VIII, a b 125; curse on sons of (Rābā), XX, b 197; (Rabbah), a 199
Elia, pseudonym (Lamb), XIV, b 235–6
Elias, mount (Ceos), V, b 298; (Melos), XV, b 850; (Thera), XXIII, a 300
——, prophet. See ELIJAH
Elias (Holland), XII, a 100

Elias I., Nestorian catholicus (Syriac Literature), XXII, b 893
—— III., Abū-Halīm, catholicus (Syriac Literature), XXII, b 896
—— of al-Anbar, bishop (Syriac Literature), XXII, a 893
—— of Antioch, patriarch (Syriac Literature), XXII, a 884
—— bar Shináyá, lexicographer (Dictionary), VII, b 164; (Semitic Languages), XXI, b 681; (Syriac Literature), XXII, b 882, a b 894
ELIAS LEVITA, rabbi, VIII, b 125
—— of Merv, bishop (Syriac Literature), XXII, b 886
——, Ney, traveller (China), V, b 548-9; (Gobi), X, *a* 636
—— of Nisibis, bishop (Syriac Literature), XXII, a b 867 notes, a 871
Eliasite (Mineralogy), XVI, a 404
Eliberitanus, geographer. See LEO, Johannes
Elichpur, town. See ELLICHPUR
Elicius, deity (Jupiter), XIII, b 789
Elidyrfawr mountain (Carnarvon), V, a 105
ÉLIE DE BEAUMONT, Jean Baptiste Armand Louis Léonce, geologist, VIII, b 125-6; (Dufrenoy), VII, a b 445; (Geology), X, b 220, a 234, b 236 note, b 246
Elieson locomotive (Traction), XXIII, a 527
Eli'ezer, rabbi (Talmud), XXIII, b 41
—— ben Jose, rabbi (Hermeneutics), XI, b 664
—— ben Nathan of Mainz (Rābān), XX, a 198
Elihu, patriarch (Job), XIII, 709, b 712
ELIJAH or Elias, prophet, VIII, a 126-8; (Carmelites), V, *a* 103; (Israel), XIII, b 417-8, b 419; (Kings), XIV, b 87-8; (Prophet), XIX, b 838, b 839; altar of (Carmel), V, b 102
Elijah, oratorio (Mendelssohn), XVI, *b* 12
Elimination, or exclusion (Bacon), III, a b 186, note, a 187
Eliomys, genus (Mammalia), XV, b 423
Eliot, Charles W., educator (Universities), XXIII, b 960
——, George, pseudonym for Marian Evans, or Cross or Lewes, *b.* 1819, *d.* 1880 (Dudevant), VII, a 441; (Gaskell), X, b 94; (Longfellow), XIV, b 873; (Poetry), XIX, b 269
ELIOT, John, "Apostle of the Indians," VIII, a 128-9; (Missions), XVI, b 537: (Natick), XVII, a 249
ELIOT, Sir John, statesman, VIII, a 129-30; (Charles I.), V, *a b* 351; (Hampden), XI, *a* 383; (Pym), XX, *a* 127, a 128
Eliots or Olüts, tribe (Calmucks), IV, b 629
Elipandus of Toledo, bishop (Adoptian Controversy), I, a 149
ELIS, country, VIII, a 130-1; (Games), X, a 58; (Greece), XI, b 84, *a* 85; (Numismatics), XVII, b 659-70; (Olympia), b 787-8; city, VIII, a 131
Elisa, heroine (Dido), VII, b 170
Elisabethenkirche (Marburg), XV, b 537
ELISHA, prophet, VIII, a 131-2; (Israel), XIII, *a* b 418; (Kings), XIV, *b* 87, a 88; (Prophet), XIX, b 838, a 839, b 840
Elivi, islands (Caroline Islands), V, a 111
Elixir vitæ (Alchemy), I, b 410; (Saint-Germain), XXI, b 178
Elixire des Teufels, Die (Hoffmann, E. J. W.), XII, *a* 48
Elixirs (Liqueurs), XIV, a 693
ELIZABETH, city, VIII, b 135; (New Jersey), XVII, a b 408
——, town (New Mexico), XVII, b 410
ELIZABETH, queen of England, VIII, b 132-5
    accession and policy of, b 133-4
    death of, a 135
    Mary queen of Scots, b 134
    Mary's reign, a b 133
    personal characteristics, a 134-5
    youth of, b 132-3
—— (Alan), I, a 391; (Ascham), II, *b* 592, a 593; (Bacon), III, b 173, a b 174-6; (Barneveldt), a 327; (Boetius), a 745; (Castelnau), V, a 169; (Cecil), a b 246, a 247; (Contraband), VI, a 285; (Corn Laws), a 363; (Dee), VII, *b* 21; (Dockyards), a b 270; (Dorset, Earl), *a* 323; (Drake), b 337; (Eisteddfod), b 686; (England), VIII, a b 303, b 305-8; (England, Church of), b 337-8; (English Literature), b 370; (Essex), *b* 490, a b 491; (Famines), IX, a b 25; (Farnese, A.), b 34; (Fasting), b 43; (Fénelon, Marquis), b 63, a 64; (Frobisher), *a* b 693; (Gilbert), X, a b 528; (Gresham), XI, a 167; (Grindal), b 180; (Heraldry), b 615; (Holland), XII, a 79, b 80; (Horse), b 185, b 203-4; (Hymns), *a* 624; (Ireland), XIII, b 225, b 240, b 248, b 269-71; (James I., Eng.), b 567, *a* 568; (John, Don), b 728; (Knighthood), XIV, a 126, a 127; (Leicester), a b 426-7; (London), b 841, b 857, *a* 858, a 861; (Lyly), XV, *b* 104, a b 105; (Mary), *b* 601, a 602, *a b* 606, *a b* 607, *a* b 608, (Monopoly), XVI, a 784; (More, Sir T.), a 845; (Navy), XVII, b 289; (Osorio), XVIII, b 59; (Parliament), a 313; (Persia), a 648; (Philip II.), a 758, a 760; (Pius V.), XIX, b 164; (Poor Laws), a 477, b 478-80, a 493; (Portugal), b 562, a 563; (Presbyterianism), a 706; (Raleigh, Sir W.), XX, a *b* 274, a 275; (Records), b 326; (Ring), a 576 note; (Russia), XXI, a b 101, a 102; (St. John of Jerusalem), a 184; (Scotland), a b 524, *a* 526, a 527, a 528, b 529, a b 530, b 531; (Shakespeare), b 777, a b 795; (Shipping), *b* 865, a 866; (Slavery), XXII, b 145; (Stuart), a *b* 642; (Walsingham), XXIV, *b* 359, a 360; (Woodstock), b 687; (Yachting), b 758; (Yarmouth), a 766
—— Farnese, Spain, queen of Philip V., IX, b 33, a b 35; (Alberoni), I, b 398; (Spain), XXI, *b* 398; (Spain), a 351, a *b* 352, a b 353
—— Gray or Woodville, queen of Edward IV. (Cambridge), IV, b 646; (Ireland), XIII, b 267; (Witchcraft), XXIV, b 654
—— More, queen of Robert II. (Scotland), XXI, b 512
—— of York, queen of Henry VII. (Costume), VI, b 416, b 417
——, princess Palatine (Descartes), VII, *b* 102, a 103
——, duchess of Clarence (Ireland), XIII, b 266
ELIZABETH, St., of Hungary, VIII, a 135; (Franciscans), IX, b 616; (Mysticism), XVII, b 139
ELIZABETH PETROVNA, czarina, VIII, a b 135; (Catherine II.), V, a b 203; (Euler), VIII, a 584; (Russia), XXI, a b 107
—— of Schönau, mystic (Ursula), XXIV, a *b* 18
Elizabethan age (Drama), VII, b 369, b 370-4; Architecture, II, a 387, a 404, b 405, a 407; Epitaphs, VIII, a 439; houses (England), b 307-8
ELIZABETHGRAD, town, VIII, b 135
ELIZABETHPOL, town, VIII, b 135-6; (Transcaucasia), XXIII, b 545, a b 546, b 547: statistics (Russia), XXI, b 76
El-Jehovah (Israel), XIII, b 407 note, a 408
El-Jezireh, plateau (Babylonia), III, a 159
Elk (Deer), VII, a b 23; (Norway), XVII, a 595; fossil Irish (Archæology), II, b 294, a 295
—— mountains (Colorado), VI, b 145; (United States), XXIII, *b* 846
—— river (Maryland), XV, a 609
—— river (Tennessee), XXIII, *b* 193
El-Káhireh, city. See CAIRO
El-Kámil, sultan (Egypt), VII, b 654
El-Karn, lake (Egypt), VII, a 615, a b 671
El-Karnak, ruins. See Karnak
El-Katáč, town (Egypt). VII, a b 650, a 652, b 667
El-Jîb, town. See GIBEON
El-Keff or Kef, town (Keff), XIV, a 29; (Tunis), XXIII, b 660
Elkesaites, sect (Gnosticism), X, b 627
El-Khalil, town. See HEBRON
El-Khárigeh, town (Egypt), VII, a 680
Elkhorn river (Nebraska), XVII, *b* 316
Elkington on drainage (Agriculture), I, a 295
Elkosh, village (Nahum), XVII, *a* 172
ELKSWATAWA, "the Prophet" (Tecumseh), XXIII, a *b* 929
El-Kuds, name for JERUSALEM
El-Kurneh, village (Egypt), VII, b 675
Ell, measure (Weights and Measures), XXIV, a 518
Ellacombe, H. T., author (Bell), III, a 466
Ellagic acid (Gallic Acid), X, a 38
El-Lejjún, town (Palestine), XVIII, b 181
Ellen Fitzarthur, poem (Southey), XXII, b 303
ELLENBOROUGH, Edward Law, baron, jurist, VIII, a 136; (Duel), VII, b 442; (Dundonald), b 466; (Mansfield), XV, b 506
ELLENBOROUGH, Edward Law, earl of, VIII, a 136-7; (Canning, C. J.), IV, a 716; (Ghazni), X, *a* 501; (India), XII, a 847
Ellen's Peak (Western Australia), XXIV, a 535
Eller, Elias, enthusiast (Ronsdorf), XX, a 865
Ellerav, estate (Wilson), XXIV, *b* 623
Ellershausen's process (Iron), XIII, a 357
Ellesmere, lake (Shropshire), XXI, a 887
ELLESMERE, Francis Egerton, earl of, VIII, b 137-8; (Agassiz), I, b 246
——, Thomas Egerton, lord-chancellor (Bacon), III, *a* 178, a 179; (Donne), VII, b 315
El Libro Aureo de Marco Aurelio (Lyly), XV, b 105-6
Ellice, islands (Polynesia), XIX, *a* b 434, b 435, note, a 441
ELLICHPUR, district and town, VIII, a 138; (Berar), III, *b* 503
Ellicott, Andrew, surveyor (Washington), XXIV, b 405
Ellington, Edward, engineer (Lifts), XIV, a b 579
Elliot, Daniel G., ornithologist (Humming-Bird), XII, b 372, note, a 373; (Ornithology), XVIII, b 15; (Pheasant), a 747
——, Sir Gilbert. See MINTO, Earl of
——, Jean, poetess (Cockburn), VI, b 90, note
Elliot's Galvanometer (Ill.), X, b 47
ELLIOTSON, John, physician, VIII, a b 138
ELLIOTT, Ebenezer, poet, VIII, b 138-9
——, E. B., his actuary tables (Blind) III, 722-3

Elliott, Sir George Augustus, general (Gibraltar), X, b 523
——, Grace Dalrymple, mistress (Orleans), XVII, *a* b 878
——, Stephen, botanist (Torrey), XXIII, b 481
——, Sir Walter, orientalist (Inscriptions), XIII, b 124, b 126
——, William, inventor (Button), IV, b 532
Ellipse (Conic Sections), VI, a 242, b 244–7, a 252, *a b* 253; (Curve), b 632, a 638; (Geometry), X, a b 357, b 371–2; (Infinitesimal Calculus), XIII, b 54, a 57; (Ivory, James), a 535; (Mensuration), XVI, a b 24; axes and diameters (Geometry), X, a 359; focal distance (Geometry), a 363
Ellipsoid of revolution (Earth), VII, b 524–5; (Electricity), VIII, a 10, b 21–2, b 28–9; (Infinitesimal Calculus), XIII, a b 58, a b 60; (Ivory, James), a 535; (Maclaurin), XV, b 162–3; (Magnetism), a b 233, b 246–8, b 250, a b 251, a 259, a 260; (Mensuration), XVI, b 31, a 32; attractions of (Legendre), XIV, b 414; equations of (Geometry), X, a 376–7; liquid (Hydromechanics), XII, a b 464, a 465; motion in liquids (Hydromechanics), a 473–4; orbit (Comet), VI, a 168; ovary, capacity of (Electricity), VIII, a 29; rolling (Mechanics), XV, b 745
Elliptic areas (Projection), XIX, b 819
—— functions (Abel), I, b 37; (Jacobi), XIII, a 548; (Landen), XIV, a 272; (Legendre), a b 414; (Smith), XXII, a 183; (Tables), XXIII, a 19; (Variable), XXIV, a 82; applied to thrusts (Arch), II, b 288
—— integrals (Infinitesimal Calculus), XIII, a 42, b 63
—— motion, central (Mechanics), XV, b 692–3; motion of projectile (Mechanics), b 714
—— orbits (Gravitation), XI, b 63; polarization (Wave Theory), XXIV, a *b* 471, b 472, b 474
Elliptical escapement (Clocks) (Ill.), VI, b 26
—— involution (Geometry), X, b 360, a–b 361, *a* 362
—— skewed Arch, II, b 291
Ellipticity of the Earth, VII, a 519–20, a 526
Ellis, Alexander John, phonologist (Alphabet), I, a 535; (English Language), VIII, a 358, a 360; (Phonetics), XVIII, a b 825; (Speech-Sounds), XXII, b 399, a b 405; (Tuning-fork), XXIII, b 659; (V), XXIV, a 28. See LIST OF CONTRIBUTORS
ELLIS, George, essayist, VIII, a 139; (Gower), XI, *b* 20; (Wither), XXIV, a 657
—— G. J. W. A. See DOVER, baron
ELLIS, Sir Henry, antiquarian, VIII, a b 139
——, Henry, envoy (Persia), XVIII, b 660, b 661
——, John, naturalist (Insectivorous Plants), XIII, b 142; (Sounding), XXII, b 293
——, Robinson, classicist (Catullus), V, a 215, a 219
——, Sarah, authoress, VIII, b 139, *a* 140
——, William, astronomer (Meteorology), XVI, *b* 175, a 180
ELLIS, William, missionary, VIII, b 139–40; (Hawaiian Island), XI, *a* 472, note
Ellison, R., botanist (Horse Chestnut), XII, a 210
Ellmann, John, breeder (Agriculture), I, a 348
Ellobius, genus (Mammalia), XV, b 424
ELLOR or Ellur, town, VIII, a 140
ELLORA, town, VIII, a 140; caves (Architecture) (Ill.), II, a b 346
ELLSWORTH, city of Maine, VIII, b 140
——, Oliver, jurist (United States), XXIII, a 796, note
ELLWOOD, Thomas, author, VIII, b 140; (Milton), XVI, b 347, a 348
ELM, tree, VIII, b 140–1; (Arboriculture), II, a 276, a 278, *b* 281, b 282; (Botany) (Ill.), IV, a b 86, a 91, b 97, b 137; forests (United States), XXIII, a 860
—— City, the (New Haven), XVII, a 404
El-Maasarah, town (Egypt), VII, a 671
ELMACIN or Elmakyn, George, author, VIII, a 141; (Tabarí), XXIII, b 8. See Ibn al-'Amíd
El-Mahdee Obeyd Allah (Egypt), VII, b 650
El-Makrizi, historian. See MAKRISI
El-Mamoodee, sultan (Egypt), VII, a 657
Elmanists, class of writers (Portugal, XIX, a 573
El-Mansoor, sultan (Egypt), VII, a 656
El-Mansoorah, town (Egypt), VII, b 654, a 655, a 667
El-Mawâ (Makrízí), XV, b 314
El-Mecheref, town (Berber), III, b 504
El-Medeenah, town. See Medeenet el-Feiyoom
El-Medinah, ruins (Barca), III, a 316
El-Menzelah, lake (Egypt), VII, a 615
El-Metaneeyeh, pyramids at (Egypt), VII, a 671
ELMES, Harvey Lonsdale, architect, VIII, a b 141; (Liverpool), XIV, a 720
ELMES, James, architect, VIII, b 141
ELMINA, town, VIII, b 141; (Gold Coast), X, a b 672, a 673
El-Minyeh, town (Egypt), VII, a 672
ELMIRA, city, VIII, b 141; Reformatory, XX, a b 902, *a* b 903
El-Mo'izz, caliph (Egypt), VII, a 651; canal (Egypt), a b 615; (Mohammedanism), XVI, a 610
El-Mokrani, chief (Algeria), I, a 502
Elmsley, Peter, philologist (Sophocles), XXII, b 287
El Mudo, painter. See NAVARRETE, J. F.
El-Mustaalee, caliph (Egypt), VII, b 652
El-Mustansir, caliph (Egypt), VII, b 651–2
El-Mutanebbee, poet (Egypt), VII, b 650. See MOTANABBI
Elnbogen mountain (Saxe-Weimar), XXI, a 365
Eloa (De Vigny), VII, a 117
EL-OBEID, town, VIII, b 141–2; (Africa), I, b 239
Elogia (Inscriptions), XIII, a b 134
—— *Virorum Illustrium* (Jovius), XIII, b 766, *a* 767
Elohim Psalms, XX, b 34, *a* b 35, a *b* 37
Elohist and Jehovist narratives (Balaam), III, *b* 224; documents (Bible), *b* 550, a b 551; narrative (Tabernacle), XXIII, b 9, a 10; theory (Pentateuch), XVIII, a b 516, a b 517, a b 518, b 519
ELOI, St., bishop, VIII, a 142
Eloin lamp (Coal), VI, a 68
Élomire Hypochondre (Molière), XVI, a b 647, a 648, *b* 649, a b 651
Elopura, town (Sabah), XXI, *a* 132
Eloquence Francaise, Traité de l' (Vair), XXIV, b 36
Elorn river (Finistere), IX, *a* 188
EL PASÓ or El Paso del Norte, town, Mexico, VIII, a 142
El Paso, town (Texas), XXIII, b 221, *a* 222, b 223
Elphege, or Alfeah, bishop (Canterbury), V, b 27, b 28; (England, Church of), VIII, b 333
Elphinstone, George William Keith, general (Afghânistân), I, b 215
ELPHINSTONE, Mountstuart, statesman, VIII, a 142–3; (Afghânistân), I, b 212, *a* 213, a b 215, a 216; (Herat), XI, b 638; (India), XII, a 830, a 844, a 845, b 846, b 851; (Kâfiristân), XIII, a 831, a *b* 832
ELPHINSTONE, William, bishop, VIII, a 140; (Universities), XXIII, a 809
Elpis, poetess (Hymns), XII, b 616
El Puerto, town (Puerto de Santa Maria), XX, b 104
EL ROSARIO, town, VIII, b 143
Elsass, province. See ALSACE
Elsheimer, Adam, painter (Rembrandt), XX, b 385
Elsie Venner (American Literature), I, b 637–8
ELSINORE, Elsineur, or Helsingor, town, VIII, b 143; (Zealand), XXIV, a 810
Elssler, Fanny, dancer (Gentz), X, a 146
Elsner, Joseph, musician (Chopin), V, a 596
Elster, river (Leipsic), XIV, b 429
Elswick ordnance (Gunmaking) (Ill.), XI, b 256, a 259, b 263
El-Tarábulusee, Ali, pasha (Egypt), VII, b 660
Eltavona, town. See NEWARK-UPON-TRENT
Eltham, town (London), XIV, a b 831; (Woolwich), XXIV, a 700
Elton Lake (Caspian Sea), V, a 156
Elton, John, trader (Geography), X, a 168
El Toro, mountain (Balearic Islands), III, a 240
Eltville or Elfeld, early printing at (Typography), XXIII, b 728, a 729
Elulæus, king of Tyre (Phœnicia), XVIII, a 821
El-Uskar. See LUXOR
Elvans, rocks (Cornwall), VI, a 376, a 377; (Geology), X, *b* 208, b 276; (Granite), XI, b 44
ELVAS, city, VIII, b 143; siege of, 1226 (Portugal), XIX, b 557
Elvers, fish (Eels), VII, a 601
Elves (Fairies), VIII, a 748
Elvodugus or El-wand, ecclesiastic. See Alumat
Elwend, mountain (Elam), VII, a 689
Elwes, John Meggot, miser (Tooke), XXIII, a 473
——, H. J., naturalist (Birds), III, *a* b 660, note, a b 661
Elwin, Whitwell, editor (Pope), XIX, b 498, b 499, a 500 note, a 501, a 502
ELY (Ill.), city, VIII, b 143–a–4; (Cambridge, county), IV, *a* b 644; (Libraries), XIV, a 518, b 543; Bishop West's chapel (Metalwork), XVI, b 82
——, Richard T., economist (Workingmen in U. S.), XXIV, a 920, *a* 921
——, Isle of (Cambridge, county), IV, *a* 643
—— silver mines (United States), XXIII, a 868
—— tower (Brecon), IV, a 219
Elymais (Elam), VII, a 689; temples at (Persia), XVIII, b 600, a 601, b 602
Elymi or Elymoi, tribe (Segesta), XXI, b 653; (Sicily), XXII, b 20
ELYOT, Sir Thomas, scholar, VIII, b 144–5; (Encyclopædia), VIII, a 174
Elysia, genus (Mollusca), XVI, a 680, b 681
Elysiadæ, family (Mollusca), XVI, a 680
ELYSIUM, in mythology, VIII, a b 144; (Pluto), XIX, a 247
Elytra, wing-covers (Coleoptera), VI, a 115, a b 117; *a b* 120; (Flight), IX, b 271
Elza river (Italy), XIII, a 418
ELZEVIR, printers, family of, VIII, a b 145; (Milton, John), XVI, a 350; publications of (Bibliography), III, b 568, note; (Typography), XXIII, a 739, b 740
Emanation, doctrine (Al-Farabi), I, a 443; (Evolution), VIII, a 659. See Avatars, Demiurge, Incarnations
Emancipation, Brazilian (Slavery), XXII, a b 151

Emancipation, Cuban (Slavery), XXII, a 151
——, effects of (Slavery), XXII, a 910
——, Greek (Slavery), XXII, a b 139
——, Roman, XX, a 723, b 732; (Slavery), XXII, b 141, a b 142, *a* 143
—— serf· (Russia), XXI, b 90–1, b 92; (Slavery), XXII, a b 145, a 152
——, United States (Garrison), X, a 77, b 78; (Slavery), XXII, b 150; Acts of (Slavery), *a* 908; proclamation of (Lincoln), XIV, b 666, *a* 667; (United States), XXIII, a 826, b 829
——, West Indian (Jamaica), XIII, b 560, a 561; (Metcalfe), XVI, a 111; (Slavery), XXII, b 149–50, a 151
Emanuel. See Emmanuel, Immanuel, and Manoel
EMANUEL I., the Fortunate, Portugal, king, VIII, b 145; (Osorio), XVIII, b 59; (Portugal), XIX, b 560-1
EMANUEL-BEN-SALOMON, poet, VIII, b 145–6
Émaux et Camées (Gautier), X, b 105
Emba river (Russia), XXI, a 80; (Uralsk), XXIV, b 10 a 11
Embabah, town (Cairo), IV, b 573
Embach, river (Livonia), XIV, *a* 739; (Russia), XXI, b 80
Emballonuridæ, family (Mammalia), XV, a 411, a 413, b 414, a 417–8
Emballonurine alliance (Mammalia), XV, b 414, a 417–20
EMBALMING, VIII, a b 146; (Alchemy), I, a 409; (Antiseptics), II, a 120; (Canary Islands), IV, a 703; (Egypt), VII, b 623; (Funeral Rites), IX, b 725, (Gannall), X, b 63; (Incense), XII, b 757, (Mummy), XVII, b 26–7
EMBANKMENT, VIII, b 146; (Gaur), X, *b* 102; (Railway) (Ill.), XX, b 240-1; (Water Supply) (Ill.), XXIV, a 428; channel (River Engineering), XX, b 587–8. See Levee
Embargo (International Law), XIII, a 200; (Gallatin), X, b 36; of 1807 (United States), XXIII, b 807
Embassy (International Law), XIII, a 197. See AMBASSADOR
Embden, town. See EMDEN
EMBER DAYS and EMBER WEEKS, VIII, b 146; (Fasting; IX, b 42, b 43
Emberiza, genus (Birds), III, b 621
Emberizidæ, family (Birds), III, a 647, a 648, note, b 646, a 649, b 651, a 653, a 673; (Bunting), IV, a 470
EMBEZZLEMENT, VIII, a b 147; (Possession), XIX, b 577; (Theft), XXIII, a b 251
Embidæ, family (Insects), XIII, b 158
Embiotocidæ, family (Ichthyology), XII, b 698, a 716, b 717, a 718, a 730
Embisk, province (Uralsk), XXIV, a 11
Emblemata Tribonii (Justinian I.), XIII, a 804
EMBLEMENTS, law terms, VIII, b 147–8; (Landlord and Tenant), XIV, a 275
Emblemes, poem (Quarles), XX, *b* 165
Emboli, arcades (Constantinople), VI, a 271
Embolism, disease (Ophthalmology), XVII, a 806; (Surgery), XXII, a 719
"Embolism," prayer (Missal), XVI, a 532, b 534
Embolite (Mineralogy), XVI, a 400
EMBOSSING, VIII, a 148; (Calender)(Plate XXXII), IV, b 605–6; (Enchasing), VIII, a 173
Embracing (Salutations), XXI, a 248
Embrasure (Fortification) (Ill.), IX, *a* 381
Embrethite (Mineralogy), XVI, b 411
EMBROIDERY, VIII, a 148–50; (Antrim), II, a 126; (Cotton), VI, *b* 445–6; (Fine Arts), IX, b 184; (France), a 460; (India), XII, a 801; (Japan), XIII, b 598, a b 602; (Lace), XIV, b 184, note; (Newtownards), XVII, a 462; (St. Gall), XXI, a 178; (Switzerland), XXII, a 818; gold and silver (Janina), XIII, a 575
EMBRUN, town, VIII, a 150
Embryo, animal (Mammalia) XV, b 371–2; (Morphology), XVI, b 869; anemone (Corals), VI, a 329; of cavolinia (Mollusca) (Ill.), XVI, b 691; of Cephalopoda (Mollusca) (Ill.), a 708, a 710; of Cuttle-fish (Mollusca) (Ill.), a 686; Linnæus (Mollusca) (Ill.), a 660, a 687; of oyster (Mollusca) (Ill.), a 661; of Paludina (Mollusca) (Ill.), a 662; of Pisidium (Mollusca) (Ill.), a 720, b 721; rotation in ova of (Leeuwenhoek)(Ill.), XIV, b 412; of slug (Mollusca) (Ill.), XVI, a 686; of tapeworm (Ill.), XXIII, a 57, b 59, a 60; of Trematoda, a 574
—— vegetable, buds (Botany) (Ill.), IV, b 86, a 133, a 141–3; (Grasses) (Ill.), XI, a *b* 51; sac (Botany) (Ill.), IV, b 132, b 139, b 140
Embryological classification of Articulates, II, a b 566; growths, morbid (Pathology) (Ill.), XVIII, b 373–9; (Monster), XVI, b 788
EMBRYOLOGY, VIII, 150–6
    bibliography, b 154–5
    invertebrates, b 155–6
    history, a 151–5
        eighteenth century, a 151–2
        modern, a 153–5
        Remak-period, a b 154
        primitive, a 151
        von Baer period, b 152-3
    nature of, a 150
—— (Actinozoa), I, *b* 120, a 122; (Amphibia), b 674–5; (Anatomy), a 728–30, a 739, b 753, b 757–8, a 782, b 797–8; (Crustacea) (Ill.), VI, b 568–77; (Echinodermata), VII, a 544, b 546, b 548–9, a b 550, a b 552, a *b* 555; (Harvey), XI, b 451–2; (Ichthyology), XII, b 671; (Leech), XIV, a 403; (Malpighi), XV, b 340, a 341; of Metazoa (Animal Kingdom), II, b 46; (Myriapoda), XVII, b 123-4; (Nemertines), b 338, a b 340; (Reproduction), XX, a 431–5; (Reptiles), a b 477, b 478; (Rotifera), XXI, b 11; (Sponges), XXII, b 441–2, *b* 444; (Trematoda) (Ill.), XXIII, b 571–2, b 573, b 574; (Tunicata) (Ill.), a 652–3, b 655, a 658; (Zoology), XXIV, a b 849, *b* 853, b 855, a 857. See Embryo
Embryonic forms (Mollusca) (Ill.), XVI, b 659, b 662, a 686; reversion (Pathology), XVIII, b 367–8
EMDEN or Embden, town, VIII, a 156; (Hanover), XI, b 398, *b* 399
Emeer, title (Arabia), II, a b 217. See Amir and Emir
EMERALD, precious stone, VIII, a b 156; (Beryl), III, a 530; (Colombia), VI, b 138; (Mineralogy) (Ill.), XVI, a 390, a 401, a b 436; (Mining), b 493; nickel (Mineralogy), a 416; imitation (Glass), X, b 579 note
Emerald table (Alchemy), I, *b* 409
—— type (Typography), XXIII, b 743
Emeri, Michel Particelli, Sieur d', financier (France), IX, b 504
EMERIC-DAVID, Toussaint Bernard, archæologist, VIII, b 156–7
Emerisch, historian (Saxony), XXI, *a* 375
Emerson, Ralph Waldo, philosopher, *b.* 1803, *d.* 1882 (American Literature), I, b 631, b 639–41, b 642, a 643; (Macaulay), XV, a 131; (Montaigne), XVI, a 798; (Mysticism), XVII, a b 142; (Ossoli), XVIII, b 60, a 61; (Ripley), XX, *a* b 582; (Very), XXIV, b 877, a 878
EMERSON, William, mathematician, VIII, a 157
EMERY, mineral, VIII, a b 157; (Mineralogy), XVI, a 401; grinder (Machine Tool) (Ill.), XV, b 157–8; polishing (Glass), X, a 591; trade (Smith, J. L.), XXII, a 912
—— wheels (Glass), X, a 594; (Grindstone), XI, a 181; (Iron), XIII, b 339
——, A. H., testing machine of (Strength of Materials) (Ill.), XXII, a 627, 628
Emesa, town (Hems), XI, b 579; (Palmyra), XVIII, b 205 note, a b 206; (Syria), XXII, *a* 862
EMETICS, VIII, b 157; (Opium), XVII, b 815
Emetine, alkaloid (Ipecacuanha), XIII, b 216
EMEU, bird (Ill.), VIII, b 157–9; (Australia), III, b 97; (Birds), *a* 616, a 618, a 622, a *b* 623, a 625, a 630, a 642, a 643, note, b 671
"Emigrants" (Mohammedanism), XVI, a 575, b 577, b 579, a b 582, b 584, a b 586
EMIGRATION, VIII, a 159–63
    ancient forms of, b 159–60
    British modern, a b 160
    causes of, a b 159, b 161
    political aspects of, b 160–2
    restriction of, a 162
    statistics, a 162–3

—— (Bulgaria), IV, b 462; (California), a b 621; (Camisards), b 657; (Caucasus), V, *a* 224; (Circassia), b 689; (Communism), VI, b 192; (Cork), b 358; (England), VIII, a b 201; (Genoa), X, a 141; (Germany), a b 410; (Hamburg), XI, a 364; (Hebrides), b 542; (Holland), XII, a 78; (Huguenots), a 353; (Iceland), a 657, (Ireland), XIII, a b 243, b 276; (Italy), a b 459; (Limerick), XIV, a 656; (Longford), b 874; (Louth), XV, b 27; (Malthus), b 347; (Mecklenburg), b 786; (New York), XVII, b 468, b 472, a 475; (New Zealand), a 484; (Pacific Railroads), XIX, b 916, a 918; (Portugal), b 552; (Prison Discipline), a 772; (Quarantine), XX, b 162, a 164; (Russia), XXI, b 89; (Scotland), b 552; (Swatow), XXII, a 772; (Switzerland), b 817; (Western Australia), XXIV, *a* 537; (Young), b 793. See Immigration
Émigrés (France), IX, b 528, b 529, b 531; (Vergniaud), XXIV, b 178, return of (France), IX, b 541
Émile (Education), VII, a b 586, b 587; (France), IX, a 522, b 586; (Rousseau, J. J.), XXI, a *b* 31, b 32, a 33
Emilia Galotti, play (Drama), VII, a 382; (Germany), X, b 479; (Lessing), XIV, b 481
Emilian dialect (Italy), XIII, *a b* 503
—— Way (Italy), XIII, b 444; (Rome), XX, b 829
Emilie de Coulanges (Edgeworth, Maria), VII, b 567–8
Emilio, Paolo, historian, I, a 165
Eminence, conditions of (Burke), IV, a 482
Emir of the Emirs, title (Mohammedanism), XVI, b 609, a 610
Emir-dagh, range (Asia Minor), II, a 617
Emler, Joseph, historian (Slavs), XXII, b 162
Emlyn, Thomas, confessor (Unitarianism), XXIII, a 774
Emma of Normandy, queen of England (Edward the Confessor), VII, b 591; (Normandy), XVII, *a* 556; (Ordeal), b 843

Emma mine (United States), XXIII, a 868
Emmanuel. See Emanuel, Immanuel and Manoel
Emmanuel bar Shahhārē, monk (Syriac Literature), XXII, b 893
—— college (Cambridge, town), IV, a 647; (Universities), XXIII, b 908; (Chaderton), V, *a* 322
Emmanuele I., Carlo, duke of Savoy, V, b 370; (Geneva), X, b 134; (Italy), XIII, b 493–4; (Savoy), XXI, a 357
—— II., Carlo, duke of Savoy (Milton), XVI, b 345; (Savoy), XXI, a 357; (Waldenses), XXIV, b 345. See CHARLES EMMANUEL
Emmanuel Philibert, duke of Savoy (Italy), XIII, a b 493; (Savoy), XXI, a 357; (Switzerland), XXII, b 829
EMMAUS, village, VIII, a 163; (Africanus, Julius), I, a 244; (Tiberius), XXIII, a 356
Emme, river (Bern), III, *b* 518
Emmenthal, district (Bern), III, *b* 518
EMMERICH, town, VIII, a 163; town (Guelderland), XI, a b 216
——, Anna Katharina, nun (Stigmatization), XXII, a 578
EMMET, Robert, patriot, VIII, a b 163; (Dublin, city), VII, a 434
——, Thomas Addis, lawyer, VIII, b 163
EMMIUS, Ubbo, historian, VIII, b 163
Emmonite (Mineralogy), XVI, a 415
Emmons, S. F., geologist (Mining), XVI, b 492; (Surveys), XXII, a 937, *a* 938
Emodin, extract (Rhubarb), XX, b 644
Emodus, mountains (India), XII, a 770
Emona, or Æmona, ancient town (Laibach), XIV, b 216
Emory, W. H., astronomer (Surveys), XXII, *a* 936
Emotion, expression of (Poetry), XIX, b 274–5; law of (Poetry), b 282–3; in religion (Theism), XXIII, b 264, a 265, a 267
Emotional action (Psychology), XX, a 77–9; diseases (Insanity), XIII, a 112–3; (Pathology), XVIII, b 394, a 395; explosions (Pathology), a 400; proof (Rhetoric), XX, b 526
EMPEDOCLES, philosopher, VIII, b 163–4; (Alchemy), I, a 403; (Aqueduct), II, b 191; (Evolution), VIII, a 662; (Lucretius), XV, b 54, a 55; (Parmenides), XVIII, b 320, b 322; (Rhetoric), XX, *a* 523; (Sicily), XXII, *a* 22; (Sophists), b 277
EMPEROR, title, VIII, b 164–5; (Napoleon I.), XVII, b 214; (Titles of Honor), XXIII, a b 445
—— (Brazil), IV, b 211, *a* 212, a 214; (China), V, a 559, *a* 568, a 572, b 579–80; (Delhi), VII, b 41–2; (Germany), X, *b* 416, a 420, a 460; (Russia), XXI, b 77
——, Holy Roman, VIII, a 165; (Conclave), VI, a 213; (Crown), a b 547; (Diet), VII, b 173-4; (Frankfort), IX, a b 621; (Germany), X, a b 430, b 434–5; renunciation of title (Austria), III, a 116; (Metternich), XVI, b 208. See EMPIRE
——, Roman, VIII, b 164–5; (Augustus), III, a 70; (Comitia), VI, b 175; (Consul), b 280; (Council), *a* 454; deification of (Apotheosis), II, a 175; (Prætorian), XIX, *b* 676; (Tribune), XXIII, b 593; magistracy of (Roman Law), XX, *a* 724, a 725, a b 729, a 731; offences against (Treason), XXIII, a b 559; table of (Rome), XX, b 799. See EMPIRE, Imperator
Emperour, Martin, printer (English Bible), VIII, b 344
Empfindungen eines Christen (Wieland), XXIV, a 590
Emphasis (Speech Sounds), XXII, b 398–9
EMPHYSEMA, ailment, VIII, b 165–6; (Bronchitis), IV, a 328
Emphyteusis, tenure (Entail), VIII, b 401–2; (Italy), XIII, b 469, a 470; (Landlord and Tenant), XIV, b 273; (Roman Law), XX, a 733
EMPIRE, VIII, a b 166. See specific names of empires
——, Eastern (Constantine VII.), VI, a 269; (Crusades), b 55–6; (Nicephorus I.), XVII, a 495; depression (Greece), XI, b 101–2; organization of (Greece), a 104–5. See Byzantine Empire
——, German, X, a b 409, a 453, a 460; proposed in 1848, a b 455. See Austrian Empire, Emperor, German Empire, Holy Roman Empire
——, French, first (France), IX, a 542-4; (Napoleon I.), XVII, a b 232; second (Broglie), IV, b 324; (France), IX, b 548; (Napoleon III.), XVII, b 234–5. See EMPEROR, French Empire
——, Holy Roman (Charlemagne), V, a 350; (Concordat), VI, a b 215; (Crown), a b 547; (Germany), X, a b 430, b 434–5; (Golden Bull), a 674; (Nicephorus), XVII, a 495; (Otho I.), XVIII, b 69; (Switzerland), XXII, b 819, a b 820, b 827–8, b 830; decay of (Germany), X, b 449-50; papacy and (Rome), XX, b 804–5. See Austrian Empire, EMPEROR, German Empire, Holy Roman Empire
——, Indian. See Indian Empire
——, Roman (Constantine I.), VI, b 268; (Government), XI, b 11–2; coins of (Numismatics), XVII, b 670-2; organization of (Rome), XX, b 787-91. See EMPEROR, Roman Empire
Empirical formulæ (Chemistry), V, b 409
Empirici, sect (Acron), I, b 112
Empiricism (Dogmatic), VII, a b 292; (Hume), XII, *a* b 365, a b 369; (Medicine), XV, b 811–2; psychological (Logic), XIV, a b 789, b 790, b 800–2
Emplectite (Mineralogy), XVI, b 410
Empleurum serratulum, plant (Buchu), IV, a 373
Employers, liability of (Tort), XXIII, a 484; in Massachusetts (Workingmen), XXIV, b 918–9; proprietorship in copyright of (Protection), XIX, a b 930. See MASTER AND SERVANT. LABOR AND LABOR LAWS. WORKINGMEN. Women, employment of
EMPOLI, town, VIII, b 166
Emporia, town (Kansas), XIII, a b 853
Emporiæ, colony (Numismatics), XVII, a b 651
Emporium, town (Spain), XXII, b 319
Empresas politicas (Saavedra Faxardo), XXI, a 131
Empress of Morocco (Settle), XXI, a 726
Empson, Sir Richard, lawyer (Henry VII., VIII., Eng.), XI., b 590, b 591
Emptio bonorum, prætorian process (Roman Law), XX, b 727
EMPYEMA, disease, VIII, b 166; (Pleurisy), XIX, a 234, a 235
Ems, river (Germany), X, *a* 403, a 404, b 420; (Hanover), XI, b 398–9; (Westphalia), XXIV, *a* 545
EMS, town (Plan), VIII, b 166–7
Emu, bird. See EMEU
Emulsine, chemical substance (Fermentation), IX, b 84
Emulsion, ferment (Physiology), XIX, b 57; processes (Photography), XVIII, b 840-3
Emvda, genus (Reptiles), XX, a 481
Emys, turtle (Reptiles), XX, a *b* 459, b 468, a 469, a *b* 479, *b* 480, b 481, a *b* 483, *a b* 485, notes; (Tortoise), XXIII, b 486
Enabling and Disabling Acts (Statute), XXII, b 486
Enaghmagh, tribes (Indians), XII, a 867
Enaliornis, genus (Birds), III, a 632
ENAMEL in art, VIII, b 167–70
bibliography, b 169–70
Byzantine, cloisonné work, a 169
champ-levé work, a b 168
definition, a 167
de plique à jour, a 168
origin of, b 167–8
Italian, b 168
Limoges work, b 168–
manipulation, a b 169
miniature style, a 169
—— (Bone), IV, b 29; (Brasses), b 197; (Japan), XIII, b 600, a 602; (Jewellery), b 689; (Metal-Work), XVI, b 78, b 80, b 83; (Mosaic), b 876; (Robbia), XX, a *b* 605, *a* b 606, a 607; (Venice), XXIV, b 164, a 165; champlevé, VIII, a b 168; (Sculpture), XXI, b 585; flowers (Flowers, Artificial), IX, a 305; prehistoric (Cave), V, a 235. See Cloisonné, Encaustic art, Niello
—— Glass, X, b 594; mediæval (Glass), a b 599; modern use of (Glass), a b 600; Roman (Glass), b 578, a b 579
—— of teeth (Digestive Organs) (Ill.), VII, b 203, b 204, b 205, a b 206; (Mammalia), XV, *b* 352
Enamelled Iron, XIII, b 367–8; Leather, XIV, a 388
—— ware (Palissy), XVIII, b 190, a 191; (Pottery and Porcelain) (Ill.), XIX, a b 618, a b 620, a 621, a b 622, a 624, b 626, a 644, a b 648, a b 649, a 650, *a* 654
—— statuettes (Terra-Cotta), XXIII, a 209; (Tiles), a b 415
Enantiomorphism (Polarity) (Ill.), XIX, b 325-7
Enare, lake (Finland), IX, b 188, *a* 189; (Lapland), XIV, a 305
Enargite (Mineralogy), XVI, a 412
Enarians or Anarians, diviners (Scythia), XXI, a 603, note
"Encænia" (Oxford), XVIII, b 98
ENCAUSTIC PAINTING, VIII, a 170-1; (Archæology), II, b 315, a 318; (Mural Decoration), XVII, b 44, a 49. See ENAMEL, NIELLO
ENCAUSTIC TILES, VIII, a 171–3; (Brick), IV, a 253; (Tiles), XXIII, a b 415
Encephalic nerves (Anatomy), I, a 773-5
Encephaloid Cancer, IV, a 707
Encephalon. See Brain
Enchanter Maugis (Romance), XX, *a* 669; Virgil (Romance), XX, a b 657
Enchantment. See Amulet, Charm, Conjuring, Divination, Exorcism, Sorcery, Talisman
ENCHASING or chasing, VIII, a 173. See Chasing
Enchastraye, mountain (Alps), I, b 545, b 547, a 548
Enchiridion Musicæ (Hucbald), XII, *a* 343
Enchondroma, tumor (Pathology) (Ill.), XVIII, a b 377
Enchorial writing (Egypt), VII, b 625; (Hieroglyphics), XI, a b 709
Enchytræidæ, family (Worm), XXIV, b 712, a b 713, a 714, a *b* 715, b 716, a 718
ENCINA, Juandel, dramatist, VIII, a b 173; (Drama), VII, a 363; (Spain), XXII, a 370
Enciso, Martin Fernandez, explorer (Balboa), III, *b* 236; (Geography), X, *a* 163
ENCKE, Johanna Franz, astronomer, VIII, b 173; (Comet), VI, a 170, *a* b 171, a 173; (Tables), XXIII, b 19

- Encke's comet (Astronomy), II, b 712, a b 713; (Comet), VI, a b 171; (Pons), XIX, a 468
- Encoge, town (Congo), VI, *a* b 237
- Encomia (Isocrates), XIII, a 403
- "Encomiendas," feudal grants (Peru), XVIII, a 691
- *Encomium Moriæ* (Holbein), XII, b 56
- Encoubert, species of armadillo (Mammalia), XV, a 390
- Encounter bay (South Australia), XXII, a 297, b 299, a 300
- Encratites, sect (Aquanans), II, b 189; (Tatian), XXIII, b 87
- Encrinite rock (Geology), X, b 213
- ENCYCLOPÆDIA, VIII, 173–86
  - *American*, a 186
  - application of name, a 174
  - *Britannica*, a 182–4
  - Chambers, E., b 178–9
  - classical, b 173–4
  - Dark Ages, b 174–5
  - eighteenth century, b 178–82
  - *Encyclopédie*, b 179–82
    - *Methodique*, b 184–5
  - German, a 185–6
  - Middle Ages, a 175–6
  - recent British, a 186
  - seventeenth century, b 176–7
  - sixteenth century, a b 176
  - *Speculum Majus*, a b 175
  - Zedler, a b 179

- *Encyclopædia*, Alsted's, I, a 561; VIII, b 176–7; *Americana*, a 186; (Lieber), XIV, b 567
- ——, Arabic II, *b* 234; (Hajji Khalfa), XI, *b* 337–8; (Tabarí), XXIII, a 9
- —— *of Architecture* (Gwilt), XI, a b 309
- —— *Britannica*, VIII, a 182–4; (Browne, James), IV, a 350; (Brewster), b 246; (Constable), VI, b 263; (Gleig), X, a b 604; (Herschel, John), XI, b 687; (Mill, James), XVI, b 319; (Moir, G.) a 630; Reprint of (Protection), XIX, b 930
- —— earliest English, VIII, a 178; (Harris), XI, a 441
- ——, Ersch and Gruber's, VIII, b 185–6; (Gruber), XI, a 199
- —— *Metropolitana*, VIII, a 186; (Tables), XXIII, b 18, b 19; (Talfourd), b 34
- —— *of Oriental Literature*, (Hammer-Purgstall), XI, *b* 381–2
- —— *of the Philosophical Sciences* (Hegel), XI, *b* 549, a 550, a b 551, a 553
- Encyclopædias, Chinese, V, b 575, b 576; copyright of (Protection), XIX, a b 930; mediæval (Scholasticism), XXI, b 437, b 445; of Theology, XXIII, b 291–2, note
- *Encyclopédie*, VIII, b 179–82; (Bacon), III, b 182 note; (Diderot), VII, b 168–9; (France), IX, a 522, b 599; (Holbach), XII, *a* 55; (Malesherbes), XV, b 335; (Political Economy), XIX, b 371, b 373; (Turgot) XXIII, a 670; (Voltaire), XXIV, a 311, a 313
- —— *Méthodique* VIII, b 184–5; (Ornithology), XVIII, b 10
- Endau river (Malay Peninsula), XV, b 323, a 324
- End-bulbs of Krausse (Touch) (Ill.), XXIII, b 509–10, b 512
- Ende, Franzvan den, physician (Spinoza), XXII, a 415
- Endeavor, river (Australia), III, a 93; (Queensland), XX, *a* 178
- Endeh, island (Flores), IX, a 295
- Endemics (Goitre), X, a 658; (Madura), XV, a 194; (Malaria), b 320–1; (Pathology), XVIII, a 403; (Plague), XIX, b 171, b 173
- Enderby expeditions (Polar Regions), XIX, a b 342
- Enderi, town. See ANDREEVA
- Enderlein, Gaspar, silversmith (Plate), XIX, b 195
- Endicott, John, governor (Quakers), XX, b 158
- *Endimione*, epithalamium (Metastasio), XVI, a 109
- ENDIVE, plant, VIII, a b 186; (Chicory), V, b 534; (Horticulture), XII, b 294
- Endless chain traction (Coal), VI, a 65
- —— screws (Mechanics), XV, a b 769
- Endlicher, Stephen Ladislas, botanist (Biology), III, a 599
- Endo-arteritis, disease (Pathology), XVIII, b 396
- Endocarditis, disease (Pathology), XVIII, b 400; (Rheumatism), XX, b 531
- Endocardium (Anatomy), I, b 790, *a* 792
- Endochone (Sponges), XXII, b 431
- Endochrome (Diatomaceæ), VII, a b 147
- Endoderm, tissue (Animal Kingdom), II, a 46, b 48; (Histology), XII, b 21; (Corals), VI, a *b* 327, b 328; (Embryology), VIII, b 150, a 156; (Sponges) (Ill.), XXII, a 428, a *b* 429, a b 435
- —— cells (Hydrozoa), XII, a *b* 581, note, b 582, a b 583, a b 584, b 586, b 587, b 588, note; (Physiology), XIX, b 17–9
- Endœus of Athens, sculptor (Archæology), II, a 307
- Endogamy (Caste), V, a b 163; (Ethnography), VIII, a 544; (Totemism), XXIII, b 503
- Endogenous acute infective diseases (Pathology), XVIII, a 413
- —— stems (Botany) (Ill.), IV, b 88, a 92–4
- Endolymph (Anatomy), I, *b* 784, b 785, a 786
- Endomorphs, crystals (Mineralogy), XVI, *b* 387
- Endoparasitism, XVIII, b 265, a 266
- Endophlœum layer (Botany), IV, b 90
- Endoplasm (Histology), XII, a 6, a 13
- Endoplast and endoplastula (Animal Kingdom), II, *a* 46; (Foraminifera), IX, a b 325
- Endoplastica, group (Animal Kingdom), II, b 45–6
- Endopleura or tegmen (Botany) (Ill.), IV, b 139, a 140
- ENDOR, town, VIII, b 186
- Endorse (Heraldry) (Ill.), XI, b 618
- Endorsement (Bill), III, a b 582
- Endosarc (Animal Kingdom), II, a 46; (Foraminifera), IX, a b 325
- Endoscope in surgery (Vesical Diseases), XXIV, a 204, b 206
- Endo-skeleton (Anatomy), I, a 719
- Endosmose, electric (Electrolysis), VIII, b 104
- Endosome, tissue (Sponges), XXII, b 431
- Endosperm, tissue (Botany), IV, b 140–1; (Grasses) (Ill.), XI, a *b* 51; (Histology), XII, b 15, *a* 16
- Endospore (Lichens), XIV, a 558
- Endosporeæ, order (Protozoa), XIX, b 862–3; (Schizomycetes), XXI, b 423
- Endosteum (Anatomy), I, a 750
- Endostyle (Tunicata), XXIII, a 650, a 653, b 654
- Endothelium (Anatomy), I, a 743, b 744–5, b 755
- Endothyrina, order (Protozoa), XIX, b 870
- Endotrichea, sub-order (Protozoa), XIX, a 863
- ENDOWED SCHOOLS ACTS, VIII, b 186–7
- Endowment (Annuities), II, b 68–70; (Life Insurance), XIII, a 175
- Endowments (Government), XI, a b 18; ecclesiastical (Scotland), XXI, a b 565
- Endrick water or river (Stirling), XXII, a 581
- Endrödy, Alexander, poet (Hungary), XII, b 393
- ENDYMION, myth, VIII, a 187
- *Endymion*, poem (Keats), XIV, a *b* 24, a 26
- *Endymion, Sleeping*, painting (Girodet de Roussy), X, a 556
- Ene, river (Apurimace), II, a 189
- *Eneas, Roman d'* (Romance), XX, a 655
- *Eneit*, poem (Germany), X, b 468
- *Enek Fannónia* (Hungary), XII, b 390
- Enemata, applying (Veterinary Science), XXIV, b 218
- *Enemies, How to Get Benefit Out of* (Plutarch), XIX, a 245
- Energetics, applied (Mechanics), XV, b 782–4; definition of (Physical Sciences), XIX, a 6
- ENERGY, VIII, 187–92
  - conservation of, b 188–9
  - definitions, a b 187
  - electro-motive force, a b 191
  - gas compression and expansion, a b 190–1
  - kinetic, a b 188
  - mechanical equivalents of heat, a 189–91
  - potential, b 187–8
  - utilization of, b 190–2
- —— (Dynamics), VII, b 504; (Electricity), VIII, b 51; (Mechanics), XV, b 755, a b 756, b 774, a 778, a 779–81, a 783–4
- —— developed or absorbed (Chemistry), V, a 411
- ——, differential equation of (Elasticity), VII, a b 714
- ——, dissipation of (Atom), III, a 38; (Diffusion), VII, a b 191; (Elasticity), b 695–6; (Mechanics), XV, b 728; (Thermodynamics), XXIII, a b 306, a 308; by friction (Tides), XXIII, a b 400
- ——, conservation of (Cartesianism), V, a 129; (Hydromechanics), XII, a b 487; (Mechanics), XV, b 742; (Mohr), XVI, b 629; (Nebular Theory), XVII, b 320. See DYNAMICS, Force, Forces, Kinetics, THERMODYNAMICS
- —— distribution of (Molecule), XVI, b 635
- ——, kinetic (Mechanics), XV, a 706, b 750
- ——, loss in shock of (Hydromechanics), XII, b 490–1
- ——, molecular displacement theory (Wave Theory), XXIV, b 473–4
- ——, periodical excess of (Mechanics), XV, a 780
- —— in plant growth (Physiology), XIX, b 62–4
- ——, poetic (Poetry), XIX, a 269
- ——, potential (Mechanics), XV, a 708, a 724, b 756, b 774
- ——, projection of (Mechanics), XV, b 780
- ——, sources of (Mechanics), XV, a 783–4; of bodily (Physiology), XIX, a b 13, a b 17
- —— of steam, internal (Steam-Engine), XXII, a b 503
- —— of the system (Attraction), III, a 56
- —— -test of equilibrium (Mechanics), XV, a 730
- ——, theory of (Mechanics), XV, b 723, a 727, a 730
- ——, transfer of (Mechanics), XV, a 685, a 735–6
- —— and work, equality of (Mechanics), XV, b 774
- Enerthenemea, sub-order (Protozoa), XIX, a 863
- *Enervés* (Jumièges), XIII, b 782
- Eneti or Heneti, tribe (Italy), XIII, a 456; (Paphlagonia), XVIII, b 231
- Enfans sans souci, company (Drama), VII, a 358; (France), IX, *b* 567, a 568, b 573; (Gringoire), XI, b 181
- ENFANTIN, Barthélemy Prosper, socialist, VIII, a b 192; (Saint-Simon), XXI, *a b* 208
- Enfants de Dieu (Cavalier), V, a 227
- Enfida estate, affairs of (Tunis), XXIII, b 661
- ENFIELD, town, VIII, b 192–3
- ——, town, Connecticut, VIII, a 193
- —— arsenal (Colt), VI, b 149
- —— rifle (Gunmaking), XI, a 554

Enfield royal gun factory (Arsenal), II, a 554
——, William, author, VIII, a 193
Enfilade (Fortification), IX, b 375
Enfleurage, process (Jasmine), XIII, a 606; (Oils), XVII, b 769, a 770
ENGADINE, valley, VIII, a 193-4; (Alps), I, b 551; (Grisons), XI, *a b* 182; (Switzerland ,XXII, b 815
Engagement oath (Presbyterianism), XIX, *b* 711
Engagers, political party (Scotland), XXI, b 535, b 536 note
Engano, island (Sumatra), XXII, b 672
Engedi, fountain (Dead Sea), VII, b 3, a b 4
ENGEL, Johanna Jakob, dramatist, VIII, a 194; (Germany), X, b 477
Engelberg, village (Unterwalden), XXIII, b 915, a 916
Engelbrecht Engelbrechtsson, patriot (Sweden), XXII, *a* 785
ENGELBRECHTSDATTER, Dorthe, poetess, VIII, a b 194; (Norway), XVII, a 604
Engelhardt, Baron von (Observatory), XVII, b 732
Engelman, German biologist (Protozoa), XIX, b 857, a 891; (Schizomycetes), XXI, a 424, notes
Engelmann, George, American botanist, *b*. 1809, *d*. 1884 (Surveys), XXII, *a* 936
Engelmann's refractor (Telescope) (Ill.), XXIII, a b 163, *a* 164, b 165
Engels, Friedrich, economist (Socialism), XXII, b 221, *a* 222, a 230, a 231, b 232
Engelstoff, historian (Denmark), VII, b 80
Engern, district. See Angria
Engerong, mountain (Celebes), V, b 251
Enghien, Duke of. See BOURBON
Enghien, Louis de Bourbon, general. (Condé), VI, a 218; (France), IX, b 515. See CONDÉ.
ENGHIEN, Louis Antoine Henri de Bourbon Condé, Duc d', VIII, b 194; (Savary), XXI, a b 340; Talleyrand), XXIII, b 36
Engia or Engina, island. See ÆGINA
Engineer and Railway Transport Corps (Volunteers), XXIV, a 316
ENGINEERING, VIII, b 194-5; (Madura), XV, a 194
—— and Architecture (Societies), XXII, b 238-9
——, mechanical (Hodgkinson), XII, b 43
ENGINEERING, RIVER (Plate V), XX, b 586-97
—— tools (Pyramids), XX, b 130
Engineers, Amalgamated Society of (Trades Unions), XXIII, b 532-3
—— of Austrian Army, II, a b 530
—— of British Army, II, b 504, a 507-8; (Fortification), IX, a 403
—— of Navy, XVII, 302, b 303
——, Russian Army, II, b 533
Engine-room deduction (Tonnage), XXIII, a 471
ENGINES, AMERICAN STEAM, XXII, b 920-6
——, electro-magnetic (Electricity), VIII, a 11
——, Fire, IX, b 205
—— Heat, XXII, b 496-502. See Air and Gas Engines
——, marine (Ill.), XXII, a 543-7; (Shipbuilding), XXI, a b 862-3
—— in Mining, XVI, b 479, a 480
——, underground (Coal), VI, b 64-5
——, water-pressure (Hydromechanics) (Ill.), XII, a b 550. See Steam Engines
ENGLAND, kingdom (Plate V), VIII, a 195-331
- GEOGRAPHY and STATISTICS, a 195-238
  - agriculture, a 203-4
  - army, b 221-2
  - cabinet, a b 236
  - charities, a 229-32
  - civil divisions, a 197-8
  - coal, a 205-6
  - commerce, a 211-3
  - crime, b 226-8
  - education, a 225-6
  - emigration, a b 201
  - expenditure, b 220-1
  - fisheries, b 211
  - government, b 234-7
  - index, 237-8
  - iron, a 206-7
  - judiciary, b 235-6
  - land proprietors, b 201-3
  - mineral wealth, b 204-8
  - navy, b 222-3
  - parliament, a 235-6
  - pauperism, a 228-9
  - physical features, a 195-7
  - population, b 198-200
  - postal service, b 216-7
  - religion, a 223-5
  - revenue, b 218-21
  - shipping, b 213-4
  - telegraphs, b 217-8
  - textile products, a 208-11
  - transportation, a 214-6
  - vital statistics, b 200-1
  - wealth, a 232-4
- HISTORY (Plates II-V), a 238-331
  - A'Becket's quarrel, b 274-5
  - aboriginal Britons, b 238-9, a b 241, a 244
  - Alfred, period of, a 256-7
  - alliances of Henry VIII, b 297-8
  - American contention, b 319-21
  - Anglian settlements, b 244-6
  - Anne, reign of, b 316-7
  - Anselm's cause, b 273
  - architecture, Norman, b 270-1

ENGLAND, *continued*
- HISTORY
  - Barons' war, b 279-80
  - buildings, Elizabethan, b 307-8
  - cabinet government, rise of, b 315-6
  - Canute, empire of, b 259-60
  - chancellors, table of Lord, a 329-30
  - character of Norman conquest, a b 264
  - Charles I., b 309-12
  - Charles II, b 312-4
  - Christian conversion of, a 251-4
  - Church, the Teutonic, a 252-4
  - civil war, Stuart, b 311-2
  - coalitions against France, b 323-4, a b 325
  - commerce, rise of, a 307
  - Commons quarrel with James I., b 308; rise of House of, b 282-4
  - Commonwealth, a b 312
  - Constitution under Edward III., a 289-91
  - Cromwell's administration, Thomas, a 300-2
  - court of William I., b 267-9
  - Danish invasions, b 256-60
  - despotism, Tudor, a b 298, a b 302
  - Eadgar to Æthelred, b 258-9
  - ecclesiastical patriotism, Henry III., b 284-5
  - ecclesiastical position of Elizabeth, a b 306
  - ecclesiastical relations, Norman, b 266, a 269
  - Ecgberht, house of, b 255-6
  - Edward the Confessor, a b 261
  - Edward I., a 280-2, a 284
  - Edward II., a 282
  - Edward III., a 282-7
  - Edward IV., a b 294
  - Edward VI., b 303-5
  - Elizabeth, reign of, b 305-8
  - English race predominates, b 269, b 272
  - Establishment of the Church, b 305-6
  - Europe, period of Henry II., b 277-8; in Tudor times, b 295-7
  - feudalism, a b 267, b 272-3
  - Fox and North coalition, a b 321
  - French crown, claim to the, b 285-6
  - French influence on Angevine arts, b 278-9, b 384

ENGLAND, *continued*
- HISTORY
  - French revolution, b 322-3
  - George I., a 317-8
  - George II., a 318-9
  - George III., b 319-26
  - George IV., a 326-7
  - Harold II., period of, b 261-2
  - Heathenism, Teutonic, a 242
  - Henry I., reign of, b 271-9
  - Henry II., a 272-5
  - Henry III., b 279-80
  - Henry IV., b 287-8
  - Henry V., a 288
  - Henry VI., a 288-9, a b 294
  - Henry VII., a b 295
  - Henry VIII., b 297-303
  - Heptarchy, a 244-5
  - Hundred Years' War, b 286-7, b 289
  - index, a 328-9
  - India bills, Fox and Pitt, b 321, a 322
  - Ireland, Angevine Conquests in, a 278
  - Irish Union period, b 324-5
  - James I., a 308-9
  - James II., a b 314
  - John, reign of, b 275-6
  - Jute settlements, b 243
  - kingship, development of, b 247-8, a b 254, a b 257
  - language, ascendency of English, b 292-3; introduction of Old English, a b 246, b 253; of Norman period, b 269-70
  - land tenures, Norman, b 264-5, b 268-9; Teutonic, b 248-9
  - Latin influence on arts, a b 253
  - Laud's ecclesiasticism, b 310-1
  - law, Old English, a b 250
  - legislation, Angevine, a 276-7
  - legislative changes, Norman, b 265-6, b 267-8
  - legislature, Teutonic, b 249
  - liberty, settlement of constitutional, a b 315
  - low-Dutch invaders, b 242-6
  - Magna Charta, a 276-7
  - marriages of Henry VIII, b 301-2
  - Mary, queen, b 303, b 304-5
  - meaning of name, England, a b 238
  - Mercia, rise of, a 245, a 255
  - monasteries, suppression of, a b 301, a 308
  - monasticism, Norman period, b 273-4; rise of, b 253-4

ENGLAND, *continued*
- HISTORY
  - Norman conquest, b 262-71; matrimonial alliances, a 250, b 260
  - Northumbria, growth of, b 245-6, a 255
  - parliament in 13th century, a 289-91; rise of representative, a 277
  - Peninsular war, b 326-7
  - Pitt's ministry, the younger, b 321-5
  - plague and peasantry, a 292
  - political order, Teutonic, b 246-7
  - *Prayer Book* period, b 303-4, b 305-6
  - prose, rise of English, a 258
  - reconciliation of Mary with papacy, a b 305
  - Reformation, Protestant, b 298-9, a 302, a b 303
  - reform and chartist period, a b 327
  - reforms of Alfred, b 257-8
  - religion, Teutonic, b 250-1
  - renaissance in England, a 297
  - restoration of Charles II., b 312-3
  - Richard I., a b 275
  - Richard II., a b 287
  - Richard III., b 294-5
  - Roman period, a 239-40
  - royal prerogative, 13th century, a b 290
  - Saxon settlements, b 242-4
  - Scotland and Wales, Henry II., a 274
  - Scottish wars, Edward I., b 280-2
  - Secretaries of State, list of, a 330-1
  - Seven Years' war, a b 319
  - sixteenth century language, a b 307
  - Social classes, Teutonic, a b 248; results of Norman conquest, b 268-9; strifes under George IV., a b 326
  - sovereigns, table of, a 329
  - Stephen and Matilda, b 272
  - Summary of period 100 years' war, a 293
  - taxation of Charles I., a b 310; rise of representative, a 284
  - Teutonic settlement of, b 240-6
  - thirteenth century literature and art, a b 285
  - toleration under Charles II., b 312-3
  - towns, Teutonic, b 249-50

ENGLAND, *continued*
- HISTORY
  - treasurers, table of Lord, a b 330
  - Wales, conquest of, a b 280
  - War of the Roses, b 293-4, a 296
  - warfare, Norman, a 271; thirteenth century, b 285
  - Wessex, growth of, a 245, b 254, b 255, a b 256-7; monarchs restored, a 261
  - Wickliffe movement, a 291-3
  - William I., character of, b 264-5; invasion of, b 262-3
  - William II., Rufus, b 263-4, b 271
  - William IV., a b 327
  - William and Mary's reign, b 314-6
  - Wolsey's administration, b 299-300
  - Victoria, reign of, b 327-8

—— (Abbey), I, b 19, a b 20, a 21, a 24-5, b 26. See ABBEYS, list of; (Algeria), I, *a* b 499; (Bribery), IV, a b 248; (Buccaneers), b 367, a 368, a 369; (Canada), b 686-7; (Cocoa), VI, a 93, a 94; (Commerce), b 179, a b 180; (Communism), a 192; (Constitution and Law), b 275-6; (Contraband), *a* 285; (Coöperation), a 301, a b 302; (Decimal Coinage), VII, b 19; (Duel), a b 442, b 443-4; (Education), VII, a b 589-90

—— (Exhibitions), VIII, *b* 702, a b 703; (Ferdinand IV., Naples), IX, b 69; (Ferdinand VI., Spain), b 72, a 73; (Ferdinand of Brunswick), b 74; (Feudalism), a b 105, a b 106, a b 107; (Finance), a 151, b 152-67; (Flag), b 242, b 243, a 244; (Flax), b 258-9; (Flour), *b* 301; (Font), a 317; (Forests), b 350, *a* 351, *a* 360-1; (Fortification), a b 397, b 398, b 401, b 413; (Foundling Hospitals), a b 427; (Fountain), a b 429; (France), a 514, a 517, a 533, a 538, b 540, b 541; (Freemasonry), b 658; (Free Trade), b 662, a 663, a 666, b 669; (Gunpowder), XI, b 283, a 284; (Harold III.), b 433-4; (Heraldry), b 608-37

—— (Holland), XII, b 80-1, a 83-4, a b 85; (Ichthyology), a 671; (Infanticide), XIII, b 5, a 6; (Insanity), a 105, b 116-7, a b 118, a b 119; (International Law), a b 198, a 199, a 200, a b 202; (Investiture), a 208; (Irrigation), b 372, b 373, b 374-7, a b 378-9, b 380; (Ivan IV.), XIII, b 529; (Ivory), b 531, note, a 532; (Jamaica), b 560, a b 561; (Jesuits), b 659, *a* 660, b 664, b 666-7; (Jews), b 694-5; (Knighthood), XIV, a 114-7, b 118, a *b* 121, a b 122-7; (Labor), XIV, b 169; (Libraries), a b 512, a *b* 513-21; (Meteorology), XVI, b 154. See British Islands; (Mexico), a b 903; (Metternich), b 207, a b 210; (Michelet), b 245; (Military Law), a 308-1; (Militia), a 312; (Monachism), a b 738; (Money), a b 764; (Napoleon I.), XVII, a 207, b 211, b 213-4, a b 215, a 219, b 221, *a b* 222, b 231-2; (National Debt), b 25, *a* 251; (Nobility), a b 538, *b* 542-3

—— (Paper), XVIII, b 222-3; (Paris), b 296; (Persia), a 648, a b 649, a b 659, a b 660 note, a b 662, a 664-5; (Popedom), XIX, b 508; (Ormuz), XVII, a 882; (Reformation), XX, a b 340, a 342-4, a b 349, a 350; (Regalia), b 352; (Renaissance), b 393, a b 399, b 404-5; (Roads and Streets), b 597-604; (Rude Stone Monuments), XXI, b 57, b 58; (Salt), b 239, a 241, b 242, a b 244, a b 245; (Shipping), b 864-7; (Silk), XXII, b 62-3; (Spain), b 346-7, a b 349, *a b* 350, *a b* 351, *a b* 352, *a* 353, *a b* 354, a b 356, a b 357, a *b* 358, b 359; (Stephen), b 560-1; (Suicide), b 662, *a b* 663-4, a 665; (Torture), XXIII, b 493-5; (Unitarianism), XXIII, b 773-4; (Veto), XXIV, a 224; (Weights and Measures), *b* 508, a 510, a b 511-2, *a* 512, *a* b 517

——, advantage of whipping (Scotland), XXI, a 511

ENGLAND, CHURCH OF, VIII, a 332-41
- British period, a b 332
- character of, a 332
- constitutional status, b 340
- ecclesiastical independence, age of, a b 334
- Elizabethan period, b 337-8
- formularies, a 339-40
- law, b 341-2
- Mediæval period, b 333-5
- modern period, a 339
- Reformation period, a 335-7
- Saxon period, b 332-3
- Stuart period, a 338-9
- treatises on, b 341

—— (Abbot), I, a 30; (Church), V, a b 664; (Diocese), VII, a 213; (Elizabeth), VIII, b 133; (Eucharist), a 574; (Europe), b 625; (Hermeneutics), XI, a 669; (Mural Decoration), XVII, b 50, b 51-2; (Music), b 95-6. See Church of England

——, Coal measures of (Plate I, II), (Ill.), VI, b 46-52

——, conversion of, alleged, VIII, a 251-2; (Augustine) III, a 69; (Gregory I.), XI, b 156

——, Danish settlements in (Normandy), XVII, b 552-3

——, definitions of, VIII, a b 238; name first used, a 255; (Northumberland), XVII, b 583; consolidation of Saxon (Athelstan), II, b 726. See references under Union

England and the English (Lytton), XV, a b 123, a 124

—— Hegel's criticism of, XI, a 551

—— *and its People, First Impressions of* (Miller, Hugh), XVI, a 332

——, racing in (Horse), XII, a 203-7

——, suppression of Knights in (Templars), XXIII, a b 180-1

——, survey of (Domesday), VII, a b 303-4

——, tenures in (Land), XIV, 264-6, a 267-71

England in Time of War, poems (Dobell), VII, a b 267

—— and United States, relation of (Florida), IX, b 298; (Protection), XIX, b 936-7; (Talleyrand), XXIII, a 36; discovery, VIII, a 297; colonists, characteristics of (United States), XXIII, b 783-4, b 788; colonial system, b 780-1, b 783, b 784-5, b 788; investments in, b 834-5; popular sympathy with, a 790; Revolutionary war VIII, b 319-21; XXIII, b 788-93; War of 1812, VIII, a 326; XXIII, a 806; b 807-9; *England and America* (Wakefield), XXIV, b 339-40. See Revolutionary War, SEWARD, War of 1812

England and Wales, Beauties of (Britton), IV, a b 321

England's New Chains Discovered (Lilburne), XIV, *b* 647

Englefield, Sir Francis, courtier (Shakespeare), XXI, b 789

English Almanac, I, a 521. See ALMANAC

—— arts (Fresco), IX, a 681; (Glass), X, b 581, *a b* 582, a 583, b 598, b 600; (Lace), XIV, *b* 185, b 187, *b* 188-9, b 190; (Metal Work), XVI, a 82-3, b 84; (Miniature), b 458; (Mosaic), b 878; (Mural Decoration) (Ill.), XVII, a 41, b 43, b 50, b 51-2; (Plate) (Ill.), XIX, a 196-8; (Pottery) (Ill.), b 642, a 651-2, b 660, a 664; (Schools of Painting), XXI, b 460-1, a b 464, a 465-6, a b 469; (Sculpture), b 584-8; (Terra-Cotta), XXIII, a 212; (Textiles), a b 228; (Wood Carving), XXIV, a 680-2. See separate titles of the arts

English Bards and Scotch Reviewers (Byron), IV, a 539 a 541

ENGLISH BIBLE VIII, b 341-9
- authorized version, b 347-8
- bibliography, a 349
- Bishops' Bible, a b 347
- Coverdale version, a b 345
- Geneva version, a 347
- Great Bible of Henry VIII., a 346-7
- language of manuscripts, a 342-3
- last revision, b 349

- ENGLISH BIBLE, *continued*
  - manuscript versions, b 341-3
  - Matthew's version, b 345-6
  - printing, rise of, b 343
  - Saxon period manuscripts, b 341-2
  - Taverner's version, a 346
  - Tyndale, a 344-5
  - Wickliffe-Purvey versions, a b 343

- —— (Apocrypha), II, a b 159, a 161; (Ecclesiastes), VII, *b* 539; (England), VIII, b 307; (English Language), a 357; (England, Church of), a 337. See BIBLE
- English Black Horse (Agriculture), I, b 341
- —— black Rat XX, a b 300
- —— bond (Building) (Plate XX) IV, a 412
- —— Channel (Atlantic Ocean), III, a 16 note; (Tides), XXIII, a 376, b 397-8; (Tunnel), b 663-4; command of (War), XXIV, b 384-5; current (Holland), XII, a 62; tides (Navigation), XVII, b 282, a 283
- *English Chronicles* (England), VIII, a 243, a 258; (Fabyan), a 738; (Godwine), X, b 640
- —— coast, length of, VIII, a 195
- —— coffee-houses, VI, a 101
- —— coins (Numismatics), XVII, a b 674. See Coinage, British
- —— comity, international style of (Argentine Republic), II, b 431, b 432; (Brazil), IV, b 206, a b 209; (Casaubon), V, a 152; (Ceylon), b 316-7; (China), a 565, a b 566; at Copenhagen (Denmark), VII, a 77; (Egypt), b 614, b 659, b 662, 664, a 665; (Fiji Islands), IX, *a* 139; (Gibraltar), X, a b 523; (Honduras), XII, a 137-8; (Hyder Ali), b 443, (Ionian Islands), XIII, b 212-3; (Joan of Arc), b 706-8; (Protection), XIX, b 936-7; (Scaliger), XXI, a 379; (Scotland), b 508-10, b 521-2; (Siam), b 894; (Smuggling), XXII, a b 195. See British aggressions
- "English Court" in Hamburg (Hagedorn), XI, b 329
- —— deterioration (Gymnastics), XI, b 311, b 312
- English Drama. See Drama, English
- —— explorers. See Explorers, British
- —— export laws, repeal of (Tallmadge), XXIII, b 919
- —— Fairs, VIII, b 742
- —— farmers (Agriculture), I, a *b* 365-6
- —— gluttony (Acclimatization), I, a 84
- —— greyhound (Dog), VII, b 284
- —— Helmets, XI, a 569
- —— hog, Old (Agriculture) (Plate IX), I, a 355
- —— Hymns, XII, b 623-30
- —— intellect, early in nineteenth century (Southey), XXII, b 303
- ENGLISH LANGUAGE, VIII, a 349-60
  - chronological chart, a 359-60
  - dialectic survivals, a b 358
  - literature, Old English, a b 351
  - Middle English, early, a 353-4; later, b 354-6
  - Modern English, a 357-8
  - Norman conquest, influence of, b 351-2
  - Old English, b 350-2
  - origin of, a 349-50
  - phonetic history, b 357-8
  - *Piers the Ploughman* to Caxton, a 355-6
  - stages of development, b 350
  - Teutonic sources, a b 350
  - transition to modern English, a 356; Old English, b 352-3
  - treatises on, a 361
  - Tudor stage, b 356-7. See Language, English

- —— law (Canon Law), V, b 20, b 21; (Divorce), VII, b 261-3, b 264-5; (Education), b 589-90; (Heresy), XI, b 659-60; (Husband and Wife), XII, b 416-7; (Judge), XIII, b 772-3; (Judgment), b 774; (Judicature), b 774-5, a 358, a 364-5, a b 366, a b 367; (Libel and Slander), XIV, b 504-6; (Mandate), XV, a 479; (Marriage), b 572-4, b 575, a 576; (Pleading), XIX, b 229, note; (Pledge), a b 232; (Real Estate), XX, b 317-20; (Roman Catholic Church), b 647-8; (Statute), XXII, b 485-8; (Sumptuary Laws), b 678; (Sunday), a 689-91; (Will), XXIV, a 602-4; (Witchcraft), b 653-4, a b 655; (Witness), *b* 657-8; (Women), a 674-6, a 677. See COMMON LAW, Law, English, and specific law-terms
- —— life tables (Insurance), XIII, b 176, a 184
- ENGLISH LITERATURE, VIII, a 360-87
  - ANGLO-NORMAN PERIOD, b 363-5
    - English-products, b 364-5
    - history and philosophy, a 365
    - Layamon, a 365
    - poetry, b 363-4
    - romances, a b 364
    - Welsh poetry, b 364
  - ANGLO-SAXON PERIOD, a 360-3
    - pagan products, b 360
    - Wessex literature, b 360-1
    - Alcuin to Conquest, a b 363
    - Bede, period of, b 362-3
    - Beowulf, a b 361
    - Danish period, b 361-2, a b 363
    - Northumbrian literature, a 362-3
    - origin of, a b 360
- ENGLISH LITERATURE, *continued*
  - compromise in Hanoverian period, b 381-5
    - Cowper and Burns, a b 382
    - drama, b 382
    - economists, a 382
    - fiction, b 382-4
    - history, a 384
    - philosophy, a b 385
    - political productions, b 381-2
    - theology, a b 384
  - EARLY ENGLISH, b 366-9
    - Chaucer, age of, b 367-8
    - ecclesiastical writers, b 366-7
    - Gower, a 368
    - James I., Scotland, a 369
    - Lydgate, a b 368
    - poets, a 367-8
    - printing, rise of, b 368-9
  - French Revolution age, b 385-7
    - poetry of, b 385-6, b 387
    - prose productions, a 386-7
  - Index, a b 387
  - PURITAN CONFLICT AGE, b 372-7
    - Elizabethan literature, a 372-3
    - fiction, b 375-6
    - Hobbes, b 376-7
    - Jonson, b 375
    - philosophy and religion, a 376-7
    - poets of conceit, a b 373
    - Shakespeare, a 373, b 374-5
    - theatre, site of, b 373-5
  - QUEEN ANNE'S AGE, a 379-81
    - compromise prose, b 379-80
    - Defoe, b 379, b 381
    - essay writing, a b 379
    - periodical literature, b 380-1
    - theological controversies, a b 381
  - RACE AMALGAMATION ERA, a 365-6
    - authors, b 365-6
    - language, a b 365
  - RENAISSANCE, a 369-72
    - drama, a b 371
    - Elizabeth's reign, b 370-2
    - humanists, b 369-70
    - Mary's reign, a b 370
    - philosophy and religion, b 371-2
  - RESTORATION REACTION, a 377-9
    - Locke, age of, b 378-9
    - poetical products, a b 377, a b 378
    - prose products, b 377-8

- —— (Craik), VI, a 481; (England), VIII, a b 253, b 257-8, a b 270, b 278-9, a b 285, b 292-3, b 307; (Renaissance), XX, b 404-5; early (Lodge), XIV, b 774-5; French reviews of (Periodicals), XVIII, a 550
- —— mediæval writing (Palæography), XVIII, a 163-4, a b 170
- —— Medical Jurisprudence, XV, b 793-4
- *English Mercurie* (Newspapers), XVII, a 424, note
- English, military character of (Army), II, b 515; (Militia, XVI, a b 313
- *English Missal* (Missal), XVI, b 531
- —— monarchy (Government), XI, b 12, b 13
- —— Narrows, strait (Patagonia), XVIII, a 357
- —— Newspapers, XVII, a 424-33
- —— Organs, XVII, b 853, b 854, b 855, b 861-2
- —— political economy (Socialism), XXII, b 229-30
- —— polity (Government), XI, a 12-3, a 14, b 15-6
- —— printers, taste of (Typography), XXIII, a b 756
- —— Protestant Missions, XVI, a 537
- —— Revolution. See Revolution of 1688
- —— river (Delagoa), VII, b 36
- *English Romayne Life* (Munday), XVII, b 29
- English Slavery, XXII, a b 145, b 146-7, b 149-50, b 690
- —— Socialism, XXII, a b 221, a 232
- —— stupidity (American Literature), I, a 630; (Psychology), XX, b 68; (United States), XXIII, b 779; depressing effects of imitating (American Literature), I, b 631
- —— sweating sickness, XXII, b 772, *a* 773
- —— tables (Annuities), II, *b* 73, 78-80
- —— Theatre (Ill.), XXIII, a b 243, note, a b 244, a 245, a b 247
- *English Tradesman*, the *Complete* (Defoe), VII, b 27, a b 29
- *English Traits* (American Literature), I, b 640
- English Universities, XXIII, a 893-4, b 903, a b 904-5, a 908-10. See CAMBRIDGE, OXFORD, and UNIVERSITIES
  - Consult references under British and Great Britain.

- *Englishman, The True-Born* (Defoe), VII, b 25, a 29
- ENGRAMELLE, Marie Dominique Joseph, naturalist, VIII, a 388
- Engrand, artist (Rouen), XXI, b 17
- Engravers (Greuze), XI, a 169; English (Turner), XXIII, b 708
- ENGRAVING, VIII, 388-97
  - aquatint, a 396
  - art defined, b 388
  - authorities, b 396-7
  - ETCHING, b 394-6
    - styles of, b 395-6
  - mezzotint, a b 396
  - PLATE, a 391-4
    - burin, b 391-2
    - English and French, b 393-4

ENGRAVING, *continued*
  PLATE
    German, early, b 392-3
    Italian, early, a b 392
    Nielli, a b 391
    printing, a b 391
  WOOD, b 388-91
    Bewick's age, a b 390
    modern, b 390-1
    origin, b 388-9
    sixteenth century, b 389-1
    technics, early, a b 389

—— (Amman, J.), I, a 648; (Amsler), b 683; (Andreani), II, b 19; (Audran), III, b 61; (Baltard), b 253; (Bartolozzi), a 348; (Bewick), a 537; (Ornithology), XVIII, a 14; (Blake), III, a 699; (Botticelli), IV, b 151-2; (Boydell), b 165; (Burgkmair), b 477; (Calico-printing), b 607; (Callot, Jacques), b 628; (Card) V, b 88; (Coxcie), VI, a 476; (Cranach), b 482-3; (Dürer), VII, b 478, a 479, a b 480, b 481-2; (Earlom), b 515; (Edelinck), a b 565; (Faithorne), VIII, *b* 748; (Finden), IX, b 168; (Finiguerra), b 187-8; (Forster, F.), b 368; (Gems), X, b 122-3; (Gilpin), b 537; (Globe), b 610; (Goltzius), a b 684
—— (Graphotype), XI, b 47; (Guillotine), b 233; (Hogarth), XII, b 49-50, *a b* 51, *a* b 52; (Hood), b 148; (Houbraken), b 327; (Japan), XIII, a b 597; (Jewellery), b 689; (Kauffman), XIV, b 18; (Lucas), XV, a b 40; (Mantegna), b 509; (Map), a 527; (Marcantonio), a 538-9; (Miller, William), XVI, b 332, a 333; (Morghen), a 850; (Nanteuil), XVII, b 180; (Pippi), XIX, b 122; (Piranesi), b 126; (Raphael), XX, a 294, a b 295; (Rubens), XXI, b 51; (Ryland), b 126-7; (Sand-Blast), b 269, note; (Schiavonetti), a 411; (Schongauer), *a* 450; (Sharp, W.), b 817, (Sherwin), b 838-9; (Smilie), XXII, b 910; (Smith, J. R.), b 186; (Strange), a 617; (Surveying), b 751-2; (Turner), XXIII, a 705, b 703; (Van Dyck), XXIV, a b 68, a b 69, a 70, b 71; (Ward), a b 390; (Willmore), a 620; (Woolet), a 698. See Aquatint, Copper-plate printing, Etching, Heliogravure, Line Engraving, Mezzotint, NIELLO, WOOD-ENGRAVING
——, bank-note (Perkins), XVIII, b 560
Engraulis, species (Anchovy), II, a 10
Engrossing, grain (Corn Laws), VI, b 365
Engua Guaçu, island (Santos), XXI, b 315
ENGUERA, town, VIII, a 397
ENGUICHE, term in heraldry, VIII, a 397
Enguri, town. See ANGORA
Engutuc Iloigob Dictionary, VII, b 167
ENGYUM or Enguinus, ancient town, VIII, a 297; (Gangi), X, b 62
Enharmonic scale, Greek (Music), XVII, b 86
Enharmonics (Music), XVII, b 98, note
Enhydra, genus (Mammalia), XV, a 446
E-ning Chow, town (China), V, b 552
ENKHUIZEN, town, VIII, a 397
ENLISTMENT, VIII, a b 397; (Army), II, a 496, b 502-3; (Germany), X, b 419, a 421; (International Law), XIII, a 202; (Navy), XVII, a 304; foreign (Ireland), XIII, b 273, a 275. See MILITIA, VOLUNTEERS
Enna or Castrum Ennæ (Castro Giovanni), V, a b 175
En-Nasir Mohammed, sultan (Egypt), VII, a b 656
Enndtchrist or *Antichrist*, block-book (Typography), XXIII, b 726, b 729
Enneads, treatise (Æsthetics), I, a 195; (Neoplatonism), XVII, a 345
Enneda, village (Glarus), X, b 567
Ennedi, tribe (Soudan), XXII, a 292
Ennell or Belvidere lough (Westmeath), XXIV, b 540, a 541
Enneper Strasse, valley (Westphalia), XXIV, b 545
En-Nesib (Hamasah), XI, b 359, a 360
ENNIS, borough, VIII, b 397; (Clare), V, *b* 701, *a* 702
ENNISCORTHY, town, VIII, b 397-8; (Wexford), XXIV, *a b* 550
Enniskillen, borough, VIII, a 398; (Fermanagh), IX, *a b* 79-80
——, town of Canada (Petroleum), XVIII, b 726, a 886
Ennistymon, town (Clare), V, b 701, *a* 702
ENNIUS, Quintus, poet, VIII, a 398-400; (Drama), VII, a b 355; (Horace), XII, b 167; (Latin), XIV, *b* 330, a 331, b 332; (Metempsychosis), XVI, b 112; (Nævius), XVII, a b 168, *a b* 169; (Pacuvius), XVIII, a b 134; (Plautus), XIX, *a* 227; (Roman Literature), XX, b 736-7
Ennobling of blood (Baron), III, a 335; (Peerage), XVIII, b 470, a b 471, b 474, a 475, b 476, b 477
Ennodius, bishop (Popedom), XIX, a 507
Enns, river (Alps), I, b 552, a 553
Ennui, tale (Edgeworth, Maria), VII, b 567
ENOCH, four persons of Scripture, VIII, a 400
Enoch, Book of (Angel), II, b 26, a 27; (Apocalyptic Literature), b 153-4, a 155; (Canon), V, a b 7; (Eschatology), VIII, *b* 474, note; (Ethiopia), a 539; (Isaiah), XIII, a 391; (Jude), b 771, note; (Messiah), XVI, a 60, a 61; (Paradise), XVIII, b 240, a 241
Enopla, division (Nemertines), XVII, a 336
ENOS, town, VIII, a 400
Enquiry into the Human Mind (Reid), XX, a *b* 363
Enrique, Don, of Trastamara. See Henry, count of Trastamara
Enriquez, Beatriz (Columbus), VI, b 154, b 157
ENRIQUEZ GOMEZ, Antonio, dramatist, VIII, a b 400
Enriquillo, lake (Hayti), XI, a 486
En Rogel, spring (Palestine), XVIII, a 180
ENSCHEDE, town, VIII, b 400
Ensign, Swiss (Switzerland), XXII, a 826
Ensigns. See FLAG
Ensilage, fodder (Silo), XXII, b 73-4
En Soph, deity (Kabbalah), XIII, *a* 820, *a* 821
Enstatite (Mineralogy) (Ill.), XVI, a 433; olivine-rock (Geology), X, a 210
Ent, Sir George, physician (Harvey), XI, a 449, a 451, b 452
Entablature, Corinthian (Architecture) (Plate XII), II, a 357, a b 365; Doric (Plates VIII, IX), a 354, *a* 355, a 359; Egyptian, b 341, a 343; Ionic (Architecture), *a* 356; Italian (Architecture), b 384
Entada, fruit of (Botany), IV, b 136, b 137
ENTAIL, VIII, b 400-4
    English, a 402
    foreign, a 403-4
    hereditary aristocracy, a b 401
    nature of, b 400-1
    Roman law, b 401-2
    Scotland, a 402-3

—— (Excambion), VIII, b 685; (Inheritance), XIII, b 84; (Land), XIV, a b 265, b 270; (Settlement), XXI, b 727; (Shelley), b 828; barring (Warranty), XXIV, b 393; breaking tenure by (Littleton), XIV, b 710
Entail, The (Galt), X, *b* 43
Entailed land, draining (Agriculture), I, a 298
Entalium, genus (Mollusca), XVI, a 689
Entasis, line (Architecture), II, b 407
Entef-aa, king (Egypt), VII, b 636
Entelechy (Aristotle), II, b 458; (Leibnitz), XIV, b 421, b 422
Enteric cavity (Hydrozoa) (Ill.), XII, *a b* 581, b 592
—— fever (Typhoid), XXIII, a 720-3
Enteridium (Protozoa), XIX, a 863
Enterocœle (Animal Kingdom), II, a b 47, a 48
Enteropneusta, group (Animal Kingdom), II, b 46, *a* 48; (Vertebrata), XXIV, b 202
Enterozoa, group (Hydrozoa), XII, *a* b 581, note; (Mollusca), XVI, b 655; (Protozoa), XIX, *a* b 852, a b 854, b 855, *a* b 857, a 858, *b* 859, b 882; (Vertebrata), XXIV, a 196; (Zoology), a b 851
Enthymeme, syllogism (Analogy), I, b 694; (Aristotle), II, b 454 and note; (Rhetoric), XX, a b 525, a 527
Entimus, genus (Weevil), XXIV, a 504
Entlebuch, valley of (Lucerne), XV, *a* 42
Entoconcha, parasite (Reproduction), XX, a 422
Entoderm, tissue (Histology), XII, b 6, a 8, b 9
Entombment of Christ, painting (Michel Angelo), XVI, b 239; (Schools of Painting) (Ill.), XXI, a 458; (Titian), XXIII, a 444; (Raphael), XX, a 289, note; Vander Weyden's (Tempera), XXIII, a 174
Entomology (Bonnet), IV, b 31-2; (Fabricius, J. C.), VIII, b 737; (Insects), XIII, a 147-61; economic (Insects), b 48-9; (Locust), XIV, b 773; (Pine), XIX, b 112; (Shrew), XXI, b 883, *a* 884; (Wasps), XXIV, a b 413, a 414
Entomology, Introduction to (Insects), XIII, b 148, b 153, b 160; (Kirby), XIV, b 95
Entomophaga, group of parasites (Insects), XIII, b 154
—— group of edentata (Mammalia), XV, a 387
Entomophthoreæ, fungi (Parasitism), XVIII, a 272; (Reproduction), XX, b 438, *b* 440; (Vegetable Kingdom), XXIV, *a b* 139
Entomostraca, order (Crustacea), VI, b 560, b 573, a 474, b 577 note, a b 578, note, b 583 note, b 585-9; (Distribution), VII, b 242, 246
Entoniscus cancrorum (Crustacea) (Ill.), VI, a 565, *b* 572, a 573
Entoplastic products (Protozoa), XIX, a b 856
Entoprocta, sub-class (Polyzoa), XIX, b 445, *a* 446, *a* 447, *a* 451, b 452-3, a 454
ENTOZOA, parasites, VIII, a 404; (Insects), XIII, a 149; (Mosquito), XVI, b 894; (Parasitism), XVIII, a 262-76; (Tape Worm), XXIII, b 54-61
Entragues, François de Balzac, marquis (Angouleme), II, a b 42
ENTRECASTEAUX, Joseph Antoine Bruni d', navigator, VIII, a 404; (Geography), X, b 169; (Tasmania), XXIII, a 81
Entrée en Espagne (Roland), XX, a b 642
Entre Minho e Douro, province. See Douro (Portugal), XIX, a 551, a *b* 552, a 553, a 555, b 556
Entre Rios, province (America), I, b 625; under Urquiza (Argentine Republic), II, a b 433
Entrenchment (Fortification), IX, b 384, b 385; of camp, IX, a 412; Roman frontier (Trajan), XXIII, a 535

Entrepreneur, middle-man (Hufeland), XII, a 350; (Political Economy), XIX, a 411
Entropy (Diffusion), VII, a b 191; (Heat), XI, a 509; (Thermodynamics), XXIII, a 306, a 308
Entry, land-term (Homestead), XII, b 125–6, a 127; money (Insurance), XIII, b 179; Writ of, XXIV, *b* 730
Enula, plant (Elecampane), VIII, a 4
Envelope, geometrical (Curve), VI, b 637; (Infinitesimal Calculus), XIII, a 30-31; of lines and planes (Geometry), X, b 353
—— manufacture (Stationery), XXII, a 478; stamped (Post-Office), XIX, a b 602, a b 603
Environment (Distribution), VII, a 232, a b 233; (Mimicry), XVI, a 354–5; (Parasitism), XVIII, b 266–7, b 272-3; (Schizomycetes), XXI, b 417; (Variation and Selection), XXIV, a b 90
Envoy (Ambassador), I, b 577 *sq.*; (International), XIII, b 199
Envy, satire (Rosa), XX, a b 870
Enyo, goddess. See BELLONA
Enzeli, gulf and town (Caspian Sea), V, a 155; (Ghilan), X, a 507
Enzianbranntwein cordial (Gentian), X, a 144
Enzina, dramatist. See ENCINA
ENZIO, king of Sardinia, VIII, a b 404
Enzymes, ferments (Nutrition), XVII, b 690
Eo, river (Lugo), XV, a 63
Eoa, island (Friendly Islands), IX, a 684
Eobanus, scholar. See HESSUS
Eocene age (America), I, a 600; (Birds), III, b 632; (Coal), VI, b 54; (Corals), b 336, a b 337, a 343; (Distribution), VII, b 239, note, b 244, *b* 245, 246, a 248; (Geology), X, a 320–1, a 330; (Horse), XII, a b 176, a 177, a b 178
Eocha Mac Run, king (Scotland), XXI, b 500
Eogain, O'Neill, chief (Tyrone), XXIII, a 760
Eohippus, fossil (Horse), XII, a 177; (Zoology), XXIV, a 926
Eolidæ, family (Mollusca), XVI, a 680
Eolis, genus (Mollusca) (Ill.), XVI, a 680, b 681
EON DE BEAUMONT, Charles Geneviève Louise Auguste André Timothée d', adventurer, VIII, b 404
Eonycteris, genus (Mammalia), XV, a 414
Eos, birds (Lory), XV, a b 9
—— or Aurora, myth (Endymion), VIII, a 187; (Tithonus), XXIII, b 440–1
Eosaurus, fossil (Reptiles), XX, b 478
Eosine, dye (Bromine), IV, a 326; (Dyeing), VII, b 497; (Phthalic Acid), XVIII, a 869
Eosite (Mineralogy) (Ill.), XVI, a 420
Eosphorite (Mineralogy) (Ill.), XVI, a 424
Eotherium egyptiacum, fossils (Mammalia), XV, b 394
EOTVOS, Jozsef, baron, poet, VIII, a b 405; (Hungary), XII, b 394
Eozoic system (Geology), X, *b* 289-91
Eozoon, fossil (Geology), X, a b 290; Canadense, fossil (America), I, b 596; (Distribution), VII, a 245; (Foraminifera) (Ill.), IX, b 336–8, a 339; (Quebec), XX, a 172; (Russia), XXI, b 81
Eozoonina, order (Protozoa), XIX, b 871
Epacrids, plants (New South Wales), XVII, a b 420
Epacts (Calendar), IV, a 596-8; how determined (Calendar), b 599-600
Epakto, town. See LEPANTO
EPAMINONDAS, VIII, b 405–6; (Greece), XI, *a* 93; (Megalopolis), XV, b 835, a 836; (Messene), XVI, a 57; (Messenia), a 58; (Pelopidas), XVIII, b 489, a 490
Epaphras or Epaphroditus, evangelist (Colossians), VI, b 147; (Paul), XVIII, b 431; (Philippians), b 760, a 761
Eparchs, title (Greece), XI, *a* 77; (Patriarch), XVIII, a 421
Epaulement, fortification (Fortification) (Ill.), IX, a b 374, a 375
Epeans, tribe (Elis), VIII, b 130
EPÉE, Charles-Michel, teacher, VIII, a b 406; (Deaf and Dumb), VII, b 7, a b 8, a 9
Epeïrides, family (Arachnida), II, b 259, a 260, b 261, *a* b 262
Epeirus, country. See EPIRUS
EPERIES or Presova, town, VIII, b 406
EPERNAY, town, VIII, b 406
Epha or bath, measure (Weights and Measures), XXIV, b 512
Ephebacei (Lichens), XIV, a b 556, b 559, a 564
EPHEMERIDÆ, insects, VIII, b 406–7; (Insects), XIII, a b 148
Ephemeris or *Ephemerides* (Almanac), I, b 519; (Navigation), XVII, a b 268–9; (Time), XXIII, a 419, a 421
Ephemerides of Casaubon, V, b 152
Ephemerum, genus (Muscineæ), XVII, b 71, a 77, a 80
EPHESIANS, EPISTLE TO, VIII, b 407–14
  analysis, a b 411
  authenticity, a 412–3
  Colossians, Epistle to the, b 411–2
  destination, b 407–10
    external evidence, b 407–8
EPHESIANS, EPISTLE TO, *continued*
    Gentiles, designed for, b 409
    internal evidence, a b 408
    Laodicean claim, b 409 10
    theories, b 408–9
  literature, a 414
  object of, b 410–1
  objections answered, b 412-3
  occasion and date, b 413–4
—— (Colossians), VI, b 147–8; (Gospels) X, a 739 note; (Paul), XVIII, b 433
Ephesine Liturgies, XIV, a b 713, a 714, *a* 715
EPHESUS, city (Plan), VIII, a 414–6
  history, a 414–5
  site, a 414
  temple organization, b 415–6
  topography, b 416
  works on, b 416
—— (Amazons), I, a 576; (Hera), XI, b 606; (Ionia), XIII, b 210, *a* b 211; (Numismatics), XVII, b 663–4; (Paul), XVIII, a b 431, a b 432; exarchate of (Greek Church), XI, a 138. SEVEN SLEEPERS of, XXI, b 730
Ephetæ, court (Areopagus), II, b 424-5, b 426; (Draco), VII, a 333
Ephialtes of Athens (Areopagus), II, *a* b 426; (Greece), XI, *a* 91; (Pericles), XVIII, b 541
——, giant (Aloidæ), I, b 525; (Ares), II, a 427
Ephippiorhynchus, genus (Jabiru), XIII, b 539
Ephod, image (Israel), XIII, b 419, b 423; (Teraphim), XXIII, a 201
EPHORI, magistrates, VIII, b 416; (Cleomenes), V, a 721; (Greece), XI, a 85, b 92
EPHORUS, historian, VIII, a b 417; (Chronology), V, b 616; (Isocrates), XIII, b 399, a 402; (Pericles), XVIII, b 544; (Scythia), XXI, *a* b 605; (Troad), XXIII, a 618
—— of Ephesus, painter (Archæology), II, a 318
EPHRAEM SYRUS, father of the church, VIII, b 417–8; (Canon), V, a 13; (Hymns), XII, a 614; (Paradise), XVIII, b 240; (Syriac Literature), XXII, *b* 864, a b 867–8. See *Codex Ephraemi*
EPHRAIM, of Scripture, VIII, b 418; (Gideon), X, b 525; (Hebrew Language and Literature), XI, b 534; (Hosea), XII, a 309, *a* 311; (Israel), XIII, a b 411, b 412; (Joseph), b 759; (Kings), XIV, a b 87, note; (Philistines), XVIII, b 769
—— of Antioch, patriarch (Syriac Literature), XXII, a *b* 874, a 875
—— bar Appin of Antioch, patriarch (Syriac Literature), XXII, b 876
Ephraimites, tribe. See EPHRAIM
Ephthalites, people. See Hephthalites
Ephydra, genus (Crustacea), VI, a 587
Ephymnium (Hymns), XII, a 613, a 614
Ephyra or Cichyrus, town (Epirus), VIII, b 429
——, young medusa (Hydrozoa), XII, *a* b 591–2
Epiblast (Animal Kingdom), II, *b* 46, *a* b 47, a b 48; (Botany), IV, a 143; (Embryology), VIII, a 154; (Mammalia), XV, a 353; (Mollusca), XVI, a 709
Epiblema, layers (Botany), IV, b 83
Epiboulangerite (Mineralogy), XVI, a 412
EPICHARMUS, dramatist, VIII, b 418; (Alphabet), I, b 535, a 536; (Drama), VII, a 352; (Sicily), XXII, a 22
Epichlorite (Mineralogy), XVI, b 431
Epiconiodei (Lichens), XIV, b 564
Epic Poetry (Alexandrian School), I, b 440; (Babylonia), III, a 166, b 167; (Ballads), b 246; (Celtic Literature), V, b 269-70; (Ennius), VIII, a b 399; (Fine Arts), IX, b 180; (Finland), a b 191; (Firdousi), a 196-8; (France), b 561–4, a 578; (Germany), X, b 478-9; (Greece), XI, *a* b 122, a b 123; (Homer), XII, a 113-4, a 116, a b 119–20, a b 124; (Hungary), a *b* 391, a *b* 392, *a* *b* 393; (Iceland), a 659-60; (Italy), XIII, b 509, a b 513, a 514, a 516, b 517-8, b 519, b 520; (Kálidása), b 838; (Latin), XIV, b 337-8; (Lucan), XV, a b 38; (Lucretius), a 55; (Moratin), XVI, a 836; (Nævius), XVII, b 169; (Nonnus), a b 547; (Persia), XVIII, a b 669-70; (Poetry), XIX, a 278–81; (Portugal), a 571, a 572; (Quintus Smyrnæus), XX, a 195; (Roman Literature), a 737, a 744, b 745, b 746; (Russia), XXI, b 114; (Sanskrit), a 294-6, a 297–8; (Silius), XXII, b 60–1; (Sophocles), b 285; (Southey), b 304; (Statius), b 485; (Tales), XXIII, a 33; (Tibet), a 370; (Varro), XXIV, a b 102; (Virgil), a 272–4; (Wolfram von Eschenbach), a 666
Epic poets (Poetry), XIX, a b 276; Greek (Thucydides), XXIII, a 346, a 347; recitation (Homer), XII, a 113–14, a b 119–20
Epicalyx (Botany), IV, b 107
Epicrium, genus (Amphibia) (Ill.), I, a b 667, a 668, a 670, b 671, a 672, a 675, b 677
EPICTETUS, philosopher, VIII, b 418–9; (Arrian), II, a b 551; (Montagu), XVI, b 793; (Stoics), XXII, *b* 601, a 602
Epicurean, Moore's (Chateaubriand), V, b 378

- Epicureans and Epicureanism (Augustus), III, b 71; (Ethics), VIII, a b 516; (Evolution), a 663; (Exorcism), a 705; (Gassendi), X, *b* 96–7; (Horace), XII, b 166–7; (Lucretius), XV a 53, a b 54, b 55, b 56; (Medicine), a 812; (Neoplatonism), XVII, b 342; (Pessimism), XVIII, a 699; (Stoics), XXII, b 591, b 593; (Theism), XXIII, b 253; dissemination of (Terence), b 204
- *Epicuri, De Vita, etc.* (Gassendi), X, *a* b 96
- EPICURUS, philosopher, VIII, b 419 23
  - biography, b 419–20
  - disciples, b 422
  - ethics, b 422
  - logic, a 421
  - philosophy, b 421–2
  - physics, a b 421
  - treatises on, b 423–3
  - writings of, b 420–1
- —— (Herculaneum), XI, *b* 648; (Menander), XVI, b 6
- Epicycle hypothesis (Ptolemy), XX, b 94, *a* b 95, *a* 96, note
- —— trains (Mechanics), XV, a 773
- Epicycloidal teeth (Clocks), VI, b 32–3; (Mechanics), XV, b 767–8
- Epicydes, politician (Syracuse), XXII, *a* 856
- EPIDAMNUS or Dyrrachium, city, VIII, a 423; (Greece), XI, b 91; (Illyria), XII, a 748. See DURAZZO
- EPIDAURUS, "The Holy," city, VIII, a b 423; (Æsculapius), I, a 189; (Olive), XVII, b 784
- ——, Illyricum, town (Epidaurus Limera), VIII, b 423
- EPIDAURUS, Limera, city, VIII, b 423
- Epideictic Rhetoric, XX, b 525, a 526
- Epidemic chorea (Pathology), XVIII, a 401; constitution of the year (Sydenham), XXII, a 845
- Epidemics (Cholera), V, *a* 593; (Croup), VI, a 545; (Diphtheria), VII, b 217; (Dysentery), b 505; (Hygiene), XII, b 600, *a* 601; (Influenza), XIII, a b 80; (Malaria), XV, b 321; (Measles), b 664, a 665; (Meningitis), XVI, a b 15; (Syphilitic Vaccination), XXIV, a b 32; (Typhus), XXIII, b 719; (Sweating Sickness), XXII, a b 772, b 773; yellow-fever (Quarantine), XX, a 163
- Epidermal Skeleton, XXII, b 114–7; tissue (Histology), XII, a 19–20
- Epidermis (Amphibia), I, 668; (Anatomy), b 743, b 787–8; (Planarians) (Ill.), XIX, a 181–2; (Reptiles), XX, *b* 458; cells (Hydrozoa) (Ill.), XII, a 582
- —— of leaves (Botany) (Ill.), IV, b 96–7; of plants (Botany) (Ill.), b 78 9; of trees (Botany), a 91
- Epidote (Mineralogy) (Ill.), XVI, a 427; (Geology), X, a 203
- Epigastric plexus (Anatomy), I, a 776
- Epigene action (Geology), X, b 234–58, a 331
- Epigenesis (Biology), III, *b* 590; (Embryology), VIII, a b 151, a 152; (Evolution), a 652; (Harvey), XI, b 451; (Morphology), XVI, a 864; rise of theory (Wolff), XXIV, a 665
- Epigenite (Mineralogy) XVI, a 512
- Epiglottis (Anatomy), I, *b* 735; (Voice), XXIV, b 293, a 294
- EPIGONI, myths, VIII, b 423–4; of Persia (Alexander the Great), I, b 428; war of the (Adrastus), a 150
- ——, school (Political Economy), XIX, a 390–1
- EPIGRAMS, VIII, a 424–5; (Alexandrian School), I, a 441; (Anthology), II, b 91, a *b* 92, *a* 93; (Goethe), X, a 652; (Harington), XI, *a* 429; (Haug), b 465; (Homer), XII, a b 112; (Jerrold), XIII, a b 644; (Jonson), a b 754; (Martial), XV, a b 586, a b 587; (Omar Khayyám), XVII, b 793; (Owen, John), XVIII, b 88; (Persia), b 668, a 671; (Piron), XIX, b 127; (Roman Literature), XX, *b* 745; (Schiller), XXI, a 414; (Simonides), XXII, a b 91; (Tusser), XXIII, b 714
- Epigraphy (Celtic Literature), V, b 283; (Inscriptions), XIII, a 127; (Palæography), XVIII, a 147
- Epihippus, fossil (Zoology), XXIV, a 926
- "Epiklesis," invocation (Liturgy), XIV, b 713, b 714
- EPILEPSY, disease, VIII, b 425–7
  - furor characteristics, b 426
  - gravior symptoms, b 425–6
  - malingering, a 427
  - mitior symptoms, a b 426
  - pathology, b 426–7
  - treatment, a b 427
- —— (Demonology), VII, b 54, a 56; (Digitalis), a 208; (Drowning), b 409; (Insanity), XIII, a 107, b 114; (Mohammedanism), XVI, b 570, note, b 571; (Pathology), XVIII, b 400
- Epilogue (Drama), VII, a 340; (Isaiah), XIII, *a* 389; (Rhetoric), XX, a 528
- Epimachidæ, family (Birds of Paradise), III, a 675, a 676
- Epimedium, genus (Horticulture), XII, a 258
- Epimanes. See ANTIOCHUS Epiphanes
- EPIMENIDES, poet, VIII, b 427
- Epimera, sectional piece (Crustacea) (Ill.), VI, a b 559
- Epimerite (Protozoa), XIX, b 877, b 878
- Epimetheus, myth (Zeus), XXIV, a 821
- ÉPINAL, town, VIII, b 427–8; (Vosges), XXIV, b 319, a 320
- Epinastic growth of plants (Physiology), XIX, a b 66
- ÉPINAY, Louise Florence Pétronille de la Live d,' authoress, VIII, a 428; (Grimm), XI, b 176, a 177; (Rousseau, J. J.), XXI, a 30, *a* 31
- *Epinicia*, odes (Greece), XI, a 125; (Pindar), XIX, a 108–10
- Epioticum, bones (Ichthyology), XII, a 678
- Epiphanes. See ANTIOCHUS IV.
- Epiphanes, son of Carpocrates (Gnosticism), X, a 627
- Epiphania, city (Hamah) XI, b 358
- EPIPHANIUS, St., VIII, a b 428; (Canon), V, b 6, b 10, b 11; (Cerinthus), *b* 301; (Clemens Alexandrinus), a 716; (Creeds), VI, b 496, a 497; (Image Worship), XII, b 750–1; (Mary), XV, a 597, a 598 note, a 599; (Mishnah), XVI, a 526 note; (Syriac Literature), XXII, b 868; (Weights and Measures), XXIV, *b* 512, a 515; his account of Arius, II, a 471
- EPIPHANY, Festival, VIII, b 428–9; (Festivals), IX, *a b* 102, *a* 103; (Jesus Christ), XIII, b 671
- —— hymn, Romanus's (Hymns), XII, a 615
- Epiphlœum, layer (Botany), IV, b 90–1
- Epiphyllous Lichens, XIV, b 565
- Epiphyllum, group (Cactus), IV, b 555, *a* 556; (Horticulture), XII, *a* 275
- Epiphyseal cartilages (Surgery), XXII, b 719, b 720
- Epiphyses, osseous (Mammalia), XV, a 358; (Skeleton), XXII, b 117
- Epiphysis in bone (Anatomy), I, b 729
- ——, vascular sac (Ichthyology), XII, a 688
- Epiphytes, parasites (Botany), IV, b 83–4; (Horticulture), XII, a b 276. See PÁRASITISM, Vegetable
- Epipodia (Mollusca), XVI, b 680, b 683
- Epipolæ, suburban hill (Syracuse), XXII, b 853, *a* 854, a 855, *a* 856
- *Epipsychidion*, poem (Shelley), XXI, b 829, b 830
- EPIRUS or Epeirus, country, VIII, a 429–30; (Ætolia), I, *b* 202; (Albania), b 395, a 396; (Ali Pasha), b 505; (Greece), XI, a 73, a 107; (Numismatics), XVII, a 658; (Turkey), XXIII, b 693, note, a b 694
- EPISCOPACY, VIII, 430–7
  - American, a 435, a b 437
  - Apostolate, b 430–1
  - authority for, a b 430
  - British, b 433–5
  - colonial, b 436–7
  - diocese, rise of the, a b 433
  - Dutch Jansenist, a b 436
  - Irish, a b 435
  - Moravian, a 436
  - Old Catholic, b 436
  - primitive, a 431–3
- EPISCOPACY, *continued*
  - Scandinavian, b 435–6
  - Scotch, a 434–5
  - testimony of early fathers, b 431–2
  - unity promoted, b 432–3
- —— (Christianity), V, b 608–9; (Hooker), XII, b 155; (Independents), a 761; (Milton), XVI, b 340–1; (Moravian Brethren), a b 838; (Olmutz), XVII, a 786; (Presbyterianism), XIX, a 706, a 707. See BISHOP, Bishops, Episcopate
- ——, Scotch (Henderson), XI, a 581; (Hickes), a b 705; (James VI.), XIII, *a* 568; (Leighton), XIV, a b 428; (Montrose), XVI, a b 822; (Orkney), XVII, b 873; (Presbyterianism), XIX, b 700, b 701, a b 792, a b 703, a 704; (Scotland), XXI, *b* 528, a b 529, a b 530, a b 531; (Skinner), XXII, a b 132; restoration of (Scotland), XXI, a *b* 533, b 534, *b* 537, a 538, b 539, b 541; (Sharp), *b* 816; rise of diocesan (Scotland), b 504, *a* 505, b 506
- Episcopal Church. See PROTESTANT EPISCOPAL CHURCH, REFORMED EPISCOPAL CHURCH
- —— effigies (Costume), VI, a b 409; independence (Canon Law), V, a 17; (Methodism), XVI, b 195, a 196, a 200; Rings (Ill.), XX, b 575–6; statistics (United States), XXIII, *b* 883
- Episcopalis audientia, court (Roman Law), XX, b 729, a 730
- Episcopate (Apostle), II, a 170; (Catholic Apostolic Church), V, a b 207; depression of (Vatican Council), XXIV, b 123
- ——, English (Bristol), IV, b 315; (England, Church of), VIII, a 332; (Lismore), XIV, b 700
- ——, primitive (Montanism), XVI, a b 802
- ——, Swedish (Tegnér), XXIII, a 118
- EPISCOPIUS, Simon, theologian, VIII, b 437; (Ames, Wm.), I, b 645; (Dort, Synod of), VII, *a* 324; (Inspiration), XIII, b 163
- Epi-skeletal muscles, development of (Anatomy), I, a 739
- *Episode de la Vie d' un Artiste* (Berlioz), III, b 516–7
- Episperm or testa (Botany) (Ill.), IV, b 139, *a* 140
- Epispore (Lichens), XIV, a 558, b 562
- Epistemology (Ferrier, J. F.), IX, a 97; (Philosophy), XVIII, a 806, a 807–8
- Episternum, bone (Reptiles), XX, b 459
- Epistilbite (Mineralogy) (Ill.), XVI, a–b 440
- *Epistle* (Patrick, St.), XVIII, b 422
- —— *of Barnabas* (Apostolic Fathers), II, b 172–3
- —— *of Peter to James* (Peter), XVIII, a 710
- —— *to a Friend* (Rogers), XX, a 637

Epistle to Posterity (Petrarch), XVIII, a 722, b 724
—— *to the Romans.* See ROMANS
Epistles, The (Bible), III, b 555, b 556
Epistles of Horace, XII, a 163, a *b* 164, *a* b 165, *a* *b* 166, b 167, *a* *b* 168, b 169; (Latin), XIV, a 335; (Roman Literature), XX, *b* 742
—— (Philips), XVIII, a b 768
—— *of Phalaris*, XVIII, b 743-4; (Bentley), III, b 499, *a* 501
—— (Pius II.), XIX, b 163
—— (Pliny the Younger), XIX, b 237, a b 238; (Roman Literature), XX, a 746
—— *of St. Boniface*, IV, b 30
—— *of Symmachus*, XXII, b 850
Epistola ad Dorpium (More, Sir T.), XVI, a 845
—— *de Vetustate Gentis Scaligeræ* (Scaliger), XXI, a b 380
Epistolæ Ciceronis (Roman Literature), XX, b 739-40
—— *Ho-Elianæ* (Howell), XII, a 338
—— *Obscurorum Virorum* (Education), VII, b 583; (Germany), X, a 473; (Hutten), XII, b 428, b 429; (Monachism), XVI, a 738; (Reformation), XX, a 338; (Satire), XXI, b 334
——, Petrarch's (Italy), XIII, a 514
Epistome (Polyzoa) (Ill.), XIX, a 448, a 449, a b 451, a 454
Epistula, imperial (Roman Law), XX, a 724
EPITAPHS, VIII, a 438-40
  conditions of, a 438
  literature on, a 440
  mediæval products, b 438-9
  modern English specimens, a 439-40
  pagan examples, a b 438
—— (Inscriptions), XIII, b 129, b 132-3; (Pacuvius), XVIII, a b 134, note; first Latin (Rome), XX, a 852; and symbols (Catacombs), V, a b 182
Epithalamion, poem (Spenser), XXII, b 410
EPITHALAMIUM, song, VIII, a 440; (Catullus), V, a b 217, a b 218
Epithallus (Lichens), XIV, b 555, b 556
Epitheca, envelope (Corals), VI, b 331, b 338
Epithecium (Lichens), XIV, b 557, b 562
Epithelial diseases (Pathology) (Ill.), XVIII, b 384-7. See SKIN DISEASES
Epithelioma (Cancer), IV, a b 707; (Ophthalmology), XVII, a 808; (Pathology) (Ill.), XVIII, b 389-90
Epithelium (Anatomy), I, a 743; (Histology), XII, b 6-8, b 11-12; in Mollusca, XVI, a 656; excretions of (Nutrition), XVII, a b 704
Epithema, genus (Hornbill), XII, b 172-3, notes
Epithemia hyndmanii, species (Diatomaceæ) (Ill.), VII, a 147
Epitome Astronomiæ Copernicanæ (Kepler), XIV, a 49
—— *of Julian* (Justinian I.), XIII, b 803
—— *Orthographiæ* (Manutius), XV, b 521
Epizoa (Insects). XIII, a 149. See Parasites
Epizooty, disease (Agriculture), I, a b 271; (Murrain), XVII, b 66-7; (Veterinary Science), XXIV, b 218-20. See Anthrax, Murrain, Pleuro-pneumonia
Epoch, harmonic (Mechanics), XV, a 693
Epochs (Chronology), V, *b* 616; and eras, table (Calendar), IV, b 604
Epodes (Horace), XII, b 163, *b* 164, *a* 165, b 169; (Roman Literature), XX, *b* 742
Epomeo, mountain (Geology), X, b 215; (Ischia), XIII, a 395
Epomophorus, genus (Mammalia) (Ill.), XV, *b* 412, b 413
Eponymus, magistrate (Archon), II, b 419-20; (Greece), XI, a 87
Epopées francaise (Homer), XII, b 124
Eporedia, town (Ivrea), XIII, a b 535
Eppenstein family (Görz), X, b 700
Epping forest (Commons), VI, a 188; (London), XIV, b 833
Eppinger, Elizabeth, of Niederbrunn (Stigmatization), XXII, a 578
Éprémémil or ESPRÉMESNIL, Jean Jacques Duval d', political character, VIII, b 484
Eproboscidea, insects (Diptera), VII, a 223
EPSOM, town, VIII, a b 440; (Surrey), XXII, *b* 729; races, VIII, b 440; (Horse), XII, a b 204, b 205, b 206, a 207
EPSOM SALTS, VIII, b 440; (Magnesium), XV, a b 218, a 219; (Mineralogy), XVI, a 418
Epsomite (Mineralogy) (Ill.), XVI, a 418
Epte, river (Normandy), XVII, a 552; (Seine Departments), XXI, *a* b 656
Equal altitudes, method of (Navigation), XVII, a b 281-2
—— temperament system (Zarlino), XXIV, b 809
Equality of masses (Gravitation), XI, a 63
——, political (Condorcet), VI, a 227; (Peerage), XVIII, a 472, a 475; (Taxation), XXIII, b 91; (Women), XXIV, a b 908, b 911, a b 913; Roman (Nobility), XVII, a b 539
—— sign (Records), XX, a b 323
—— of States (International Law), XIII, b 198
Equalizer, Thomson's water dropping (Electricity), VIII, a 96
Equalizing levers (Steam-Engine), XXII, *a* 924
"Equals" and "Patriots" (Babeuf), III, a 156
EQUATION, mathematical, VIII, b 440-51
  Determinant, a 441-3
  Theory, a 443-51
    algebraical, a 446-51
    Galois's solution, b 450-1
    Gauss's theorem, b 449-40
    Jordan's solution, a b 451
    Lagrange on cubic equations, a b 449, a 450
    numerical, a 443-6
    radicals, solution by, a 448-9
    symmetrical functions, b 446-7
    unsymmetrical functions, b 447-8
  relation of classes, b 440-1
—— of the centre (Astronomy), II, a 655
——, characteristic of potential (Electricity), VIII, a 24
—— of chords (Geometry), X, b 368-9
—— of circle (Geometry), X, a b 338-9
—— Clocks, VI, b 22
—— of continuity (Mechanics), XV, a 705
—— of international demand (Political Economy), XIX, a 392, a b 395
——, Laplace and Poisson (Electricity), VIII, a 24, a 25
——, moon's annual (Astronomy), II, a 699
—— of motion (Mechanics), XV, a b 730
—— of time, XXIII, a 419; (Dialling), VII, a 133
Equations, biquadratic (Algebra), I, a 484-5
—— of conduction (Electricity), VIII, a b 39
——, cubic (Algebra), I, a 482-4
—— of curves, VI, a 633; (Geometry), X, a 367-8
——, differential (Pfaff), XVIII, a 739
——, fundamental, of spherical Trigonometry, XXIII, a b 601
—— in general (Algebra), I, a 480-2
—— of known radical relations (Algebra), I, b 485-7
—— of more than one unknown quantity (Algebra), I, a 475-6
—— of motion (Tides), XXIII, a b 481
—— of Poisson (Magnetism), XV, a b 250, a 253
—— of right line and circle (Geometry), X, a 370-1
—— of a rotary point (Measurement), XV, b 668-70
——, simple (Algebra), I, a 474-5, b 476-7
——, solution of algebraic (Galois), X, b 44
——, theory of (Algebra), I, a b 455
Equator, defined (Astronomy), II, b 667; (Geography), X, b 176, a 177; ellipitical character of the (Geology), X, b 192; greater axis of (Geodesy), X, b 154; magnetic (Meteorology) (Ill.), XVI, a b 169, b 170; place of the (Ptolemy), XX, b 97-8
Equatorial adjustment (Telescope), XXIII, a 168-9
—— canal theory (Tides), XXIII, b 376, a b 377
—— coudé (Telescope) (Ill.), XXIII, a 168
—— current (Atlantic Ocean), III, a b 18; (Geology), X, *b* 251; (Indian Ocean), XII, b 861; (Pacific Ocean), XVIII, b 121-2
—— dial (Dialling) (Ill.), VII, a 136
—— land waste (Geology), X, b 227
—— plate (Protozoa) (Ill.), XIX, b 854, a 855
—— province (Soudan), XXII, a 293
—— regions (Meteorology), XVI, a 127
—— Telescopes (Astronomy) (Ill.), II, b 671; XXIII, a 159-66
—— zones (Ichthyology), XII, a b 709-13, a 718-9
Equerries (Royal Household), XXI, b 43
Equestrian ascents (Aëronautics), I, b 173
—— order (Rome), XX, a 576, *b* 777, *a* 778, a b 780, note, b 782, a b 783
Equestrianism (Horse), XII, a 199-203
Equidæ, family (Mammalia), XV, b 434-5
Equidistant projection (Geography), X, b 179
Equilibrated polygon (Bridges) (Ill.), IV, a 274-6
Equilibrium of arch (Bridges), IV, a 273-6
—— of atoms (Molecule), XVI, b 635 *seq.*
—— of balloon (Aëronautics), I, a 183-4, b 185-6
——, condition of (Mechanics), XV, b 729
——, equal forces (Mechanics), XV, a b 711
—— equation of solids (Elasticity), VII, b 714; of fluids (Hydromechanics), XII, a b 458, a 459, a b 460, a b 461
——, establishment of (Radiation), XX, b 221-2
—— of fluids (Diffusion), VII, b 186, b 187; (Hydromechanics), XII, a b 452, a b 453, a b 455, a 456-61
——, form of (Tides), XXIII, a b 379, b 380, b 383
——, mathematical theory of (Electricity), VIII, b 22-34
—— in Mechanics, XV, a 755
——, neutral (Mechanics), XV, b 729-30
—— of particle (Mechanics), XV, a 709-10, a b 711
—— of pressures (Arch), II, b 286 *sq.*
—— of rigid solid (Mechanics), XV, a b 736
—— of rotating fluid mass (Laplace), XIV, a b 303
——, stable (Mechanics), XV, a 730

Equilibrium theory, correction of (Tides), XXIII, b 380, b 383; law of the (Tides), a 392; in orbit, elemental terms (Tides), a 387–9; unstable (Mechanics), XV, a 730; of Wave, XXIV, b 437
Equinia, disease (Glanders), X, b 565
Equinoctial hours (Dialling), VII, b 132
Equinox (Calendar), IV, *a* b 591, b 595, a 596, b 598, a 599
——, mountain (United States), XXIII, b 842
Equinoxes (Meteorology), XVI, b 181, b 190; Precession of (Astronomy), II, a 655, a b 656, b 694–5; (Geology), X, a 193, b 196, *a* b 201. See Precession of the Equinoxes
Equiponderants and Centres of Gravity (Archimedes), II, a b 333
Equipotential lines (Magnetism), XV, b 231–2, a b 237; surfaces (Pneumatics), XIX, b 252
Equiprobabilists in casuistry (Liguori), XIV, b 642
Equiria, festival (October), XVII, a 743
Equisetaceæ, order (Biology), III, a 599, b 601; (Botany) (Ill.), IV, a 85, a *b* 95, b 103, a b 146
Equisetinæ, class (Ferns), IX, a 89, b 93–4; (Vegetable Kingdom), XXIV, a *b* 141, a 143
Equisetum, genus (Botany), (Ill.), IV, a 74, *a* 79, b 81, *a* 95, a 127, b 145, a 146; (Histology), XII, b 19; (Horsetail), *a* 212
Equitable land interests (Littleton), XIV, a 711; (Mortgage), XVI, a 876
—— Society (Insurance), XIII, b 186–7
EQUITES, Roman order, VIII, b 451–2; (Cæsar), IV, a 565; (Drusus, 2d), VII, a 421
EQUITY, a fanciful "better sort of law," VIII, a 452–3; (Common Law), VI, *a* 186; (Costs), a b 400; (County), a b 456; (Court), b 459; (Damages), b 693; (Hotch-Pot), XII, b 321; (Husband and Wife), a 417; (Lien), XIV, b 573; (Mortgage), XVI, a 875–6; (Rhetoric), XX, a 526
——, jus naturale (Roman Law), XX, a 722; operation of (Trust), XXIII, b 635; Pleadings, XIX, b 230, note; prætorian (Roman Law), XX, b 714, a 716; system, origin of (Chancellor), V, a 337; (Chancery), a b 338
Equivalence in ore (Mining), XVI, b 485
Equivalent eccentric solution of link motion (Steam-Engine), XXII, b 526; projection (Geography), X, b 179
Equivalents in Weights and Measures, XXIV, b 507
Equivocal generation (Hunter, J.), XII, b 496
Equivocation (Liguori), XIV, b 644–5
Equus, group (Horse), XII, a 176, b 178–9, b 182; (Zebra), XXIV, a 810–1; beds (Nebraska), XVII, b 317; evolution of (Animal Kingdom), II, a 45; (Zoology, American), XXIV, b 925–6. See HORSE
Era, river (Italy), XIII, a 448
——, Jalálian or Seljuk (Omar Khayyém), XVIII, b 793
—— of Good Feeling (United States), XXIII, b 809
—— of the Seleucidæ (Antioch), II, b 116. See Table of Epochs, Eras and Periods (Calendar), IV, b 604
Eraclius, painter (Glass), X, b 579; (Niello), XVII, a b 507
Eragrostis, genus (Grasses), XI, a 49, a b 53
Erán, country, XVIII. See Iran and PERSIA
Eranoi, societies (Guild), XI, b 230
Erard, Pierre, manufacturer (Pianoforte), XIX, *b* 84, a 87
ERARD, Sébastien, inventor, VIII, b 452; (Harp), XI, a 438; (Pianoforte), XIX, b 80, a b 83, b 84, a 87
Erasistratus, physician (Anatomy), I, *a* b 703; (Medicine), XV, b 811; (Phrenology), XVIII, a 857; (Stoics), XXII, b 592; (Vascular System), XXIV, a 103
ERASMUS, Desiderius, humanist, VIII, b 453–8
  Basel and Louvain life, b 454–6
  biographers and editors, a b 458
  birth and education, b 453–4
  English and Italian life, a b 454
  Froben's process, a b 455
  immunities of, a b 457
  literary position of, b 457–8
  personal characteristics, a 456–7
  religious attitude of, a 456–7
  style of, b 457
—— (Cambridge), IV, b 646; (Education), VII, *b* 583; (Farel), IX, b 29; (Froben), b 694, a 695; (Grocyn), XI, a b 183; (Grotius), b 195; (Hebrews), b (538; (Hermeneutics), a 668; (Holbein), XII, b 56, b 57; (Hutten), a b 429; (Latin Language), XIV, *b* 342; (Linacre), *b* 659; (More, Sir T.), XVI, b 842, a 844; (Pilgrimage), XIX, a 104; (Reformation), XX, *b* 337, a 338, b 340; (Relics), a 370; (Satire), XXI, b 334; (Scaliger), b 377; (Universities), XXIII, b 908
——, Max, reformer (Zinzendorf), XXIV, a 827
Erastianism, polity (Erastus, Thomas), VIII, a 459; (Luther), XV, b 81; (Lutherans), a 87; (Presbyterianism), XIX, *a* 707, a 708; (Thomasius), XXIII, a 330; (Tindall), b 430
ERASTUS, Thomas, physician, VIII, b 458–9
Erati, people (Cherokees), V, b 508
ERATO, muse, VIII, b 459
ERATOSTHENES, astronomer, VIII, b 459; (Alexandrian School), I, *a* 441; (Astronomy), II, a 654; (China), V, a 545; (Chronology), b 616; (Earth), VII, a 516; (Geography), X, a b 158; (Map), XV, a *b* 523, a 524; (Ptolemy), XX, a 94, b 95 note, a *b* 97, a b 98, a 100; (Pythagoras), a 149 note; (Pytheas), a b 149; (Strabo), XXII, *b* 610, *a b* 611; (Yemen), XXIV, a 776, *a* 778
Erastothenes, Against (Lysias), XV, b 119, b 120
——, *Batavus* (Snell), XXII, a 211
ERBACH, town, VIII, b 459
Erbauliche Monatsunterredungen (Periodicals), XVIII, a 551
Erben, Karel, poet (Slavs), XXII, a 160, a b 161–2, a 163
Erbium, metal (Chemistry), V, a b 470; (Lanthanum), XIV, b 292; spectrum (Spectroscopy), XXII, a 391
Erceldoune, poet. See THOMAS of Erceldoune
ERCILLA Y ZUNIGA, Alonso de, poet, VIII, b 459–60; (Spain), XXII, a b 345
Ercolanese, villa (Herculaneum) (Ill.), XI, *b* 648, note
Ercoland, G. B., naturalist (Trematoda), XXIII, *b* 572, a 575
Ercole del Rio, player (Chess), V, a 522, a 524
Erchinoaldus, mayor of the palace (Péronere), XVIII, a 564
ERDÉLYI, János, poet, VIII, a 460; (Hungary), XII, b 393, a 395
Erdjish-dagh, Erjish or Argæus, mountain (Asia Minor), II, b 616; (Cappadocia), V, b 67; (Turkey), XXIII, a 695
Erdmann, Johann Eduard, philosopher (Hegel), XI, *b* 554
ERDMANN, Otto Linné, chemist, VIII, a 460
Erdösy, poet (Hungary), XII, a 391
Erdre, river (Loire-Inférieure), XIV, b 817; (Maine-et-Loire), XV, b 305
Ere, Mount (Hydra), XII, b 446
EREBUS, VIII, a b 460
——, mount (Polar Regions), XIX, b 342
—— and Terror expedition (Franklin), IX, a b 634
—— strix, moth (Butterflies), IV, a 531
Erec et Enide (Romance), XX, a 665
Erech, city (Euphrates), VIII, b 588
Erechtheion or Erechtheum, temple (Archæology), II, a 312, b 314; (Architecture) (Plate XI), a 361, b 362, a 367; (Athens), III, a 3, b 6, a 7; (Greece), XI, a 91; (Lamp), XIV, b 248–9; (Mosaic), XVI, a 877
ERECHTHEUS or Erichthonius, legendary hero, VIII, b 460; myth (Aryan), II, a 589; (Greece), XI, b 86; (Hephæstus), a b 605; (Panathenæa), XVIII, b 213
Erekli, town. See HERACLEA
Erectile tissue (Vascular System), XXIV, a 113
Erecting eye-piece (Telescope), XXIII, b 156
Eremacausis, oxidation (Fermentation), IX, b 86–7; (Schizomycetes), XXI, b 424
Eremascus, genus (Vegetable Kingdom), XXIV, a *b* 139
Eremites (Abbey), I, a b 27; (Hieronymites), XI, a 723. See Anchorites, Hermits
Eremoblast, cell (Histology), XII, b 16
Eremobrya, group (Ferns), IX, b 90
Eremocausis. See Eremacausis
Eremophila, genus (Lark), XIV, b 316, note
Erenach, steward (Ireland), XIII, a 254
Erethizon, genus (Mammalia), XV, b 425
Eretria, city (Greece), XI, a 89; (Eubœa), VIII, b 569, *a* 570; (Numismatics), XVII, b 661
Erevañ, provincial statistics (Russia), XXI, b 76, a 110
Erewash, river (Derby), VII, a 93; (Nottingham), XVII, a b 612
ERFURT, city (Plan), VIII, b 460–1; (Academy), I, a 70; (Universities), XXIII, b 896, b 899, a b 904; (Wessel), XXIV, b 530, a 531; congress of, 1808 (Goethe), X, a 653
Erg or Areg, districts (Africa), I, a 224, b 228; (Sahara), XXI, *a* b 158
Erg, unit of work (Energy), VIII, b 187; (Measurement), XV, a 675
Ergadia, town (Inverness), XIII, b 206
Ergane, goddess (Athena), II, a 727
Ergänzungs-schulen (Technical Education), XXIII, a 115
Ergasteria, town (Greece), XI, a 80
Erghik-shan, mountains (Tomsk), XXIII, b 465–6
ERGOT, drug, VIII, a 461–2; (Fungus), IX, a 733; (Parasitism), XVIII, b 272; (Rye), XXI, a 126
Ergotism, disease (Ergot), VIII, b 461; (Pathology), XVIII, b 417; (Pellagra), b 487
Erhard, chemist (Spectroscopy), XXII, b 391, b 394
Eria or castor-oil worm (Silk), XXII, b 66, b 70, a 71
Erian formation, North America, I, b 596–7
Eric or Heiricus, St., monk (Scholasticism), XXI, b 438
—— or Erik Eiegod, king (Denmark), VII, b 72, a 73
—— Menved, king, Denmark (Hanseatic League), XI, b 402

Eric Blood-Axe, king of Norway (Harold I.), XI, b 433; (Northumberland), XVII, *b* 584; (Norway), b 599, a 600; (Scotland), XXI, *b* 501
—— Magnusson, king (Norway), XVII, a 603; (Robert), XX, b 608
—— the Red, king, Norway (Geography), X, b 159; (Greenland), XI, b 152, a 153; *Sagas of* (Iceland), XII, a 660
—— IX., St. Edwardsson, king of Sweden (Finland), IX, a 190; (Sweden), XXII, b 783–4
—— XIII., king (Sweden), XXII, *a* b 785
—— XIV., king (Sweden), XXII, a b 786
—— Edmundsson, king (Sweden), XXII, a 783
——, the Victory-Blest, king (Sweden), XXII, b 783
——, son of Hakon the Great, earl (Norway), XVII, b 600–1
Erica, plant (Botany), IV, b 107, a 119, b 120; (Horticulture), XII, a 272; (Heath), XI, b 526–7
Ericeira, Francisco Xavier de Menezes, count of (Portugal), XIX, b 572
Ericht, loch (Lake), XIV, a 218, a 220
Erichthonius, myth. See ERECTHEUS
Ericsson, John, engineer, *b.* 1803, *d.* 1889 (Air-Engine), I, b 379-80; (Ship-Building), XXI, a 862; (Steam-Engine), XXII, a 502, a 550; (Torpedo), XXIII, a 480
ERIE, city, VIII, a 462; (Gas and Gas-lighting), X, a b 79
Erie, Lake, XIV, a b 218; (New York), XVII, b 462, a 465; (St. Lawrence), XXI, a 188, b 191; battle of, 1813 (United States), XXIII, b 808, note
—— canal (Clinton, De W.), VI, b 8; (St. Lawrence), XXI, a b 188; (Troy), XXIII, *a* 627; (United States), a 810; (Watson), XXIV, b 887. See Canal
—— ring, Gould's (United States), XXIII, a 832
ERIGENA, Johannes Scotus, philosopher, VIII, a 462–4; (England, Church of), a 333; (Evolution), b 663; (Hincmar), XI, a 747; (Ireland), XIII, b 256, b 257; (Mysticism), XVII, *b* 138, *b* 139; (Predestination), XIX, b 689-90; (Scholasticism), XXI, a b 435, a 436, b 437–8; (Theism), XXIII, a 260, a 261, note
Erigeron, plants (Horticulture), XII, a 258
Erigon, river. See Czerna
ERIGONE, myth, VIII, a 464; (Dionysus), VII, a 217
Erik or Eirik. See ERIC
Erimon, tribe (Ireland), XIII, a 250 and note, a 251
Erimonian Scots (Ireland), XIII, a b 252
Erinaceidæ, family (Mammalia), XV, a 406–7
Erinaceus, genus. See HEDGEHOG
Erinacinæ, sub-class (Mammalia), XV, b 406–7
Erinite (Mineralogy), XVI, a 423
ERINNA, poetess, VIII, a 464
Erinus, plants (Horticulture), XII, a 258
ERINYES, or Eumenides, Furies, VIII, a 464; (Areopagus), II, *b* 424, b 425; (Furies), IX, a 738; (Harpies), XI, b 438, a 439; (Orestes), XVII, a *b* 851
Eriocaulon septangulare, plant (Distribution), VII, a 251
Eriodes, genus (Ape), II, b 134, a *b* 137, a 138, b 146
Eriometer, optical instrument (Wave Theory), XXIV, b 458
ERIPHYLE, myth, VIII, a b 464
ERIS, goddess, VIII, b 464
Erithacus, genus (Redbreast), XX, *a* 328
Erithrosiderite (Mineralogy), XVI, a 400
ERIVAN or Irwan, town, VIII, b 464
Erjish-Dagh or Argæus, mountains. See Erdjish Dagh
Erkenwald, saint and archbishop (London), XIV, a 853
Erkiân, the sin (Dervish), VII, b 98
ERLANGEN, town, VIII, b 464–5
ERLAU, town, VIII, a 465
Erlendsson, Haukr, scribe, (Scandinavian Languages), XXI, a 384
Erlik, demon (Shamanism), XXI, a 808
ERLKONIG or Erl-King, myth, VIII, a b 465
ERMAN, Paul, physicist, VIII, b 465
Ermanricus, Gothic king (Germany), X, b 467; (Goths), a *b* 754
Ermenek, town (Cilicia), V, b 678–9
Ermengaut, Matfre, poet (Provençal Literature), XIX, b 901
ERMINE (Ill.), VIII, b 465–6; (Fur), IX, b 735, a 736; (Greenland), XI, *a* 151; (Mammalia), XV, a 351, a b 447
Ermland, district (Prussia), XX, *b* 24; bishops of (Heilsberg), XI, b 557
Ernaans, serfs (Brehon Law), IV, a 226
Erne, bird (Eagle) (Ill.), VII, a 510
——, Loughs (Fermanagh), IX, a 79; (Ireland), XIII, b 222
—— river (Cavan), V, b 229; (Donegal), VII, b 313; (Fermanagh), IX, *a* 79
Ernée river (Mayenne), XV, a 655
Ernest I., the Confessor, duke (Hanover), XI, a 400
—— I., duke, Saxe-Coburg (Lichtenberg), XIV, a 567; (Saxe - Coburg - Gotha), XXI, *b* 363
—— II., duke (Saxe-Coburg-Gotha), XXI, b 363
—— Augustus of Hanover, king (George I.), X, *b* 378; (Germany), a b 453; (Gervinus), a 494; (Hanover), XI, a b 400, a 401
—— Augustus, Elector (Hanover), XI, a 400
—— Frederick I., duke (Saxe - Coburg - Gotha), XXI, b 363
ERNESTI, Johann August, philologist, VIII, a 466; (Crusius), VI, a 558; (Hermeneutics), XI, a 669
ERNESTI, Johann Christian Gottlieb, classicist, VIII, b 6
Ernestine house, rise of (Saxony), XXI, *a* b 369, a 372, b 374
Ernestine pamphlet (Political Economy), XIX, b 369
ERNST, Heinrich Wilhelm, composer, VIII, b 466–7
Ernst und Falk (Lessing), XIV, a 482
Ernstthal, town (Hohenstein), XII, *b* 54
Eroded strata (Geology) (Ill.), X, b 259–60
Erodium, plants (Horticulture), XII, a b 258
Erophile, drama (Greece), XI, a *b* 134
EROS, myth, VIII, a 467; (Aphrodite), II, b 151
Eros of Praxiteles (Archæology), II, b 315
Erosion, effects of (Luray Cavern), XV, *b* 68; (Scotland), XXI, b 546–7; (Sahara), b 158–9; (Geology), X, a b 250, a 254, a b 325; of rivers (Geology), a b 243, b 244–5, b 331–2; (Mississippi) XVI, b 542, b 543; sea (Geology), X, b 228, b 352–4
Erotian. See Herodian
Erotocritos, poem (Greece), XI, a 134
Erotomania, disease (Insanity), XIII, b 109
Erovant II., king (Armenia), II, b 479, a 480
Ero variegata, species (Arachnida), II, *b* 261
ERPENIUS or Erpe, Thomas, Orientalist, VIII, a 467; (Buxtorf), IV, b 536
Erpétologie Générale (Reptiles), XX, b 449
Errard of Bois-le-Duc, Jean, engineer (Fortification), IX, b 389
Erratic blocks (Jura), XIII, a 791
Errekeltiu Islands (Caroline Islands), V, a 111
Erriboll, Loch (Scotland), XXI, b 543; (Sutherland), XXII, b 763, a b 764
Errigal, mountain (Ireland), XIII, b 220
Er-Ródah, island (Egypt), VII, a b 612, b 668
Erromango island (New Hebrides), XVII, a 405
Error (Writ), XXIV, a *b* 731, a 732
Error of capacity (Barometer), III, b 329–30
—— functions (Tables), XXIII, b 19
Errors, base line (Surveying), XXII, b 740–1; determination of theoretical (Surveying), b 735; functions of angles (Surveying), a b 740; levelling, elimination of (Surveying) a 744; longitude observations (Surveying), b 749
——, mean values and theory of (Probability), XIX, b 800–4
Errors, Vulgar (Browne, Sir Thos.), IV, *b* 350, a 351
Ersa-Mordvine Dictionary, VII, b 163
Ersaris, tribe (Turks), XXIII, a 703
ERSCH, Johann Samuel, bibliographist, VIII, a b 467; (Encyclopædia), b 185, a 186
—— and Gruber's *Encyclopædia,* VIII, b 185–6; (Gruber), XI, a 199
Erse language, present use of (Armagh), II, a 479. See Irish dialect
Erskine, lords (Mar), XV, a b 533
——, Alexander, custodian of James I. (Scotland), XXI, b 528
ERSKINE, Ebenezer, divine, VIII, b 467–8; (Presbyterianism), XIX, b 704; (United Presbyterian Church), XXIII, b 775
——, John, baron of Dun, reformer (Scotland), XXI, *a* b 523, b 524
ERSKINE, John, divine, VIII, a b 468
ERSKINE, John, jurist, VIII, a 468
ERSKINE, Ralph, divine, VIII, b 468; (Hymns), XII, a b 628
——, St. Vincent, traveller (Mozambique), XVII, a 14
ERSKINE, Thomas Erskine, Baron, Lord High Chancellor, VIII, b 468–9; (Cabinet), IV, b 550; (Kenyon), XIV, a 47; (Libel and Slander), b 506
ERSKINE, Thomas, divine, VIII, b 469; (Ewing), VIII, b 679
Erster Entwurf Eines Systems der Natur-Philosophie (Schelling), XXI, a 407, b 409, note
Er-Toghrul, chief (Turkey), XXIII, a 681
Erubescite, ore (Copper), VI, b 308
Eruli, tribe. See HERULI
Eruption. See SKIN DISEASES
Erve, river (Mayenne), XV, a 653
Ervum ervilia, species (Lentil), XIV, *b* 448
Erwañ, plateau and town (Transcaucasia), XXIII, b 545, *b* 546, *a* b 547
Erwig, king of Spanish Visigoths (Salic Law), XXI, b 226
Erycidæ, family (Snakes), XXII, b 203
Erycinidæ, family (Butterflies) (Plate XXIX), IV, a 530
Erymanthus, mountain (Elis), VIII, a b 130
Eryngium, plant (Horticulture), XII, b 258
Erysichthon, myth (Antochthones), III, a 123
ERYSIPELAS, disease, VIII, a 470; (Anthony, St.), II, a 94; (Iron, Therapeutics of), XIII, a 370; (Pathology), XVIII, a b 408; (Surgery), XXII, a b 714; (Vaccination), XXIV, a b 31; anthracoid (Murrain), XVII, a 65

Erysiphe, genus (Fungus), IX, b 727, b 732
Erysipheæ, group (Mildew), XVI, b 306; (Reproduction), XX, *b* 438, b 443
Erysiphyeæ, sub-order (Fungus), IX, b 732
Erythema, eruption (Skin Diseases), XXII, a 130
ERYTHRÆ, city, VIII, b 470; (Numismatics), XVII, a 664
Erythræa centaurium, species (Botany) (Ill.), IV, b 111, a 112
Erythrema, autumnal, disease (Harvest Bug), XI, b 447
Erythrina, tree (Pepper), XVIII, a 527
Erythrinic acid (Lichens), XIV, *a* 562
Erythrinina, fishes (Ichthyology), XII, b 731
Erythrite (Mineralogy) (Ill.), XVI, b 421
Erythronium, plants (Horticulture), XII, b 258
Erythrozene, ferment (Fermentation), IX, a 85
ERYK, mountain and city, VIII, b 470, b 471; (Hamilcar), XI, a b 366; (Monte San Giuliano), XVI, a 808; (Trapani), XXIII, a 556
ERZEROUM, Erzrum or Arzrum, city, VIII, b 470–1; treaty of, 1832 (Persia), XVIII, a 660
ERZGEBIRGE, mountains, VIII, b 471; (Austria), III, a 101; (Fichtelgebirge), IX, b 121; (Germany), X, a b 403, a 406; (Hungary), XII, *b* 372, *a b* 373; (Transylvania), XXIII, a 555
Erziehung des Menschengeschlechts (Lessing), XIV, a 482
Erzrum or Erzroum, city. See ERZEROUM
Erzya, tribes in Russia. See Aorses
ESARHADDON, king, Assyria, VIII, b 471–2; (Babylonia), III, b 162-3; (Egypt), VII, b 643; (Israel), XIII, a 425; (Nineveh), XVII, b 525, a 526
ESAU or Edom, VIII, a 472; pottage of (Lentil), XIV, a 448
"Escalade," battle, 1602 (Geneva), X, b 134; (Switzerland), XXII, a 830
Escalante, Padre, explorer (Surveys), XXII, b 936
Escaldas, spa (Pyrénées), XX, b 134
Escambia, river (Florida), IX, b 296
Escapement (Clocks) (Ill.), VI, b 17–22, b 26, b 29–31; (Pianoforte) (Ill.), XIX, a 79, a 81, a b 82, a 83; (Watch) (Ill.), XXIV, b 415, b 417–9; recoil (Harrison), XI, a 442
Escarbuncle, the (Heraldry), XI, b 628
Escarp or escarpment (Fortification), IX, a 372, b 392; formation of (Scotland), XXI, b 548
Escaut, river (France), IX, a 446, a 458; (Scheldt), XXI, a 406
ESCHATOLOGY, VIII, a 472–6
    annihilation, b 475–6
    Christian, b 472
    Christ's, b 473–4, a 475
    damnation figment, a 473
    intermediate state, a b 475
    Jewish, b 472, a 474–5
    New Testament, a b 473
    restitutionists, a 476
—— (Apocalyptic Literature), II, a b 154, a b 156, *b* 157, a 158; (Joel), XIII, b 717; (Messiah), XVI, b 59, b 61; (Millennium), a 327–30; (Obadiah), XVII, b 722; (Origen), b 866, a 867; Luke's (Gospels), X, b 719; New Testament (Antichrist), II, a 110–1; (Paul), XVIII, a b 437; (Revelation), XX, b 510–2
ESCHEAT, VIII, a b 476; (Inheritance), XIII, b 84
Eschellensis, Abraham, orientalist (Syriac Literature), XXII, b 901
Eschenbach, Wolfram von, poet (Germany), X, a 464, a 469, a 470; (Romance), XX, b 654, b 660, b 662, b 665
ESCHENBURG, Johann Joachim, translator, VIII, b 476
ESCHENMAYER, Karl Adolf August von, philosopher, VIII, b 476
Escher von der Linth, Johann Conrad, geologist (Switzerland), XXII, a 815
Eschricht, Daniel Friedrich, zoologist (Parasitism), XVIII, b 262; (Whale), XXIV, b 552, a 553
ESCHSCHOLTZ, Johann Friedrich, naturalist, VIII, b 476; (Hydrozoa), XII, b 589, *a* 594
Eschscholtzia, plant (Botany) (Plate II, B.), IV, a 109, *a* 119, b 124, b 138
ESCHWEGE, town, VIII, a 477
ESCHWEILER, town, VIII, a 477
Esclarmonde of Baghdad, princess (Romance), XX, *b* 669
ESCOBAR Y MENDOZA, Antonio, casuist, VIII, a 477; (Casuistry), V, b 177
——, Pero de, navigator (St. Thomas), XXI, a 211
Escombrera, island (Cartagena), V, b 123
Escondida, river (Nicaragua), XVII, b 491
ESCORIAL or Escurial, palace (Ill.), VIII, a 477–8; (Architecture), II, b 638; (Cangiagi), IV, b 711–2; (Charles V.), V, a 362; (Genova), X, *b* 142; (Giordano), a 542; (Libraries), XIV, a 532; (Philip II.), XVIII, b 759; (Velazquez), XXIV, b 145; (Zuccaro), a 865
Escorpion (Lizard), XIV, a 741
Escovedo, Juan de, secretary (Perez), XVIII, b 535, a 536; (Philip II.), a 759
Escuage or Scutage, tax (Finance), IX, a b 154; military fine (Army), II, a 498; (Knighthood), XIV, a 117, note; (Scutage), XXI, a 600
Escuela de Concordia (Ecuador), VII, a 563
Escuelle (Grail), XI, b 31, b 32
Escutcheon (Architecture), II, b 407; (Heraldry) (Ill.), XI, b 616–7; funeral (Heraldry) (Ill.), b 635–6; of pretense (Heraldry), b 631
Esdaile, Ianthe Eliza, daughter of poet Shelley, XXI, a 828
Esdraelon, plain of (Galilee) X, a 26; (Issachar), XIII, a 442; (Palestine), XVIII, b 175, a 176, a b 181
Esdras, Apocalypse of, II, b 157
ESDRAS, *Books of*, VIII, a 478–80; (Artaxerxes), II, b 561; *Second Book of* (Apocrypha) b 159, a 160; *Fourth Book of* (Apocalyptic Literature), II, b 154–5. See EZRA, and *Ezra, books of*
Eseger or Hodoser See, lake (Transylvania), XXIII, a 555
——, drug (Calabar Bean), IV, a 577; (Opthalmology), XVII, b 805
ESHER, village, VIII, a b 480
Eshmūn, god (Phœnicia), XVIII, a b 816
Eshmun'azar, kings, Sidon (Phœnicia), XVIII, b 822; (Inscriptions), XIII, b 122
ESHREF or Ashref, town, VIII, b 480; (Mazandarán), XV, b 658
Esh-Sháfe'ee, imam (Egypt), VII, b 629, b 630
Esk, river (Cumberland), VI, *b* 616, a 617
—— river (Dumfries), VII, a b 454
—— river (Edinburgh co.), VII, *b* 569, a 570, *a* 571
—— rivers (Forfar), IX, *b* 361
Eskers, gravel ridges (Geology), X, a 327; (New Hampshire), XVII, b 401
ESKI-DJUMA or Eski-Djumua, town, VIII, b 480
Eski Hissar, town (Laodicea), XIV, b 293
—— Kara-Hissar, town, XIV, a 4
ESKILSTUNA, town, VIII, b 480
Eskimo Bay (Labrador), XIV, a 176
ESKIMO, Eskimos or Esquimaux, race, VIII, b 480–3
    appearance, b 481
    bibliography, a b 483
    distribution, b 480–1
    economy, a 483
    equipment, b 481–2
    language, b 482–3
    manners, a b 482
    number of, a 483
    religion, b 482
—— (America), I, a 602, a 606, a 620; (Archæology), II, a 299; (Canoe), IV, b 716; (Cave), V, a 233; (Fire), IX, b 198; (Greenland), XI, *a* b 152, *a* 153; (Indians), XII, b 862, *b* 864, b 865–6; (Labrador), XIV, b 176; (Map), XV, a 523; (Mexico), XVI, b 214, a 215; (Mythology), XVII, a b 164, *b* 165; (Polar Regions), XIX, a b 341; (Religions), XX, b 376
—— Dictionaries, VII, b 167; Dog, b 281, a 283; language (Grammar), XI, a 35, a 37
ESKI-SAGRA or Eski-Zagra, town, VIII, b 483; department (Roumelia), XXI, a 27
Eski-Serai (Adrianople), I, b 151
ESKI-SHEHR, town, VIII, b 483; (Arabgir), II, b 204
Eskuara tongue (Basque Provinces), III, b 366
Esla river (Leon), XIV, *a* 455
Esmangart, critic (Rabelais), XX, b 203, a 205
Esmarkite (Mineralogy), XVI, a 436
Esmeralda, lake (Chili), V, b 535
——, frigate, capture of (Dundonald), VII, a 467
Esmeraldas, river (Ecuador), VII, *b* 560, b 561, b 562
Esmond, novel (Duel), VII, a 444; (Thackeray), XXIII, b 234
ESNEH or Isne, town, VIII, b 483; (Egypt), VII, b 678
Esocidæ, fishes (Ichthyology), XII, a 709, *b* 713, a 732; (Pike), XIX, b 97
Esopus creek (United States), XXIII, *b* 843
Esoteric teaching, John's (Gospels), X, a 745–6, b 747
Esox lucius, fish (Pike) (Ill.), XIX, b 97
Espagnolette bolt (Building), IV, b 442
Espalier rails (Horticulture), XII, a 225
Espartero, Don Joaquin Baldomero, duke of Vitoria, marshal and statesman (Narvaez), XVII, a 241; (O'Donnell), b 748; (Spain), XXII, *b* 359
ESPARTO or Spanish grass, VIII, b 483–4; (Cartagena), V, b 123; (Paper), XVIII, a b 229, 231
Espe, Karl August, editor (Encyclopædia), VIII, b 185
Espejo, Eugenio, revolutionist (Ecuador), VII, a 563
Esperon mountains (Camisards), IV, a 657
Espersen, J. C., philologist (Scandinavian Languages), XXI, b 390
Espinasse, Julie Jeanne Eleonore, author (D'Alembert), VI, b 683; (Deffand), VII, b 24
ESPINAL, Vicente, poet, VIII, a b 484; (Spain), XXII, a 372
Espinosa, Gabriel, pretender (Portugal), XIX, b 562
——, Xavier, president (Ecuador), VII, b 563
'Espinoy, princess de (Tournai), XXIII, b 520
Espionage, government (Post Office), XIX, b 579, note, a 581, a 583, a 585; system (Jesuits), XIII, b 658
Espiritu Santo, bay and city (Victoria), XXIV, a b 236

Espiritu cape (Tierra del Fuego), XXIII, b 409, a 411
——, province (Brazil), IV, a 205, b 210, b 211, *b* 212
Esplandian, mythical hero (Romance), XX, b 671
ESPRÉMESNIL, Jean Jacques Duval d', politician, VIII, b 484
Esprit des Lois, Montesquieu (France), IX, *a* 522; (Montesquieu), XVI, b 809–10, b 811
ESPRONCEDA, José de, poet and politician, VIII, b 484–5; (Spain), XXII, a b 375
Espy, James P., meteorologist (Signal Service), XXII, *b* 903
Esquiline Hill (Rome), XX, *a* 750, a b 825, a 830, note, a *b* 831, b 848, a 850
Esquimaux. See Eskimo
Esquimault, town (Vancouver Island), XXIV, b 64
ESQUIRE, title, VIII, a 485; (Peerage), XVIII, b 478; (Precedence), XIX, b 683, a b 684, notes
ESQUIROL, Jean Etienne Dominique, physician, VIII, a 485; (Insanity), XIII, a 110
ESQUIROS, Henri Alphonse, poet and socialist, VIII, a b 485
Esquisse d'un tableau historique des progrès de l'esprit humain (Condorcet), VI, a *b* 226
Ess, Johann Heinrich van, theologian, VIII, b 485
Essai sur l'Étude de la Littérature (Gibbon), X, a b 515, note
Essais de Morale (Nicole), XVII, b 503
—— *Philosophiques* (Descartes), VII, b 103
Es-Salt, town (Gilead), X, b 531
Essar-haddon, king. See Esarhaddon
Essay, English (Steele), XXII, b 555
Essay on the Human Understanding (Locke), XIV, a 760, a 762, a 764–9; (Philosophy), XVIII, a 808
—— *on Man* (Marat), XV, b 533, *a* 534
—— *on Man*, Pope's (Pessimism), XVIII, b 700; (Pope), XIX, b 501; (Shaftesbury), XXI, a 770
—— *on Political Arithmetic* (London), XIV, a 830
—— *on Projects* (Defoe), VII, a 25, b 28
—— *on Wages* (Leslie, T. E. C.), XIV, a 478
Essays (Bacon), III, a 175, a b 181
—— (Foster, J.), IX, b 418
—— (Lamb), XIV, *a* 236
—— (Macaulay), XV, a 128, b 130
—— (Montaigne), XVI, a 794–8
—— *and Reviews* (Heresy), XI, a 660; (Stanley), XXII, *a* 469
Essedum, vehicle (Carriage), V, b 118
ESSEK, Esseg or Eszek, fortress and town, VIII, b 485–6, a 498
ESSEN, town, VIII, a 486
Essence (Hegel), XI, a 553; (Mysticism), XVII, a b 140; Remi on (Scholasticism), XXI, b 438
—— d'orient (Châlon-sur-Saône), V, b 328
—— de petit grain, oil (Orange), XVII, b 835
ESSENES, sect, VIII, a 486–7; (Caste), V, b 165; (Colossians), VI, b 148, a 149; (Communism), b 188, b 192; (Fasting), IX, a 41; (Hymns), XII, a 613; (Monachism), XVI, b 724, a 725; (Pythagoras), XX, b 145, note; (Sacrifice), XXI, a 147; (Taboo), XXIII, b 22
Essenism (Mohammedanism), XVI, a 571; (Pastoral Epistles), XVIII, a 356
Essential oils (Distillation), VII, b 227–8, b 231; (Lemon), XIV, a b 439; (Oils), XVII, a 769–70
Essequibo, river (Guiana), XI, a *b* 221–2
ESSEX, county (Plate VI), VIII, b 487–90
  agriculture and forests, a 488–9
  antiquities, a 489–90
  history, a 490
  land distribution, a 489
  literature, a b 490
  manufactures, a 489
  physical aspects, b 487–8
  political divisions, a 489
—— (England), VIII, a 244; Earldom of, VIII, a 490
—— Devereux, earls of (Pembroke), XVIII, b 493
—— Frances Howard, countess (Somerset), XXII, b 273–4
——, Henry de, standard-bearer (Ordeal), XVII, a 844
——, Jane Hyde, countess of (Clarendon), V, b 705
ESSEX, Robert Devereux, second earl of, VIII, b 490–1; (Bacon), III, a *b* 174–6; (Raleigh), XX, b 274, *a* 275
ESSEX, Robert Devereux, third earl of, soldier, VIII, b 491–2
——, Thomas Cromwell, earl of. See CROMWELL, Thomas
ESSEX, Walter Devereux, first earl of, soldier, VIII, b 490; (Ireland), XIII, b 270, a 271
——, frigate (Porter), XIX, b 923–4
—— hog (Agriculture), I, b 355
Essling, battle of, 1809 (Austria), III, b 116; (France), IX, b 542, a 543; (Masséna), XV, b 623
ESSLINGEN, town, VIII, a 492
Essone, river (Loiret), XIV, a 818; (Seine-et-Oise), XXI, a b 656; town (Seine-et-Marne), XXI, b 656
Essonite, mineral (Garnet), X, *a* 74; (Jacinth), XIII, a 542
Esson's law of chemical action (Chemistry), V, a 424
Establishment of the port (Tides), XXIII, b 375, b 387–8, b 393
ESTAING, Charles Hector, Count d', admiral, VIII, a 492; (Sullivan), XXII, b 932
Estampes or Étampes, town, VIII, a 499
ESTATE in English law, VIII, b 492; Personal, XVIII, a 677–8; Real, XX, b 317–21
—— inalienable (Sale), XXI, b 216; for life (Land), XIV, a b 265, b 270; (Landlord and Tenant), b 274; separate (Husband and Wife), XII, a b 417
Estates, interest in (Term), XXIII, b 205
ESTATES OF THE REALM, VIII, b 492; (Government), XI, a 12
Estavayer, town (Neuchatel), XVII, *a* 371
ESTE, town, VIII, b 492
ESTE, house of, VIII, b 492–4; (Montargis), XVI, b 803–4; (Modena), b 565; (Tasso), XXIII, b 82, b 83; (Venice), XXIV, a b 158; in England, VIII, a 494
—— Alberto d', marquis of Ferrara (Universities), XXIII, a 893
——, Ippolito d', cardinal (Cardinal), V, b 86
——, Renée d', duchess (Marot), XV, *b* 570
ESTELLA, town, VIII, a 494
Estense library, Modena (Libraries), XIV, a 530, b 550
Estensi, family (Italy), XIII, b 478, a 479, a 494
ESTEPA, town, VIII, a 494
ESTEPONA, town, VIII, a 494
Esterel range, hills (Var), XXIV, b 75
Esterhazy family. See ESZTERHÁZY
Estero Panaloya, river (Nicaragua), XVII, a 491, note
Esters, chemical salts (Methyl), XVI, a 204
Esther, queen (Thousand and One Nights), XXIII, a b 337
ESTHER, *Book of*, VIII, a 494–6; (Ahasuerus), I, a b 374; (Bible), III, b 552
Esther, oratorio (Handel), XI, *b* 388
——, play (Racine), XX, b 214, a 215
Estheria, genus (Crustacea) (Ill.), VI, b 574, a 575, b 586, b 587
ESTHONIA, province, VIII, a 496–7; (Russia), XXI, a 76, *b* 81, b 82, a 87, a 88, b 94, *a* 106
Esthonian Dictionaries, VII, b 163
Esthonians or Ehsts, people (Livonia), XIV, a b 730, a 731
Esthwaite Water (Lancashire), XIV, a 253
ESTIENNE or STEPHENS, family of printers, VIII, a 497; (Elzevirs), a 145. See STEPHENS
ESTIENNE, Charles, printer, XXII, a b 562
ESTIENNE, Henri I., printer, XXII, b 561
ESTIENNE, Henri II., printer, XXII, b 562–3; (Casaubon), V, *b* 150; (Chrestien, F.), a 597; (France) IX, a b 577; (Sylburg), XXII, a 848
ESTIENNE, Robert, printer, XXII, b 561–2
Estissac, Geoffroy d', bishop (Rabelais), XX, *b* 200, *a* b 201
Estlin of Bristol, physician (Vaccination), XXIV, *a* 29, a b 30, a 36
Estoc, weapon (Dagger), VI, b 670; (Sword), XXII, b 841
ESTOPPEL, law-term, VIII, a b 497
Estovers, Common of, VI, a 187
Estrange, Roger L'. See L'ESTRANGE
Estrées, Louis César Letellier, duc d', marshal (France), IX, b 518
ESTREMADURA, province, VIII, b 497; (Portugal), XIX, b 551, a b 552
ESTREMADURA, province Spain, VIII, b 497–8; (Spain), XXII, b 307, a 308, b 309, a b 310, b 312, a b 313, a 315
ESTREMOZ, town, VIII, a 498
Estrepement, writ (Waste), XXIV, *a* 415
Estuaries, changes in (Tides), XXIII, a 376, a 385; forms of (River Engineering), XX, b 591–2; salinity of (Sea), XXI, a 666
Estufas, circular rooms (Pueblo Indians), XX, *b* 877, a 889
Eszek, town. See ESSEK
Esztergom, archbishop of (Hungary), XII, b 379
ESZTERHÁZY, family, VIII, a b 498; (Eisenstadt), VII, b 685; (Pápa), XVIII, b 221
——, Johann, count (Schubert), XXI, a 479
——, Nicholas IV., prince, VIII, b 498; (Haydn), XI, b 481, a 482
——, Nicholas Joseph, prince, VIII, b 488
——, Paul IV., prince, VIII, a b 498
——, Paul V., prince (Haydn), XI, b 481
——, Paul Anthony, prince, VIII, b 498
Etæagnus, plant (Scythia), XXI, b 602
ETAH, district, VIII, a 498–9; town, a 499
——, village (Greenland), XI, a 153
Etain, goddess (Celtic Literature), V, *b* 260, *a* 269, a 280
Etal Islands (Carolina Islands), V, b 111
ÉTAMPES or Estampes, town VIII, a 499; (Seine-et-Oise), XXI, a b 656
Étangs, pools (Geology), X, a 236
Étape, prison (Prison Discipline), XIX, a 782
Étaples, Lefèvre d', reformer. See FABER, Jacobus
ETÁWAH, district, VIII, a b 499; (Lawrence, Lord), XIV, b 371; town, VIII, b 499
Etcheverri, D', navigator (Tristan da Cunha), XXIII, b 613
Etching (Engraving), VIII, b 394–6; (Castiglione, G. B.), V, a 170; (Dürer), VII, b 481; (Fluor Spar), IX, b 306; (Glass), X, b 591; (Goya y Lucientes),

Etching, *continued* XI, a b 21; (Hollar), XII, a b 104; (Lithography), XIV, a 705; (Méryon), XVI, a 49–50; (Palmer), XVIII, a 197; (Parmigiano), a 324; (Pugin), XX, *b* 108; (Rembrandt), b 389–90; (Ruysdael), XXI, b 123; (Teniers), XXIII, a 191; (Van Dyck), XXIV, b 71; (Wilkie), b 601
—— charts (Surveying), XXII, a 752; process blocks (Typography), XXIII, a 750; tin plates (Iron), XIII, b 367; typographic (Typography), XXIII, a b 750, b 755
ETCHMIADZIN, town, VIII, b 499-500; (Transcaucasia), XXIII, b 547
Etearchus, Cretan king (Battus), III, b 385
Eteobutadæ, family (Lycurgus), XV, a 99
ETEOCLES, mythical king, VIII, a 500; (Graces), XI, *a* 24
Etesian winds (Greece), XI, b 75; (Egypt), VII, b 609
Ethandun, battle of (Alfred the Great), I, a 447
Ethane or dimethyl (Chemistry), V, *a b* 483; (Paraffin), XVIII, a 242, a 243
Ethbaal, king Tyre (Ahab), I, a 373; (Phœnician), XVIII, b 820
Ethé, H., orientalist (Násir Khosrau), XVII, *a* 344
Ethelbald or Æthelbald, king, Mercia (England), VIII, a 255; (Northumberland), XVII, a 584
ETHELBERT or Æthelberht, king of Kent, VIII, b 500; (Augustine), III, a 69; (Canterbury), V, *a* b 27, *a* 28; (England), VIII, a 250–1
Ethelberga, king, Northumbria (Edwin), VII, b 599, a 600; (England, Church of), VIII, b 332
Ethelfleda, "lady of Mercia" (Edward I.), VII, a 591
Ethelfrid or Æthelfrith, king, Northumbria (Edwin, king), VII, b 599; (England), VIII, b 245–6; (Northumberland), XVII, *b* 582–3
Ethelgiva, queen (Edwy), VII, a 600
Ethelnoth, archbishop (Agelnoth), I, b 249
Ethelred or Æthelred, I, Wessex (Alfred), I, a 447; (England), VIII, b 255, b 256
ETHELRED or Æthelred II., king, England, VIII, b 500–1; (England), b 258–9; (Normandy), XVII, b 447
——, kings of Northumberland, XVII, a 584; earl (Scotland), XXI, a 502
Ethelreda, St. (Embroidery), VIII, a 149
Ethelredus, historian. See AILRED
Ethelstan. See ATHELSTAN
Ethelwold, rebel (Edward I.), VII, a 591
——, St., bishop (Winchester), XXIV, a 628
ETHELWULF or Æthelwulf, Anglo-Saxon king, VIII, b 501; (England), b 255–6; (Swithun, St.), XXII, b 813, a b 814
Ethene series (Chemistry), V, 484–5
ETHER or Æther, VIII, a 502–5
  electro-magnetism, a 504
  history, a 502
  light theory, a b 504
  motions of, b 503-4
  physical constitution of, a b 504
  properties of, a b 503
  radiation in, a 502–3
—— (Atom), III, b 36; (Kant), XIII, b 856; hypothesis of (Wave Theory), XXIV, a b 443, b 470, b 479, a b 480, b 485
ETHER, drug, VIII, b 501–2; (Alcohol), I, a 416; (Anæsthesia), b 692, a 693; (Chloroform), V, *a* 591; (Distillation), VII, b 227; (Drunkenness), b 416; (Fuel), IX, a 709; (Liebig), XIV, *b* 569-70; (Œnanthic Acid), XVII, a 752. See Ethers
——, extraction by (Oils), XVII, b 763, a 764; machines (Ice), XII, a b 648; refraction of (Optics), XVII, b 824. See Ethers
Ethereal salts (Chemistry), V, a 480, b 496–7
—— suspension (Magic), XV, a b 210
ETHEREDGE, Sir George, dramatist, VIII, a 505–6; (Congreve), VI, a b 241; (Vanbrugh), XXIV, *b* 62
ETHERIDGE, John Wesley, theologian, VIII, a 506
——, Robert, geologist (Geology), X, b 291, *a* 292, a 302
Ether-myth (Deluge), VII, b 50–1
Ethers (Chemistry), V, b 479, a b 491; compound (Chemistry), a 480, a *b* 491; haloid (Chemistry), a 490–1; production of (Wine), XXIV, b 634; sulphur group of (Chemistry) V, b 491–2
Ethical argument (Theism), XXIII, a b 267; culture (Lamanism), XIV, a 227; ideas, appearance of (Animism), II, *a* 51
Ethical Philosophy, Dissertation on the Progress of (Macintosh), XV, *a* 162
Ethical proof (Rhetoric), XX, b 526; (Religions), b 378, a 379, b 380–82
ETHICS, VIII, a 506–37
  CHRISTIANITY, a 518–24
    Ambrose, b 521–2
    Aquinas, a 523–4
    Augustine, b 524
    casuistry, Jesuitry, a 524
    development, early, b 521–2
    distinctive character of, b 519-21
    ecclesiastical morality, dark age of, a 522
    Judaism, influence of, a 518-9
    mediæval, a 522–4
ETHICS, *continued*
  CHRISTIANITY
    Pagan inwardness contrasted, a b 519
    Reformation period, a b 524
  contents, table of, a b 537
  GENERAL ACCOUNT, a 506–7
    definition, a 506
    duty or moral law, b 506-7
    jurisprudence, theoretical, a b 507
    psychology of, b 506
    relations of, b 507
  GREEK AND ROMAN, 506–7
    Aristippus, a 510
    Aristotle, a 512–4
    Cynics, a 510
    early philosophers, b 507–8
    Epicurus, b 516
    Græco-Roman, later, b 516–7
    Hedonism, a b 516
    Neo-Platonism, b 517–8
    Plato, school of, b 510-2, a b 517
    Socrates, b 508–9
    Socrates, schools of, b 509–10
    Sophists, age of, a b 508
    Stoicism, a 514–6
  MODERN SYSTEMS, b 524–37
    associationists, b 534
    Bentham, a 533–4
    Butler, a 528–9
    Cambridge moralists, a b 526
    Clarke, a b 527
    Comte, b 535–6
    Cumberland, b 526
    free-will, b 534–5
    French influence, a 535–6
    German influence, a 536–7
    Grotius, a 525
    Hegel, b 536–7
    Hobbes, a 525–6
    Hume, b 529–30
    Hutcheson, a b 529
    intuitional schools, a 531–2
    Kant, a b 536
    Locke, b 526–7
    Mandeville, a 528
    Mill, John Stuart, a 534
    More, a b 526
    Paley, b 532–3
    Price, a b 531
    Reid, b 531–2
    Shaftesbury, b 527–8
    Smith, Adam, a 530–1
    utilitarian school, b 532–4
    Whewell, a b 532
    Wollaston, a 529
—— (Abelard), I, b 39; (Aquinas), II, a 203; (Aristotle), a b 455; (Baader), III, b 150, b 151; (Balguy), b 242; (Beneke), *b* 484; (Butler), IV, b 521–3; (Cartesianism), V, a 130; (Charron), b 373; (Democritus), VII, b 53; (Dogmatic), b 289; (Edwards, J.), b 598–9; (Evolution), VIII, b 670-1, b 673–4; (Gassendi), X, a 97; (Geulincx), a 497; (Heraclitus), XI, b 607; (Herbart), a 644; (Hobbes), XII, a 42; (Homer), a 115; (Hume), b 368-9; (Hutcheson), b 424–7; (Kames), XIII, b 842; (Kant), a b 864; (Job), a 709–11; (Lotze), XV, a 16; (Lucretius), b 56; (Mandeville), b 479-80; (Manichæism), b 491, a 492; (Mazzini), a 663; (Neoplatonism), XVII, a 342, a 344; (Pardon), XVIII, b 276, note; (Pessimism), b 701–2; (Philosophy), b 805, a 806, a b 809; (Price), XIX, b 741–2; (Rothe), XXI, a 6; (Schleiermacher), a 428, a 429, a b 430; (Schopenhauer), a 473, a b 475; (Shaftesbury), b 769-70; (Socialism), XXII, a 218, a 225, a 231; (Socrates), b 249, b 250, a 251; (Stoics), a 595–7, a b 599, a b 600, a *b* 601; (Theology), XXIII, a 295, b 296; (Wollaston), XXIV, b 666; (Xenocrates), a 755. See Morality
Ethics (Spinoza), XXII, b 416, *a* 417, b 418, a 419; (Cartesianism), V, b 133, b 135, a 138–9
——, Bar Hebræus (Syriac Literature), XXII, b 899; conventional (Aristippus), II, a 446; and custom (Archelaus), b 324; and dogmatics (Theology), XXIII, a 294
Ethics, Endemian (Aristotle), II, b 451, b 455; (Peripatetics), XVIII, b 556–7
Ethics, Great (Aristotle), II, b 451
—— of Hartmann (Pessimism), XVIII, b 703; of Kant (Metaphysic), XVI, b 91, b 104; Malebranche on (Cartesianism), V, b 132–3; neglect of (Sophists), XXII, a 281
Ethics, Nicomachean (Aristotle), II, b 451, a 453, a b 455
—— of Plato (Aristotle), II, a 455; Plotinus (Neoplatonism), XVII, b 345
—— in Scotch universities (Chalmers), V, a b 326
Ethics, Theological (Rothe), XXI, a 6; (Theology), XXIII, *b* 289–90
——, utilitarian (Mill, James), XVI, a 320; (Tucker), XXIII, b 641
Ethik, Beiden Grundprobleme de (Schopenhauer), XXI, a b 475
——, *System der* (Chalybäus), V, a 329
Ethine series (Chemistry), V, a b 485
ETHIOPIA or Æthiopia, country, VIII, a 537–9; (Abyssinia), I, b 61, a b 64; (Crane), VI, b 484; (Egypt), VII, a 636, b 643, a 644; (Meroe), XVI, *b* 45; (Yemen), XXIV, b 776, b 778; (Zephaniah), b 818
Ethiopian fauna (Asia), II, b 607; Pyramids, XX, b 130; reckoning (Chronology), V, b 621, a 622; tribes (Africa), I, b 235–6

Ethiopian region (Birds), III, a 657-9; (Coleoptera), VI, b 116; (Distribution), VII, b 233, a 234, a 235-6, *b* 239
Ethiopians, Troglodyte, XXIII, a b 620
Ethiopic Dictionaries, VII, a b 167; language, VIII, b 538-9; (Philology), XVIII, a 792; (Semitic Languages), XXI, a b 673, b 675, *a* b 676, note, b 686-8; Liturgies, XIV, a 713; printing (Typography), XXIII, a 740; writing (Inscriptions), XIII, b 123
Ethmoid bone (Anatomy) (Ill.), I, b 721, b 722, b 723, a 729
Ethmoidal region (Skeleton), XXII, a *b* 123
Ethmosphæra, radiolarian (Morphology) (Ill.), XVI, b 870
Ethne the Terrible, queen (Ireland), XIII, b 255
ETHNOGRAPHY AND ETHNOLOGY, VIII, b 539-50
- avatism and survival, a 541
- bibliography, b 549-50
- definition, b 539
- division, b 539-40
- evolution, a b 540
- family development, a 543-4
- intellectual development, a 546-7
- index, a b 550
- justice and morals, a b 548
- language, a 546-7
- material development, b 541-3
- method, a 540-1
- progress, b 548-9
- religious development, a 547-8
- social development, a 544-6
  - authority, a b 545
  - grouping, b 544-5
  - property, b 545-6

Ethnology (Afghânistân), I, b 210-2, a b 214; (Africa), a 233-6; (America), a 602-a 608; (Asia), II, b 608-10; (Borneo), IV, b 51-2; (Brazil), a 211; (Canaanites), a 675; (Caucasus), V, b 223-5; (Celts), b 258, a 260-1; (Cochin China), VI, b 87-8; (Ethiopia), VIII, a b 537; (Eubœa), b 569-70; (Europe), a 611-13; (Folk-lore), IX, a b 313; (Gaul), X, b 100-1; (Genealogy), a 128; (Georgia, Kingdom), a b 389; (Gomer), b 684-5; (India), XII, a 784, b 815-8; (Indians), a 862-70; (Kaffraria), XIII, b 827-30; (Khazars), XIV, a b 61
—— (Malay Peninsula), XV, b 325, a 326; (Malays), b 326, a 327; (Mexico), XVI, b 214-5, b 227-8; (Micronesia), a 267; (Negro), XVII, b 325-9; (Nubia), b 626-7; (Polar Regions), XIX, a b 341; (Polynesia), b 435; (Porto Rico), b 547; (Portugal), a b 552; (Russia), XXI, b 74-5, b 85-8; (Siberia), XXII, a 18; (Soudan), b 291-2; (Tibet), XXIII, a b 365; (Tunguses), a b 646; (Turks), b 700-3; (Ural-Altaic), XXIV, a b 5. See ANTHROPOLOGY
——, Hebrew (Genealogy), X, a 128
——, U. S. Bureau of (Pueblo Indians), XX, b 889-90; (Smithsonian), XXII, a *b* 915
Ethology, comparative (Folk-lore), IX, b 313
Ethyl (Methyl), XVI, b 202; alcohol (Chemistry), V, *b* 488, a 489; hydride (Natural Gas), XVIII, b 895; mercury (Chemistry), V, b 457; silicon (Chemistry), b 453-4
Ethylamine (Nitrogen), XVII, a 533
Ethyledene (Lactic Acid), XIV, b 197
Ethylene (Tar), XXIII, b 63; series of hydro-carbons (Coal Tar Colors), XVIII, b 899
Étienne, Charles, anatomist (Anatomy), I, b 707, a 708
——, Henri. See Estienne
——, St., town (Loire, Department), XIV, *b* 816
Étioles, Le Normant de, banker (Pompadour), XIX, a 458
Etiolin, coloring matter (Physiology), XIX, *b* 59, *a* 63
Etiquette (Club), VI, a 40; (Whist), XXIV, b 578; court (Jefferson), XIII, a 627; (Precedence), XIX, a 680-7
——, Madame (Noailles), XVII, b 537
ETNA, Mount (Plate VII), VIII, a 550-5
- age of, b 555
- area, a 552
- ascent, b 552-4
- eruptions, a 554-5
- external features, a b 552
- height, b 551-2
- historical references, a b 551
- names of, a 550-1
- population, a 552

—— (Chestnut), V, b 528; (Geology), X, a b 215, a 216, b 217, *a* b 218, *b* 220, *b* 221, *a* 223, b 224, a 226; (Observatory), XVII, b 734
Eto, abbot (Urt), XXIV, a 16
ETON, village, VIII, b 555-6; college (Foot-ball), IX, b 321; (Rowing), XXI, a 36; (Shelley), b 826
Etonian, The, magazine (Knight), XIV, a 112; (Praed), XIX, a 672
Étourdi, L', comedy (Molière), XVI, b 648, a b 649
Etroplus, fish (Ichthyology), XII, b 710, a 730
ETRURIA, country (Map, Plate VIII) (Ill.), VIII, a 556-67
- architecture, a b 560
- ART (Plate VIII), b 561-7
  - black ware, b 563-4
  - bronzes (Ill.), b 564-5
  - coins (Ill.), b 563
  - history, b 561-2
  - jewellery, a b 564
  - mural paintings (Ill.), b 566-7

ETRURIA, *continued*
- ART
  - scarabs (Ill.), b 562-3
  - terra-cottas (Ill.), b 565-6
  - vases, a b 566
- cities, a 557-9
- customs, b 559-60
- early inhabitants, a 556-7
- language, b 560-1
- mythology, a 560
- natural resources, a b 559

—— (Gladiators), X, b 562; (Italy), XIII, b 447, b 453, b 456; (Mæcenas), XV, b 195; (Pottery and Porcelain) (Ill.), XIX, a 633-5; (Rome), XX, a 759, *b* 761, *b* 763; (Tuscany), XXIII, a 713
——, kingdom of (Austria), III, a 115; (Napoleon), XVII, a 218
——, potteries, England (Wedgwood), XXIV, *b* 503
——, steamer (Steam-Engine), XXII, a 545
Etrurian. See Etruscan
Etrurians, people (Religions), XX, b 377
Etruscan Alphabet, I, b 534, *a* b 537; (Eugubine Tables), VIII, b 582-3; (U), XXIII, a b 762; antiquities (Archæology), II, a 302, b 308, *a* 309
ETRUSCAN ARCHITECTURE, II, b 362-3; VIII, a b 550
—— Arms and Armor, II, a 486; (Gold), X, a 659; (Astrology), II, b 646; (Bronze), IV, a 332; (Cabiri), b 551; (Metal-Work), XVI, a 78
—— coin (Numismatics), XVII, b 652-3; cosmogony (Adam), I, a 126; Costume, VI, b 402-3; deities (Janus), XIII, b 578; (Juno), a 788; (Jupiter), b 789, a 790; dialect (Romance Languages), XX, b 678-9; Element of Roman Law, a b 686: Enamelling, VIII, b 167; engraving (Gems), X, a 122, a 123; Helmet, XI, a 569; Jewellery (Plate XI), XIII, *b* 687; (Filigree), IX, *b* 143
—— languages (Philology), XVIII, b 793; measures (Weights and Measures), XXIV, *a* 511; metal-work (Sceptre), XXI, b 401; (Mirrors), XVI, a 525; painting (Mural Decoration), XVII, a b 46; (Plate), XIX, a b 190; pottery (Italy), XIII, b 464, note; (Pottery and Porcelain) (Ill.), XIX, a 633-5; pound (Weights and Measures), XXIV, a 516; printing (Typography), XXIII, b 740; Rings, XX, *a* 575; soothsaying (Haruspices), XI, a 447; statuary (Terra-Cotta), XXIII, b 210; tombs (Catacombs) (Ill.), V, a 188-9; (Corneto), VI, a 375; vases (Archæology), II, *a* 309; (Pottery and Porcelain), XIX, a 633-5; (Wedgwood), XXIV, a b 503
Etruscans, race (Etruria), VIII, a 556-7; (Astrology), II, b 646; (Fire), IX, a 202; (Italy), XIII, b 453, a b 455; (Umbria), XXIII, b 770, a b 771
——, primitive (Rome), XX, b 750, note, a 753-4, *a b* 758; religion of (Penates), XVIII, a 500; (Religions), XX, b 377
Etsch river (Adige), I, b 140; (Italy), XIII, b 445; valley (Tyrol), XXIII, a b 758
Etta tin mine (United States), XXIII, a 869
Et-Tebrizi, commentator (Hamasah), XI, *a* b 360
Ettersburg, mountain (Saxe-Weimar), XXI, b 364
Etti, chemist (Hops), XII, a *b* 161; (Kino), XIV, a 93
ETTLINGEN, town, VIII, a 567
ETTMULLER, Ernst Moriz Ludwig, philologist, VIII, a b 567
ETTMULLER, Michael, physician, VIII, b 567
Ettore, Cesare di, painter (Titian), XXIII, b 443
——, Fabrizio di, painter (Titian), XXIII, b 443
Ettrick river (Selkirk), XXI, a 670
—— Pen, mountain (Dumfries), VII, a 454; (Selkirk), XXI, a 670
"—— Shepherd" (Hogg), XII, a 53
ETTY, William, painter, VIII, b 567-8
Etymological Dictionaries, VII, b 156
Etymologicum Magnum (Dictionary), VII, b 158; (Greece), XI, b 130-1
Etymologies (Alchemy), I, a 414; from Astrology, II, a 650
Etymologies (Isidorus Hispalensis), XIII, a 397
——, Latin (Priscian), XIX, a 764; of terms for Art, II, b 557
Etymology (Lute), XV, b 71, a 72; (Sanskrit), XXI, b 287; illustrations from (Philology), XVIII, b 782, b 783, b 785, a b 803. See GRAMMAR
Etzel or Attila, III, b 54-5; (Nibelungenlied), XVII, b 488, b 489. See ATTILA
Etzinger, physiologist (Gelatin), X, b 118, a 119
EU, town, VIII, b 568; (Seine Inférieure), XXI, b 657; river (Normandy), XVII, a 552
Euastrosa (Sponges), XXII, a 440
EUBŒA, island, VIII, b 568-70
- history, a b 570
- physical features, b 568-9
- population, b 569-70
- products, b 569
- water system of, a b 569

—— (Attica), III, *b* 53; (Greece), XI, a 73, b 74, b 75, a 80, a 88, a 91; (Hera), a 606; (Numismatics), XVII, a b 661; (Pericles), XVIII, a b 542; (Phocion), b 812, a 813, note
Eubœan war (Demosthenes), VII, b 61-2
Euboic system (Weights and Measures), XXIV, a 510, b 516

EUBULIDES, philosopher, VIII, b 570; (Euclid of Megara), b 578
Eubulus, poet (Greece), XI, a 118
——, treasurer (Demosthenes), VII, b 60, a 62
Eucalypta or Extinguisher-moss (Botany) (Ill.), IV, a 147
EUCALYPTUS or Gum-tree, VIII, b 570-1; (Acclimatization), I, b 83; (Australia), III, a b 96; (Botany), IV, *a* b 78, b 97, *a* 119; (Campagna di Roma), a 664; (Cajeput Oil), a 576; (Europe), VIII, a 606; (Forests), IX, a 356, a 358; (Kino), XIV, a b 93; (Queensland), XX, b 180; (South Australia), XXII, a 299; (Tasmania), XXIII, a 80; (Victoria), XXIV, a 234
—— marginata (Jarrah Wood), XIII, a 604; (Western Australia), XXIV, a 636
Eucharis, plants (Horticulture), XII, b 275
EUCHARIST, sacrament, VIII, a 571-4
  authorities, b 574
  celebration, b 572–3
  designations of, b 571–2
  doctrines, b 573–4
  nature of, a b 571
—— (Abstemii), I, a 59; (Aquarians), II, b 189; (Berengarius), III, a 506; (Calvin), IV, a 635, b 636, b 637; (Collier), VI, a 130; (Grail, Holy), XI, b 31; (Greek Church), b 141; (Jesus Christ), XIII, b 678; (Liturgy), XIV, b 712–8; (Lutherans), XV, a b 86; (Mandæans), b 477; (Missal), XVI, b 531; (Mohammedanism), a 622; (Occam), XVII, a 739; (Priest), XIX, b 749; (Radbertus), XX, b 217; (Trent, Council of), XXIII, a b 581, a *b* 584
——, growth of doctrine (Gospels), X, a 731; law of celebrating (Vestments), XXIV, b 211; Paul's account of (Gospels), X, b 723; test (Test Acts), XXIII, *a b* 216, a 217; Zwinglian theory of (Schwenkfeld), XXI, b 484; (Zwingli), XXIV, b 872, b 873
Eucharistic rites (Sacrifice), XXI, a b 147–8; tracts (Pusey), XX, a b 123
Eucher, St., of Lyons (Salvian), XXI, *b* 250
Euchites, sect (Hesychasts), XI, b 698; (Monachism), XVI, a 727
Euchlanidæ, animalcules (Rotifera), XXI, a 12
Euchlorine gas (Chemistry), V, a 429
Euchologium, oriental missal (Roman Catholic Church), XX, b 645
EUCHRE, game, VIII, b 574–5
Euchroite (Mineralogy) (Ill.), XVI, a 423
Euclase (Mineralogy) (Ill.), XVI, a 394, b 426
Euclaves, districts (Prussia), XX, b 5
EUCLID, mathematician, VIII, b 575–8
  biographical notes, b 575
  editions of, b 577–8
  lost works, a b 577
  originality of, b 576
  preserved books, b 575–6
  school use of, b 576
  spurious books, a 577
—— (Alexandrian School), I, a 441; (Algebra), a 451; (Analysis), a 696; (Astronomy), II, b 654; (Geometry), X, a 334; (Hobbes), XII, a *b* 35; (Maxima and Minima), XV, a 650; (Measurement), a 666, *b* 670, *b* 671; (Porism), XIX, *a* 534, a 535; Axioms of, III, *a* b 138, a 139; differentiæ of (Measurement), XV, a 666
Euclid's Elements (Geometry), X, a 334–46; (Pythagoras), XX, b 146, b 147, b 148
EUCLID or Euclides of Megara, philosopher, VIII, a b 578; (Ethics), b 509, a 511; (Socrates), XXII, *a b* 250
Eucope, diblastula of (Hydrozoa) (Ill.), XII, a 581
Eucorybas, genus of arthropods (Myriapoda), XVII, b 126
Eucrasite (Mineralogy), XVI, a 443
Eucratides of Bactria, king (India), XII, b 827; (Persia), XVIII, b 601, a 602
Eucyrtidium (Protozoa), XIX, a 860, a 873, a 874
Eudemus of Rhodes, philosopher (Astronomy), II, b 653; (Peripatetics), XVIII, b 556–7; (Pythagoras), XX, *a b* 146, note, a b 147, *a* b 148; (Theophrastus), XXIII, a 297
Eudes or Eudon, or Odo I., king (Aquitania), II, b 203; (France), IX, b 469; (Toulouse), XXIII, b 516
—— or Odo, king, France (Charles III.), V, a 355; (France), IX, *b* 472–3; (Seals), XXI, a 614
Eudialite (Mineralogy) (Ill.), XVI, b 444
Eudicksonia (Ferns), IX, b 90
Eudnophite (Mineralogy), XVI, a 439
EUDOCIA, empress (Theodosius II.), VIII, b 578–9; (Jerusalem), XIII, a 653
—— or Eudoxia, empress of Valentinian III. (Genseric), X, a 143; (Vandals), XXIV, a b 65
EUDOCIA AUGUSTA, empress, VIII, a 579; (Dictionary), VII, b 158
Eudoxia, daughter of Valentinian III. (Vandals), XXIV, *b* 65
——, empress of Arcadius (Chrysostom), V, *a* 661; (Hymns), XII, b 614
Eudoxov Techne (Palæography), XVIII, a 150, a 167
EUDOXUS of Cnidus, astronomer, VIII, a 579; (Astronomy), II, a b 653; (Euclid), VIII, b 576, b 577; (Ptolemy), XX, a b 95 note; (Zodiac), XXIV, *a* 831
EUDOXUS of Cyzicus, navigator, VIII, a 579; (Geography), X, b 157; (Troad), XXIII, a 618
Eudrilus, genus (Worm), XXIV, a 713, a 716, a b 717, a 718
Eudyptes, genus of birds (Penguin), XVIII, b 502
Euemerism. See EVEMERUS and MYTHOLOGY
Euemerus, author. See EVEMERUS
Eugammon of Cyrene, poet (Greece), XI, a 123
Euganean hills (Italy), XIII, b 444, a 452, a 456
Euganeans, tribe (Italy), XIII, a 456
Eugene city (Oregon), XVII, b 848
EUGENE, François, prince of Savoy, VIII, a 579–81
  characteristics of, a b 581
  Italian campaigns, a *b* 579, a 580
  last years, a 581
  Netherland campaigns, a b 580
  Spanish succession war, b 579–80
  Turkish campaigns, b 579, b 580–1
  youth, a 579
—— (Austria), III, a *b* 110, a 111; (France), IX, a *b* 512, *a b* 513; (Huchtenburg), XII, *b* 343; (Saxe), XXI, b 361; (Turkey), XXIII, a b 687, a 688
Eugene Aram, poem (Hood, T.), XII, a 149
—— *Onyegin* (Poushkin), XIX, a *b* 669
Eugenian Clans (Ireland), XIII, b 258
Eugénie, empress, France (Clarendon), V, b 706; (France), IX, b 548, a 549, b 551, a 552; (Mérimée), XVI, a b 42; (Napoleon III.), XVII, b 234, a 235; (Old Catholics), a 776
EUGENIUS, popes, VIII, b 581–2
EUGENIUS I., pope, VIII, b 581
EUGENIUS II., pope, VIII, b 581; (Rome), XX, a 805
EUGENIUS III., pope, VIII, b 581–2; (Ireland), XIII, b 268; (Patrician), XVIII, b 421; (Rome), XX, a b 810–11; (Tortosa), XXIII, a 490; (Universities), b 888
EUGENIUS IV., VIII, a b 582, (Basel), III, *a b* 353; (Cardinal), V, b 85 note; (Pius II.), XIX, *b* 162; (Popedom), a b 517, b 524; (Reformation), XX, *a* 334; (Rome), a 823; (Universities), XXIII, a b 897
—— of Gaul, emperor (Rome), XX, a 797, a 798; (Theodosius I.), XXIII, *a* b 278; (Valentinian II.), XXIV, a 43
Eugenol, oil (Cloves), VI, a 38
Euglena (Protozoa), XIX, b 860; (Biology), III, *b* 588, b 599
Euglenina (Protozoa), XIX, b 880, a 881
Euglenoid state (Protozoa), XIX, a *b* 877, b 879
Euglenoidea (Protozoa), XIX, a b 881, b 883
Eugonidia (Lichens), XIV, *b* 559
EUGUBINE TABLES or Iguvine Tables, VIII, b 582–3; (Italy), XIII, b 453
Eugubium, town (Eugubine Tables), VIII, b 582; (Gubbio), XI, b 215
Eugyra, genus of (Tunicata), XXIII, b 656
Euhemeros or Euhemerus, author. See EVEMERUS
Eukairite (Mineralogy), XVI, a 408
Eukolite (Mineralogy) (Ill.), XVI, b 444
Eulabia, bird (Goose), X, a 692
Eulæus river (Susa), XXII, a 760
Eulalia, St., martyr (France), IX, a 561
Eulamia, fish (Shark), XXI, a 811 note
Eulampis (Birds), III, a 650
Eulenberg, Hermann, physician (Touch), XXIII, *b* 511
EULENSPIEGEL, story, VIII, a b 583; (Germany), X, a 472
Euler, Johann Albert, mathematician, VIII, a 584
EULER, Leonard, mathematician, VIII, b 583-4; (Aëronautics), I, a b 184; (Algebra), b 454, b 484; (Annuities), II, a 71; (Astronomy), b 663, a 664; (Encyclopædia), VIII, a 181; (Geography), X, b 184; (Hydromechanics), XII, *b* 453; (Infinitesimal Calculus), XIII, b 13, b 16, a 21, b 22, a b 33, a 39, b 50, a 51, a 53, a b 66, a b 67, b 68, a 70; (Lagrange), XIV, a *b* 208, b 210; (Light), b 602–3; (Magic Square), XV, a 217; (Monge), XVI, b 765; mathematician (Numbers), XVII, a 629; (Quaternions), XX, a 169; (Robins), b 622; (Squaring the Circle) XXII, a 453; (Tables), XXIII, a 19; (Telescope), b 149; (Trigonometry), b 597–8, b 603, a *b* 607, a 608, *b* 609
Eulerian integrals (Infinitesimal Calculus), XIII, b 50; (Legendre), XIV, a 414; method (Hydromechanics), XII, *a* 462–5, a b 468–75
Euler's compression theory (Strength of Materials), XXII, a b 638; constant (Infinitesimal Calculus), XIII, a 53; equations for a rigid body (Mechanics), XV, a b 745
Eulogius of Toledo, bishop (Spain), XXII, a 327
Eulysite, rock (Geology), X, a 210
Eulytine (Mineralogy), XVI, a 429
Eumarus of Athens, painter (Archæology), II, a 309
Eumathius or Eustathius, novelist (Romance), XX, a 652
Eume river (Lugs), XV, a 62
Eumelus, artist (Pausanias), XVIII, b 448
EUMENES, general, VIII, b 584–5; (Alexander the Great), I, a 426, b 428; (Antigonus I.), II, b 112–3; (Persia), XVIII, b 596, a 597

Eumenes II., king, Pergamum (Palæography), XVIII, b 148; (Pergamum), b 538; (Rome), XX, a 772, a 773
Eumenidæ, insects (Wasps) (Ill.), XXIV, *a* 412, b 413–4
Eumenides or Erinyes (Areopagus), II, *b* 424, b 425. See ERINYES
Eumenides, tragedy (Æschylus), I, *b* 188; (Drama), VII, b 340; (Harvey), XI, b 451
Eumerogenesis (Hydrozoa), XII, b 587, *a* 588; (Vertebrata), XXIV, *b* 198
Eumetopias stelleri (Seal), XXI, a 610, note
Eumolpia, town (Philippopolis), XVIII, b 767
Eumolpidæ, people (Greece), XI, b 86
Eumolpus, myth (Mysteries), XVII, a 134; (Greece), XI, a 122
Eumomota, bird (Motmots), XVII, b 9
Eu-mycetozoa of Zopf (Protozoa), XIX, a 860
EUNAPIUS, historian, VIII, a 585
Eunetta, sub-genus (Teal), XXIII, a 113
Eunicidæ (Annelida) (Ill.), II, a 59, a 60, a 61
EUNOMIUS, bishop, VIII, a b 585
Eunostos (Alexandria), I, b 436
EUNUCHS, VIII, b 585–6; (Adoption), I, a 149; (China), V, a 561; (Greece), XI, a 104; (Harem), a 428; (Julian), XIII, a b 778; (Motanabbi), XVII, b 7; (Voice), XXIV, *a* 295
Eupalinus, engineer (Aqueduct), II, a 191
EUPATORIA, town, VIII, a 586; (Crimea), VI, a 519; (Taurida), XXIII, a 90
Eupatridæ or Eupatrids, nobles (Greece), XI, *a* 87, a 88; (Nobility), XVII, a b 540
EUPEN, town, VIII, a 586
Euphemia, St., of Chalcedon (Rovigno), XXI, a 34
Euphemios or Euthymios of Syracuse, soldier (Sicily), XXII, b 28–9
Euphony (Philology), XVIII, b 786; (Tamils), XXIII, b 47
Euphorbia, plant (Botany) (Plate XIII), IV, a 77, b 111; (Gutta Percha), XI, b 303; (Horticulture), XII, b 258
Euphorbiaceæ (Botany) (Plate XIII), IV, b 116, b 133, b 136, b 138, b 141
EUPHORBIUM, resin, VIII, b 586
EUPHORION of Chalcis, poet, VIII, b 586
——, son of Æschylus, tragedian (Euripides), VIII, a 592
Euphotide, boulders (Jade), XIII, b 550
EUPHRANOR, painter and sculptor, VIII, b 586; (Archæology), II, a 316, a 318
EUPHRATES, river, VIII, b 586–9
  charts, b 589
EUPHRATES, *continued*
  course of, b 586–9
  in history, b 587
  irrigation canals, a b 588
  valley transportation system, a b 589
—— (Baghdad), III, *b* 199; (Mesopotamia), XVI, a 52, a b 53, *b* 55, b 56, a 57; sources of (Asia Minor), II, b 616; tunnel (Tunnelling), XXIII, a 663; turtle of the (Tortoise) (Ill.), b 488, a 489
Euphrosyne, myth (Graces), XI, b 24
Euphues and His England, Lyly (English Literature), VIII, b 375–6; (Lyly), XV, a b 104, a b 105
Euphuism (Lodge), XIV, a 775; (Lyly), XV, b 105, *a* 106
Euphyllite (Mineralogy), XVI, a 431
EUPION, hydrocarbon, VIII, b 589; (Paraffin), XVIII, a 241
Euplectillidæ (Sponges), XXII, a 439
Eupleres, carnivorous mammal (Mammalia), XV, b 443
Euplotes (Protozoa) (Ill.), XIX, b 886, a 888
Eupoda (Insects), XIII, a 156
Eupodotis (Birds), III, a 643, b 655
EUPOLIS, poet, VIII, a 590; (Drama), VII, a 352, note
Eupolyzoa (Polyzoa) (Ill.), XIX, a b 444, b 445, a b 446, *a* b 447, a 451–3
EUPOMPUS, painter, VIII, a 590; (Archæology), II, b 317
Eupsammidæ, group (Corals), VI, b 333, a 337
EURE, department, VIII, a b 590; River, *a b* 590; (Orne), XVIII, a 5
EURE-ET-LOIR, department, VIII, b 590
Eureka, Nevada, city (Lead), XIV, a 375, a 376; (Nevada), XVII, *b* 377; mines (United States), XXIII, a 868
Eurelius. See DAHLSTJERNA
Euretidæ (Sponges), XXII, a 459
Eurialus and Lucretia (Pius II.), XIX, b 162, b 163; (Romance), XX, a 676
Euric, Visigothic king (Goths), X, b 755, b 756; (Salic Law), XXI, *b* 226; (Spain), XXII, a b 323
Euridice, opera, Peri's (Music), XVII, a 94; (Wagner), XXIV, b 335
EURIPIDES, dramatist, VIII, b 590–6
  age, the dramatic, a 591–2
  editions, b 596
  life, b 590–1
  literary history, a 595–6
  manuscripts and scholia, a b 596
  works, a 592–5
——. (Antigone), II, b 112; (Aristophanes), a 447, *a* 448; (Drama), VII, *a* b 350, *a b* 351, *a* 352, a 353; (Greece), XI, b 125; (Iphigeneia), XIII, b 217; (Menander), XVI, b 6, note, a 7; (Porson), XIX, a b 539, a 540; (Slavery), XXII, b 139; (Sophocles), b 284, a 285, a 286, *b* 287; (Thebes), XXIII, a *b* 249
Euripides, MSS. (Palæography), XVIII, b 150
Euripus, channel (Eubœa), VIII, b 568, a *b* 569; (Euripides), b 590; (Greece), XI, b 74, a 80
EUROPA, myth, VIII, b 596–7
——, Peñas de, range (Spain), XXII, a 308
EUROPE, continent (Plates IX–XII), VIII, a 597–632
  area and boundaries, b 597–8
  canals, b 623
  cities, b 618–9
  climate, a b 604
  coast line and changes, a 598–9
  commerce, b 620–1
  debts, national, a b 620
  domestic animals, b 610–11
  education, a 623–5
  flora natural, b 605–6
  forests, a 607–8
  geological formations, a b 603
  HISTORY (Plates X–XII), a 626–9
    barbarous irruption age, b 626–7
    classical period, a b 626
    eighteenth century, a 628
    mediæval period, a b 627
    nineteenth century, a 628–9
    Reformation and religious wars, b 627–8
  humanitarianism, a b 632
  INDEX, a b 632
  industrial products, a 621–2
  internationalism, b 630–1
  introductory, a b 597
  lakes, *b* 601–3
  LANGUAGE, a 613–6
    ancient classical, a 614
    Celtic, a 615
    classification, a b 613
    Finno-Tartaric, b 615–6
    Lettish, b 615
    Romance, a b 614
    Semitic, b 615
    Slavonic, a b 615
    Teutonic, b 614–5
    unclassified, b 615, a 616
  military and naval, b 619–20
  minerals, useful, b 603–4
  mountain systems, a 600–1
  nationalism, b 630
  POLITICAL DIVISIONS, a b 616
    table of, a b 617
  population, b 616–9
  races, a 611–3
  railways, a 622–3
  rainfall, b 604–5
  religion, a 625–6
  rivers, a b 601
    table of, 602
EUROPE, *continued*
  sex distribution, a b 618
  snow-line, b 605
  surface relief, b 599–601
  telegraphs, a b 623
  territorial divisions, rise of, b 529–30
  toleration, b 631–2
  vegetation, industrial, a 606–7
  volcanoes and earthquakes, a b 599
  winds, a b 605
  ZOOLOGY, a 608–11
    birds, a b 609
    fishes, b 609–10
    insects, a b 610
    mammals, a 608–9
    reptiles, a 610
——, Birds of, III, a 655–7; (Ornithology), XVIII, b 20–2
—— climate (Meteorology), XVI, a 128, a 130, b 145, a 151, a b 154, b 162, b 163; of northwestern (Atlantic), III, b 22–4
——, Continental, archæan rocks of (Geology), X, a 290; Cambrian system (Geology), b 292–3; Carboniferous system (Geology), a b 310; coal-fields (Coal), VI, b 52–5; Cretaceous system (Geology), X, a 319–20; Devonian system (Geology), b 302–3; Eocene system (Geology), a 322–3; Permian system (Geology), b 311–2; Pliocene system (Geology), a 324; Quarternary period (Geology), b 324–8; Silurian system (Geology), a 299–301; Triassic (Geology), b 313; West Coast (Geology), a 236
——, conflagrations of (Fire), IX, b 202–3
——, fauna of (Distribution), VII, b 233, a b 234–5, *b* 239, *a b* 240, *a* 242, a 243; faunal literature (Reptiles), XX, a 454
——, fishes of (Ichthyology), XII, b 713–5, b 716–7
——, flora of (Distribution), VII, *b* 249–51
——, Forests of, IX, b 350–5
——, geography of prehistoric (Cave), V, a b 233
——, Gold in, X, a b 660–1
——, Ottoman invasion of (Turkey), XXIII, a 682
——, Protestants in, XIX, *a b* 848
——, railroads in (Railway), XX, b 261–3
——, Renaissance in, XX, a 392–406
——, rainfall of (Meteorology) (Ill.), XVI, a b 157
——, ratio of Taxation, XXIII, a 925
European armies, ancient (Army), II, a 491–3; mediæval (Army), b 493–5; modern British (Army), a 497–516; continental (Army), b 519–41
—— avifauna (Birds), III, a 655–7; (Beaver), b 410; Costume, early, VI, a 411–12; Fairs, early VIII, a b 742; influence in Asia, II, b 612–3; islands, avifauna of (Birds), III, b 654, b 656; Ivy (Ill.), XIII, a 535, a

European, *continued* 536, a b 537; Jay (Ill.), a b 621; languages (Dictionary), VII, a 158–64; genealogy of (Philology), XVIII, b 799; Magic, XV, b 205; manufactures, statistics (Cotton), VI, a 447–50; (Iron), XIII, a b 368; porcelain, early (Pottery and Porcelain), XIX, b 655–64; settlements in (India), XII, b 835–9; storms (Meteorology), XVI, a 160; system of Government, XI, a 11, a 12
—— Turkey, XXIII, a b 694
Europeans in the tropics (Acclimatization), I. *a b* 84, a b 85; in Tibet (Lhasa), XIV, a 503
Europo-Asiatic region (Ichthyology), XII, b 713–5; (Reptiles), XX, b 485–6
Eurotas, river (Laconia), XIV, a b 194
Eurotium repens (Fungus) (Ill.), IX, a b 732
Euryalidæ (Echinodermata), VII, b 549, *a* 550
Euryalus, suburb (Syracuse), XXII, *a* 854, a 855, a 856
Euryanthe, opera (Weber), XXIV, b 495, a 496
Euryantheæ (Grasses), XI, b 51
Eurybiades, admiral (Themistocles), XXIII, a 270
Eurycerotidæ (Birds), III, a 659
Eurydice, genus (Crustacea), VI, a 583
——, nymph (Aristæus), II, b 443; (Orpheus), XVIII, b 54. See *Euridice*
Eurylæmidæ (Birds), III, b 659, b 660
Eurylidæ (Echinodermata), VII, a 550
Eurymedon, river (Asia Minor), II, a 619; (Pisidia), XIX, *a* b 139
EURYMEDON, general, VIII, a b 632
Eurynorhynchus (Birds), III, b 655
Eurypelma (Arachnida), II, b 261
Euryplegmatidæ (Sponges), XXII, b 439
Eurypontidæ, dynasty (Greece), XI, b 84
Eurypterida, order (Crustacea), VI, a b 578, a b 579, b 585, a b 586; Eurypyga, genus (Birds), III, a 645; (Heron), XI, a 681 note; (Ornithology), XVIII, b 49, a 50; (Sun-bittern), XXII, b 686–7
Eurypygidæ, family (Birds), III, a b 647
Eurystheus, myth (Hercules), XI, *a* 649
Eurystomata, group of Actinozoa, I, a 122
——, snakes (Reptiles), XX, a b 464
Eurystomus, bird (Roller), XX, a 643
Eusebia, empress, Rome (Julian), XIII, a b 778
EUSEBIUS of Cæsarea, church historian, VIII, b 632–4; (Apostolic Fathers), II, b 171, *a* b 172; (Canon), V, b 8, a 10, note; (Church History), a 668; (Chronology), a 618, b 624; (Clemens Alexandrinus), *b* 715, *a b* 716; (Creeds), VI, a 496; (Gospels), X, a b 725, note, *a* 726, note, *b* 729; (Hierocles), XI, b 708; (Image Worship), XII, b 750; (Irenæus), XIII, a b 279, a 280; (James), a 562, a 563, b 564; (Jerome), *b* 641; (John, Epistles of), b 718, b 720; (Justin), b 800; (Monachism), XVI, a 725; (Millennium), a 329; (Origen), XVII, a 865, a 867; (Parian Chronicle), XVIII, b 278; (Pastoral Epistles), b 355; (Philip), a 756; (Pamphilus), a 208; (Polycarp), XIX, *a* 429; (Socrates), XXII, b 251, b 252; (Syriac Literature), a 871, note; *Chronicle of* (Scaliger), XXI, b 379
—— of Dorylæum, bishop (Eutyches), VIII, a 635; (Nestorius), XVII, b 364
EUSEBIUS Emesa, theologian, VIII, a 634
EUSEBIUS of Nicomedia, bishop, VIII, a b 634; (Athanasius), II, a *b* 725; (Arius), b 471, *a* 472
—— Pamphili, historian. See EUSEBIUS of Cæsarea
—— of Vercelli, bishop (Clergy), V, b 722, a 723
Eusmilus, fossil (Mammalia), XV, b 441
Euspongia (Sponges), XXII, a 434, a 438, *a* 440, *a* b 441, a 445
Eustace of Boulogne, count (Godwine), X, *b* 641
Eustace Conway (Maurice), XV, b 645
Eustacheo, Bartolomeo. See Eustachius (Amphibia), I, b 668, a 674
Eustachian tubes (Anatomy), I, b 783, a 784; (Diving), VII, a 260; (Ear), a b 511, *a* 514; (Mammalia), XV, b 368; valve (Anatomy), I, b 790; (Vascular System), XXIV, a 119
Eustachius or Eustacheo, Bartholomeo, anatomist (Anatomy), I, a 703, a 709, b 710, a 711; (Vascular System), XXIV, a 104
Eustathians, sect (Fasting), IX, b 42
EUSTATHIUS, St., of Beroea, VIII, b 634
EUSTATHIUS of Thessalonica, archbishop and critic, VIII, b 634–5; (Electricity), a 5; (Greece), XI, b 130; critic (Homer), XII, b 118 note, a 125
—— the Macrembolite, novelist (Greece), XI, b 131
Eustephanus (Birds), III, b 646–7
Eustochium, Julia, St., nun (Jerome), XIII, b 641–2
Eustyle, arrangement of columns (Architecture), II, b 407
Eusuchia, sub-order (Crocodile), VI, b 525
Eutaw Springs, battle of, 1781 (Greene), XI, a 146; (United States), XXIII, b 792
EUTERPE, muse, VIII, a 635
Euterpe Montana (Botany), IV, b 92
Euthalius of Alexandria (Bible), III, *a* 558
Eutheria, sub-class (Mammalia), XV, a *b* 374–5
Euthycrates, sculptor (Archæology), II, a 319
Euthydemus I., king, Bactria (Numismatics), XVII, a 679; (Persia), XVIII, b 601
Euthydemus (Isocrates), XIII; b 401; (Plato), XIX, a b 217–8, a 219; (Sophists), XXII, *a* b 283
Euthyneura, branch of Mollusca, (Ill.), XVI, b 667, a 668, a 678–88
Euthyphro (Plato), XIX, a b 209, b 214; (Socrates), XXII, a 249
Eutocius, mathematician (Conic Sections), VI, a 242; *Commentaries of* (Archimedes), II, b 333
Eutracheata, group (Myriapoda), XVII, a 124–8
Eutropius, St., bishop (Saintes), XXI, *a* 176
EUTROPIUS, historian, VIII, a 635; (Hadrian, Wall of), XI, a 327; (Paulus Diaconus), XVIII, a 447
EUTYCHES, sectary, VIII, a b 635; sectary (Hilarius, Rome), XI, *a* 726; (Jesus Christ), XIII, *a* 682
Eutychianism (Armenian Church), II, *a* b 481; (Heresy), XI, b 658; (Nestorius), XVII, *b* 365
Eutychians, sect (Copts), VI, a 314; (Monothelites), XVI, b 784
Eutychides, sculptor (Archæology), II, a b 319
Eutychius of Alexandria, patriarch and historian (Tabarí), XXIII, b 8; (Church History), V, a 668; (Temple), XXIII, a b 185
Euxenite (Mineralogy), XVI, b 445
Euxine Sea (Black Sea), III, b 690
EUYUK or Uyük, village, VIII, b 635
EVAGORAS, king of Salamis, VIII, b 635–6; (Persia), XVIII, *a* 589, a 590; (Phœnicia), b 822
Evagoras (Isocrates), XIII, a 403
EVAGRIUS, historian, VIII, a 636; (Church History), V, a 668
EVANDER, myth, VIII, a 636
EVANGELICAL ALLIANCE, VIII, a b 636
EVANGELICAL ASSOCIATION, sect, VIII, b 636; (Methodism), XVI, a 200
"—— Church" (Germany), X, a 422
—— church party, England (Stanley), XXII, a 471
—— divinity (Dogmatic), VII, a b 292
EVANGELICAL UNION, sect, VIII, b 636–7
—— Union, French (Presbyterianism), XIX, *b* 715
Evangelicalism, English (Club), VI, b 40; French (D'Aubigné, J. H. M.), a 733; German (Gustavus Adolphus Union), XI, a 300
Evangeline (Longfellow), XIV, a 872, b 873
Evangelische Kirchenzeitung (Hengstenberg), XI, b 582
Evangelism (Methodism), XVI, b 193, a 201
Evangelium Infantiæ Arabicum (Gospels), X, b 705 note
Evanidæ (Hymenoptera), XII, a 611
EVANS, Sir De Lacy, soldier, VIII, a 637
——, Edmund, engraver (Engraving), VIII, a 391
——, Sir Frederick (Meteorology), XVI, b 171
——, Frederick William, elder (Shakers), XXI, b 773
——, John, anthropologist (Ethnography), VIII, b 550; (Geology), X, a 194
——, Marian, novelist. See Eliot, George
EVANS, Oliver, inventor, VIII, a b 637; (Patents), XVIII, b 881; (Steam-Engine), XXII, b 494, note, b 920, b 922, a 923
——, W. R., spelling reformer (Phonetics), XVIII, b 825
Evansite (Mineralogy), XVI, b 422
EVANSON, Edward, divine, VIII, b 637
EVANSVILLE, city, VIII, a 688
Evaporating pans (Salt) (Ill.), XXI, a b 244–5
EVAPORATION, VIII, a 638–42
  aqueous vapor, a b 639
  boiling point, b 638–9
  conditions of, a 638
  critical point, a 642
  Dalton's experiments, b 639–40
  dynamics, b 642
  latent heat, b 641–2
  pressure measurement, b 640–1
  rate of, b 640
  Regnault's experiments, a b 641
  saturation, a b 638
  spheroidal condition, a 639
  steam and frost line, a b 641
  volume and pressure, a b 642

—— (Barometer), III, b 332; (Black Sea), a 693; (Caspian Sea), V, a b 155, b 157; (Constitution of Bodies), VI, *a* 277; (Diffusion), VII, a 189; (Mediterranean Sea), XV, a b 830; (Meteorology), XVI, a 124; (Red Sea), XX, b 329–30; (Water-Supply), XXIV, b 424
—— calorimetry (Heat), XI, b 496; in cylinder (Steam-Engine), XXII, a b 507, a 509, a 513; electrification by (Electricity), VIII, a 10; and pressure (Sainte-Claire Deville), XXI, a 175; river (Geology), X, a 242, note; solar (Thunderstorm), XXIII, b 350; of water (Chemistry), V, b 419
Evaristus, pope (Roman Catholic Church), XX, b 644
Evarts, William Maxwell, senator (Greeley), X, b 144

- EVE, VIII, b 642-4; (Adam), I, *b* 127; (Manichæism), XV, a 491; tomb of (Jiddah), XIII, b 702
- *Eve of St. Agnes,* poem (Keats), XIV, a 25, a 26
- Evection, lunar (Astronomy), II, b 655, a 699; (Moon), XVI, b 825, a 826; (Ptolemy), XX, a 95
- *Evelina,* novel (D'Arblay), VI, *b* 723
- Evelyn, George, manufacturer (Gunpowder), XI, a 284
- EVELYN, John, author, VIII, a b 644; (Agriculture), I, b 265; (Dockyards), VII, *a* 270; (Holly), XII, b 105; (Hornbeam), b 172; (Inns of Court), XIII, b 95-6; (London), XIV, a 830, *b* 859; (Records), XX, a 327
- Evelyn's *Sylva* (Arboriculture), II, b 275, b 283
- EVEMERUS, Euemerus or Euhemerus, mythographer, VIII, b 644; (Macedonian Empire), XV, b 141; (Messina), XVI, b 62; (Mythology), XVII, *a* 144; (Phœnicia), XVIII, b 815; (Sicily), XXII, b 25
- *Evening and Morning,* sculpture (Michel Angelo), XVI, b 242
- —— Papers (Newspapers), XVII, b 429-30
- *Evening Walk,* poem (Wordsworth), XXIV, b 703, a 704
- Events, Chronological Table of, V, a 625-60
- Eventuality, organ of (Phrenology), XVIII, a 860
- Evenus, poet (Theognis), XXIII, a 280
- Everard de Barris, master (Templars), XXIII, a b 76
- EVERDINGEN, painters, VIII, b 644
- EVERDINGEN, Allart von, painter, VIII, a 645
- Everest, mount (Himalaya), XI, a 737; (Nepal), XVII, b 349
- EVEREST, Sir George, geographer, VIII, a b 645; (Earth), VII, a 518; (Surveying), XXII, a 732, a 737
- EVERETT,, Alexander Hill, author, VIII, b 645
- EVERETT, Edward, orator, VIII, a 646-7; (American Literature), I, a b 634
- ——, Joseph David, physicist (Measurement), XV, b 674, a 675; (Shorthand), XXI, b 879
- Everett's salt (Prussic Acid), XX, a 29
- Everglades (Florida), IX, *b* 296
- Evergreen cuttings (Horticulture), XII, b 217
- —— Oak, XVII, a b 713
- —— shrubs and trees (Arboriculture), II, b 276, a b 280; (Botany), IV, a 107; (Horticulture), XII, a 223, b 268, a 269
- Everlasting League (Unterwalden), XXIII, a *b* 915
- —— punishment (Isaiah), XIII, a 393
- Everlastings or Immortelles (Horticulture), XII, b 258; (Immortelle), a 755
- Evernia (Lichens), XIV, b 559, *a* 563, a 565
- *Every-day Book* (Hone), XII, a 139, note
- *Every Man in His Humor* (Jonson), XIII, a 752, a b 755, a 756
- —— *Man Out of His Humor* (Jonson), XIII, a 752, a b 755
- Everts, Johann, poet (Secundus), XXI, b 649
- Evertsen, Jan and Cornelis, sea-captains (Middleburg), XVI, b 290
- EVESHAM, town, VIII, a 647; (Worcester), XXIV, a 701; battle of, 1265 (Montfort), XVI, b 814; vale (Worcester), XXIV, b 700
- Eve's thread, plant (Yucca), XXIV, b 798
- Eviction (Ireland), XIII, a b 278; in jus civile (Roman Law), XX, b 707, a 708
- EVIDENCE, VIII, a 647-52
    - admissions, a b 649
    - burden of proof, b 650-1
    - competency of witnesses, a b 651
    - direct and circumstantial, b 647-8
    - documentary, a b 650
    - English law of, a 648-9
    - hearsay, a b 649
    - opinion, b 649-50
    - proof, nature of, a b 650
    - relevancy, b 648-9
    - theory of, a b 647
    - witnesses in trials, b 651-2
    - writers on, a 652

———

- —— (Brehon Law), IV, a 227; (Insanity), XIII, b 119; (Jury), b 794-5, *a* b 796; (Law), XIV, b 366; (Stamps), XXII, b 465; (Torture), XXIII, a 490-6; (Witness), XXIV, a þ 658
- ——, philosophy of (Condillac), VI, a 222; (Probability), XIX, b 788-9; (Psychology), XX, b 87; (Theology), XXIII, b 283
- Evidences, Christian (Bible), III, a b 556
- *Evidences of Christianity* (Jenyns), XIII, a b 636; (Paley), XVIII, a b 186
- —— patristic (Gospels), X, b 723-8, b 729-33
- Evigtokite (Mineralogy), XVI, b 399
- Evil (Leibnitz), XIV, b 423; (Paul), XVIII, b 434; (Pelagius), a 483; (Stoics), XXII, b 596-7; (Theosophy), XXIII, b 298-9; origin of (Adam), I, a b 125, a *b* 126, *b* 127; (Gnosticism), X, b 627-8; Spinoza on the negation of (Cartesianism), V, a b 136, a 138
- Evil-eye (Magic), XV, a 206
- Evil-Merodach, king (Babylonia), III, a 163
- Evliyá, traveller (Turkey), XXIII, a 699
- Evolute curves (Infinitesimal Calculus), XIII, a 29; (Huygens), XII, a 432; (Mechanics), XV, b 686-7
- Evolution (Algebra), I, a 464, b 465-7; of surds (Algebra), a b 472
- EVOLUTION, VIII, a 652-76
    - BIOLOGY, a 652-8
        - Bonnet and Haller's school, b 652-3
        - continuity, Descartes and Leibnitz on, a b 655
        - distribution, a 658
        - embryology, rise of, a b 653
        - environment, b 657
        - epigenesis, Harvey's, a b 652, b 654
        - gradation of complexities, a 656-7
        - growth, method of, a b 654
        - individual, evolution of the, b 653-4
        - Lamarck and Treviranus, b 655-6
        - Meckel's essay, a 657
        - modern theorists, a 656
        - molecules organiques, a 653
        - morphology, a b 657
        - originative postulates of modern view, b 654-5
        - potential matter, b 653-4
        - rudimentary structures, b 657
        - variation, causes of, b 655-6, b 657-8
    - index, a b 676
    - PHILOSOPHY, a 658-76
        - anthropology, b 670, a b 673
        - Aristotle and Strato, b 662-3
        - atomists, Greek, b 662
        - creation, theories of, b 658-9
        - Darwin and Wallace, b 668-9
        - Darwinism in Germany, a 673-4
        - definitions, a b 658
        - eighteenth century writers, a 665-7
            - English, a b 665
            - French, b 665-6
            - German, a 666-7
        - English, recent writers, b 668-71
        - Epicureans, a b 663
        - ethics and religion, b 670-1, b 673-4, b 675-6
        - Fathers and Schoolmen, b 663, a 664
        - finality of, a b 675
        - French, recent writers, a b 671
        - German recent writers, b 671-4
        - Greek philosophy, b 661-3
        - Hegel, b 667
        - Indian philosophy, a b 661
        - Kant, b 666-7
        - Lotze, a b 672
        - mechanical view, a b 660, b 671, b 672
        - metaphysical view, a 670
        - modern doctrine, a b 668
        - monistic view, b 660-1, b 672-3
        - mythology, a 661
        - Neo-Platonists, b 663

EVOLUTION, *continued*

- PHILOSOPHY
    - nineteenth century, first half, a 667-8
    - objectivity, reality of, b 659
    - organic problems, a b 670
    - philosophical bearings, a 674-6
    - physicists, Greek, b 661-2
    - Platonists, b 662
    - principal authors, b 676
    - psychology, b 670, b 673
    - revival of learning, a b 664
    - Schelling, a b 667
    - Schopenhauer, b 667-8
    - Semitic, b 663-4
    - seventeenth century writers, b 664-5
    - Sophists, b 662
    - Spencer, a 669-70
    - Stoics, a 663
    - substantive conceptions, b 659-60
    - teleological view, b 660, b 671-2, a 673
    - unifying purport of, a 674-5

———

- —— (Abiogenesis), I, *b* 51; (Agassiz), b 249; (Al-Farabi), a 443; (Animal Kingdom), II, a b 45; (Arachnida), b 239; (Biology), III, b 596-7; (Bonnet), IV, a 32; (Crustacea), VI, 579; (Distribution), VII, a 232, a 247-8; (Embryology), VIII, b 151; (Ethics), b 534; (Ethnography), b 540; (Fine Arts), IX, a b 185-6; (Lamarck), XIV, b 232-3; (Mammalia), XV, a b 373; (Mimicry), XVI, a 355-7; (Mollusca), a 657; (Ornithology), XVIII, b 36; (Paley), b 186; (Parasitism), a 267; (Philology), a 783; (Tunicata), XXIII, a b 658; (Variation and Selection), XXIV, b 84, a b 87, b 92; (Zoology), b 840-2, b 856, b 859
- —— in criticism (Christianity), V, a 599
- —— of craniata (Vertebrata), XXIV, a 198-200
- ——, development of idea of (Zoology), XXIV, b 858-9
- —— of earth's sub-system (Tides), XXIII, a 404-5, a b 406
- ——, Hindu ideas of (Vedanta), XXIV, a 129, a b 130
- ——, historical (Herder), XI, a 651, a 652
- —— of ideas (Psychology), XX, b 66
- —— of man (Anthropology), II, b 97-8, b 101; (Archæology), a 293, b 299-300
- ——, philosophy of (Metaphysic), XVI, a b 97
- —— of planetary sub-systems (Tides), XXIII, a b 405, b 406
- ——, political (Socialism), XXII, a b 218, a b 220, a 223, a b 224, b 225, b 229-30

Evolution, rise of the theory of (Treviranus), XXIII, b 588
——, solar system (Tides), XXIII, b 405–6
——, stellar (Sun), XXII, b 685
Evolutional periods (Insanity), XIII, a 108–9, a b 115
EVORA, city, VIII, a 676; (Portugal), XIX, a 552, a b 554, a 556, a 564
—— Monte, convention of, 1834 (Portugal), XIX, a 568
Evotomys, mammal (Vole), XXIV, b 298
Evrard, Simonne, mistress (Marat), XV, b 534
Evremond, Charles de St. Denis, Seigneur de St. See ST. EVREMOND
EVREUX, town, VIII, b 676–7; (Normandy), XVII, b 552, a 554, b 556
EWALD, Heinrich Georg August von, orientalist, VIII, a 677–8; (Amos), I, b 655; (Canticles), V, b 31, b 32, note, *a b* 33; (Chronicles), *b* 613, a b 614, b 615, a 616; (David), VI, b 739 note, b 740; (Ephesians), VIII, a 410, note, b 412; (Gospels), X, a 748, a 749; (Hebrew Language), XI, b 537; (Hosea), XII, a 309, a b 310, b 311; (Isaiah), XIII, a 389, b 390, b 391, *a* 392; (Israel), b 441; (Jeremiah), a *b* 638, b 639; (Jesus Christ), b 682, b 683; (Job), b 711, note, a b 713, a 714; (Lamentations), XIV, a *b* 241, a *b* 243; (Pentateuch), XVIII, b 516, a 519; (Proverbs), XIX, b 904, b 905, a b 908, note, a 909
EWALD, Johannes, lyric poet, VIII, b 678–9; (Denmark), VII, a 80
Ewe (Milk), XVI, a 316
——, tribes (Negro), XVII, a 328
EWING, Alexander, bishop, VIII, b 679–80
——, J. A., physicist (Electricity), VIII, a b 47, a 50; (Seismometer), XXI, a 658 note, b 661
"Exaltation of the Cross," festival, VI, a 540
Examination of the British Doctrine of Capture (Madison), XV, b 184
EXAMINATIONS, VIII, a 680–4
  ACADEMICAL, a 680–3
    conduct in, a b 681
    effect of, a 682–3
      good, a b 682
      ill, b 683–4
    emoluments, acquisition of, a b 683
    origin of, a b 680
    subjects of, ancient, b 680–1
    teaching, relation to, b 681–2
    Whewell's reform, a 681
  authorities, b 684
  competitive, b 683–4
    methods, a b 684
    "pass-," b 683–4
    service, b 683
  personal results, b 684
——, competitive (China), V, a b 581, a 583; (Corea), VI, a 349; for commissions, British (Army), II, a 504, b 505; English local (Universities), XXIII, b 909, b 910
Examiner, journal (Fonblanque), IX, a b 315; (Hunt), XII, *b* 398, a 399; (Newspapers), XVII, b 426, a 430
Examiner, The (Swift), XXII, *a* 802
Example (Confucius), VI, *b* 234; (Rhetoric), XX, b 526
Exanthemata, diseases (Pathology), XVIII, a 414
Exanthemops, bird (Goose), X, a 692
EXARCH, VIII, b 684–5; of Ravenna (Rome), XX, *b* 800, a b 801, *b* 803; (Greek Church), XI, a 137, *a* 138, b 140, *a* 141; (Narses), XVII, a 240 note
EXCAMBION or exchange, law-term, VIII, a 685–6; (Entail), *a* 403
Excavating power of rivers (Geology), X, b 244–5
Excavation (Building), IV, a 409; (Rome), XX, b 843, b 848; German (Olympia), XVII, b 788–92; Prussian (Pergamum), XVIII, b 538
Exceptio doli, pleading (Roman Law), XX, b 717, b 720
—— non numeratæ pecuniæ (Roman Law), XX, a 715
—— rei venditæ et traditæ, process (Roman Law), XX, a 715, a 717
Excerptio, grammar (Hrabanus), XII, a 340
EXCHANGE, VIII, a 686–96
  bills, supply of, b 691
  circle of, b 687–8
  examples of, b 695–6
  favorable, a 694–5
  foreign, b 687–96
  inland, a 686–7
  interest, rate of, b 691–2
  negotiation of bills, a 695–6
  origin of, a 686
  panic, b 693–4
  par, b 688–9, a 696
  paper money, inconvertible, a 689–90
  remittance, cost of, b 692–3
  silver and gold, b 690–1
—— (Banking), III, a b 278; (Bullion), IV, a 464, a 465; (Commerce), VI, b 175–6; (India), XII, a 813
——, Bill of, III, a 582; (Acceptance), I, a b 79; (Accommodation), a 86
——, foreign (Value), XXIV, b 58; medium of (Money), XVI, a–b 746
EXCHANGE, STOCK, XXII, a 585–6
—— values (Socialism), XXII, a 223
Exchanges, buildings (Antwerp), II, a 128; (Hamburg), XI, a 362; (London), XIV, a *b* 841; (Manchester), XV, a 468; Royal, London (Gresham), XI, a 167
——, telephone (Ill.), XXIII, b 144–5
——, trade associations (New York), XVII, *a* 899
——, Law of (Radiation), XX, b 220–23
EXCHEQUER, courts of, VIII, a 696–7; chancellor of (Budget), IV, a 393; (Chancellor), V, a 338; (England), VIII, a 268; (Finance), IX, b 152–3; (Records), XX, a 325–6
——, Barons of, III, a 335; (Costume), VI, a 423
—— bills (Finance), IX, b 159; (National Debt), XVII, a b 251
—— Domesday, VII, *a* b 303
EXCISE, tax, VIII, a 697–8; (Brewing), IV, *a* 237, *b* 238, *a b* 239, a 240, b 241, *a* b 242; (Distillation), VII, a 290; (England), VIII, b 219, a 220; (Finance), IX, a 153, *b* 157, *a b* 161; (France), a 455; (Germany), X, b 417, b 418, a 419; (India), XII, b 811, a b 812; (Ireland), XIII, a 238, 241
——, frauds on (Walpole), XXIV, b 356–7; law, effect of (Breeds), IV, a 222
Excitability of nerves (Physiology), XIX, b 27–9, a b 32
Excitement (Medicine), XV, a b 823
Exclaves, districts (Prussia), XX, b 5
Excluded middle (Axioms), III, a 137, a 140
Exclusion or elimination (Bacon), III, b 185, a b 186, note, a 187
—— Bill (England), VIII, b 313; (Russell), XXI, b 71
EXCOMMUNICATION, VIII, b b 698–700; (Erastus), a 459; (Eucharist), a 572; (Talleyrand), XXIII, b 35, b 36
——, ancient (Penance), XVIII, a 496
—— of Henry IV. (Germany), X, a b 438
—— in India (Caste), V, b 165, note, b 166; Jewish (Penance), XVIII, b 495; papal (Encyclopædia), VIII, b 181
Excommunicato capiendo (Writ), XXIV, a 714–5
Excrementitious disease (Pathology), XVIII, b 413–14
Excretion (Protozoa), XIX, a 858; processes of (Nutrition), XVII, a 702–4
Excretory system (Mammalia), XV, a 369; of gastropoda (Mollusca) (Ill.), XVI, a 665, a 666; of siphonopoda (Mollusca), a–b 704; (Tapeworms), XXIII, a 56, *a* 60; (Trematoda), b 570, b 574; (Tunicata), a 651; (Worms), XXIV, a 714–5. See Excretion
Excursion, The. Wordsworth (Poetry), XIX, a 270; (Wordsworth), XXIV, b 704, *b* 708, note, *b* 709, *a* b 710, note, a 711
Exe, river (Devonshire), VII, b 120–1; (Hampshire), XI, b 384; (Somerset), XXII, a 271; (Tiverton), XXIII, b 448
Execution, criminal (Homicide), XII, a 128; (London), XIV, a 856
——, judicial (Process), XIX, a 810; (Sale), XXI, a 219; writs of (Judgment), XIII, b 774; (Writ), XXIV, a 731
Executive mansion, U. S. (Washington), XXIV, a 405
—— Warrant, XXIV, b 391–2
Executores justitiæ (Rome), XX, *a* 820
EXECUTORS AND ADMINISTRATORS, VIII, a b 700; duties of (Will), XXIV, a 604, b 605
Executory contracts (Sale), XXI, b 217, a 218, note
Exegesis, Biblical (Chrysostom), V, b 661; (Dogmatic), VII, b 289; (Hermeneutics), XI, b 663; (Homily), XII, b 128 note; (Isaiah), XIII, b 388–94
Exegetical authors, modern (Hermeneutics), XI, a b 669
—— Theology, XXIII, a 294
—— versions (Bible), III, a 561
—— works (Brown), IV, *a* b 346
Exegetisches Handbuch (Paulus), XVIII, a 446
EXELMANS, Reny Joseph Isidore, general, VIII, b 700
Exempla Codicum Latinorum (Palæography), XVIII, a 156, a b 157, a 160, a 170
Exemplary Damages, VI, a 695
Exemption laws (Arrestment), II, a 551
Exemptions (Bankruptcy), III, a 296; (Landlord and Tenant), XIV, a 275; (Privilege), XIX, b 784; (Summary Jurisdiction), XXII, a 676; (Taxation, U. S.), XXIII, b 925, a 926; Roman empire (Torture), b 491
Exequatur, license (Consul), VI, b 280–1
Exercise (Horse), XII, b 197–8; (Hygiene), a 603; effect on heart (Vascular System), XXIV, a 119
Exercitatio Anatomica de Motu Cordis et Sanguinis (Harvey), XI, b 448, b 449, b 450, b 452
Exercitationes de Generatione (Harvey), XI, b 448, a 449, b 451, b 452
—— *de Gratia* (Rutherfurd), XXI, b 120
—— *de Subtilitate* (Scaliger), XXI, *a* b 378
Exergue (Numismatics), XVII, b 645
EXETER, city (Ill.), VIII, b 700–2; (Devonshire), VII, b 122, *a* 123; (Newspapers), XVII, b 432; cathedral (Libraries), XIV, a 518, b 543
——, New Hampshire, town (Wheelwright), XXIV, b 893
Exeter Codex (English Literature), VIII, b 363
—— College (Oxford), XVIII, a 100
—— Hall (London), XIV, a 846
——, John Holland, duke of (Admiral), I, b 142

Exhalation, leaf (Botany), IV, a 107
Exhaust, defined (Steam-Engine), XXII, b 505; cowls (Ventilation), XXIV, a 174; port, cylinder (Steam-Engine), XXII, b 523, b 525; steam, condensation of (Tramway), XXIII, a b 540; injector (Steam-Engine), XXII, a b 522
Exhausters, apparatus (Gas and Gas Lighting), X, a 81
Exhaustion, complete (Pneumatics), XIX, b 258
—— of wells (Natural Gas), XVIII, b 898–9
Exhaustions, method of (Infinitesimal Calculus), XIII, a 7
Exhibition building (Melbourne), XV, a 846
EXHIBITIONS, Industrial, International, VIII, a 702–4; (Dilke), VII, b 209; centennial, 1876 (Philadelphia), XVIII, a 751, a 753, a 755, a 757; Kioto, 1875 (Japan), XIII, a 582; London, 1851 (Albert, Prince), I, b 400; 1862 (Japan), XIII, *b* 598; Paris, 1878 (Japan), b 598; (Paris), XVIII, a 301; Vienna, 1873 (Vienna), XXIV, a 239, a 240
——, Wax-work, XXIV, b 486
Exile, On (Plutarch), XIX, a 246
Exiles, Siberian (Prison Discipline), XIX, a b 782; (Siberia), XXII, b 15–6, a 18
Eximeniz or Ximenez, Francesch, author (Spain), XXII, a 378
Ex-meridian altitudes (Navigation), XVII, a 277
Exmoor Forest (Hunting), XII, b 409–10
EXMOUTH, town, VIII, a b 704
EXMOUTH, Edward Pellew, viscount, admiral, VIII, b 704–5; (Algeria), I, b 499
Exner, Johann J., painter (Denmark), VII, a 82
——, Wilhelm Franz, technologist (Hydromechanics), XII, a 536, b 538
Exoccipital bone (Amphibia), I, a 661, *b* 664, a b 665, a 666, b 667
Exocœtus, genus (Flying-Fish) (Ill.), IX, a b 308–9
Exodus of the Hebrews (Egypt), VII, b 637–8, b 641–2; (Israel), XIII, b 406–7, note; (Passover), XVIII, b 348
Exodus, Book of (Decalogue), VII, b 15, *a b* 16–17; (Louse), XV, b 26; (Philo), XVIII, a 776. See PENTATEUCH
——, *Desert of the* (Palmer), XVIII, b 196
Exogamy (Consanguinity), VI, a 260; (Family), IX, a 21, a 22, a 23; (Totemism), XXIII, a 502–3
Exogenous acute infective disease (Pathology), XVIII, a 413
—— stem (Botany), IV, a b 88, a 89–92, a 93
Exogonium, plant (Jalap) (Ill.), XIII, a 556–7
Exokionion, suburb (Constantinople), VI, *a* 270
Exon Domesday, VII, a 303, a 304
Exophthalmic Goitre, X, b 68–9
EXORCISM, VIII, a b 705; (Baptism), III, b 302, a b 303; (Demonology), VII, b 54–5; (Magic), XV, a 201, a 202
Exoskeleton (Anatomy), I, a 719; (Skeleton), XXII, b 114–7
Exosporea, order (Protozoa), XIX, b 863–4
Exostoma, fish (Siluridæ), XXII, b 75
Exostoses (Laburnum), XIV, a 180
Exostosis, disease (Pathology), XVIII, b 377; of teeth (Dentistry), VII, a 85
Exoteric discourses (Aristotle), II, b 451
Expansion (Algebra), I, a 489–92; of angles (Trigonometry), XXIII, b 607; of sines, etc. (Trigonometry), b 605, a b 606
——, heat (Iron), XIII, a 285; (Metals), XVI, b 71, b 74; cubical, tables of (Heat), XI, a b 521; linear (Bridges), IV, b 257; tables of (Heat), XI, a 520–1
—— of ice (Geology), X, b 248
——, boiler plates (Steam-Engine), XXII, b 518
——, steam (Steam-Engine), XXII, a 504–5; incomplete (Steam-Engine), b 505–6; theory of (Steam-Engine), b 498–9, b 501; unresisted (Steam-Engine), b 506
——, steam, compound (Steam-Engine) (Ill.), XXII, a 514–7; actual (Steam-Engine), a 509; effect of increasing steam (Steam-Engine), a b 508; factor of measuring bars (Surveying), b 732; limits in marine engines of (Steam-Engine), a 547
——, temperature (Bridges), IV, b 265
—— trip gear (Steam-Engine) (Ill.), XXII, b 531–3
—— valves, separate (Steam-Engine) (Ill.), XXII, b 527–8
Expansive use of steam (Steam-Engine), XXII, a b 921; invention of (Steam-Engine), b 493, a 495
—— working of slide valve (Steam-Engine), XXII, a 524–5
Expatriation, British doctrine of (United States), XXIII, a 807
Expectation (Probability), XIX, b 795–7; (Psychology), XX, b 67, b 68; Bains' theory of (Belief), III, a 461
—— of life, tables (Insurance), XIII, a 177
Expensilation, contract (Roman Law), XX, a b 716, a b 718
Experience (Ant), II, b 85; (A priori), II, b 187; (Butler), IV, a 520–21; (Condillac), VI, b 223–4; (Cousin), b 465–6, a 468; (Dogmatic), VII, a b 293; (Herbart), XI, a 642; (Hume), XII, *b* 365–6, a 367, a b 368, a 369; (Kant), XIII, b 857–8, a b 859, a b 860, b 862, b 863; (Locke), XIV, a 765–6; (Logic), a b 800, a b 801, a b 807; (Metaphysic), XVI, a 85, a 88, a 89, a b 91–2, b 95, a 100, b 102
——, analogies of (Kant), XIII, a 863; the basis of (Axioms), III, b 138–40; growth of (Psychology), XX, a 50–2; Hume on (Scepticism) XXI, a 400; internal and external (Psychology), XX, a 42–3; in relation to future events (Probability), XIX, a 793–5; and theory in sociology (Political Economy), b 359–60
Experiment, function of (Bacon), III, b 187 note
EXPIATION OR ATONEMENT, day of, VIII, b 705
—— of sins, public (Penance), XVIII, a 497
Expiatory rites (Sacrifice), XXI, b 144, a b 145
Expiration (Respiration), XX, b 493, b 495
Expletive signs (Hieroglyphics), XI, a 719.
Expletives (Grammar), XI, a 36
Exploitation (Mining) (Ill.), XVI, b 471, a 476
Exploits, river (Newfoundland), XVII, b 391, b 392
Explorations (Africa), I, a 220–3; (Burmah), IV, a 499; (Geography), X, a 157–76; (Magillan), XV, b 198, a 199; (Macedonian Empire), b 142; (Malay Peninsula), b 323; (Nile), XVII, b 521–2; (Pallas), XVIII, b 192–3; (Queensland), XX, b 181; early (Maine), XV, a b 303; Greek (Pytheas), XX, a *b* 149, a 150; Russian (Gobi), X, a 636; scientific (Humboldt, A.), XII, a b 357, a b 358, a b 359; Spanish (Renaissance), XX, b 401–2
Explorers (Abyssinia), I, a 65, b 66; (Pacific Ocean), XVIII, a 118–9; (Patagonia), b 358; British (Africa), I, *b* 220, *a b* 221, a b 222, a 223; (Geography), X, b 163, a b 164–5, a b 166, a b 168, a b 169–70; (India), XII, a b 837; (Polar Regions), XIX, a b 329, a 330, a b 331, a b 332, b 336, a 337, a b 342; early (Portugal), b 560–1; French (Geography), X, a 164, a 167, a 168, *a* b 169, b 172, *a* 173; list of (Africa), I, 242 * *
Exploring expeditions, U. S. (Navy), XVII, b 309–10
Explosion (Gunpowder), XI, a 286–8; (Natural Gas), XVIII, a b 899; (Nitroglycerin), XVII, a b 534–5; nature of (Wave), XXIV, b 440
——, engines (Steam-Engine), XXII, b 550–3
Explosions, furnace (Iron), XIII, a b 313; Lamp, XIV, b 245; mine (Coal), VI, a 68–9, a 74; spontaneous (Gun-Cotton), XI, *b* 245, a 246; (Geology), X, a b 218
EXPLOSIVES, VIII, b 705–11
  bibliography, a 711
  classes of, a 706–7, a b 708
  compounds, b 706, a 707
  constitution, b 705–6
  detonation, a 708–9
  expansion, b 709–10
  explosions, b 707–8
  fulminates, a b 706
  law, b 710
  origin of, b 705
  practical value, b 710
  relative force, a 709–10
  tension, a b 707
  work, theoretical, a b 710
—— (Blasting), III, a 702–3; (Dynamite), VII, b 504–5; (Mining), XVI, a b 465, a b 481; (Torpedo), XXIII, b 477–8. See Detonation, DYNAMITE, Fulminates, GUNPOWDER, NITROGLYCERIN
Exponential integers (Numbers), XVII, a 633; (Tables), XXIII, b 19
—— theorem (Algebra), I, a b 491
Exponentials, complex qualities (Trigonometry), XXIII, b 605
Exponents, mathematical (Stevinus), XXII, a b 574
Exports (Commerce), VI, b 182–3; (Corn-Laws), b 362–6; (Cotton), b 449; (Customs Duties), a 644; (England), VIII, a b 212, a 213; (Finance), IX, a b 156; (France), a b 463; (Germany), X, b 415–6; (India), XII, b 795–8; (Ireland), XIII, a b 232, b 235–6, a b 237, a b 239, a 240; (Italy), a b 463–4, a 466; (New York), XVII, a b 895, a b 899, a 900; (Petroleum), XVIII, b 889; (Russia), XXI, a 95; (Sweden), XXII, *a* 781; (United States), XXIII, a b 880–1; (Value), XXIV, a *b* 58; duties on (Taxation), XXIII, b 95; nature of (Protection), XIX, *a* 935, a 940
Exports of commercial countries and ports are uniformly given under their respective titles. See in the analytical tables of such articles "commerce" in this Index
Exposition of the Oracles of the Lord (Gospels), X, a 725
—— *of Roman Law* (Law), XIV, b 362
Exposure of children (Slavery), XXII, a 138, a 142, a 143
Express rifle (Gunmaking), XI, b 249; (Shooting), XXI, b 874
—— Trust, XXIII, b 634
Expression. See Anatomy of Expression
——, emotional (Psychology), XX, a b 77
—— of essential Oils, XVII, b 769
——, natural means of (Philology), XVIII, b 780, a b 781, a 782
Expulsion from Eden, painting (Masaccio), XV, b 612

Expulsion of the Moors; painting (Velazquez), XXIV, a 145
Expurgatory indexes (Bibliography), III, a 570. See Index of Prohibited Books
Extension (Descartes), VII, a 107
—— of matter (Atom), III, b 33–4; of tested material (Strength of Materials), XXII, a 631–2
—— and thought (Descartes), VII, a 107; Spinoza on (Cartesianism), V, b 136, a 138
Extensions of (Patents), XVIII, b 360
Extensity of sensations (Psychology), XX, a 51, b 58–60, b 63–4, b 72–3
Extent, writ of, XXIV, b 731, a 733
Extinct species in Archæology, II, b 294
—— vegetation (St. Helena), XXI, b 179
Extinction of birds (Birds), III, b 634–9; (Bustard), IV, a 515; (Dodo), VII, b 278–80; (Gare-fowl), X, b 71; (Goose), b 692; (Mauritius), XV, b 647; (Sun-bittern), XXII, b 687
—— of Trusts, XXIII, b 635
Extinguisher, portable (Fire) (Ill.), IX, a b 205
Extinguisher-moss or eucalypta (Botany) (Ill.), IV, a 147
Extra current measurement (Electricity), VIII, a b 75
Extracting teeth (Dentistry), VII, b 85–6
EXTRADITION, law-term, VIII, a 711; conventions (Treaties), XXIII, a 566
Extrados, horizontal (Arch), II, b 287, a 288, a 289
Extra-territoriality (Ambassador), I, a 578
Extravagantes, *Decretales* (Canon Law), V, a b 18, *a* 19
EXTREME UNCTION, sacrament, VIII, a b 712
Exultet (Plain Song), XIX, b 180
Exuviation, process (Crustacea), VI, a b 577
Eyafjallajökull, summit (Iceland), XII, b 651
Eyafjörour, bay (Iceland), XII, a 651
Eyas, hawk (Falconry), IX, b 8, b 10–1
Eybek, Izz-ed-Deen, sultan, (Egypt), VII, *b* 655
Eybenschütz, Yehonathan, rabbi (Tam), XXIII, b 44
EYCK, Van, painters, VIII, b 712–13; (Schools of Painting) (Ill.), XXI, b 457–8, *b* 463, a b 466, b 467
——, Hubert van, painter, VIII, b 712–3; (Ghent), X, a 504; (Ghent, J.), *a* 505
——, John van, painter, VIII, a b 713; (Goes), X, *b* 642; (Raphael), XX, *b* 286
Eye, river (Berwickshire), III, a 529; (Leicester), XIV, a 424; (Rutland), XXI, b 122
——, town (Suffolk), XXII, *b* 654
EYE (Ill.), VIII, b 713–25
  accommodation, a 717–8
  anatomical structure, b 714–5
  arrangement of, b 714–9
  color sensations, a 720–2, b 723–4
  defects of, a 716–7
  image formation, a 715–6
  iris, b 718–9
  kinds of, b 713–4
  light, reception of, b 718
  movements of the, a 722–4
  psychical perceptions, a 724–5
  retina, specific influence of light, a 719–20
  theory of color, b 721–2
  vision, causes of, a b 714
—— (Birds), III, b 628; (Magnetism, Animal), XV, a *b* 283, a 285; (Microscope), XVI, a b 269, b 279; (Optics), XVII, a b 829
——, diseases of (Flowers, Artificial), IX, b 305; (Goitre), X, b 658; (Light), XIV, a b 606; (Ophthalmology), XVII, a 802–9; (Pathology), XVIII, b 374, a 412; (Tape-Worm), XXIII, a 59
——, impressions from the (Physiology), XIX, a b 45
—— -ball (Anatomy) (Ill.), I, b 777–82
—— -cuttings, propagation by (Horticulture) (Ill.), XII, b 244–5
—— Glasses. See SPECTACLES
Eyelid (Anatomy), I, a 734, a 782
Eyemouth, town (Berwickshire), III, a b 529, a 530
Eye-pieces, optical (Light), XIV, b 599; (Microscope), XVI, b 271, a 277, a 278, b 285; (Telescope) (Ill.), XXIII, a 156–8; (Telescopic Work), a 935
Eyes (Amphibia), I, b 673–4; (Annelida), II, a 60, b 62; (Ape), b 137, a 139; (Arachnida), a b 238, b 240, b 243, a 244, a 247, a 248, b 249, b 251, a b 253, b 254, b 255; (Arthropoda), a 567; (Birds), III, b 628; (Chameleon), V, b 331; (Crustacea) (Ill.), VI, b 560, a 562, a 563–4; (Coleoptera), b 114, a 116; (Echinodermata), VII, b 545, b 546, b 548; of Insects, XIII, a 150; (Mimicry), XVI, a 356, a 357; (Ichthyology) (Ill.), XII, b 672, b 689–90, b 720, b 722; (Ichthyosaurus), a 734; (Leech), XIV, b 401–2; lepidoptera (Butterflies), IV, a 527; (Mammalia), XV, a 370; (Mollusca), XVI, a 660, b 705–7; (Monster), b 789; of the nautilus (Mollusca), b 705, b706; (Nemertines), XVII, a 339; (Planarians), XIX, a b 183; (Reptiles), XX, b 474–5; (Rotifera) (Ill.), XXI, a 11, b 12; of vertebrates compared (Mollusca), XVI, a b 719; development of (Vertebrata), XXIV, a 197, a 198, a 201, a 202
——, cephalic (Mollusca), XVI, a 660, b 678, a 688; deep-sea fishes (Ichthyology), XII, b 722; dorsal (Mollusca), XVI, a 688; pallial (Mollusca) (Ill.), a 688, b 710, a b 719, a 720
—— of the Sea, lakes (Hungary), XII, a 377
Eye-splice (Seamanship), XX, b 619
Eylau, battle of, 1807 (France), IX, a 542; (Napoleon I.), XVII, b 217
Eymerich or Eymerico, Nicholas, inquisitor (Inquisition), XIII, *b* 99; (Torture), XXIII, a 493
Eynard, J. G., philanthropist (Geneva), X, b 132
Eyo Dictionary, VII, b 167
Eyquem family (Montaigne), XVI, a 794
Eurbiggia, saga (Iceland), XII, *b* 659
Eyre, lake (South Australia), XXII, b 297, b 298
——, Edward John, governor (Australia), III, b 91, a 92, a 98; (Jamaica), XIII, a b 561; (Mill, John Stuart), XVI, *a* 324; (Treason), XXIII, a 563
Eyria, peninsula (South Australia), XXII, a 297, a 298
Eystein, king (Norway), XVII, a 602
Eytelwein, Johann Albrecht, engineer (Hydromechanics), XII, b 453–4
Eyton, T. C., naturalist (Ornithology), XVIII, a 36
Eyvind, poet (Iceland), XII, b 657
Ezbekeeyah, park (Cairo), IV, b 572
Ezeho, town. See ITZEHOE
Ezechiel, poet (Drama), VII, a 351
EZEKIEL, prophet and book, VIII, a 725–7
  biography, a b 725
  book, b 725–7
    arrangement of, b 725–6
    commentaries, a 727
    genuineness of, b 726
  influence of, b 726–7
—— (Cherubim), V, b 509, *a* 510; (Haggai), XI, *a* 331, *a* 332; (Israel), XIII, *a b* 428; (Job), b 713; (Joel), *b* 717; (Levites), XIV, a b 488; (Pentateuch), XVIII, b 520, a 521, b 524
—— of Nisibis, catholicus (Syriac Literature), XXII, b 879, a 880
—— of Seleucia, catholicus (Syriac Literature), XXII, a 879
Eziongeber. See AKABAH
EZRA the Scribe, VIII, a 727–8; (Israel), XIII, *b* 428, (Malachi), XV, *a b* 316, note; (Pentateuch), XVIII, b 524; on the Hebrew Scriptures (Canon), V, b 3, a 5
EZRA AND NEHEMIAH, BOOKS OF, VIII, a 728–9; (Artaxerxes), II, a b 561; (Chronicles), V, *b* 613; (Daniel), VI, *b* 708; (Haggai), XI, *a b* 331, notes, *a* 332; (Semitic Languages), XXI, b 677, b 679, note. See *Esdras, Books of*
——, *Fourth Book of* (Canticles), V, a 30; his *Law-book* (Bible), III, a 549, a 550
——, *Prophecy of* (Apocalyptic Literature), II, b 154–5
Ez-Záhir, caliph (Egypt), VII, b 651
Ezzelino. See ECCELINO

F, the letter, VIII, a 729
FABER, Basil, theologian, VIII, b 729
FABER, Cecelia Böhl von, novelist, VIII, b 729–30
FABER, Frederick William, hymn writer, VIII, b 730–1
FABER, George Stanley, theologian, VIII, a 731
FABER or Lefèvre, Jacobus, reformer, VIII, a b 731; (Farel), IX, b 29; (Reformation), XX, a 347
FABER, Johann, monk, VIII, b 731
——, Johann, naturalist, (Toucan), XXIII, a 507 note
—— or Le Fèvre, Peter, priest (Jesuits), XIII, *a b* 663, a 664
Faber's pencils (Nuremburg), XVII, a 682
Faber Stapulensis. See FABER, Jacobus
Fabian, St., bishop of Rome (Novatianus), XVII, b 618
FABIAN GENS, the, VIII, b 731–2
Fabiani, college (Lupercalia), XV, a 68
Fabianus, Papirius, philosopher (Stoics), XXII, a 601
Fabius Maximus Allobrogicus, Quintus, consul (Fabian Gens), VIII, *a* 732; (Rome), XX, a 839
—— Maximus Rullianus, Quintus, consul (Fabian Gens), VIII, *a* 732; (Rome), XX, b 761, a 762
FABIUS MAXIMUS VERRUCOSUS Cunctator, Quintus, VIII, a b 732; (Hannibal), XI, *b* 395–6; (Rome), XX, a b 768
FABIUS PICTOR, Quintus, historian, VIII, b 732; (Chronology), V, a b 618; (Livy), XIV, a 735
FABLE, VIII, b 732–5
  Lessing, a b 735
  migrations of, a 733–4
  modern languages, a b 734
  moral, the, a b 733
  nature of, b 732–3
  Reynard the Fox, a b 734
  scope of, b 733
Fable of the Bees (Mandeville), XV, b 479, b 480; (Law, W.), XIV, a 370
—— *for Critics*, Lowell (American Literature), I, b 643
—— of the *King of Birds* (Wren), XXIV, b 723
Fables (Babrius), III, b 157; (Folk-lore), IX, a b 313–4; (Gay), X, *a* 108; (Gellert), b 120; (Germany), a 478; (Hebrew Language and

Fables, continued
Literature), XI, a 535; (Hungary), XII, b 392, b 393; (Iriarte), XIII, b 281; (Java), b 619; (Kriloff), XIV, a b 149; (La Fontaine), *a* b 205, a b 206-7; (Lessing), a 480; (Mandeville), XV, b 479, b 481, a 482; (Marie de France), b 548; (Phædrus), XVIII, a b 740; (Russia), XXI, b 114; (Sanskrit), a 301; rise of (Satire), b 333, a 334
—— *of Æsop*, I, b 190-1; (Babrius), III, b 157; (Henryson), XI, a 604
—— *of Bidpai*, III, a 576; (Syriac Literature), XXII, b 894 note
Fabliaux (Boccaccio), III, b 734; (France), IX, a 564; (Romance), XX, a 649
Fabre, Jayme, architect (Architecture), II, b 379
FABRE D'EGLANTINE, Philippe François Nazaire, dramatist, VIII, b 735
FABRETTI, Raphael, antiquary, VIII, b 735-6
Fabri, Adhémar, bishop (Geneva), X, a 134
FABRIANO, town, VIII, a 736; (Paper), XVIII, a 222
FABRIANO, Gentile da, painter, VIII, a b 736; (Bellini), III, *b* 471, a 472; (Schools of Painting), XXI, a b 453, b 462, a 467
FABRICIUS, Caius Luscinus, general, VIII, b 736; (Rome), XX, b 762
FABRICIUS, George, author, VIII, b 736
FABRICIUS, Hieronymus, surgeon, VIII, b 736; (Anatomy), I, a 710; (Harvey), XI, b 448, a *b* 450, note, *b* 451; (Embryology), VIII, a 151 note; (Vascular System), XXIV, b 104
FABRICIUS, Joannes Albertus, bibliographer, VIII, b 736-7; (Bibliography), III, a 569; (Greece), XI, b 131
FABRICIUS, Johann Christian, entomologist, VIII, b 737; (Insects), XIII, a 154; (Myriapoda), XVII, a 123
——, Werner, musician, VIII, b 736-7
Fabritius, Carel, painter (Meer), XV, b 833
Fabriz von Hilden, Wilhelm, physician (Surgery), XXII, b 939
FABRONI, Angelo, biographer, VIII, b 737-8; (Roscoe), XX, a 872
FABROT, Charles Annibal, jurist, VIII, a 738; (Basilica), III, *a* 363
Fabula prætexta, drama (Nævius), XVII, a 169
Fabulæ Atellanæ, play (Atella), II, b 724; (Oscans), XVIII, b 58; (Pantomime), a 219
Fabularia, fossil (Foraminifera), IX, a 330
Fabularum Liber (Hyginus), XII, b 603
Faburden mode of singing (Music), XVII, b 88
FABYAN, Robert, chronicler, VIII, a b 738
FACCIOLATI, Jacopo, philologist, VIII, b 738; (Forcellini), IX, a 346
Face (Anthropology), II, a 99; (Mammalia), XV, b 358; (Mandrill), *b* 484; bones of (Anatomy) (Ill.), I, a 722, a 723
—— lathe (Machine Tools), XV, a 155
Facetiæ (Poggio), XIX, b 286
Fachschulen (Technical Education), XXIII, b 115
Facial angle (Anthropology), II, b 95, a 99; (Ape), b 138, a 139
—— bloodvessels (Anatomy), I, b 794
—— nerves (Anatomy), I, a b 774, a 775; (Physiology), XIX, b 49
—— Paralysis, XVIII, a 260, b 261
Facing plate, breech (Gunmaking), XI, b 258
—— of walls (Rome) (Ill.), XX, a b 828, a 829
Factor of effect (Gunpowder), XI, b 288; of safety (Bridges), IV, b 264
—— Tables, XXIII, b 11, a 12 note
Factorials (Tables), XXIII, b 18-9
Factorization (Trigonometry), XXIII, a b 605; for π continued (Trigonometry), b 609; sine and cosine (Trigonometry), a 608
FACTORS, agents, VIII, b 738-9; (Sale), XXI, a 219
FACTORY ACTS and Legislation, VIII, a 739-40; (Owen, R.), XVIII, b 90, b 91; (Shaftesbury), XXI, b 770; (Wages), XXIV, a 332; (Workingmen in the U. S.), a 916, b 918-9, a 921. See LABOR LAWS
—— Island (Sierra Leone), XXII, *b* 50
—— operatives (Massachusetts), XV, b 619-20
Facts, what are (Philosophy), XVIII, b 806
Faculties, mental (Beneke), III, a 484; (Condillac), VI, a 223; (Hamilton, Sir W.), XI, b 372
FACULTY, license, VIII, b 740-1; of advocates (Inns of Court), XIII, b 97; (Libraries), XIV, a b 521; Scotch, I, a 162
——, scholastic, VIII, a 741; American (Universities), XXIII, b 959; rise of, b 889, *a* 891
Fadasi, town (Senaar), XXI, b 689
Fadl ben Rabí‘, prime minister (Mohammedanism), XVI, a b 605
Fadl ben Sahl, prime minister (Mohammedanism), XVI, b 605, a b 606
Fadl ben Yahyá, courtier (Mohammedanism), XVI, a 604
Fadrique or Frederick, of Santiago. See Frederick
Fæmundsö, lake (Norway), XVII, b 589
FAENZA, city, VIII, a 741; (Italy), XIII, b 464; ware. See Faience
Færeyinga, history (Iceland), XII, b 661
Faërie Queene, poem (Geoffrey of Monmouth), X, a 155; (Spenser), XXII, b 408, a 409-10
Fæsulæ, city (Etruria), VIII, a 559, a 560; (Fiesole), IX, b 129, a 130
Fagan, Louis, author (Woollett), XXIV, a 698
Fafnir, myth (Nibelungenlied), XVII, b 487
Fagging. See Hazing
—— grain (Agriculture), I, a 322
Faggiuola, Uguccione della, duke of Pisa (Castruccio Castracani), V, a 177; (Dante), VI, b 714. a b 715; (Pisa), XIX, b 129-30
Fagius, Paul, scholar (Elias Levita), VIII, b 125; (Hebrew Language), XI, b 536
Fagnani, Giulio Carlo, count, mathematician (Infinitesimal Calculus), XIII, a b 64, b 65
Fagopyrum, plant (Buckwheat), IV, a 380; meristem zones of (Histology), XII, b 17
Fagott, instrument (Oboe), XVII, b 726
Fagottino, instrument (Oboe) (Ill.), XVII, b 726, a 727, a 728
Fagotto stop (Organ), XVII, a 856
Fagot votes (Government), XI, a 14; (Rent), XX, *a* 415
Fagus, genus (Arboriculture), II, a 278; (Beech), III, b 434
Fa Hian, or Hiang, or Hien, traveller (Bengal), III, a 491; (Buddhism), IV, a 391; (Gilgit), X, a 534; (Hwen T'sang), XII, a 434, a 435; (India), b 824; (Turkestan), XXIII, b 680
Fahlberg, chemist (Sugar), XXII, a 656, note
Fahlcrantz, Axel Magnus, sculptor, VIII, a 741
——, Carl Johan, painter, VIII, a 741
FAHLCRANTZ, Christian Erik, author, VIII, a 741; (Sweden), XXII, b 795
Fahlerz (Mineralogy) (Ill.), XVI, b 378, b 411
Fahlore (Mineralogy), XVI, b 367, a 412
Fahlun. See FALUN
Fahlunite (Mineralogy), XIX, a 436
FAHRENHEIT, Gabriel Daniel, inventor, VIII, b 741; (Thermometer), XXIII, b 308, a 309
—— Hydrometer, XII, b 569
Faidherbe, Louis Leon César, general (Senegal), XXI, a b 693
Faidit, Gaucelm, troubadour (Provençal Literature), XIX, b 899
——, Hugh, troubadour (Provençal Literature), XIX, b 901-2
Faience or Faenza ware, VIII, *a* 741; (Italy), XIII, b 464; (Japan), b 598, *b* 600; (Pottery) (Ill.), XIX, b 645, a 646, b 647. See Majolica Ware
Fá‘ik, rebel (Samánid Dynasty), XXI, *a* 254
Faili, tribes (Luristan), XV, *a* 70
Failure of Bank of Amsterdam, III, a 291
Failures in U. S. (Banking), III, b 292-3. See BANKRUPTCY, Crises, Insolvency, Suspension of Payments
Faintness (Heart), XI, b 494; (Surgery), XXII, a 715. See Syncope
FAIR, VIII, b 741-4
    ancient, b 741-2
    authorities on, b 743-4
    law of English, a b 743
    mediæval, a b 742
    modern, b 742. See Fairs, EXHIBITIONS
FAIRBAIRN, Sir William, engineer, VIII, a 744-5; (Bridges), IV, a b 301
Fairbanks, Erastus, governor (United States), XXIII, a 822
Fairbanks' scales (Patents), XVIII, b 882; testing machines (Strength of Materials), XXII, a b 626
FAIRFAX, Edward, poet, VIII, a b 145
——, Thomas, botanist (Hybridism), XII, a 442
FAIRFAX, Sir Thomas, Lord, general, VIII, b 745-7; (Colchester), VI, a 113; (Cromwell), b 529, *a b* 530, a 531; (Milton), XVI, a b 343, a 344; (Monk), b 778, b 779; (Washington), XXIV, a 409
Fairfield, county (South Carolina), XXII, b 301
FAIRFIELD, town, Conn., U. S., VIII, a 747
Fairfieldite (Mineralogy), XVI, a 422
Fair Haven, Connecticut (New Haven), XVII, a 404
Fair Havens bay (Crete), VI, a 504
Fairhead, promontory (Giant's Causeway), X, b 511
FAIRHOLT, Frederick William, antiquary, VIII, a b 747
FAIRIES, VIII, b 747-8; (Apparitions), II, a 178
Fair Isle (Orkney), XVII, b 870, a 872
Fairlie locomotive (Railway) (Ill.), XX, b 256
Fairlight Down (Sussex) XXII, a 761
Fair Maid of Kent (Edward, Black Prince), VII, b 595
—— *of Perth*, novel, Scott (Perth), XVIII, a 681
Fairmount Park (Philadelphia), XVIII, a 751, b 752
Fair Oaks, battle of, 1862 (United States), XXIII, b 825
Fair Penitent, plays (Massinger), XV, b 625; (Rowe), XXI, b 34
Fairs (Beaucaire), III, b 403; (Brehon Law), IV, b 226-7; (Frankfort-on-the-Main), IX, a 622; (Hardoi), XI, b 424; (Hardwár), a 425; (Honey), XII, b 141; (Hushiápur), b 418; (India), b 791, b 799; (Irbit), XIII, a b 220; (Khairábád), XIV, a 58; (Kharkoff), b 59; (Kheri), b 63; Korennaya (Kursk), b 162; Landit (St. Denis), XXI, a 170; (Lebedyan), XIV, a 396; (Leipsic), b 430; Mecca (Mohammedanism), XVI, a 569, a 570; (Merseburg), b 45; (Nijni Novgorod), XVII, b 514, a 515-6; Okaz (Mo'allakat), XVI, a 560; (Poltava), XIX, a b 424;

Fairs, *continued* (Provins), b 912; (Prussia), XX, a 20; (Rostoff), a b 885; (Sanitary Commission, U. S.), XXI, b 904; Seville (Murillo), XVII, b 61; (Siberia), XXII, a 15; (Sinigaglia), a 102; (Troyes), XXIII, b 627

Fair-trade party (Protection), XIX, a 938

Fairview, Pa., town (Natural Gas), XVIII, b 894

Fair Virtue or *Mistress of Philarete* (Wither), XXIV, *a* 657

Fairweather, mountain (Alaska, Plate), opposite p. 392 (America), I, b 595

Fairy tales (Ethnography), VIII, b 547–8; (Gaelic), X, a 10; (Perrault), XVIII, b 568; (Tieck), XXIII, a 407–8; sources of (Celtic Literature), V, a 282

Faisens, Ile des (Pyrénées), XX, b 132

Faith (Belief), III, b 461; (Calvin), IV, a 637; (Dogmatic), VII, b 290, b 292, a b 295; (Eckhart), b 557; (Ethics), VIII, a b 519; (Israel), XIII, b 407, a b 420; (James), a 565; (Leibnitz), XIV, a 423; (Metaphysic), XVI, b 90, b 96; (Methodism), b 193; (Scholasticism), XXI, a b 436, a 447, a 449; (Theism), XXIII, a 258; (Theology), b 283; (Trent, Council of), a 580

—— healing (Dunkers), VII, b 469; Johannean doctrine of (Gospels), X, a b 741; knowledge and (Anselm), II, b 82; Pauline doctrine of (Paul), XVIII, b 436, note, a 437; rule of (Hermeneutics), XI, a 667, a 669; sacramental relations of (Baptism), III, a b 302; works and (Lutherans), XV, a b 86

Faithful Shepherdess (Beaumont and Fletcher), III, a 409; (Pastoral), XVIII, a 352

FAITHORNE, William, painter and engraver, VIII, b 748

FAITHORNE, William, Jr., engraver, VIII, b 748

FAIZÁBÁD, commissionership, VIII, b 748; district VIII, b 748–9; town, b 749; (Badakhshan), III, *b* 192; (Oudh), XVIII, b 75

Fáïz bi-lláh Abu-l-Kasim 'Eesa Ibn-'Alee, el, caliph (Egypt), VII, b 652

Fakaradin Maan II., emir (Druses), VII, a 420

Fakarava, island (Tuamotu), XXIII, a 640

Fakhi pass (Kirk-Kilissia), XIV, a 101

Fakhr-ed-Deen, general (Egypt), VII, *a* 655

Fakhruddín, of Bamian, king (Ghúr), X, b 509

Fakir or Dervish, VII, b 98–9; (Egypt), b 629; (Háfiz), XI, a 328, *a* 329; (Hibernation), b 703; (Rumi), XXI, a b 65; (Seljuks), a 669; (Shi'ites), XXII, *b* 699; (Sunnites), a b 697, *b* 699; Arabian (Spain), *b* 325; spinning (Iconium), XII, a 735

FALABA, town, IX, a 3

FALAISE, town, IX, a 3; (Normandy), XVII, b 555

FALASHAS, Jews, IX, a b 3; (Abyssinia), I, a 63

Falcandus, Hugo, historian (Normans), XVII, b 563

Falcão, Christovão, poet (Portugal), XIX, b 571

Falces (Arachnida), II, b 238, b 240, *b* 243, a 244, a 248, b 249, a 252, *b* 253–4, a 256, a 259; encephalic (Anatomy), I, *a* 759

Falcidian law (Annuities), II, b 70

Falco, genus (Harrier), XI, *b* 439, a 440; (Lämmergeyer), XIV, a b 244

FALCON, bird (Ill.), IX, b 3–5; (Birds), III, *a* 617, a b 618, a 619, a 633, a 642, b 646, a 647, a 651, b 656, a 664 note; (Kestrel), XIV, a 55–6; eggs of (Birds), III, a 671

—— (Heraldry) (Ill.), XI, a 609, a 625

——, state (Venezuela), XXIV, b 152

FALCONE, Aniello, painter, IX, b 5

FALCONER, Hugh, naturalist, IX, b 5–6; (Gibraltar), X, b 521

——, Thomas, critic (Hanno, King), XI, a b 398

FALCONER, William, poet, IX, a 6–7

FALCONET, Étienne Maurice, sculptor, IX, a 7

FALCONRY (Ill.), IX, a 7–12
- classes of hawks, b 7
- eyases, b 10–11
- glossary of (Ill.), b 7, a 9
- history of, a b 7
- keeping hawks, b 11–2
- quarry, the, b 7, a 10, b 11
- sporting, a 10–11
- training hawks, a 9
- works on, b 12

—— (Kite), XIV, b 105, note; *in the British Isles*, IX, b 12

Faleiro, Ruy, astronomer (Magellan), XV, a 199

Falemé river (Senegal), XXI, a 692

FALERII, city, IX, b 12–3; (Etruria), VIII, a 558; (Rome), XX, a 760, b 761; dialect of (Latin Language), XIV, a 327

Falerium Vetus, town (Civita Castellana), V, b 696

FALERNUS AGER, district, IX, a 13

Falico river (Niger), XVII, a 510, b 511

Falieri, Giovanni, senator, (Canova), V, *a* 23

FALIERO, Marino, doge, IX, a 13; (Venice), XXIV, *b* 155, b 165; drama of (Byron), IV, b 543–4

——, Vitale, doge (Venice), XXIV, b 162

Faliscans, race, (Camillus, Marcus Furius), IV, b 656; (Falerii), IX, b 12; (Alphabet), I, b 534, *a* 537

Faliscus, Gratius, poet (Hunting), XII, a 409

FALK, Johann Daniel, author, IX, a b 13

"Falk Laws" (Germany), X, a 460; (Jesuits), XIII, b 666; (Old Catholics), XVII, a 777

FALKE, Johann Friedrich Gottlieb, historian, IX, b 13

Falkirk, district (Coal), VI, a 51

FALKIRK, town, IX, b 13–4; (Stirling), XXII, b 581, *a* 582; battle of, 1298 (Scotland), XXI, a 510; (Wallace), XXIV, a 348

FALKLAND, burgh, IX, a 14

——, Lucius Cary, Earl of, V, a b 149; (Clarendon), a b 703; (Fuller), IX, *a* 715

FALKLAND ISLANDS (Sketch), IX, a 14–6
- climate, a b 15
- geography of, a b 14
- geology, a 16
- history, a 15
- industries, b 14–5
- literature, a 16
- natural history, b 15

—— (Birds), III, a 647; (Bougainville), IV, b 154; (Cattle), V, b 213; (Seal), XXI, *b* 610

—— sound, IX, b 14

Falkner, Thomas, Jesuit (Patagonia), XVIII, b 358

Fall in Drama, VII, b 340

Fallersleben, Hoffmann von. See HOFFMANN, August Heinrich

Falling bodies, law of (Galileo), X, a 33; (Gravitation), XI, b 59–62; (Mechanics), XV, a 688, a 712

—— Creek, Va., town (United States), XXIII, b 863

—— sickness (Epilepsy), VIII, b 425

—— weight test for strength (Iron), XIII, b 363, a 364

FALLMERAYER, Jakob Philipp, traveller, IX, a b 16; (Greece), XI, *a* 76, b 104; (Slavs), XXII, a 154; (Trebizond), XXIII, a 567

Fall of man (Adam), I, a 125; (Baader), III, b 151; Malebranche on (Cartesianism), V, *b* 132

Fall of Princes, poem (Lydgate), XV, a 99

Fallopian tubes (Mammalia), XV, b 370; (Digestive Organs), VII, b 194

FALLOPIUS, Gabriello, anatomist, IX, b 16; (Anatomy), I, a 704, b 709, a 711; (Ornithology), XVIII, a 8; (Vascular System), XXIV, b 103

Fallow Deer, VII, a 23

Fallowing ground (Agriculture), I, a 300–3, a 316

Fall-ploughing (Agriculture), I, b 299, a b 300–1

FALL RIVER, city, IX, b 16

Falls. See Waterfalls

Fallschwert or Fallbeil (Guillotine), XI, a 234

FALMOUTH, town, IX, b 16–7

False bay (Cape Colony), V, a 39

—— bedding of rock (Geology) (Ill.), X, a b 259

Falsehood in casuistry (Liguori), XIV, b 644–5

False nostril (Horse), XII, a 184

FALSE POINT, harbor, IX, a 17; (Cattack), V, b 211, b 212

—— poles (Magnetism), XV, a b 237

—— pretence (Theft), XXIII, a 252, a 253

—— Prophets, XIX, a b 839, a 845

—— vocal chord (Voice), XXIV, b 293, a 294, *b* 296

Falsetto Voice, XXIV, b 296–7

Falstaff, Sir John (Oldcastle), XVII, b 775

FALSTER, island, IX, a 17; (Denmark), VII, b 70, *a* b 73

Falterona, Monte (Italy), XIII, a 447

Faludi, Francis, translator (Hungary), XII, b 391

FALUN, town, IX, a 17

Famagosta, city (Cyprus), VI, *a* 660, a b 661

Famatinite (Mineralogy), XVI, a 412

Fâmich, mediæval town (Apamea), II, b 129

Familia defined (Roman Law), XX, a 695, note

Familiæ, Roman (Slavery), XXII, a b 140, a 141; emptor (Roman Law), XX, b 708, *a* 709

Familiar spirits (Demonology), VII, a b 56

Familiars of the holy office (Inquisition), XIII, a 99

Families of language (Anthropology), II, a b 105

——, number of (United States), XXIII, b 876

——, Sawaiori (Polynesia), XIX, a 438

Familistère coöperative society (Guise), XI, b 235; (Socialism), XXII, a 220

Familists, sect (Davidists), VI, b 742

Famille Suisse, opera (Boieldieu), III, b 749

FAMILY, IX, b 17–23
- barbarous customs, a 18
- civilized types, b 17
- Indo-European evolution of, b 19–20
- marriage customs, a 21
- nomenclatures for kindred, a 21
- primitive domestic order, b 18–9
- rise of marriage relations, b 22–3
- successive forms of, b 21–3
- totem-kindred, b 20
- traditions of its origin, a b 18
- tribal groups, b 19

—— (Ethnography), VIII, a 543–4; (Egypt), VII, b 624, b 628; (Government), XI, a 11; (Israel), XIII, b 418; (Law), XIV, a 365; Aryan early (Clan), V, a 698; hearth, rise of (Fire), IX, a 200, note; jus civile (Roman Law), XX, b 705–6; jus naturale (Roman Law), a b 725; Justinian's law of (Roman Law), a b 732; plebeian, of regal period (Roman Law), b 691–2; Quiritian (Roman Law), b 688–9, b 689–90; primitive (Sacrifice), XXI, a b 143; rights of (Women), XXIV, b 674; socialist (Saint-Simon), XXI, b 208; (Socialism), XXII, b 219, a 221, *b* 230–1; tribal (Germany), X, b 425

"Family compact" of Bourbons (Chatham), V, a 383; (Choiseul), a 592; (France), IX, a b 520; (Spain), XXII, b 352–3, *a* 354
Famine, potato (Hebrides), XI, b 542
—— fever (Pathology), XVIII, b 413; (Typhus), XXIII, a 723. See Poverty, diseases of
—— steppe (Turkestan), XXIII, b 674
FAMINES, IX, a 23–5
  human causes, a 24–5
  India, b 24–5
  insects and vermin, a 24
  meteorological causes, b 23 4
  records of, analyzed, a b 23
  relief measures, a b 25
  sun-spot theory, a 25
—— (Cannibalism), IV, a 713; (Dietetics), VII, a 184; (Forests), IX, a 350; (Luddites), XV, b 59; (Opium), XVII, b 813, a 814, b 816; (Protection), XIX, b 934
—— in Cape Verd Islands, V b 46; in Egypt, VII, b 612, a 638, a 652; in Finland, IX, b 190; in Hungary, XII, b 388
—— in India, IX, b 24–5; XII, b 792, a 793, b 805–7, a 813, a 851; (Corn Laws), VI, b 366; (Gurgaon), XI, a 297; (Hastings), b 458; (Hissar), XII, a *b* 4; (Karnúl), XIV, *a* 8; (Lucknow), XV, b 50; (Mahrattas), a 291; (Meteorology), XVI, b 187; (Mysore), XVII, a 131; (Orissa), b 869
——, Irish, XIII, a 229, b 242, *a* 243, b 275, *b* 276; (Massachusetts), XV, b 619
—— in Persia, XVIII, a 639
—— in Samara, XXI, a 255
Fämundsjö, lake (Sweden), XXII, b 774
Fan, river (Zerafshan), XXIV, a 820
Fanal sidéral, reflector (Lighthouse) (Ill.), XIV, a 624
Fanariotes, Greek princes (Roumania), XXI, a b 23, b 24, a b 25, a 26
Fanaticism, ascetic (Monachism), XVI, b 727
Fan-blast engines (Bellows), III, b 476
Fan-Brake, IV, b 191
Fanchon (Himmel), XI, b 746
Fancy roller (Wool), XXIV, b 693
Fancying in Breeds, IV, b 223
Fandango, bird (Manakin), XV, a 463
Fandròana, festival (Madagascar), XV, a 174
Faneuil Hall (Boston, U. S.), IV, a 67
Fan frame (Organ) (Ill.), XVII, a b 858
Fang, tooth (Mammalia), XV, a b 353; (Cobra), VI, b 83; of spiders (Arachnida), II, a 256, a 257, a 259
Fannian law (Sumptuary Laws), XXII, a 678
Fanning, Edmund, Tory (Tryon), XXIII, b 946
Fanny Butler, Lettres de (Riccoboni), XX, a 553 note
FANO, city, IX, b 26
Fan-palm (Botany) (Ill.), IV, a b 98
FANS, dress articles, IX, b 25–6
——, blowing (Ventilation), XXIV, a 175
——, tribe (Gaboon), X, *a* 5; (Negro), XVII, a 327 note, b 328 note; (Niam-Niam), b 486
Fan-shaped map (Geography), X, b 185, a 186
FANSHAWE, Sir Richard, poet, IX, b 26–7; (Camoens), IV, b 662
Fant, Erik Michael, historian (Geijer), X, *b* 115
Fan-tail pigeon (Dove), VII, b 328
Fantasia (Music), XVII, a 103
Fantasiestücke (Hoffmann), XII, b 47, b 48
Fantees or Fantis, race (Ashantee), II, a b 595; (Gold Coast), X, *b* 672–3
Fanti, food (Macaroni), XV, a 126
Fantoccini, puppets (Marionettes), XV, b 553–4
Fan-tracery (Architecture), II, a 375, a 409
Fanum Fortunæ, town. See FANO
—— Voltumnæ (Viterbo), XXIV, b 282
Fáo, town (Bussorah), IV, a 515; (Euphrates), VIII, a 589
Farad, unit of measure (Telegraph), XXIII, a 124
Faradaic current as a brain stimulus (Physiology), XIX, a b 47
FARADAY, Michael, physicist, IX, a 27–9
  chemical discoveries, b 27
  electric researches, b 27–9
  induction, electrical, a 28
  literature, b 29
  personal character, a b 29
  polarization, experiments in, a 28–9
  youth, a b 27
—— (Anæsthetics), I, b 692; (Arago), II, *a* 266; (Attraction), III, b 56; (Candles), IV, b 708; (Chemistry), V, a 404, a 442; (Davy), VI, a 745; (Electricity), VIII, a 9, b 10, b 11, b 13, a *b* 14, a 15, a b 18, b 19, b 25, b 27, a 34–5, a 37, b 44, b 56, b 57–8, b 59, *a* 60, a b 71, a *b* 72, a b 73, b 74–5, b 77, b 80–1, a 84, b 86, b 93; (Electrolysis), VIII, *a b* 100, a b 101, b 102, a 103, b 104–6; (Electrometer), b 111; (Enamel), b 168; (Flame), IX, *a* 249; (Gold), X, b 659; (Magnetism), XV, b 248, a 249, b 263–9, b 275, a 276; (Meteorology), XVI, a 189; (Pneumatics), XIX, b 256, a 257; (Telegraph), XXIII, b 123, b 124; (Wave Theory), XXIV, a 477
Faraday's laws (Magnetism), XV, b 246, b 248–9
Farafreh, oasis (Oases), XVII, a 715
Farag, sultan (Egypt), VII, a 657
Faráizís, sect (Bákarganj), III, a 214
Farbenlehre (Goethe), X, b 63–4
Farce (Drama), VII, b 342, b 376, b 378; (Foote, S.), IX, a 322–4; (France), b 567, a 568, b 573; (Vanbrugh), XXIV, b 62, a 63
Farce of the Cow (Holland), XII, a 97
Farcot's governor (Steam-Engine), XXII, a 530
Farcy, disease (Glanders), X, b 565–6; (Veterinary Science), XXIV, b 218, a 219
Fardarougha (Carleton), V, *a* 95
Fardella, Michel Angelo, philosopher (Descartes), VII, a 111
FAREHAM, town, IX, b 29
FAREL, Guillaume, reformer, IX, b 29–30; (Calvin), IV, *b* 634, *a* b 635, a 636; (Switzerland), XXII, b 829
Fares, passenger (Railway), XX, b 231, a 236–7, *b* 261, *a b* 262, *a b* 263, *a* 264, b 265–6
Farewell to Lady Byron, IV, a 542
Fargite (Mineralogy), XVI, b 441
Faria, Manoel Severim de, antiquary (Camoens), IV, b 662
FARIA Y SOUSA, Manoel de, historian, IX, a b 30; (Camoens), IV, a 659, b 660
Farīd of Pākpattan, Shekh (Hindustani Literature), XI, b 754
Farid-Eddin Abdallah, poet. See RUDAGI
Faridh of Egypt, poet (Arabia), II, a 231
FARIDKOT, state, IX, b 30
FARIDPUR, district, IX, b 30–1
Farid Uddin Attar, poet. See FERID-EDDIN-ATHAR
Farilhoes, islands (Portugal), XIX, a 551
FARINA, town, IX, a 31
——, Giovanni Maria, perfumer (Eau de Cologne), VII, a 533
——, Giuseppe la, author. See LA FARINA
Farinacci, Prospero, jurist (Cenci), V, a 290; (Torture), XXIII, b 495, *a* 496
Farinaceous food (Dietetics), VII, b 179–80
FARINATO, Paolo, painter, IX, a b 31
FARINELLI, singer, or Carlo Broschi, IX, b 31–2; (Handel), XI, a 389; (Hasse), a b 456; (Metastasio), XVI, a b 109, b 110; (Porpora), XIX, *a* 537; (Voice), XXIV, a 295
Farington, Joseph (Constable, J.), VI, a 264
FARINI, Luigi Carlo, statesman, IX, a 32
Fáris, sheik (Mesopotamia), XVI, a 54
Farisan archipelago (Red Sea), XX, a 329
Farley, mathematician (Tables), XXIII, b 13, b 16
Farm buildings (Agriculture), I, a b 362–3
—— hospitals (Belgium), III, b 450, a 451
FARMER, Hugh, theologian, IX, b 32
——, Moses G., electrician (Telegraph), XXIII, *a* 930
FARMER, Richard, commentator, IX, b 32
Farmers' Almanac (Agriculture), I, a 281 *sq.*
—— *Calendar* (Young), XXIV, a b 793
—— *Magazine* (Agriculture), I, a 272
—— *Museum* (Periodicals), XVIII, a 555
Farming experiments (Manure), XV, a b 514–5; implements (Agriculture), I, b 276–92
—— the poor (Poor Laws), XIX, a b 482
Farmington, river (Connecticut), VI, a 255
Farms, Egyptian (Agriculture), I, a 260
——, sewage (Sewerage), XXI, b 746
——, size of (Agriculture), I, b 364–70; (United States), XXIII, b 878; statistics of (United States), b 877. See AGRICULTURE
FARNABIE or Farnaby, Thomas, teacher, IX, b 32-3
Farnborough Hills (Warwick), XXIV, b 399
Farne, islands (Northumberland), XVII, b 578
FARNESE, family, IX, a 33–4; (Parma), XVIII, b 320
——, Alessandro. See Pope PAUL III.
FARNESE, Alexander, Parma, prince, IX, a 34–5; (Armada), II, *a* 477; (Holland), XII, *b* 79, a b 80, a 81; (John, Don), XIII, b 728; (Philip II.), XVIII, a b 759
——, Eduardo, cardinal (Caracci), V, *a* 73
FARNESE, Elizabeth, Spain, queen, IX, b 33, a b 35. See Elizabeth Farnese
——, Giulia (Alexander VI.), I, a 431
——, Ottavio, duke of Parma, IX, b 33
——, Pierluigi, duke, IX, a 33; (Parma), XVIII, b 320; (Paul III.), b 441
——, Ranuccio, duke of Parma, IX, b 33
Farnese Bull (Archæology), II, b 319
—— palace, Rome (Architecture) (Plate XXI), II, a 383, a 386; (Michel Angelo), XVI, b 243, note; (Sangallo), XXI, b 278; (Sodoma), XXII, b 258. See Palace, Farnese
Farnesian congius, measure (Weights and Measures), XXIV, a *b* 513
Farnesina Villa (Peruzzi), XVIII, b 696; (Raphael), XX, a 292, a 293
FARNHAM, town, IX, b 35; (Surrey), XXII, a b 729, *a* 730
FARO, city, IX, b 35; district and town (Algarve), I, a 450
——, river (Adamawa), I, a 129
FAROE ISLANDS, IX, b 35–6; (Denmark), VII, a b 72, *b* 73; (Measles), XV, b 664; (Whirlpool), XXIV, b 571, a b 572; channel (Norwegian Sea), XVII, a b 608

Faroelite (Mineralogy), XVI, a 442
Farokhar, river (Afghânistân), I, a 217
FARQUHAR, George, dramatist, IX, b 36–7; (Drama), VII, a 377, note
——, Sir Robert, governor (Mauritius), XV, a 648
Farr, Samuel, physician (Vaccination), XXIV, a 34 note; (Zymotic Diseases), b 873
——, William, on Annuities, II, b 73. See List of Contributors
FARRAGUT, David Glascoe, admiral, IX, b 37–8; (Lincoln), XIV, a 667; (Louisiana), XV, b 24; (Marines), a 553; (Mobile), XVI, b 563; (United States), XXIII, b 825, b 828
Farrah, town (Afghânistân), I, a 207; (Kandahar), XIII, b 844, b 845
—— Rud, river (Afghânistân), I, a 206
FARRAKHÁBÁD, district, IX, b 38–9
FARRANT, Richard, composer, IX, a 39
Farrar, Frederic William, canon (Aurelius), III, b 76, a 78. See List of Contributors
Farreidæ, family (Sponges), XXII, a 439
Farren, Eliza, actress (Derby), VII, a 95
Farringdon Market (London), XIV, b 838
Farrukh Siyyar, shah (Hyderabad), XII, b 445
FARS or Farsistan, province, IX, a b 39
Farsa (Drama), VII, b 361
Farsakh or parasang, measure of length (Weights and Measures), XXIV, b 518
Farshoot, town (Egypt), VII, a 673
Farthingale, hooped skirt (Costume), VI, a b 419
Farthings (Money), XVI, a 760; (Numismatics), XVII, a b 674
Fas, custom (Roman Law), XX, *b* 687–8, b 689
Fasani, Raniero, hermit (Italy), XIII, a 511
FASANO, town, IX, b 39
Fasces, standard (Consul), VI, a 279, a 280
Fascheux, Les, comedy (Molière), XVI, b 650
Fascia defined (Anatomy), I, a 732, a 746
Fascicle (Botany) (Ill.), IV, b 111
Fasciculi Zinaniorum (Wycliffe), XXIV, a b 746 notes, b 747
Fasciculus teres (Anatomy), I, a *b* 764, a 765; uncinatus (Anatomy), a 772
Fascines, fagots (Fortification), IX, a 378
Fasciola, genus (Trematoda) (Ill.), XXIII, a b 569–73, a 573; (Veterinary Science), XXIV, b 222
Fasgadair, bird (Skua), XXII, b 133 note
Fashoda, town (Nile), XVII, *a* b 520
Fast-day, April (Thanksgiving Day), XXIII, b 937
Fast freight lines (Railway), XX, a 266
FASTI, year book, IX, b 39–40; (Almanac), I, *b* 519
Fasti of Ovid (Augustus), III, a 73; (Ovid), XVIII, b 82, b 83, b 84, a 85
—— *Consulares*, MS. (Palæography), XVIII, b 157, b 166
—— *Hellenici et Romani* (Chronology), V, a 625; (Clinton, H. F.), VI, b 8; (Israel), XIII, b 441
—— *Limpurgenses* (Limburg), XIV, b 652
FASTING, a rite, IX, a 40–4
  Christian Church, b 41–4
    early, b 41–2
    mediæval, a 42–3
    modern, a 43–4
  Jewish practice, b 40–1
  Mahometan practice, a 44
  origins of, a b 40
—— (Advent), I, a 161; (Brehon Law), IV, b 227; (Dietetics), VII, a 181; (Good Friday), X, a 689; (Holy Week), XII, b 109; (Isaiah), XIII, b 390; (Jesus Christ), b 675; (Lent), XIV, a b 447; (Opium), XVII, b 816; girls (Insanity), XIII, a 115; Tibetan national (Lamaism), XIV, b 230
FASTING, Claus, poet, IX, a 44; (Norway), XVII, b 604
Fastnet rock (Ireland), XIII, a 222
Fastolf, Sir John, captain (Paston Letters), XVIII, a 350
Fat (Anatomy), I, a b 747; (Corpulence), VI, b 385–6; (Dietetics), VII, b 174, a 175, a b 177; (Nutrition), XVII, a *b* 697, *a b* 699; formation of (Pathology), XVIII, b 397–8
Fatal Dowry, play (Massinger), XV, b 625
—— *Marriage*, play (Southerne), XXII, b 303
Fatalism (Cudworth), VI, b 609, a 611; (Epicurus), VIII, b 421–2; (Jacobi), XIII, b 547. See Determinism, Predestination
Fate, dramatic use of (Sophocles), XXII, b 285–6; in German Tragedies, X, a 485
Fate, On (Plutarch), XIX, a 264
FATES, myths, IX, a b 44; (Atropos), III, b 45
Fath ʻAli, sháh (Persia), XVIII, a 658–61
Father (Abandonment), I, b 12; (Infant), XIII, a 4; sacred (Fire), IX, b 200
"Father Joseph," politician (France), IX, *b* 501, a 502
"Father Prout," nom de plume (Mahony), XV, b 290
Fatherhood of God (Jesus Christ), XIII, b 680
FATHERS, APOSTOLIC, II, a 171–3; (Canon), V, a 8–9; (Creeds), VI, *b* 494
—— of chapels (Trade Unions), XXIII, a 533
Fathers and Children or *Sons* (Tourguenieff), XXIII, a b 519, note
Fathers of Christian Doctrine, order (Monachism), XVI, b 738
FATHERS OF THE CHURCH, IX, b 44–5; (Devil), VII, a 119; (Erasmus), VIII, b 455; (Eucharist), *b* 571, *a b* 572, *a* b 573; (Evolution), b 663; four great (Augustine), III, a 66; Greek (Baptism), a b 301; Post-Apostolic (Canon), V, a 9–12; theology of ante-Nicene (Jesus Christ), XIII, b 681
Fathi Muhammad, chief (Cutch), VI, *b* 645, *a* 646
FATHIPUR, district, IX, b 45
FATHIPUR SIKRI, town, IX, b 45–6; (Agra), I, *a* 255
Fath Khán Bárakzár, wazir (Persia), XVIII, b 660
Fathom, measure of length (Weights and Measures), XXIV, a 512, b 517
Fatigue of Elasticity, VII, b 695; of metals (Strength of Materials), XXII, b 632–3
——, muscular (Sleep), XXII, a 166
Fatiha, prayer in Koran (Mohammedanism), XVI, a 625
FATIMAH, daughter of Mahomet, IX, a 46; (Medina), XV, *b* 827, *a* 828; (Mohammedanism), XVI, b 569, b 609
Fatimite Library, Africa, XIV, b 513
Fatimites, caliphs (Arabia), II, b 227; (Assassin), II, a 632; (Egypt), VII, *b* 650, a 651–3; (Mohammedanism), XVI, b 609–10, a 615; (Morocco), a 861; (Numismatics), XVII, *b* 678; (Shiʻites), XXII, a 698, note; (Tunis), XXIII, b 660; ʻAbd al Rahmán III. and the (Spain), XXII, *a* b 328
Fatio, advocate (Geneva), X, b 134–5
—— de Duillier, mathematician (Infinitesimal Calculus), XIII, a 11
Fatra, doctrine of (Mohammedanism), XVI, b 571
Fats (Adulteration), I, b 155–6; (Glycerin), X, b 621, a 622; (Oils), XVII, *b* 760, *a* 761, b 764, b 765, a 769; formation in plants of (Physiology), XIX, a 59, a 60, b 61, *a* 62; oils and (Soap), XXII, a 214; treatment of (Candle), IV, b 708; vegetable (Oils), XVII, a b 768
Fat-shan, town (China), V, a 556
Fatsia or aralia papyrifera (Botany), IV, b 89
Fatsisio, misspelling (Japan), XIII, a 578
Fattatenda, town (Gambia), X, a 54
Fattore, Il. See PENNI, Gianfrancesco
Fatty acids (Chemistry), V, b 493–4, b 497, a 498
—— compounds (Chemistry), V, a 479
—— degeneration (Heart), XI, a 495; of the kidneys (Bright's Disease), IV, b 312; of protoplasm (Pathology), XVIII, b 398–9
—— fin (Ichthyology), XII, b 674
Fau, Chinese measure of length (Weights and Measures), XXIV, a 518
Faubourg St. Antoine, battle, 1652 (Montpensier), XVI, a 819
FAUCHER, Léon, economist, IX, a b 46
FAUCHET, Claude, abbé, revolutionist, IX, b 46–7
FAUCHET, Claude, historian, IX, b 46; (France), a 577
Fauchet Dispatches (Wolcott), XXIV, b 907
Faucille, Col de la, road (Jura), XIII, a *b* 791
Faucilles, Monts (Marne, Haute-), XV, *b* 568
Faugère, Armand Prosper, author (Pascal), XVIII, a 341, a 343
Faughan, river (Londonderry), XIV, a 862
FAUJAS DE SAINT-FOND, Barthélemi, geologist, IX, a b 47
Faujasite (Mineralogy), XVI, b 439
Faulen, mountain (Schwyz), XXI, a 486
Faults, geological (Coal) (Ill.), VI, a b 47, b 50; (Geology) (Ill.), X, a 233, b 267–71; (Mining) (Ill.), XVI, b 461; (Norway), XVII, b 592; (Westmorland), XXIV, a 542, *a* b 543; (York), b 783; of the Andes (America), I, *a* b 591; origin of (Geology), X, b 330–1
——, testing for electric (Telegraph), XXIII, b 127–8, a 133
FAUN, myth, IX, b 47
Fauna (Abyssinia), I, b 62–3; (Afghânistân), a 209; (Africa), b 231–3; (Algeria), a 497; (Alps), a 557–8, a 559; (America), a 598–601
—— (Andaman Islands), II, b 13–14; (Arabia), b 209–12; (Arkansas), a 474; (Aru Islands), b 585; (Asia), a 607–8; (Asia Minor), b 620; (Assam), a 630
—— (Australia), III, b 96–8; (Azores), b 148; (Baghdad), b 199; (Bahamas), b 204; (Bermudas), a 518; (Bhután), a 546
—— (Bolivia), IV, b 12–3; (Borneo), a b 51; (Brazil), a b 204; (Burmah), a b 493; (California), a 623; (Canada), a 684–5; (Canary Islands), a 704
—— (Cape Colony), V, a 40; (Caucasus), a 223; (Celebes), a 250; (Ceylon), b 315–6; (Channel Islands), a b 340; (Chili), b 541–2
—— (Cochin China), VI, a 87; (Congo), b 236; (Corea), b 347–8; (Costa Rica), a 398; (Crimea), b 518; (Cuba), a 601–2; (Dacca), a b 667
—— (Denmark), VII, a 71; (Durham), a 484; (Ecuador), b 561–2; (Egypt), b 616–18
—— (Europe), VIII, a 608–11
—— (Falconer, H.), IX, b 5, a 6; (Fiji Islands), b 137; (Forbes), b 342; (Formosa), b 366–7; (Friendly Islands), b 684
—— (Galapagos Islands), X, b 17; (Georgia, kingdom), b 387; (Germany), a b 406; (Ghilan), a 507; (Gibraltar), a *b* 521

Fauna (Greece), XI, a 75; (Greenland), b 150–1; (Guatemala), b 212–3; (Guiana), b 222; (Hainau), a 335; (Hawaiian Islands), b 473; (Hayti), a 486; (Himalaya), a 744–5
—— (Honduras), XII, b 134; (Honduras, British), a 137; (Hungary), b 377–8; (Iceland), a 653; (Ichthyology), a b 671; (Idaho), b 736; (India), a 779–82; (Indian Archipelago), b 856–7; (Indian Territory), b 874–5
—— (Jamaica), XIII, b 559; (Japan), b 584–5; (Java), a b 613, a 614; (Juan Fernandez), b 767–8
—— (Kerguelen's Land), XIV, a 51; (Kerry), b 53; (Khiva), b 66; (Kurdistan), b 159; (Labrador), b 176; (Lombok), a 826; (Long Island), a b 876
—— (Madagascar), XV, a b 171, b 176; (Madeira), b 180–1; (Madras), b 185–6; (Maine), a 301; (Malay Peninsula), b 324; (Malta), b 342; (Man, Isle of), a 459; (Maritime Province), b 554, a b 555; (Massachusetts), a b 618; (Mauritius), b 647; (Mazandarán), a 658
—— (Mesopotamia), XVI, a 55, b 56; (Mexico), a 226; (Micronesia) a 268; (Mississippi), b 546; (Missouri), b 549; (Montana), b 799; (Montenegro), a 807; (Morocco), b 859
—— (Natal), XVII, a 247; (Nebraska), 317; (Nepāl), a 350; (New Caledonia), a 386; (Newfoundland), a 393; (New Guinea), a 397; (New Hampshire), *b* 400; (New Hebrides), b 405; (New South Wales), b 420–1; (New York), b 463–4; (New Zealand), a 482; (Nicaragua), a 492; (North Sea), a 578; (Norway), a b 595; (Nova Zembla), a b 620; (Nubia), b 626; (Oregon), b 847; (Orkney and Shetland), a 872
—— (Oudh), XVIII, a 75; (Paraguay), a 248; (Patagonia), a b 357, a 358; (Pennsylvania), a b 513; (Persia), a 635–6; (Peru), b 684–5, b 686; (Philippine Islands), a b 764
—— (Poland), XIX, b 320; (Polar Regions), a 341; (Polynesia), a b 433, a b 434; (Prairie), a 925
—— (Pyrenees), XX, a 132; (Queensland), b 180; Reptiles, literature of, b 453–4; (Réunion), b 506; (Rodriguez), b 634–5
—— (Russia), XXI, a b 85; (Sahara), b 159; (St. Helena), b 179–80; (St. Paul), a 199; (Scotland), b 556; (Senaar), a 690; (Senegambia), b 694; (Siam), a 891
—— (Siberia), XXII, a 12–3, b 17, a 18; (Sind), b 98; (Solomon Islands), b 265–6; (Soudan), b 291; (South Australia), a 299; (South Carolina), b 301; (Spain), b 311–12; (Spitzbergen), b 424–5; (Sweden), a 779–80; (Switzerland), b 816; (Sumatra), b 672
—— (Tahiti), XXIII, a b 28; (Tasmania), a b 80; (Texas), b 222; (Transbaikalia), *b* 542; (Transcaspian), a b 544, note; (Transvaal), a 551; (Tunis), a 660; (Turgai), a 668; (Turkestan), b 675–6, b 679; (Uganda), a 765
—— (Ural Mountains), XXIV, b 9; (Uruguay), b 19; (Utah), a 25; (Venezuela), a 151; (Vermont), b 181; (Victoria), a b 234; (Virginia), a b 278; (West Indies), b 539–40; (West Virginia), b 546; (Western Australia), a b 536; (Westmorland), b 543; (Wyoming), a 749; (Yellowstone Park), a 774; (Zululand), b 866. See DISTRIBUTION, Fossils
——, extinct. See Extinction of Birds, III, b 638
——, marine (Atlantic Ocean), III, b 24–5; Baltic), a 257; (Black Sea), a 694; (Caspian Sea), V, b 156, a 157, a 158; (Distribution), VII, b 240–4; (Geology), X, a 251; (Norwegian Sea), XVII, b 607, a b 608; (Pacific Ocean), XVIII, b 131–2, a 133; (Red Sea), XX, a 132; (Sea), XXI, a 606; (Suez Canal), XXII, b 653
——, subterranean (Luray Cavern), XV, b 69; (Mammoth Cave), a 457
Faunæ (Ornithology), XVIII, b 8, note, a 20–22
Faun's Head, sculpture (Michel Angelo), XVI, a 239
Faunus, king (Rome), XX, b 750
Faure, Antoine, poet (France), IX, a 573
——, Charles, monk (Geneviève), X, a 137
FAURIEL, Charles Clande, historian, IX, b 47–8; *Romaic Songs* of (Ballads), III, *b* 245
Fausse-braye, advanced parapet (Fortification), IX, b 407–8
Faust, magician. See FAUSTUS
Faust, Goethe's (Drama), VII, a 379, a b 382; (Germany), X, a 481, b 482; (Goethe), b 644, a 645, a 647, a 648, b 649, a 651, *b* 652, a b 653, *a* 655; (Leipsic), XIV, a 430; (Magic), XV, a 204; (Mephistopheles), XVI, a 34; (Poetry), XIX, a 278; illustrations of (Scheffer), XXI, b 405; translations of (Gerard de Nerval), X, a 397; (Taylor), XXIII, a 98
Faust, opera (Spohr), XXII, a b 426
Faust, Johann, printer. See FUST, Johan
Fausta, empress (Constantine I.), VI, b 266, note, *b* 267
FAUSTINA, Annia, the Younger, empress, IX, b 48–9; (Aurelius), III, b 75, a 76, a 77. See Temple of Faustina
—— the Elder, empress (Antoninus Pius), II, b 122; medal of (Vesta), XXIV, a 210
FAUSTUS, Dr. Johann, magician, IX, a 49–50; (Demonology), VII, a 57; (Fust), IX, a 751. See *Faust*
Faustus, Marlowe's play, IX, b 49; XV, b 563–4; (Logic), XIV, b 812
——, *Dr. Harlequin*, play (Pantomime), XVIII, b 219
——, Manichæan bishop (Augustine), III, b 66, b 67
Fauth & Co., opticians (Telescopic Work), XXIII, *a* b 935
Fauvel, romance (France), IX, a 566
Fauvelle's method of boring (Coal), VI, b 58
FAVARA, town, IX, a 50
Favarota, town (Manna), XV, a 500
FAVART, Charles Simon, dramatist, IX, a 50–1
Faventia, ancient name for BARCELONA and FAENZA
FAVERSHAM, town, IX, b 50; factory (Gunpowder), XI, *a* 284, a 289
FAVORINUS, sophist, IX, b 50–1; (Hadrian), XI, a 326
Favorita, opera (Donizetti), VII, a b 315
Favositidæ, family (Corals), VI, *a* 334, *a* b 337
Favre, physicist (Electricity), VIII, a b 84, *a* 85, a 86
Favus, skin disease (Medicine), XV, b 826; (Parasitism), XVIII, a 274
Fawcett, Henry, economist (Free Trade), IX, a 664; (Post-Office), XIX, a 586 note, a 587, b 592; (Taxation), XXIII, a 92
——, Millicent, economist (Post-Office), XIX, a 586 note. See List of Contributors
Fawkes of Farnley Hall (Turner), XXIII, a b 706
FAWKES, Francis, poet, IX, a 51
FAWKES, Guy, conspirator, IX, a 51–2; (Torture), XXIII, b 494, note
Fawkner, John Pasco, pioneer (Melbourne), XV, a 847; (Victoria), XXIV, a 236
Faxis bay (Iceland), XII, a b 651
FAY, András, poet, IX, b 52; (Hungary), XII, *b* 392, a b 394
Faval, island (Azores), III, b 147, *a* 148, a 149
Fayalite (Mineralogy) (Ill.), XVI, b 427
Fayence ware. See Faience ware
Faye's Comet, VI, b 172
FAYETTEVILLE, town, IX, b 52–3
Fayod, naturalist (Protozoa), XIX, b 863
Fayrefax MS. (Music), XVII, b 91
Fayrer, Sir Joseph, physician (India), XII, a 779, b 781 note; (Snakes), XXII, *b* 201, a 202; (Tiger), XXIII, b 412
Fayser, German farrier (Veterinary Science), XXIV, a 214
Fayum, Fayoum or Feiyoom, oasis (Egypt), VII, b 611, a 615, a 616, b 650, b 662, a b 671; (Pyramids), XX, b 130; labyrinth at (Architecture), II, b 339
Fazekas, Michael, poet (Hungary), XII, a 392
Fázil Ahmed, grand vizier (Turkey), XXIII, b 686
Fazio degli Uberti, poet (Italy), XIII, a 515, a 516
Fazogl, district (Senaar), XXI, b 689, *a* 690
Fazy, James, statesman (Geneva), X, a b 135
FEA, Carlo, archæologist, IX, a 53
Fea-berry (Gooseberry), X, a 693
Fealty (Homage), XII, a 110; (Knighthood), XIV, b 115–6. See Feudal System
FEARNE, Charles, author, IX, a 53
Feast. See FESTIVALS
—— of the Dedication (Psalms), XX, *b* 36
—— *of the Gods*, painting (Bellini), III, b 472
—— of the Passover. See PASSOVER
—— Rosary of the Blessed Virgin (Rosary), XX, a 871
—— *of Rose-garlands* (Dürer), VII, b 478, a 481
—— of Tabernacles. See TABERNACLES, feast of
—— of unleavened bread (Passover), XVIII, a 348–9; (Pentateuch), a 522
Feasts, religious (Bairam), III, a 212; (Mary), XV, b 598–9; (Pentateuch), XVIII, b 521; (Peter), a 710; (Sacrifice), XXI, *a* 142, a 143, a 144; (September), b 698; (Shi'ites), XXII, a 699; movable (Calendar), IV, b 600
——, social (Egypt), VII, b 624–5; regulation of (Sumptuary Laws), XXII, *a* b 678
Feather, river (California), IV, b 617, a b 618, *b* 621
—— alum (Copperas), VI, a 313
—— fibre (Hemp), XI, b 577
Feathering oars (Rowing), XXI, a 37
FEATHERS, IX, a 53–4; (Birds), III, b 630–1; (Goose), X, b 691, note; (Lyre-Bird) (Ill.), XV, b 117, a 118; (Ostrich), XVIII, a 67; growth of (Ornithology), a 30 note, b 33, b 34, a b 52; nature of (Skeleton), XXII, a 115, a 116. See Plumage.
Feather stars (Echinodermata) (Ill.), VII, a 544, b 550–2
—— stitch (Embroidery), VIII, a b 149
Febrifuge (Quinine), XX, a 192
"Febronius," pseudonym. See Hontheim
FEBRUARY, IX, a 54; (Calendar), IV, b 590, *a b* 591, b 597; (Candlemas), a 710; calendar, British (Horti-

FEBRUARY, *continued* culture), XII, a b 303; calendar, U.S. (Horticulture), a b 306; sea isotherms (Meteorology) (Ill.), XVI, a-b 138
FÉCAMP, town, IX, b 54; (Seine Inférieure), XXI, *a* b 657
Fechner, Gustav Théodor, philosopher (Æsthetics), I, a 198; (Electricity), VIII, b 12, a 13, *a* 14, b 81; (Electrometer), b 114; (Evolution), b 671-2; (Psychology), XX, a 64, note, b 74 note; (Schopenhauer), XXI, b 478; (Weber's Law), XXIV, *b* 496, a b 497, a 498
Fechner's law (Eye), VIII, a 719; (Music), XVII, b 111
FECKENHAM or Fecknam, John de, abbot, IX, b 54
Fecundation (Biology), III, a b 594; (Reproduction), XX, a 438-43; artificial (Pisciculture), XIX, b 136-7. See Fertilization.
Fecundity (Lice), XV, b 26; bacterian (Schizomycetes), XXI, a 420, note; of spiders (Arachnida), II, b 261
Fedáis, company (Assassin), II, a b 632
FEDCHENKO, Alexis Paulowitch, naturalist, IX, b 54-5
Feddán, Egyptian land-measure (Weights and Measures), XXIV, a 518
Feddersen, Berend Wilhelm, physicist (Electricity), VIII, a b 61, a b 77
Fedele, Cassandra, female philosopher (Averroes), III, b 131
Federal Act of Vienna, 1815 (Metternich), XVI, a b 209
—— council (Germany), X, *b* 416-7
—— district (Mexico), XVI, a 223, b 899, b 901, a 905
FEDERAL GOVERNMENT, IX, a 55-6; (Achaia), I, b 88; (Canada), IV, a 676; (Constitution and Law), VI, b 276; (Mexico), XVI, a b 899; (Switzerland), XXII, a 820, a 833-5; nature of (United States), XXIII, a 797, a b 799-800
—— party of Argentine Republic, II, b 432
—— school in Theology, XXIII, b 287-8; (Coccejus), VI, b 84
Federalism (Madison), XV, b 183, a 184; (Massachusetts), *a* 623
Federalist, essays (Hamilton, A.), XI, a b 369, a 370; (Jay, John), XIII, a 623; (United States), XXIII, b 800
Federalists, party (Adams, J. Q.), I, a 131; (Burr), XXIII, a 837; (Gallatin), X, *a b* 36, a 37; (Jefferson), XIII, b 626, a 627; (Madison), XV, b 183, a 184; (Massachusetts), *a* 623; (Monroe), XVI, a 787; (Taylor, J.), XXIII, *a* 927; (United States), a 800, b 802, a *b* 803, *a* b 804, a 805, b 807, b 808, b 809, a 811; extinction of (United States), a b 809; (Whig), XXIV, a b 894
FEDERICI, Camille, dramatist, IX, a 56
——, Cesare de, merchant (Andaman Islands), II, a 14; (Ormus), XVII, a 882
Federoff, naturalist (Ural Mountains), XXIV, a 8
Fedkovich, Yuri, poet (Russia), XXI, b 118
Fedlimid, king (Ireland), XIII, b 257
FEE, estate, IX, a 56; (Feudalism), *a* 108; (Real Estate), XX, b 319; simple (Real Estate), b 319
——, Knight's, XIV, b 114-5
——, lawyer's gratuity (Advocate), I, b 161; (Barristers), III, b 340
Feeding Bees, III, a 433; cattle (Agriculture), I, a 346-7; goats, a 355; hogs, b 355; horses, a b 343; (Horse), XII, a b 197; in sickness (Veterinary Science), XXIV, b 217; Hounds, XII, b 329-30; poultry, I, a b 356; sheep, b 350, a 353
Feeding-board in printing-press (Typography), XXIII, b 752
Feeding-stuffs as Manure, XV, a b 518
Feeds, devices (Sewing Machines), XXI, a b 920
Feed-water heater (Steam-Engine), XXII, *b* 517, b 522, a 546; pump (Steam-Engine), a 538, a b 924
Feejee islands. See FIJI
Feeling, mental (Comte), VI, a b 211, a 212; (Hamilton, Sir W.), XI, b 372, b 374; (Psychology), XX, b 71-6; depression of (Insanity), XIII, b 112; effects of (Psychology), XX, a 77-9; exaltation of (Insanity), XIII, b 112-13; function of (Psychology), XX, a 45-6, *a* b 49; motion arising from, a b 48-9; relation of (Belief), III, a 462; religious function of (Schleiermacher), XXI, a b 431. See Emotion
——, sense of. See TOUCH
Feen villa (Cashan), V, a 153
Feer, Léon, orientalist (Tibet), XXIII, a 368 note
Fées, French fairies (Apparitions), II, a 178
Feet (Mammalia) (Ill.), XV, a 384, b 385, b 427, b 428, a 430, a 433, b 435; (Megatherium), b 838-9; of birds (Touch), XXIII, a 509; of galeopithecus (Mammalia) (Ill.), XV, b 405; perissodactyla (Mammalia) (Ill.), a 433. See Foot
—— washing (Maundy Thursday), XV, a b 642
Fegatella, genus (Muscineæ) (Ill.), XVII, a b 73, *a* 74
Fehling's solution (Sugar), XXII, b 656-7
Fehmarn, island (Schleswig-Holstein), XXI, *a* 432
FEHMIC COURTS or Fehmgerichte, IX, a 56-7; (Germany), X, a 444
Fehrbellin, battle of, 1675 (Prussia), XX, a 11
Feigned issue in law (Wager), XXIV, a 326
Feijenoord, island (Rotterdam), XXI, b 14
Feijoes, beans (Oporto), XVII, b 818
Feijoo, regent (Brazil), IV, a 210
Feil, Messieurs, opticians (Telescope), XXIII, b 150, b 154
Feilberg, H. F., philologist (Scandinavian Languages), XXI, b 390
Feilden, Henry W., naturalist (Greenland), XI, *b* 149, b 150, note, a 153, note; (Musk-Ox) XVII, b 115; (Polar Regions), XIX, b 336
Feinaigle, Grégoire, monk (Mnemonics), XVI, b 556
Feinne, Highland term (Vitrified Forts), XXIV, b 284
Feiran, oasis (Sinai), XXII, a 96
Feiring the land (Agriculture), I, b 299
FEITAMA, Sybrand, author, IX, a 57; (Holland), XII, b 99
FEITH, Rhijnvis, poet, IX, a b 57; (Holland), XII, b 100
Feiyoom, oasis. See Fayum
Feizi brothers (Akbar), I, b 385
FEJÉR, Gyorgy, author, IX, b 57
Fel, Mademoiselle, songstress (Grimm), XI, a 176
Feldberg, mountain (Baden), III, b 193; (Germany), X, b 402; (Würtemberg), XXIV, b 735
FELDKIRCH, town, IX, b 57; (Vorarlberg), XXIV, *a* 318
Feldon, district (Shakespeare), XXI, a b 774, a b 775
FÉLEGYHÁZA, town, IX, b 57-8
Feletheus, Rugian king (Odoacer), XVII, b 747
FÉLIBIEN, André, historiographer, IX, a 58
FÈLLIBIEN, Dom Michel, historian, IX, a 58
Felici, Ricardo, physicist (Electricity), VIII, a 12, a 73
Feliciano de Castilho, Antonio, poet (Portugal), XIX, b 569
Felidæ, family (America), I, a 599; (Leopard), XIV, b 463-4; (Lion), b 685, b 686, a 687; (Mammalia), XV, b 440-1
Felinite (Mineralogy), XVI, b 443
Felinski, Aloysius, dramatist (Poland), XIX, a 315
Felis spelæa, fossil (Archæology), II, a b 294; (Lion), XIV, b 685
FELIX, popes, IX, a b 58
—— I., pope, IX, a b 58
—— II., pope, IX, *b* 58; (Liberius), XIV, b 508; (Popedom), XIX, a 507, b 523
—— III., pope, IX, b 58
—— IV., pope (Rome), XX, b 846, note
—— V., pope (Amadeus), I, b 571; (Basel), III, b 353; (Geneva), X, a 134; (Italy), XIII, b 493; (Popedom), XIX, a b 517, b 524; (Savoy), XXI, b 356
FELIX, Antonius or Claudius, IX, b 58-9; (Israel), XIII, *a* 437
——, Elizabeth, actress. See RACHEL
—— of Aptungis, bishop (Donatists), VII, *a* b 311
Felix Farley's Journal (Chatterton), V, a b 386, a 387
—— *Marte de Hyrcania* (Romance), XX, b 675
—— Societas Balestrariorum et Pavesatorum (Rome), XX, *b* 819, a 820
—— of Urgel, bishop (Adoptian Controversy), I, a 149
FELIX of Valois, monk, IX, b 58
Felkel's *Tafel aller Factoren* (Tables), XXIII, a 12, note
FELL, John, bishop, IX, a 59; (Hobbes), XII, b 41; (Typography), XXIII, a b 740
——, Margaret, philanthropist (Quakers), XX, a 154
Felláheen or peasantry (Canaanites), IV, a 675; (Egypt), VII, a 631, b 663, a b 665, *a* 682; (Palestine), XVIII, a b 182
Fellahs, race (Africa), I, b 238
Fellatahs, race (Africa), I, *b* 235. See Foulahs
FELLENBERG, Philipp Emanuel von, teacher, IX, a b 59
FELLER, François Xavier de, author, IX, b 59
Fellows, academical (College), VI, b 128; of Royal College of Veterinary Science, XXIV, b 215
FELLOWS, Sir Charles, traveller, IX, b 59-60; (Archæology), II, b 316; (Architecture), b 351, a 353, b 361, b 400; (Lycia), XV, *b* 95
Fellowships, academical (Dublin), VII, *b* 430; American (Universities), XXIII, a 961; English (Universities), *a* 909, b 910
FELO DE SE, crime, IX, a 60. See SUICIDE
Felon-Grass (Hellebore), XI, a 567
FELONY, IX, a b 60; (Criminal Law), VI, b 520-1; (Habeas Corpus), XI, *b* 320; (Oath), XVII, a b 721; (Piracy), XIX, a 126; (Witchcraft), XXIV, *a* b 654
Feloops, tribes (Africa), I, b 235
Fels, coin (Numismatics), XVII, a 678
Felsina, city (Italy), XIII, b 455
Felsinotherium, fossil (Mammalia), XV, b 394
Felsöbanyite (Mineralogy), XVI, a 418
Felspar (Geology), X, a 203, b 207-8; (Granite), XI, *b* 43, a b 44, a 45; (Kaolin), XIV, a 3; (Mineralogy) (Ill.), XVI, a b 375, *b* 380, a 381, b 383, b 384, b 387, a b 392, a 393, b 436-7
Felstone or felsite (Geology), X, a b 208; (Granite), XI, b 44

FELT, fabric, IX, b 60–1; (Hair), XI, b 336; (Negro), XVII, a 326 note; Hats, XI, b 462, a 463–4; manufacture (Persia), XVIII, a 637; (Wool), XXIV, b 692-3
FELTHAM, Owen, author, IX, a 61
Felton, John, assassin (Buckingham, Duke of), IV, b 376; (Torture), XXIII, a 494
FELTRE or Feltria, town, IX, a 61
FELTRE, Morto da, painter, IX, a b 61
——, Vittorino da, humanist (Renaissance), XX, a 399
Felup tribes (Negro), XVII, a 328
Felwort, plant (Gentian), X, b 143
Female organs of plants (Botany) (Ill.), IV, b 127–45; (Walnut), XXIV, b 353, a 354. See Reproductive Organs, Sex in Plants
Females, proportion to males (Population), XIX, b 528, a b 529
Femme, La (Michelet), XVI, b 244
Femme sole (Husband and Wife), XII, *a* 417
Femmes Savantes, comedy (Molière), XVI, b 652
Femoral artery (Anatomy), I, b 794; vein (Anatomy), *a* 796
Femur, bone (Anatomy) (Ill.), I, a 727; (Ape), II, b 142; (Birds), III, a b 626; (Horse), XII, b 181; (Mammalia), XV, a 363
Fences (Agriculture), I, a 275–6; (Brehon Law), IV, b 227
FENCING, art, IX, b 61–3
  attacks and parades, b 62–3
  duelling, a 62
  practice, a 62, a b 63
  rules proposed, b 63
  swords, history of, b 61–2
—— (Sword), XXII, b 841, b 842
Fen district (Bedford Level), III, b 416; (Birds), a 634; (Cambridge), IV, a b 643–4; (Holland), XII, a b 64; (Huntingdon), *b* 412, a b 413; (Lincoln), XIV, a b 660, *a* b 661; rivers of (Railway Engineering), XX, *b* 587, a 588
Fene, Gradh, an order (Celtic Literature), V, *a* 263
Fenechas, law (Celtic Literature), V, a 263, a b 264
Fenella of Mearns, heroine (Scotland), XXI, b 501
FÉNELON, Bertrand, Marquis de la Mothe, diplomatist, IX, b 63
FÉNELON, François de Salignac de Lamothe, archbishop, IX, a 64–6
  court employments, b 64–5
  education, a 64
  episcopate of, b 65
  Guyon complications, a b 65
  literature and critique, b 65–6
  teacher of girls, b 64
—— (Bossuet), IV, a 62, a b 63; (Cambray), b 642; (France), IX, b 582–3; (Guyon), XI, b 306, *a* 307; (Political Economy), XIX, b 372; on Balance of Power, III, a 231
Fenestella, Lucius, historian (Terence), XXIII, b 203, a 204
Fenestræ of ear (Anatomy), I, *b* 783, a 784, a 785
Fenestrelle, valley (Italy), XIII, a 445
FENIANS, ancient, IX, a 66–7; (Fingal), a b 187; (Ireland), XIII, a 251
——, modern (Dublin), VII, a 428, a 434; (Ireland), XIII, b 276, a b 277; (St. Albans), XXI, a 165
Fen-lands in Agriculture, I, a 293, b 294, b 312, a 359–60. See Bog, Marsh, Swamps
Fenn, Sir John, editor (Paston Letters), XVIII, b 349–50
FENNEL, plant, IX, a 67; (Botany) (Ill.), IV, a 108, a 136, a 137; (Horticulture), XII, b 302
"Fennian" tales (Celtic Literature), V, a b 270
Fenton, Edward, navigator (Fenton), IX, b 67
FENTON, Elijah, poet, IX, a 67; (Broome), IV, a 335; (Drama), VII, b 377, note; (Waller), XXIV, *b* 351
FENTON, Sir Geoffrey, writer, IX, b 67
—— wheat (Agriculture), I, a 315
FENUGREEK, herb, IX, b 67
Fenwick, Sir John, conspirator (Marlborough), XV, a 561
——, John, proprietor (Penn), XVIII, b 504; (Quakers), XX, b 158
Feodor I., Ivanovitch, czar (Russia), XXI, b 101, *a* 102, a 113
—— II., czar (Russia), XXI, b 103
—— III., czar (Peter I.), XVIII, a 712; (Russia), XXI, a 105
Feodoroff, Ivan, printer (Russia), XXI, b 112
FEOFFMENT, law, IX, b 67; (Sale), XXI, a 216; to uses (Trust), XXIII, b 633
Feræ, Linnæan order (Mammalia), XV, b 438, note
Ferberite (Mineralogy), XVI, b 420
Ferceira, island (Portugal), XIX, b 567
FERDINAND, name, IX, b 67–8
FERDINAND I., emperor, IX, a 68; (Austria), III, b 108–9; (Beaton), a 403; (Castillejo), V, *a* 171; (Charles V.), a b 361; (Germany), X, *b* 446, *b* 447, *a* 448; (Hungary), XII, b 383–4
FERDINAND II., emperor, IX, a b 68; (Austria), III, a 109–10; (Germany), X, *b* 448–9; (Gustavus II.), XI, b 298, a 299; (Hungary), XII, b 384; (Spain), XXII, *a* b 345; (Wallenstein), XXIV, *a b* 348, *a* 350
FERDINAND III., emperor, IX, b 68; (Germany), X, a b 450; (Hungary), XII, b 384
FERDINAND I., emperor of Austria, and V. of Hungary, IX, a 69; (Austria), III, b 118, b 119; (Germany), X, b 453, b 454, a 455; (Hungary), XII, a b 386
FERDINAND I., Aragon and Sicily, IX, b 70; (Spain), XXII, a 336, *b* 338
—— II. of Aragon. See FERDINAND V. Castile
FERDINAND or Fernando I., Castile, the Great, IX, b 70–1; (Alphonso), I, a 541; (Cid), V, a 676; (Portugal), XIX, a 555; (Spain), XXII, *a* 327, a b 330
FERDINAND II., Leon and Castile, IX, a 71; (Alphonso VIII.), I, a 542; (Portugal), XIX, b 556
FERDINAND III., Castile and Leon, Saint, IX, a b 71; (Spain), XXII, a 332, a 333
FERDINAND IV., Castile, IX, b 71; (Portugal), XIX, a 558; (Spain), XXII, b 333–4
FERDINAND V., Castile; III., Naples; II., Aragon, the Catholic, IX, b 71–2; (Alcantara Knights), I, a 406; (Algeria), b 498; (Guicciardini), XI, a 227; (Inquisition), XIII, b 99–101; (Isabella, the Catholic), b 385; (Jimenes), *b* 704; (John II., Aragon), *b* 726, a 727; (Philip I.), XVIII, b 757; (Reformation), XX, *a* 337; (Slavery), XXII, a 146; (Spain), b 336, *a b* 339, a 340–2, b 360
FERDINAND I., Naples, IX, a 69
FERDINAND II., Naples, IX, a b 69
—— III., Naples. See FERDINAND V., Castile
FERDINAND IV., Naples, III. of Sicily, and I. of the Two Sicilies, IX, b 69; (Carbonari), V, a 79; (Cirillo), b 692; (Italy), XIII, a b 496; (Metternich), XVI, a b 209, a 210
FERDINAND I., Portugal, IX, a b 70; (Portugal), XIX, b 558–9; (Spain), XXII, b 335
—— I. of the Two Sicilies. See Ferdinand IV. of Naples
FERDINAND II., Two Sicilies, Bomba, IX, a 70; (Filangieri, C.), b 139; (Italy), XIII, a b 498, a 499
—— III. of Sicily. See FERDINAND IV. of Naples
FERDINAND VI., Spain, IX, b 72–3; (Farinelli), a 32; (Spain), XXII, b 353–4, a 355
FERDINAND VII., Spain, IX, a 73–4; (Alava), I, a b 394; (Bourbon), IV, *a* 158; (Charles IV.), V, *b* 363; (Metternich), XVI, b 209; (Mexico), a 228; (Napoleon I.), XVII, b 219–20; (Newspapers), b 442; (Spain), XXII, b 357, a b 358–9
—— the Constant, prince (Portugal), XIX, a 560
FERDINAND III., grand-duke of Tuscany, IX, a 74; (Austria), III, a 115; (Tuscany), XXIII, b 713. For Ferdinand I. and II. of Tuscany, see Medici, Ferdinand I. and II
—— of Aragon, prince, conspirator, 1348 (Spain), XXII, a 338
FERDINAND of Brunswick, duke, IX, a b 74; (Austria), III, *a* b 112; (France), IX, *a* b 519–20
Ferdinand, duke of Parma, XVIII, b 320
Ferdinand and Isabella (American Literature), I, a 635; (Prescott), XIX, a *b* 722; painting (Rubens), XXI, *a* 51
"Ferdinand Max," ship (War), XXIV, b 386
Fereira, poets. See Ferreira
Ferentina, grove of (Latium), XIV, a 345
FERENTINO, town, IX, b 74
FERENTO, city, IX, b 74
FERGHANA, province, IX, b 74–6; (Persia), XVIII, a 604; statistics (Russia), XXI, b 76; valley (Syr-Daria), XXII, *b* 857, *b* 859
Fergus, Celtic chief of Galloway (Kirkcudbright), XIV, *a* 101
—— Mac Earc, Dalriad king (Scotland), XXI, a 499
—— Mór, leader (Ireland), XIII, b 252
—— River (Clare), V, *a* b 701
FERGUSON, Adam, philosopher, IX, a b 76; (Political Economy), XIX, b 379, b 383; (Stewart), XXII, *b* 574, a 575
FERGUSON, James, astronomer, IX, b 76–7
Fergusonite (Mineralogy), XVI, a 446; (Polarity) (Ill.), XIX, a 325
Fergusson, James, architect, *b.* 1808, *d.* 1886 (Agra), I, b 255–6; (Architecture), II, a b 344, *b* 346, b 347, *b* 348, *a* b 351, a 360, a 392, *b* 400; (Cambodia), IV, b 640, *b* 642; (Gaur), X, *b* 103, a 104; (Hwen T'sang), XII, a 435; (India), *a* b 829 notes, a 830 note, b 851; (Sepulchre, Holy), XXI, a b 703, note, *a* b 704, a 705, note; his *History of Architecture* (Basilica), III, b 361
FERGUSSON, Robert, poet, IX, a 77–8
FERGUSSON, Sir William, surgeon, IX, a b 78; (Hunter), XII, b 402 note
Ferhán, pasha (Mesopotamia), XVI, a 54
Feriæ Latinæ, festival (Jupiter), XIII, a 790
FERID-EDDIN-ATHAR or Farid-uddin 'Attar, poet, IX, a b 78; (Persia), XVIII, a b 671, b 673
FERISHTA, Mohammed Kasim, historian, IX, b 78–9
FERMANAGH, county, IX, a 79–80
FERMAT, Pierre de, mathematician, IX, a b 80; (Algebra), I, b 451; (Descartes), VII, b 103, b 105; (Infinitesimal Calculus), XIII, b 7–9, a 25; (Light), XIV, *b* 602; (Pascal), XVIII, a b 343; (Pell), b 486; least time principle of (Wave Theory), XXIV, a 446; theorem of (Numbers), XVII, b 631–2, a b 639

FERMENTATION, IX, b 80-7
  acetous, a b 86
  butyric, a 86
  causes of, b 80-1
  chemical reaction, a 80, b 84-5
  conditions of, a b 82
  eremacausis, b 86-7
  hypotheses of chemists, a 81-2
  lactic, b 85
  physiological processes, a 85-6
  putrefaction, a 86
  Stahl and Liebig, a 83
  vinous, a 81-4, a b 85
  viscous, b 85-6
  yeast experiments, a 83-4
—— (Alcohol), I, a 416; (Baking), III, a 218-20; (Brewing), IV, b 245-6; (Butter), a b 526; (Cocoa), VI, b 92; (Glycerin), X, a 622; (Malt), XV, a b 341; (Manure), b 517; (Perry), XVIII, a 569; (Sugar), XXII, a 656; in plants (Physiology), XIX, b 57-8; theory (Biology), III, b 599; (Schizomycetes), XXI, b 416, *a* 417, b 424; (Schwann), b 481; in tissue (Surgery), XXII, a b 714; of Tobacco-leaves, XXIII, b 452; vinous, IX, a 81-4; (Wine), XXIV, a 633, a b 634, *a* b 635
—— -process in Dyeing, VII, a b 498
Fermin, Philip, naturalist (Sun-bittern), XXII, b 686
FERMO, city, IX, a 87; state (States of the Church), XXII, b 477
FERMOY, town, IX, a 87
——, *Book of* (Celtic Literature), V, b 265, b 277
Fern, Fanny, pseudonym (Willis), XXIV, a b 901
Fernan Caballero. See FABER, Böhl von
Fernandes, Francisco, physician (Tobacco), XXIII, a 451
FERNANDEZ, Alvaro, explorer, IX, a 87
FERNANDEZ, Diego, historian, IX, a b 87
FERNANDEZ, Joam, traveller, IX, b 87
FERNANDEZ, Juan, discoverer, IX, b 87
FERNANDEZ, Juan, Peruvian adventurer, IX, b 87
Fernandina, town (Florida), IX, b 296, a *b* 297, b 298
Fernando. See FERDINAND
FERNANDO DE NORONHA, islands, IX, b 87-8; (Brazil), IV, b 199
FERNANDO Po or Puerto de Gabel, island, IX, a 88; (Africa), I, a 237, b 243; (Cameroons), IV, a b 656; (Hyrax), XII, a 634
FERNEL, Jean François, physician, IX, a 88; (Earth), VII, a 516
Ferney, village (Voltaire), XXIV, *b* 310, *a* b 311
FERNOW, Karl Ludwig, archæologist, IX, b 88
FERNS, plants (Ill.), IX, b 88-95
  classification, a b 89, a 92
  definitions, b 88-9
FERNS, *continued*
  Equisetinæ (Ill.), b 93-4
  FILICINÆ (Ill.), b 89-93
    branching, b 89-90
    filices, b 89-92
    fronds, b 90-1
    germination (Ill.), a b 92
    habit and growth, b 89
    rhizocarpeæ (Ill.), a b 93
    stem structure (Ill.), a b 90
    stripes, b 90
    stipulatæ, b 92-3
    venation (Ill.), a 91
  history, a 89
  Lycopodinæ (Ill.), a b 94
  references, b 94-5
—— (Botany) (Ill.), IV, b 73, a 74, b 76, a 80, *b* 81, b 83, b 85, a b 87, a b 94-5; (Histology), XII, b 14, a b 19; (Horticulture), a 277-8; (Madeira), XV, b 181; (Muscineæ), XVII, b 72, a 81; (Queensland), XX, b 180; (Reproduction), a b 436, a *b* 444; (Tree-Fern), XXIII, a b 568; (Vegetable Kingdom), XXIV, a b 141; (Vermont), b 181; flower in (Botany) (Ill.), IV, a 127, a 128; fructification of (Botany) (Ill.), a *b* 145-6; greenhouse (Horticulture), XII, a b 277-8; growth of (Physiology), XIX, *b* 65; leaf of (Botany), IV, *b* 103, *a* 106; propagation of (Horticulture), XII, a 241
Feroe Islands. See Faroe
Ferozepore. See FIROZPUR
Ferozeshahr. See Firoz-Shahr
FERRAND, Antoine François Claude, count of Flanders, IX, a 95; (France), a b 478; (Paris), XVIII, a 294
Ferrandus, Fulgentius, deacon (Canon Law), V, b 16
FERRARA, city, IX, a b 95; (Pius IX.), XIX, a 167; (Schools of Painting), XXI, b 455, a 463, a 465, b 467
——, council of. See Council of Florence
——, court of (Tasso), XXIII, b 82, a b 83
——, duchy of (Popedom), XIX, b 519, b 520; state (States of the Church), XXII, b 477, a 478
——, University of, XXIII, a 893
——, Alphonso I., duke of (Ariosto), II, *b* 442
——, Alphonso II, duke of (Guarini), XI, a b 210
——, Francesco (Political Economy), XIX, b 400
—— blades (Sword), XXII, a 842
Ferrarese school of painting (Tisio), XXIII, *a* 437
FERRARI GAUDENZIO, painter, IX, b 95-6; (Schools of Painting), XXI, a 463; (Vercelli), XXIV, b 177
——, Lewis (Algebra), I, a b 453
Ferrarius, monk (Gunpowder), XI, b 282
Ferrars, de, arms of (Heraldry), XI, b 609
Ferrates (Iron), XIII, a b 286
FERREIRA, Antonio, poet, IX, a 96; (Portugal), XIX, b 571
——, de Vasconcellos, Jorge, playwright (Portugal), XIX, b 571, a 572
Ferreira's license of the *Lusiad* (Camoens), IV, b 661
Ferrel, William, hydrographer (Tides), XXIII, a 383
Ferreria, Vincentia, nun (Stigmatization), XXII, b 577
Ferrers, Sir Henry, baronet (Knighthood), XIV, b 122 note
——, Norman McLeod, mathematician (Hydromechanics), XII, b 471
FERRET, IX, a b 96; (Polecat), XIX, a 344
Ferreus, Scipio, mathematician. See Ferro, Scipione del
Ferrex and Porrex, play (Dorset, Earl of), VII, a 323
FERRI, Ciro, painter, IX, b 96
Ferric chloride (Magnetism), XV, *a b* 269, *a* b 270; oxalate (Oxalic Acid), XVIII, b 95; oxide (Furnace), IX, a 742; reaction (Blowpipe), III, b 728-9; reduction of (Iron), XIII, b 347
Ferricum (Prussic Acid), XX, b 28-9
Ferricyanides (Prussic Acid), XX, *a* 29
Ferrier, David, physician (Physiology), XIX, a *b* 47, *a* 48, b 50
FERRIER, James Frederick, metaphysician, IX, b 96-7; (Psychology), XX, b 49 note
FERRIER, Susan Edmonston, novelist, IX, b 97-8
——, general (Afghânistân), I, a *b* 207, b 212, a b 216, *a* b 217, *a* b 218, a 219; (Ghúr), X, a *b* 509, a 510; (Herat), XI, b 637, *a* 638
Ferrie's furnace (Iron) (Ill.), XIII, b 307, a 308, a 322
Ferro or Hierro, islands (Canary Islands), IV, b 706; (Map), XV, b 528; (Time), XXIII, a 421
Ferro, Scipione del, mathematician (Algebra), I, b 452-3, a 483; (Tartaglia), XXIII, a 74
Ferrocyanides (Chemistry), V, a b 481; (Prussic Acid), XX, a b 29
FERROL, town, IX, a b 98; (Spain), XXII, a 307; battle of, 1805 (Calder), IV, a b 585
Ferrolito, castle (Nicastro), XVII, b 493
Ferro-manganese (Iron), XIII, a 358; manufacture (Iron), b 359-61
Ferrosum (Prussic Acid), XX, b 28 note
Ferrotitanite (Mineralogy), XVI, b 444
Ferrous carbonates (Iron), XIII, a 292, b 293; citrate (Photography), XVIII, b 839; oxalate (Oxalic Acid), b 95; (Photography), b 839, b 841; salts, analysis (Iron), XIII, a 295; sulphate (Photography), XVIII, b 838
Ferru, Monte (Sardinia), XXI, b 322, a 323
Ferruginous springs (Geology), X, b 240
Ferrum redactum (Iron), XIII, b 291; (Iron, Therapeutics of), b 370
FERRY, IX, b 98; (New York), XVII, b 477-8
——, Jules François Camille, statesman (Pamphlet), XVIII, a 210
——, Nicholas (Dwarf), VII, a 490
Ferrybank, town (Waterford), XXIV, a b 423
FERSEN, Axel, count, marshal, IX, b 98
Ferté Macé, La, town (Orne), XVIII, b 5, b 6
Fertility (Hybridisur), XII, a 438, a b 439, a 440-1
Fertilization (Reproduction), XX, a 438-43; of plants (Botany), IV, a 72, b 121, a 122, a b 126, b 133-4, a b 144; (Horticulture), XII, b 219-20; (Insects), XIII, b 148-9; cross (Orchids), XVII, b 840-1; phanerogamic (Vegetable Kingdom), XXIV, a b 142. See Fecundation.
—— of soil (Agriculture), I, a 305-14; (Manure), XV, a 513-9; with gypsum (Lime), XIV, b 654; for turnips (Brewing), IV, b 240
Fertilizers (Agriculture), I, a 305-14; (Phosphorus), XVIII, a b 832. See MANURE
Fertö lake (Hungary), XII, b 376
Ferula, plants (Horticulture), XII, b 258
FESCA, Frederic Ernest, composer, IX, b 98-9
Fescennine verses (Drama), VII, a 354; (Satire), XXI, b 333
FESCH, Joseph, cardinal, IX, a 99
Fess, the (Heraldry) (Ill.), XI, b 618
Fessel, Friederich, mechanician (Plücker), XIX, b 241; his Gyroscope (Ill.), XI, b 314
FESSLER, Ignaz Aurelius, bishop and historian, IX, a b 99; (Vatican Council), XXIV, b 123
Feste de Pui (Guild), XI, b 231, note
Festiniog, town and valley (Merioneth), XVI, *b* 43, a 44
Festival fund, Athens (Demosthenes), VII, b 60, a 62
FESTIVALS, IX, b 99-103
  Buddhists, b 103
  Christians, earlier, b 101-2
    later, b 102-3
  Greeks, b 100-1
  Hindus, b 103
  Jews, b 101
  Mahommedans, a 103
  reformations of, a 103
  Romans, a b 101
  savage tribes, b 99-100

Festivals (Abyssinia), I, b 63; (Egypt), VII, a b 630; (Lhasa), XIV, b 500-1; (Limoges), b 658; (Lotteries), XV, b 12; (Madagascar), a 174; (Mahrattas), b 292; (Mandæans), b 477; (Mecca), a b 681; (New Year's Day), XVII, a b 462; (Parsis), XVIII, b 332; (Siam), XXI, b 893; (Siena), XXII, b 43; (Tarascon), XXIII, b 66. See Fête
——, Aztec (Mexico), XVI, a–b 220, a 221
—— children's (Naumburg), XVII, b 255
——, church (Annunciation), II, a 80; (April), a 187; (Candlemas), IV, a 710; (Christmas), V, b 611; (Easter), VII, a 531-2; (February), IX, a b 54; (Honorius I.), XII, b 146; (Immaculate Conception), b 754; (January), XIII, a 578; (July), a 782; (June), a 783; (Mary), XV, b 598-9; (May), b 654; (New Year's Day), XVII, b 462; (November), a 621; (October), a 743; (Trinity Sunday), XXIII, b 611; (Whit-Sunday), XXIV, b 586; abolition of (Presbyterianism), XIX, b 707
——, Greek (Apollo), II, a 163; (Athena), b 727; (Ceres), V, a 300; (Delos), VII, a b 46; (Dionysia), b 215; (Dionysus), b 216, a 217; (Drama), a b 349, a 353; (Eleusinia), VIII, b 119-20; (Homer), XII, a 113-4; (Horse), a 203; (Hyacinthus), a 436; (Isthmian Games), XIII, b 442; (Messene), XVI, b 57; (Olympia), XVII, b 787–8; (Panathenæa), XVIII, b 213-4; (Theseus), XXIII, a b 315, note, a 316; (Thesmophoria), a 316–7
——, Hebrew (Israel), XIII, b 419; (Passover), XVIII, a 348-9; (Pentateuch), b 521–2; (Pentecost), a 525; (Sabbath), XXI, *b* 133, *a* b 134–5; (Tabernacles, Feast of), XXIII, a b 10
——, Hindu (Drama), VII, a 343
——, Japanese (Pilgrimage), XIX, a 101
——, Roman (Ambarvalia), I, b 577; (April), II, a 187; (Circus), V, a 692; (Jupiter), XIII, a b 790; (Liber), XIV, a 507; (Mercury), XVI, a 36; (New Year's Day), XVII, a b 462; (Pales), XVIII, b 174; (Prætor), XIX, a 676; (Secular Games), XXI, a 649; (Vulcan), XXIV, a 322
Festive Crowns, VI, a 547
Festuceæ, family (Grasses), XI, b 50, a 53
Festus, Porcius, governor (Paul), XVIII, b 433
FESTUS, Sextus Pompeius, grammarian, IX, b 103; (Gloss), X, a 612; (Roman Law), XX, a 693, b 697, *a* b 700, a 707, b 708 note, a713; (Tody), XXIII, a 460 note
Fetbol, mineral (Mineralogy), XVI, b 443
Fête de la Liberté (Tallien), XXIII, b 37; d'Ostension (Limoges), XIV, b 658
Feth Ali Sháh (Ispahan), XIII, b 406
Fetiches (Totemism), XXIII, b 496; (Magic), XV, b 201; Zuni (Pueblo Indians), XX, b 889, a 890
FETICHISM, IX, b 103–4; (Angola), II, b 41; (Arabia), a 218; (Congo), VI, a 237; (Ethnography), VIII, b 547; (Laos), XIV, a 295; (Madagascar), XV, a 174; (Religions), XX, b 379, a 380; rise of (Animism), II, a 51
FÉTIS, François Joseph, writer on music, IX, b 104; (Deprés), VII, *b* 88; (Piccini), XIX, a 88
Fetkoopers, people (Frisians), IX, a b 692
Fetlar island (Orkney), XVII, b 870, a 871
Fetlock (Horse), XII, b 181
Fetter lane society (Methodism), XVI, a 194
Fettling, Crampton's furnace (Iron), XIII, a b 332
Fettmilch insurrection (Frankfort), IX, b 623
Fetwa, judgment (Sunnites), XXII, b 696
FEU, Scotch legal term, IX, b 104–5; duty (Rent), XX, b 415; tenure (Scotland), XXI, b 516
FEUCHTERSLEBEN, Eduard von, physician, IX, a 105
Feudal Armies, II, b 493–4, a 498; coins (Numismatics), XVII, b 672
FEUDALISM, polity, IX, a 105–8
  benefices and commendation, b 106–7
  comitatus and vassalage, a 106
  definition of, a b 105
  English land-laws, b 107–8
  French royalty, growth of, b 107
  primitive German form, b 105–8
  territorial organization, a 106-7
  William the Conqueror, a b 106
—— (Commerce), VI, a 179; (England), VIII, a 266, a 267, b 272–3, a b 276; (Finance), IX, a 153-5; (France), b 467–8, a b 470, a 472–98; (Genealogy), X, a 129; (Germany), b 430–1, b 432, a 435; (Government), XI, a b 12; (Herzegovina), b 693; (Holland), XII, b 73-5, a 76; (Homage), a 110; (Italy), XIII, b 478, a 479–80, b 481; (Japan), XIII, b 592–3; (Knighthood), XIV, a 113, a 114–7, a 127; (Malta), XV, a b 345; (Scotland), XXI, b 503–8, a 513
——, Akbar's (India), XII, a 834; Castilian (Spain), XXII, a 333; Chinese (Confucius), VI, a 240; (Mencius), XVI, b 7; decay of (Germany), X, a 446; effects of (Political Economy), XIX, b 364, a 366
——, English (Land), XIV, *b* 264; (Real Estate), XX, b 317-8; (Warwick), XXIV, a 403; (William I.), a 608
——, Germany (Land), XIV, b 262; overthrow of (Portugal), XIX, b 560; rise of (France), IX, b 467–8; (Rome), XX, a b 807
Feudal law (Craig), VI, b 480; (Felony), IX, b 60; lords (Municipalities), XVII, *a* 35, b 36
—— service, commutation of (Finance), IX, a b 154
—— succession (Primogeniture), XIX, a 756–7
FEUDAL SYSTEM, IX, a 105-8; (Feu), b 104
—— tenure (New York), XVII, a 468; (Seignory), XXI, b 654; (Seisin), b 657
—— wars (Italy), XIII, b 484
Feudalists, party (Germany), X, b 456–7
FEUERBACH, Ludwig Andreas, philosopher, IX, a b 108, a b 408; (Hegel), XI, b 552, b 554; (Theism), XXIII, b 264
——, Paul Johann Anselm von, jurist, IX, b 108–9; (Hauser), XI, *a* 467
Feuerthalen, village (Schaffhausen), XXI, b 403
Feuillants, monks (Cistercians), V, a 693
—— club (France), IX, a b 530
Feuillet, Octave, novelist (France), IX, a 597
FEUILLETON, IX, b 109; (France), *a* 597
FEVER, IX, b 109–11; (Pathology), XVIII, b 402–5, a 413–4; (Dietetics), VII, a 179; (Malaria), XV, a 413–4
——, cerebro-spinal (Meningitis), XVI, *a b* 15
——, malarial or climatic (Pathology), XVIII, b 403–5, b 407; (Cochin China), VI, b 86–7; (Rome), XX, a b 825, b 859; (Senaar), XXI, b 689
——, relapsing (Typhus), XXIII, a b 723; rheumatic (Pathology), XVIII, b 406–7; (Rheumatism), XX, b 530-1
——, Scarlet, XXI, a 393–5; thermic (Pathology), XVIII, a b 403; Typhus, XXIII, a 718–20; Typhoid, b 720–3; Yellow, XXIV, b 770–3
—— Thermometer, XXIII, b 313
Feversham, See Faversham
Fewkes, J. Walter, naturalist (Trematoda), XXIII, *a* 575
FEYDEAU, Ernest-Aimé, author, IX, a 111; (France), a 597
Feyjóo, Benito, essayist (Periodicals), XVIII, a 554; (Spain), XXII, b 374
Feyran, wadi (Arabia), II, b 205
Feysul, sultan (Arabia), II, *a* 229
FEZ, city, IX, a 111–12; (Mosque), XVI, b 891, a 892
——, head-dress, IX, b 111–2; (Egypt), VII, b 627
Fezara, lake (Algeria), I, b 496
FEZZAN, country, IX, a 112–14
  climate, b 112
  history, a b 114
  people, a b 113
  political organization, b 113-14
  physical features, a b 112
  products, a 113
  travellers, b 114
Ffoulkes, Edmund Salusbury, theologian (Creeds), VI, b 497; (Greek Church), XI, *b* 139
Fiacre, coach, IX, b 114; (Carriage), V, b 119
FIACRE, ST., hermit, IX, b 114
Fiammetta, beauty (Boccaccio), III, b 732, *a b* 733
Fiamingo, Il, or François Duquesnoy, sculptor (Sculpture), XXI, b 589
Fianàrantsòa, town (Madagascar), XV, a 176
Fiann or Fenians (Ireland), XIII, a 251
FIARS PRICES, legal, IX, b 114–5
Fiat Lux (Owen, John), XVIII, b 89
Fiber zibethicus, genus of rodents (Mammalia) (Ill.), XV, a 423, a 424; (Musk-Rat), XVII, b 115
Fibonacci, Leonardo, mathematician. See PISANUS
Fibres, cerebric (Physiology), XIX, b 45–6; connective tissue (Histology), XII, b 8, a b 9; entoplastic (Protozoa), XIX, b 856; muscular tissue (Histology), XII, a 10–11; (Nutrition), XVII, *b* 687–8; nerve (Anatomy), I, a 754–5; (Histology), XII, b 11–2; of Remak (Physiology), XIX, a 27
FIBRES, textile (Ill.), IX, a 115–7; Table of, b 116; (Algeria), I, a b 498; (Alpaca), a 526; (Botany) (Ill.), IV, a b 75; (Cotton), VI, a 429; (Flax), IX, a 257, a b 258; (Hemp), XI, b 578; (Hops), XII, b 160; (Jute), XIII, b 807–9; (Manilla Hemp), XV, b 495-6; (Nettle), XVII, b 369; (Palm), XVIII, a 194; (Paraguay), b 248; (Phormium), b 825-6; (Pine), XIX, b 112; (Plantain), b 187; (Rhea), XX, b 520–1; (Rope), a 866; (Wool), XXIV, a b 689
Fibrillæ, muscular (Anatomy), I, a 753
Fibrillation in incised wounds (Surgery), XXII, a 717; in scars (Pathology), XVIII, a 372
Fibrils, dentinal (Digestive Organs), VII, a 203
FIBRIN, IX, b 117; (Chemistry), V, b 502; (Respiration), XX, b 496, a b 497
Fibro-cartilage (Anatomy) (Ill.), I, b 748
Fibro-cellular tumor (Pathology) (Ill), XVIII, a 374

Fibroferrite (Mineralogy), XVI, b 418
Fibroid tumors (Surgery), XXII, b 726, b 922
Fibroin (Silk), XXII, *a* 67
Fibrolite, mineral (Jade), XIII, b 550; (Mineralogy), XVI, a 426
Fibroma, tumor (Pathology) (Ill.), XVIII, b 373–4
Fibrous bodies (Magnetism), XV, b 268
—— tissue (Anatomy) (Ill.), I, a b 746
Fibro-vascular bundles (Botany) (Ill.), IV, a 82, a b 83, a 88, a 89, b 90, a *b* 92–3, a b 94, a b 95; system (Histology), XII, a 19, b 20–1
Fibula, bone (Anatomy) (Ill.), I, b 727; (Ape), II, b 142–3; (Birds), III, b 626; (Horse), XII, b 181; (Mammalia), XV, a 363; (Skeleton), XXII, a 126
Fibulæ, clasps (Niello), XVII, b 507, *a* 508
FICHTE, Johann Gottlieb, philosopher, IX, b 117–21
  Berlin and Erlangen work, b 119
  Critique of Revelation, origin of, a b 118
  Jena professorship, b 118–9
  Leipsic period, a 118
  political productions, b 118
  war times and death, b 119–20
  Wissenschaftlehre, a 120–1
    Kantian origin of, a b 120
    knowledge, theory of, a 121
    principle and method of, b 120–1
  works by, a b 121
  youth and training of, b 117–8
—— (Age), I, a 249; (Category), V, *a* 196; (Ethics), VIII, *b* 536 note; (Freemasonry), IX, a 660; (Germany), X, b 452, a b 484, b 485; (Hegel), XI, *a* 552; (Jacobi), XIII, a 547; (Kant), a 861, a 862; (Logic), XIV, b 805; (Lotze), XV, a 14, a 15, b 16; (Metaphysic), XVI, b 92–3, b 104, a b 107; (Oken), XVII, b 771; (Rationalism), XX, a b 302, a 303; (Schelling), XXI, b 406, *a* b 407, *a* 408; (Schopenhauer), b 470, *a* 478
—— philosophy (Schelling), XXI, a 409
Fichtelberg, mountain (Erzgebirge), VIII, b 471; (Saxony), XXI, b 372
FICHTELGEBIRGE, mountains, IX, b 121; (Bavaria), III, b 389; (Germany), X, a 403
Fichtelite (Mineralogy), XVI, b 447
FICINO, Marsilio, or Ficinus, Marsilius, scholar, IX, b 121–3; (Academy), I, a 68; (Plato), XIX, a 223
Fick, August, philologist (Greece), XI, *b* 115
Fick's kymograph (Vascular System), XXIV, b 116
Fictile Ivory, XIII, a 534
Fiction, American, I, a 636–8; (Cooper, J. F.), VI, b 299–300
——, Danish (Denmark), VII, b 81–2; (Gyllembourg-Ehrensvärd), XI, a b 310; (Hauch), a 465
——, Dutch (Heinsius, N.), XI, b 561; (Holland), XII, b 100; (Lennep, J. van), XIV, a 446
——, English (Austen), III, b 88–9; (Defoe), VII, b 26, a 27, b 28; (Dickens), a 151–4; (Edgeworth), a 567–8; (English Literature), VIII, b 375–6, b 383–4; (Fielding), IX, a 127–9; (Gore), X, a 697; (Hook, T.), XII, b 152; (Inchbald), a 761; (James, G. P. R.), XIII, a 571; (Kingsley), XIV, a 90–1; (Kingston, W. H. G.), a 92; (Norton), XVII, b 588; (Reade), XX, b 315–6; (Richardson), b 558–9; (Scott), XXI, a 574–6; (Smollett), XXII, a 194–5; (Trollope), XXIII, b 622–3; early (Romance), XX, b 676–7
——, French, IX, a 574–5, b 579, b 585–6, b 595–7; (Dudevant), VII, a 439–41; (Dumas), b 450–1; (Gozlan), XI, a b 22; (Le Sage), XIV, b 473–4; (Riccoboni), XX, a 553; (Sandeau), XXI, a 270; (Scudéry), b 581–2; (Sue), XXII, b 651; 17th century (Romance), XX, a b 676
——, Gaelic, X, b 11
——, German, X, b 475, b 480, a 484, b 487; (Hauff), XI, b 465; 17th century (Romance), XX, a 677
——, Irish (Griffin), XI, b 174; (Lever), XIV, b 485–6
——, Italian (Guerrazzi), XI, a 220; (Italy), XIII, a 515, b 520
——, Japanese, XIII, a 598
——, Norwegian, XVII, *b* 605, a 606
——, Persian, XVIII, a 670
——, Russian (Gogol), X, b 657; (Russia), XXI, b 115–6; (Tourguenieff), XXIII, a b 519
——. See Novels and Romance
FICTIONS, legal, IX, a b 123; (Ejectment), VII, a 687
Fictitious epistles, Greek (Romance), XX, a 652
Ficus, plant (Botany), IV, b 78, a 79, a 100, b 102; (Fig), IX, a 135; (India-Rubber), XII, b 876, *a b* 880
Fidanza or Fidenza, John of (Bonaventura), IV, b 27–8; (Scholasticism), XXI, a 445
Fiddle (Violin), XXIV, b 260
Fiddlers' muscles (Anatomy), I, a 737
"Fiddling" (Micrometer), XVI, a 253, b 256
Fidei commissum, trust (Entail), VIII, b 401, b 403–4; (Roman Law), XX, b 725–6, a 728; (Trust), XXIII, a 633
Fidelio, opera (Beethoven), III, *b* 437; (Horn, French), XII, a 172; (Music), XVII, a 106
Fidelity guarantee (Insurance), XIII, a 168
FIDENÆ, city, IX, b 123–4; (Amphitheatre), I, b 680
Fidentia, town (Borgo San Donnino), IV, b 48
Fidenza, John of. See BONAVENTURA
Fidicula, musical instrument (Violin), XXIV, b 260
Fiducia in jus civile (Roman Law), XX, a b 708
Fiefs (Allodium), I, b 516; (Primogeniture), XIX, a 756; French (Women), XXIV, a 673, note. See FEUDALISM, LAND and Tenure
Field (Electricity), VIII, a 23
—— (Magnetism), XV, a 223–4, notes, a 228, a 229, a 231, b 245, a 246–9, a b 254, b 263
—— (Microscope), XVI, a 280
Field, newspaper (Zoology), XXIV, a 856, note
——, J., divine (Chrysostom), V, b 661
FIELD, John, musician, IX, a 124; (Clementi), V, a 720
FIELD, Nathan, dramatist, IX, a b 124; (Drama), VII, a b 374
—— artillery (Battery), III, a 383. See Field-Guns
—— of Cloth of Gold (Ardres), II, b 423; (Costume), VI, a 418
—— of coin (Numismatics), XVII, b 645
—— of the Dog (Poland), XIX, a 299
—— of Falsehood (Hincmar), XI, b 746
—— of Lies (Louis I.), XV, a 18
—— of May, assembly (Napoleon I.), XVII, *a* 230
—— of points (Geometry), X, b 347
—— equipment of British engineers (Army), II, b 507
—— -glass (Microscope), XVI, b 271
—— guns (Gunnery) (Ill.), XI, a b 273, 275, a 277, b 279–80; carriages (Gunnery), b 277–8
—— instruments (Surveying), XXII, a 754
—— Marshal, XV, a 581
—— -mouse, XVII, *b* 11
—— of woodcocks, battle, 1380 (Russia), XXI, *b* 99
—— rangefinders (Telemeter) (Ill.), XXIII, a 136–7
—— tubes (Steam-Engine) (Ill.), XXII, b 520, a 521
—— -works (Fortification), IX, a 379–88
Fielden, John, manufacturer (Todmorden), XXIII, b 459
FIELDFARE, bird, IX, b 124–5
FIELDING, Anthony Vandyke Copley, painter, IX, a 125
FIELDING, Henry, novelist, IX, a 125–9
  burlesque writing, a 126
  dramatic career, b 125–7
  extraction and youth, a b 125
  magistracy of, a 128
  novels, a b 127, a b 128
  personal anecdotes, b 126, a b 127, b 128
  periodical literature, b 126, a b 128–9
—— (Drama), VII, a b 378; (English Literature), VIII, b 382, a b 383; (Johnson, S.), XIII, b 731–2; (Le Sage), XIV, b 473; (Lisbon), a 698; (Pantomime), XVIII, a 220; (Police), XIX, a 352; (Poor Laws), a b 484; (Smollett), XXII, a 194; (Theatre), XXIII, a 246, b 247
——, Sarah (Fielding, H.), IX, b 127
Fielding's rotary engine (Steam-Engine), XXII, b 542
Field's siphon flush tank (Sewerage) (Ill.), XXI, a b 749
Fierabras, poem (Romance), XX, *b* 666, a b 667
Fierasferina, fishes (Ichthyology), XII, b 730
FIERI FACIAS, IX, a 129; (Writ), XXIV, b 731
Fierte of St. Romain (Rouen), XXI, a 18
Fiery-face, surname of James II. (Scotland), XXI, b 515
FIESCHI, Joseph Marie, conspirator, IX, a b 129
——, counts (Lavagna), XIV, b 351
——, Sinibaldo de. See INNOCENT IV., pope
FIESCO, Giovanni Luigi, conspirator, X, b 129
Fiesco, play (Schiller), XXI, *a* 413
FIESOLE, city, IX, b 129–30
FIESOLE, Fra Giovanni Angelico da, painter, IX, a 130–1; (Florence), a 292; (Fresco), *b* 678; (Harp), XI, a 438; (Monachism), XVI, b 736; (Schools of Painting), XXI, b 452, a 462, *a b* 467; (Trumpet), XXIII, a 630
——, Mino da, painter (Mino di Giovanni), XVI, b 500; (Sculpture), XXI, *b* 595
Fievée, Joseph, journalist (Newspapers), XVII, b 436; (Periodicals), XVIII, b 550, note
Fife (Flute), IX, a 307
FIFE, county, IX, a 131–4
  agriculture, a 132–3
  climate, a 132
  geology, b 131–2
  history, b 133–4
  manufactures and traffic, a b 133
  physical features, a b 131
  political features, b 133
  structures, existing, a b 134
  works, b 134
—— (Coal), VI, *b* 50, b 51; statistics (Scotland), XXI, a 551
——, Robert Stuart, earl of, 1st duke of Albany (Scotland), XXI, *b* 512, *a b* 513–4
Fifteenth century, events in (Chronology), V, a 636–8
—— stop (Organ), XVII, b 855, b 856, a b 857
Fifth avenue (New York), XVII, a 471
—— century, events in, B.C. (Chronology), V, b 625–6; A.D. (Chronology), a 629
FIFTH MONARCHY MEN, sect, IX, b 134–5

Fifty Decisions (Justinian I.), XIII, b 802, a 803; (Roman Law), XX, b 731, a 732, a 734
FIG, tree and fruit, IX, a 135-6; (Botany) (Ill.), IV, b 78, a 106, b 108, a 109, a 111, a 135, *a* 137, a 139; (Greece), XI, b 79; (Horticulture), XII, b 280-1; (Hymenoptera), b 606, a 611
—— tree, withered (Gospels), X, a 708, a 714
FIGARO, dramatic character, IX, a 136
Figaro, journal (Figaro), IX, a 136; (Newspapers), XVII, a b 438
——, *Le Nozze di*, opera (Mozart), XVII, a 17; (Music), b 101, a b 106
——, *Mariage de*, comedy (Beaumarchais), III, b 404
——, pseudonym of José de Larra (Spain), XXII, b 375
Figberry Ring (Wilts), XXIV, b 626
FIGEAC, town, IX, a 136
Figgate whins (Agriculture), I, b 332-3
Fighting Dogs Getting Wind, painting (Landseer), XIV, a 281
Fighting Téméraire, painting (Schools of Painting) (Ill.), XXI, b 461; (Turner), XXIII, a b 709
FIGUERAS, town, IX, a b 136
Figueiredo, Jorge de (Brazil), IV, b 205
Figurate numbers (Tables), XXIII, a 18
Figure-of-Eight knot (Seamanship) (Ill.), XXI, a 618; movement (Flight), IX, a b 272, b 273
—— painting (Dürer), VII, b 480, b 482
——, Spinoza on (Cartesianism), V, a 136
——, deformable, kinematics of (Mechanics), XV, b 700-5
——, of the Earth, VII, a 516-26; (Geodesy), X, a b 154
——, rigid, kinematics of (Mechanics), XV, b 697-700
Figures, numerical (Numerals), XVII, b 639-42
——, plane, (Geometry), X, a 335-42; not plane (Geometry), b 373-4; parallel projections of (Mechanics), XV, a 760; projective elements of (Geometry), X, b 346, b 347, a 348; reciprocal (Geometry), a 353-4
Figure stone (Mineralogy), XVI, a 443
—— weaving (Weaving), XXIV, a b 491
Figuring lenses for aberration (Telescope), XXIII, b 152-3
Fihrist or *Kitab-al-Fihrist* (Geber), X, b 112; (Manichæism), XV, b 489, *a* 490, b 491, a 492, b 493; (Nadim), XVII, b 167; (Tabarí), XXIII, b 6, a 7; (Thousand and One Nights), a b 337
FIJI ISLANDS (Sketch), IX, b 136-9
    bibliography, a 139
    enumeration of, a 137

FIJI ISLANDS, *continued*
    history, a 139
    institutions and manners, a b 138
    people, b 138, b 139
    physical character, b 136-7
    productions, a b 137
—— (Friendly Islands), IX, *b* 684; (Measles), XV, b 664; (Missions), XVI, b 539; (Polynesia), XIX, *b* 436, a 437; (Taboo), XXIII, a 21
—— carpenters (Caste), V, a 163
—— Dictionaries, VII, b 167
Fijians, people (Annelida), II, a 64; (Cannibalism), IV, b 713; (Dance), VI, b 703, a 704; (Funeral Rites), IX, a 725
Filament (Botany) (Ill.), IV, a b 114, b 122, a 123
——, fluid (Hydromechanics), XII, a 481
FILANGIERI, Carlo, general, IX, b 139
——, Gaetano, publicist, IX, b 139-40; (Political Economy), XIX, a 376
Filaria, worm (Nematoidea), XVII, a b 334; (Parasitism), XVIII, a 264, a b 275; (Veterinary Science), XXIV, a 223
Filature or reeling (Silk) (Ill.), XXII, b 67-8
Filbert, tree (Hazel), XI, a 490; (Horticulture), XII, b 282; charcoal (Gunpowder), XI, b 285
FILE, IX, a 140-1; cutting (Hammer), XI, a 380; (Sandblast), XXI, b 269
FILE-FISH (Ill.), IX, a b 141; (Ichthyology), XII, b 733
FILELFO, Francesco, scholar, IX, b 141-2
Filey, town (York), XXIV, b 784, *b* 785, a 786
Filfla, island (Malta), XV, a 342
Fili or bard (Ireland), XIII, a b 262, a 263
——, Gradh, order (Celtic Literature), V, *a* b 263, a 268, b 270, *a* 272
Filial piety (China), V, b 581-2
Filiberto, Emmanuele, duke of Savoy (Italy), XIII, a b 493
FILIBUSTER, IX, b 142; (Fillmore), b 145; (United States), XXIII, b 819
FILICAIA, Vincenzo da, poet, IX, b 142-3
Filicales (Biology), III, a b 601
Filices or Ferns, IX, a b 89-92
Filicinæ, class of plants (Ferns), IX, a b 89-93; (Vegetable Kingdom), XXIV, a *b* 141
Filicudi, island (Lipari Islands), XIV, a 689
Filid, bards (Ireland), XIII, a b 256. See Fili
Filidecht, art (Celtic Literature), V, a 263, a b 264, b 266, b 268; orders of (Ireland), XIII, a 255, a 256, a 264
FILIGREE, IX, a 143-4; (Jewellery), XIII, b 687
Filinto Elysio, pseudonym (Portugal), XIX, a 573

Filioque in the Nicene Creed (Creeds), VI, b 496; (Greek Church), XI, *b* 139
Filipowski's *Antilogarithms* (Tables), XXIII, a b 17
Filippino Lippi, painter. See LIPPI
Filippo (Alfieri), I, b 443, a *b* 444
Filippo Lippi, Fra, painter. See LIPPI
Filistin, province (Syria), XXII, a 862
Filiutius, Jesuit (Casuistry), V, a 178
FILLAN, SAINT, IX, b 144
Fille du Régiment, opera (Donizetti), VII, *a* 315
Fille Fjeld, ridge (Norway), XVII, a b 589
Filles à la cassette, emigrants (New Orleans), XVII, a 414
Fillet (Architecture), II, b 407; of gyrus fornicatus (Anatomy), I, a 772
Fillets of metal (Mint), XVI, b 510-11
Filling teeth (Dentistry), VII, a 86-7
FILLMORE, Millard, president, IX, b 144-5; (Mormons), XVI, b 853; (United States), XXIII, a 820; (Whig Party), XXIV, *a* 895
Fillowite (Mineralogy) XVI, b 421
Filmans, tribe (Lapland), XIV, a 306
FILMER, Sir Robert, writer, IX, b 145-6; (Government), XI, a b 10
Films, liquid (Capillary Action), V, *b* 52, b 53-6, b 59-60
——, sensitive (Photography), XVIII, b 836-42
Filocopo, story (Boccaccio), III, a 733
Filodema, comedy (Camoens), IV, b 660
Filosa (Protozoa), XIX, a 860
Filosofia della Statistica (Gioja), X, b 541
Filostrato, poem (Boccaccio), III, b 733, a 734 note; (Italy), XIII, b 514
Filter beds, piscinæ (Aqueduct), II, b 192; (Water-Supply), XXIV, b 450
—— press (Paraffin), XVIII, b 246-7
FILTERS (Ill.), IX, a 146-50
    air purification, b 149
    authorities, a 150
    Bischof's type (Ill.), b 148-9
    charcoal agency (Ill.), a 147-8
    chemical forms, b 149
    cisterns, a 149
    early forms, b 146
    function of, a b 146
    magnetic carbide form, a b 148
    modern house forms, b 146-8
    municipal water-works, a b 149
    spring water, a 146
—— (Hygiene), XII, b 602
Filtrate (Filter), IX, b 149
Filtration (Filter), IX, a 146; (Sewerage), XXI, a 747
Filyas, river (Bithynia), III, a 689
Fimbria, Caius Flavius, consul (Rome), XX, b 779, note; (Sulla), XXII, a 666

Fin of fish. See Fins
—— rays (Ichthyology) (Ill.), XII, b 673, a 674
Finachta, king (Ireland), XIII, a 251, b 256
FINALE DELL'EMILIA, town, IX, a 150
Finals in music (Plain Song), XIX, b 179
FINANCE, IX, a 150-67
    authorities, a 167
    ENGLISH HISTORY, a 153-67
        American colonial influence, a b 162
        Bank of England, b 159-60
        benevolences, b 155-6
        bills of credit, exchequer, b 159
        custom-duties, rise of, a b 157
        debt, rise of national, b 157, a b 158, a 160, b 161-2, b 163
        depreciation of currency, b 156
        direct taxes, mediæval, b 154-5
        evasion of taxes, a b 163
        exchequer, rise of the, a b 153
        excise begun, b 157
        income tax, b 163, a b 164
        interest reductions, a 160, b 161
        land taxation, b 158-9
        local revenues, a 167
        lotteries, State, a 159
        military service commuted, b 153-4
        modern principles of, a 166-7
        monopolies, rise of, b 156-7
        parliamentary representation, rise of, b 154
        Peel's reforms, a 165-6
        Pitt's system, b 163-4
        purveyance, b 155
        revision of fiscal system, b 164-6
        Revolution, settlement at the, a b 158
        Seven-years' War, b 161-2
        singular taxes, b 159
        sources of revenue, b 166-7
        South Sea bubble, a b 161
        succession duties, a 163
        tonnage and poundage, a b 156
        Walpole's system, a b 161
    Greek methods, b 150-1
    meaning of term, a 150
    primitive systems, a b 150
    Roman revenues, a b 152
—— (Egypt), VII, a b 682; (Germany), X, b 417-9; (Japan), XIII, a b 589-90; (Municipality), XVII, a 34, b 36; (Ricardo), XX, a b 548, a b 549, a b 550

Finance, English (Army), II, b 502; (Horner), XII, a 174; (Huskisson), *a* 419; (India), a 812-3; (Board of Trade), XXIII, a 530; statistics (England), VIII, b 218-21
——, French (France), IX, b 454-5; (Law, J.), XIV, b 367-9; (Turgot), XXIII, a b 669
——, Spanish, works on (Canga-Arquelles), IV, b 711
——, system of (Municipality), XVII, a 34, b 36
Financial Warrant, XXIV, b 392, a 393 note
FINCH, bird, IX, a 167-8; (Birds), III, a 641, a 642, a 644 note, a 648, a 651, *a b* 655, b 666, note; (Bunting), IV, a b 470; brain of (Ornithology), XVIII, b 51
——, Sir Heneage, lord chancellor (Nottingham, Earls of), XVII, a 615
——, Margaret, centenarian (Norwood), XVII, b 610
FINCK, Heinrich, composer, IX, b 168
FINCK, Hermann, composer, IX, b 168
Find, hero (Fingal), IX, *a b* 187
——, Thomas, mathematician (Tables), XXIII, a 13
Finden, Edward, engraver (Finden), IX, b 168
FINDEN, William, engraver, IX, b 168
Finder, improved (Telescope), XXIII, b 166
Findhorn, river (Elgin), VIII, b 121, *a* 122; (Nairn), XVII, a b 173
Finding, law of (Theft), XXIII, b 251
Findlater, Andrew, editor (Encyclopædia), VIII, a 186
FINE, law, IX, b 168-9; (Law), XIV, b 365; blood (Crime), VI, b 515; scale of (Brehon Law), IV, b 226, *a* 227
—— and recovery (Conveyancing), VI, b 238
—— or sept (Clan), V, a 698-9
—— art societies (Paris), XVIII, a 287
FINE ARTS, IX, b 169-87
  analogies and contrasts in, a b 181
  architecture, b 177-8
  auxiliary arts, place of, b 175-6
  classification, a 175-6
  comparative view of pleasures, b 174-5
  definitions of, b 169
  dependence of imitative, b 183-4
  disinterestedness in, b 171-2
  essential quality of, a b 171
  HISTORY OF, b 184-7
    Hegel and the three periods, b 184-5
    shaping and speaking groups, b 186-7
    Spencer and evolution, a 185-6
    Taine and social causes, a b 186
  idealization, b 182-3
FINE ARTS, *continued*
  HISTORY OF
  imitative arts, b 176-7, b 178-84
  industrial aspects of, a b 173
  law of relations, b 181-2
  method of inquiry, a b 171
  motion in, b 176
  music, a 177-8
  painting, b 179-80
  pastime of, b 173-5
  plan of article, b 169-70
  poetry, b 180-1
  producer's relation to recipient, b 170-1
  psychology of association, b 173
  Schiller's theory, b 173-4
  sculpture, b 178-9
  serviceability considered, a b 184
  shaping and speaking, a b 176, b 186-7
  subjective and objective ideals, a b 183
  utility, relation to, a 172-3
—— (Denmark), VII, a b 82; (Finland), IX, b 191-2; (Holland), XII, a 70, a 76; (Nuremberg), XVII, b 682; (Renaissance), XX, b 397-8, a 400, a b 401, b 402-3, a 404, a 405. See ÆSTHETICS, ART, ARCHITECTURE, SCHOOLS OF PAINTING, SCULPTURE, and names of other arts
Finfoot, bird (Rail), XX, b 230
FINGAL, legendary hero, IX, a b 187; legends of (Gaelic), X, a 10
Fingal, painting (Girodet de Roussy), X, a 556
Fingal's Cave, V, a 231
Finger alphabet (Deaf and Dumb) (Ill.), VII, a b 9
—— Rings, XX, b 574-6
Fingers (Anatomy), I, a 726; (Mammalia) (Ill.), XV, a b 362; (Numerals), XVII, b 639-40; bones of (Skeleton), XXII, a 126; joints (Anatomy) (Ill.), I, b 736-7; Whitlow on, XXIV, a b 586
——, redundancy of (Monster), XVI, a b 789
—— and toes, disease (Agriculture), I, b 311, a 325, b 326-7; (Botany), IV, b 84
Fingo Land (Cape Colony), V, b 37, b 41, b 42; (Kaffraria), XIII, a 826
Fingoes, race (Cape Colony), V, b 42-3
Fini, Tommaso, painter. See MASOLINO
Finial (Architecture), II, b 407-8, a 414
Finian of Moville, Saint (Columba, St.), VI, a 150; (Scotland), XXI, b 496
Finiels, mountain (Lozère), XV, a 33
FINIGUERRA, Maso, engraver, IX, b 187-8; Maso, (Niello), XVII, a 508
Fining cast-Iron, XIII, b 327-8
Finis (Hogarth), XII, a 52
Finish, elastic (Bleaching), III, b 711
Finishing (Bleaching), III, b 709; (Bookbinding), IV, a 39; (Brass), a 197; (Calico-Printing), b 614-5; (Gunpowder), XI, b 293; cloth (Wool), XXIV, a b 696
FINISTÈRE, department, IX, a 188
Finisterre, mountains (New Guinea), XVII, a 396, b 397
Finite, negation of the (Cartesianism), V, b 126, b 127, a b 136, b 137, b 139
Fink truss (Bridges) (Ill.). IV, a 290, 307
Finkener's method of analysis (Potassium Metals), XIX, b 610, a 611
FINLAND, IX, a 188-92
  geography of, a b 188
  government, b 189-90
  history, a b 190
  language, b 190-1
  literature, a 191-2
  population, a 189
  productions, *a* b 189
  social organization, b 189-90
—— (Helsingfors), XI, a 572; (Lapland), XIV, b 305, a 306; (Newspapers), XVII, a 442; (Periodicals), XVIII, b 554; (Russia), XXI, a 76, a 78, a 79, a *b* 81, a b 82, a b 84, a 87, a 89, *b* 93, *a* b 94, *b* 95, b 110; (Sweden), XXII, *a* 777, a 780, *a* b 784, *b* 790; acquisition of, 1809 (Russia), XXI, a 109, b 110; people of (Russia), *b* 75, a 87, *a* b 88
——, Gulf of (Baltic), III, a b 254, b 256; (Russia), XXI, b 79, a 80
FINLAY, George, historian, IX, a b 192; (Greece), XI, *b* 75, *a* 76, a 81, a 104, a 108; (Greek Church), a 140; (Sepulchre, Holy), XXI, b 703 note; (Trebizond), XXIII, a 567
Finlay of Moray, earls (Scotland), XXI, *a* 502
Finlayson's grubber (Agriculture), I, a 278
Finley, J. P., meteorologist (United States), XXIII, b 858
Finmark (Norway), XVII, a 589, b 590, a b 591, *a* 592, *a b* 593, *a* b 594, *a b* 595, *a* 596
Finn, Lough, lake (Londonderry), XIV, a 863; river (Donegal), VII, *b* 313
Finn or Find, hero (Celtic Literature), V, b 267, a *b* 270; (Fingal), IX, a b 187
Finnan haddies (Fisheries), IX, a 229
Finnart, mountain (Dumbarton, County), VII, b 452
Finnish Dictionaries, VII, b 163; language (Scandinavian Languages), XXI, *a* b 382; (Mordvinians), XVI, a 840; (Ural-Altaic), XXIV, a b 5, *b* 6, a 7; philological works (Castren), V, b 174; (Schiefner), XXI, b 411; Religions, XX, a b 376; tribes (Volga), XXIV, a b 301
Finno-Hungarian language (Philology), XVIII, a 793
Finno-Tataric languages (Europe), VIII, b 615-16; (Mongols), XVI, a 776; (Ural-Altaic), XXIV, a 5
Finns, race (Bulgaria), IV, b 462; (Russia), XXI, b 74, *a* 75, *a b* 86, *a* 87, b 88, b 89; (Sweden), XXII, b 780
Finntann, poet (Celtic Literature), V, b 267
Finochio, herb (Horticulture), XII, b 302
Fins (Ichthyology) (Ill.), XII, b 673-5, b 700, b 701, b 703; (Cuttle-Fish), VI, b 649; (Skeleton), XXII, b 116, b 120, b 126-7; development of (Vertebrata) (Ill.), XXIV, b 196, a 197, a 198; dorsal (Salmonidæ), XXI, a b 231, note; sailing (Sword-Fish), XXII, a 843
—— or rays of feeling (Touch), XXIII, b 508
Finsbury, borough (London), XIV, a 827, b 829, a b 830, b 831, *b* 833, *a* 845, b 858, b 861; Park (London), XIV, b 833
Finsch, Otto, naturalist (Ostrich), XVIII, b 65; (Pelew), a 485; (Parrots), b 328
Fiogo, town (Hiogo), XI, a b 760
Fioraventi, Aristotle, architect (Russia), XXI, a 100
Fiore, Antonio del, mathematician (Algebra), I, a 453; (Tartaglia), XXIII, a 74
——, Colantonio del, myth (Solario), XXII, a 262
Fiorelli, Signior, explorer (Pompeii), XIX, a 460, b 465
Fiorentino, Giovanni, novelist (Italy), XIII, a 515
FIORENZUOLA, town, IX, b 192-3
FIORILLO, Johann Dominicus, painter, IX, a 193
——, Silvio, actor (Punchinello), XX, b 111
Fiorite (Mineralogy), XVI, a 406
Fiote language (Congo), VI, a 237
FIR, tree (Ill.), IX, a 193-6
  black spruce, a 195
  Douglas spruce, b 195
  general characters, a b 193
  hemlock, a b 195
  Norway spruce (Ill.), b 193-5
  Picea or silver-firs, b 195-6
  white spruce, a 195
—— (Arboriculture), II, a b 277, a b 280; (Botany) (Ill.), IV, b 76, b 85, a 87, b 89, b 90, b 99, a 105, b 107, b 110, a 134, a b 139, b 140, b 142; (California), IV, a 624; (Forests), IX, *a* 351, *b* 353; forests (United States), XXIII, *a* b 861; Rigal (Strength of Materials), XXII, b 634; Scotch (Arboriculture), II, b 276, a 277; (Pine), XIX, a b 111. See PINE and SPRUCE
Firando or Hirado, island (Xavier), XXIV, *b* 753
Firbolgs, race (Celtic Literature), V, *a* 260, a 269; people (Ireland), XIII, *a b* 249, and note

FIRDOUSI or Firdausi, poet, IX, a 196-8; (Chess), V, b 520; (Gipsies), X, a 551; (Gunpowder), XI, a 283; (Mahmúd), XV, b 289-90; (Mohammedanism), XVI, b 605; (Pahlaví), XVIII, a 139; (Persia), b 667, b 668, a 669, a 670, a 673; (Poetry), XIX, b 279, a 282
FIRE, IX, a 198-207
    alarm signals, b 206
    classical usages, b 199-200
    cosmic fire, b 201
    cosmogonies, a b 198
    extinguishing apparatus (Ill.), a 205-6
    great conflagrations, list of, b 202-4
    organization in great cities, b 206-7
    periodic, a b 202
    prevention of conflagrations, b 204-5
    primitive races, a 198-9
    production of, first, b 198-9
    Prytaneion, the, a b 200
    psychical notions of, b 200-1
    purification, b 201-2
— (Brahmanism), IV, *b* 185; (Ethnography), VIII, b 542; (Heraclius), XI, b 607; (Ordeal), XVII, b 684; (Zoroaster), XXIV, b 861
—, holy, of Baku (Methyl), XVI, b 202. See BAKU
—, introduction of (Anthropology), II, a 108; (China), V, *a* b 558; (Sacrifice), XXI, a 142
—, long range and reserve (War), XXIV, b 377-8
— on ship-board (Seamanship), XXI, b 630-1
—, sacred (Vesta), XXIV, a b 209, note; (Mexico), XVI, a 221
—, St. Elmo's (Cabiri), IV, b 551
—, temple of (Parsis), XVIII, a 332
Fire-arms (India), XII, b 801; (Patents), XVIII, b 879-80; manufacture (Liége), XIV, b 572. See GUN-MAKING
— balloons (Aëronautics), I, a b 170, a *b* 172, a 174, *a* 175, b 180, a 186
— balls (Meteor), XVI, b 113; (Thunderstorm), XXIII, a 351
— blende (Mineralogy), XVI, b 412
— box, American locomotive (Steam-Engine), XXII, b 520-1; English (Steam-Engine), *b* 520-1
— Brick, IV, b 249; (Fire-clay), IX, b 207-9
— -brigade (Amsterdam), I, a 684; of London (Insurance), XIII, b 173
FIRE-CLAY, IX, b 207-9; (Furnace), a *b* 741; (Geology), X, b 212, b 309; (Metallurgy), XVI, a 65; (Westmorland), XXIV, b 542, a 544; (York), b 784
Fire-companies (Franklin), IX, a 627
— -crackers (Pyrotechny), XX, a 142
— damp (Chemistry), V, b 482; (Coal), VI, b 67, b 68-9; (Davy), a 745; (Methyl), XVI, b 202; (Mining), a 481
— department (New York), XVII, a 477
— -drill, sacred (Anthropology), II, a 108
— extinction (London), XIV, b 835; (Patents), XVIII, b 882
Fireflies (Coleoptera), VI, b 115, a 120; (Phosphorescence), XVIII, b 826, a b 827
Fire Gilding, X, b 530
Firehole river (Yellowstone Park), XXIV, b 774
FIRE INSURANCE, XIII, b 168-75
Fireless locomotives (Steam-Engine), XXII, a 549, note; (Tramway), XXIII, b 540
Firemen (Filter), IX, b 149; ancient barracks for (Rome), XX, a 850
— -missiles (Mahmud), XV, a 289, note
Fire-myths (Mythology), XVII, b 164; (Prometheus), XIX, a b 830, a 831
Firenze, city. See FLORENCE
FIRENZUOLA, Agnolo, poet, IX, b 209-10
Fire-places. See STOVES and SMOKE ABATEMENT
— polishing (Glass), X, a 592
— precautions (Building), IV, a 404, b 405-8; (Libraries), XIV, b 540
Fire-proof building (Fire), IX, b 204; cloth (Asbestos), II, b 590; safes (Europe), VIII, b 621; (Patents), XVIII, b 882; (Safe), XXI, a 153; varnish (Silica), XXII, b 59
Fires, classification of (London), XIV, b 835; destruction by (Russia), XXI, a 77
—, great, Boston, 1872, IV, b 66; (Massachusetts), XV, b 619; Carlisle, V, *b* 96; Chicago, 1871, b 531-2; Glarus, 1861, X, a 567; Hamburg, 1842, XI, b 365; Irkutsk, 1879, XIII, b 283; London, XIV, *a* 854, b 859; New York, 1835, XVII, *b* 894; Paris, XVIII, b 289-90, b 293, b 300; Pittsburgh, 1845, XIX, a 161; Nero's, Rome, 64, XX, a 829; St. John, N. B., 1877, XXI, b 181. See List of Fires, IX, b 202-4 and Insurance, XIII, a 170
— in mines (Coal), VI, a 69
—, sacred (Apsheron), II, a 188. See Fire, Sacred
Fire-ships (Armada), II, b 477; (Giambelli), X, b 510
Firestones, masonry (Building), IV, b 419
Firetail, bird (Redstart), XX, b 330
Fire-test (Petroleum), XVIII, a 891, b 892
— -tricks (Magic), XV, b 209
— -wells (Geology), X, a 224
Fireworks (Pyrotechny), XX, a 141-3
Fire-worship (Hephæstus), XI, a b 605; (Hestia), b 698; (Parsis), XVIII, b 332; (Persia), b 638, b 639
"Firing," plant-disease (Tobacco), XXIII, a 452
— processes (Pottery and Porcelain), XIX, b 658, a 663
— proof (Gunpowder), XI, a 295
Firinghis, people (Chittagong), V, b 586
Firkowitsch forgeries (Karaites), XIV, b 4
FIRMICUS, Maternus Julius, writer, IX, a 210
Firmness, organ of (Phrenology), XVIII, b 859
Firoz-Kohis, tribe (Herat), XI, b 638
Firozâbâd or Firouzabad (Agra), I, a 255; (Architecture), II, b 351
FIROZPUR, district, IX, a b 210; (Punjab), XX, *b* 114, note, a 116; city, IX, b 210
Firoz Shah, sultan (Gaur), X, b 103; (Inscriptions), XIII, a 124
Firs, joiners' (Building), IV, *b* 435
Firs, tree. See FIR
First Blast of the Trumpet, etc. (Knox), XIV, a 133
First century, events in, B.C. (Chronology), V, *a b* 627; A.D. (Chronology), b 627
— fruits, offering of (Tithes), XXIII, a 438, note
— intention, healing by (Hunter, J.), XII, b 406
Firth cutting machine (Coal) (Ill.), VI, a b 63
— of Forth. See Forth, Firth of
Firths (Iceland), XII, a 651, a 652; salinity of (Sea), XXI, a 606
Fírúzâbâdí, lexicographer (Tabarí), XXIII, a 9
Firuz-Koh, city (Ghúr), X, b 509
Fisa, tales (Celtic Literature), V, b 269, a b 282-3
Fiscal, Prerogative, XIX, a 694
FISCHART, Johannes, satirist, IX, b 210-11; (Germany), X, a 473
Fischer, Ernst Kuno Berthold, philosopher (Bacon), III, a 187 note 2, a 188; (Hegel), XI, b 554; (Schelling), XXI, b 409 note, *a* 410; (Trendelenburg), XXIII, b 577
—, Heinrich, mineralogist (Jade), XIII, b 549, b 550, a 551
— de Waldheim, naturalist (Ornithology), XVIII, b 18
—, von Erlach, architect (Vienna), XXIV, b 237
Fischerite (Mineralogy), XVI, b 422
Fischer's salt (Nickel), XVII, a 502
Fiscus (Ærarium), I, a 166
Fish, river (Namaqualand), XVII, a 175
—, Simon, satirist (England, Church of), VIII, b 335
Fish-belly rail (Railroad), XX, a b 231
Fish Commission, U. S. (Michigan), XVI, b 248; (Smithsonian), XXII, a *b* 915-6; hatcheries (Pisciculture), XIX, a b 137-8
— consumption in Spain, XXII, a 317; eating of (Taboo), XXIII, a 23; Eggs of, VII, *a* b 604; (Ichthyology), XII, a 698-700. See Ova; extinction of (Pisciculture), XIX, a b 135, a 136; (Sole), XXII, a 263; fossil, American (Geology), X, a 306; (Zoology), XXIV, a 925; legends of (Deluge), VII, a 50, a 61; Markets of London, XIV, a b 838; subterranean (Mammoth Cave), XV, a 457; volcanic eructation of (Geology), X, a b 223; Zodiacal Sign, XXIV, a 830, a 831, a 833. See Pisces
Fish-crow, VI, b 546
Fish-culture. See PISCICULTURE
Fish Days, Brief Note of the Benefit of (London), XIV, b 837
Fisher, animal (Fur), IX, b 735, a 736
—, Beatus, publicist (Postal Union), XIX, b 600
—, James, divine (United Presbyterian Church), XXIII, b 775-6
—, Jesse, inventor (Oils), XVII, b 763
FISHER, John, bishop, IX, a b 211; (England), VIII, b 300; (English Literature), a 370; (Henry VIII.), XI, b 592; (Peter), XVIII, b 709 note; (Reformation), XX, a b 340, a b 343
—, John, Jesuit (Chillingworth), V, a 543
—, Mary, missionary (Quakers), XX, b 154, a 158
—, O., geologist (Geology), X, *a* 194, b 201-2, *b* 329
FISHERIES, IX, b 211-35
    British North America, a 232-3
    crustacea, British, b 231
    echinus, a b 234
    ENGLISH, b 214-24
        Brixham and Hull, a b 217
        cod, North-Sea, a 223-4
        curing herring, b 220
        drift fishing, b 218-21
        fish trawl, b 216
        Grimsby, b 217-8
        grounds, b 218, b 220, *a* 221, b 222
        line fishing, a 223-4
        mackerel and sardines, a 221
        nets, trawling, a b 215
        pilchard, a 221-2
        seine fishing, a 221-2
        sprats and white-bait, b 222-3
        stations, trawling, b 216-8
        steam trawling, a b 218
        stow-net fishing, b 222-3
        trawling, b 214-8
        vessels, trawl, b 215-6, b 218
        working trawls, a b 216
        Yarmouth herring, b 218-20

FISHERIES, *continued*
  fluctuations of, a 212
  France and Holland, a 234
  importance of, b 211-2
  international law, b 235
  IRISH and MANX, b 229-31
    drift fishing, b 230-1
    state of industry, b 229-30
    trawling, a b 230
  law of, b 234-5
  Scandinavia, a 234
  SCOTCH, a 224-9
    brands and classes, herring, a b 226
    close herring time, a 227
    curing herring, b 225-7
    fluctuations, herring, a b 225
    garvie or sprat, b 228-9
    herring, a 224-8
    line fishing, a b 229
    Loch Fyne, a 227-8
    nets and boats, a 224-5
    statistics, herring, a b 229
    trawling and seining disputes, a 227-8
  shell-fish, British, b 231-2
  spawning, b 212-4
  trade, state of, a b 212
  tripang, b 234
  United States, a b 233
  vessels, registered British, a b 214
  vitality of spawn, b 213-4

—— (Aberdeen), I, a 45; (Aberdeenshire), b 46, a 47; (Antrim), II, b 125; (Arabia), a b 213; (Boulogne-sur-mer), IV, a 157; (Brazil), a b 215; (Brighton) *b* 311; (Byzantium), b 546; (Caithness), a 575; (Calabria), b 577; (Cambodia), b 641; (Canada), *b* 676, b 677, a b 684; (Christiansand), V, b 610; (Clare), a 702; (Cod), VI, a 95; (Columbia, British), a b 152; (Connecticut), *a* 256; (Contraband), a 285; (Corals), a 344; (Corea), b 349; (Cork), a 358; (Cornwall), a 378; (Corsica), b 389; (Crab), a b 477, note; (Crustacea), a 582, note; (Devonshire), VII, a 122; (Diving), a 259; (Dnieper), b 266; (Dniester), b 266; (Donegal), a 314; (Down), b 331; (Dublin), a 427
—— (Elgin), VIII, *a* 122; (England), b 211; (Forfar), IX, b 362; (France); a b 462; (Fraserburgh), a 638; (Gloucester, Mass.), X, a 617; (Greenland), XI, a 151, a 152; (Grimsby), a 180; (Hammerfest), a 381; (Hanseatic League), b 402, a b 403; (Holland), XII, b 70; (Hull), a b 355; (Ireland), XIII, b 238; (Italy), b 451, b 464-5; (Japan), b 585; (Jersey), b 645; (Kent), XIV, a b 40; (Kerry), b 53-4; (Labrador), a b 177; (Land), b 460; (Long Island), b 876; (Lofoten and Vesteraalen), a 776; (Lorient), XV, *b* 6; (Louth), a 27; (Mackerel), b 160-1; (Maine), a 303; (Malabar), a 315; (Maldive Islands), a 334; (Man, Isle of), a b 459, (Manche), b 466; (Massachusetts), b 618, b 619
—— (Menhaden), XVI, b 14; (Mexico), a 910; (Michigan), b 248; (Morbihan), b 839; (Morocco), a 860; (Mother of Pearl), XVII, a 8; (New Brunswick), b 383; (Newfoundland), a 393-4, a 395; (New South Wales), a 421; (New York), a 469; (New Zealand), b 482-3; (North Sea), a 578; (Norway), a 596; (Nova Scotia), b 617; (Onega), b 794; (Orkney and Shetland), a b 872; (Oyster), XVIII, a 111-4; (Pas de Calais), a 345; (Pereyaslavl), b 535; (Pearl), b 457-8; (Peterhead), a 715; (Polar Regions), XIX, b 330; (Prince Edward Island), b 759; (Prussia), XX, b 18-9; (Quebec), a 173; (Queen Charlotte Islands), b 176; (Queensland), b 180-1; (Russia), XXI, a b 93; (St. Paul), a 199; (St. Pierre and Miquelon), a 206; (Salmonidæ), a 236; (Scotland), a 557; (Seal), a 608-10; (Shipping), a 866
—— (Siberia), XXII, b 14; (South Australia), b 299; (Spain), a 315; (Sponges), a b 445; (Sussex), a 763; (Sweden), b 779-80; (Switzerland), b 816-7; (Sword-Fish), b 843; (Tasmania), XXIII, b 80; (Transbaikalia), a 543; (Tunny), b 665-6; (Turbot), a 666; (Uralsk), XXIV, a 11; (Vermont), b 181, a 182; (Volga), a b 300; (Washington Territory), a b 407; (Western Australia), *b* 536; (Whale), a 555-8; (Wisconsin), b 651; (Yarmouth), b 765
——, Canadian obstruction of (United States), XXIII, b 830; Department (Board of Trade), a 530; protection of (Cecil), V, a 247; (Pisciculture), XIX, b 135-6
——, French (Newfoundland), XVII, b 393, a 395; (Oyster), XVIII, a 111, a b 112, b 113, a 114
——, German (Oyster), XVIII, b 111, b 112, b 113, b 114; (Pearl), b 459; (Pisciculture), XIX, *b* 136, a 138; (Whale), XXIV, a 557
Fisherman's bend, knot (Seamanship) (Ill.), XXI, *b* 618
"Fisherman's ring" (Bulls and Briefs), IV, b 465
Fishermen (Seamen), XXI, a 638
Fishers, The (Ewald, J.), VIII, *a b* 679
Fishery laws, IX, b 234; (Riparian Laws), XX, *a* 581; (Salmonidæ), XXI, a 236-7
—— treaty, U. S., 1818 (Rush, R.), XXI, b 897
Fishes (Africa), I, b 232; (Alps), b 557; (America), a 601; (Anatomy), a 739, b 741-2; (Asia), II, a b 608; (Australia), III, b 97; (Baltic Sea) a 257; (California), IV, b 623; (Ceylon), V, a 316; (Crimea), VI, b 518; (Egypt), VII, a 618; (Embryology), VIII, b 154-5; (Europe), b 609-10; (Geneva lake), X, a 136, note; (Germany), b 406; (Greenland), XI, a 151; (Himalaya), a 745; (Heraldry), b 625-6; (Ichthyology) (Ill.), XII, a 666-733; (Manchuria), XV, b 474; (Natal), XVII, a 247; (New York), b 463-4; (Norway), a b 595; (Reproduction), XX, a *b* 421, a b 422, a 423; (St. Helena), XXI, a 180; (Sex), a b 757; (Siberia), XXII, b 12, note; (Suez Canal), b 653; (Vertebrata), XXIV, a 193, *a b* 197
——, ætiology of (Amphibia), I, a 676; appendicular Skeleton, XXII, a 125, b 126-7; in art (Japan), XIII, a b 599, b 600, *b* 601; axial Skeleton, XXII, a *b* 118, b 119, a *b* 120, a b 121, *a b* 122, *a b* 123, *a* b 124; brain development of (Physiology), XIX, a b 37; branchials of, comparative view (Birds) (Ill.), III, a 616; deep sea (Ichthyology), XII, b 707-8, b 715-6, a 721-3; (Phosphorescence), XVIII, a b 827
—— development of (Vertebrata), XXIV, *a b* 197; electric (Electricity), VIII, a b 9; fresh water, distribution of, VII, b 234, b 236, a b 237, a b 238, a 239, b 240-1, 246; (Ichthyology), XII, a 707-15; land travellers (Siluridæ), XXII, a 75; Longevity of, XIV, b 868; marine, distribution of, VII, b 243-4, 246; (Ichthyology), XII, b 715-23; mimetic, XVI, *b* 355, a 357; olfactory organs of (Smell), XXII, b 175-6; ossification in (Skeleton), XXII, a 117; parasites of (Nematoidea), XVII, a b 334, note; (Parasitism), XVIII, a 264; (Protozoa), XIX, a 879; (Trematoda), XXIII, *a b* 573, a b 574; poisonous (Medical Jurisprudence), XV, b 792; preserving (Taxidermy), XXIII, b 96; sense organs (Ichthyology), XII, a b 689-91; sense of Touch, XXIII, b 508-9; symbolism of (Gospels), X, a 720
Fish-eye problem, Maxwell's (Light), XIV, b 603-4
—— -Guano, XI, a 208
Fishguard bay (Pembroke), XVIII, a 492
Fish-hawk (Osprey), XVIII, b 59-60
"Fish-Hawk," steamer (Smithsonian), XXII, a 916
Fishing (Cormorant), VI, a 362; (Eels), VII, a b 601. See ANGLING
Fishing Anchors, II, a 9
—— a beam (Building) (Plate XXIII), IV, b 428
—— boats, IX, a 214, b 215-6, b 224, note; (Wreck), XXIV, b 722
FISHING-FROG (Ill.), IX, a b 235; (Devil-Fish), VII, b 119; (Ichthyology), XII, b 728
—— Nets, XVII, b 367-8
Fish-leeches, XIV, a 404
Fish-lice (Crustacea), VI, a 572
—— -oil (Lubricants), XV, b 36, b 37, a 38; (Menhaden), XVI, b 14; (Oils), XVII, a b 765, b 766, b 768
—— -plates (Railway) (Ill.), XX, a b 232, b 251, a 252
—— -scales (Skeleton), XXII, a 115, b 116
Fishtail burner (Gas and Gas-Lighting), X, b 89-90
Fish-tanks (Abbey), I, a 22, a 25. See AQUARIUM
Fiske, John, author (Evolution), VIII, b 670
Fisken tackle (Agriculture), I, b 280-1
Fissidens, mosses (Muscineæ), XVII, a 77, a 78
Fissility of rocks (Geology), X, b 210
Fission (Breeds), IV, b 219-20; anemone (Corals), VI, a 329, a 331, b 338; binary, of Opalnia (Protozoa), XIX, a b 889; of cells (Anatomy), I, a 741; medusæ (Hydrozoa), XII, a b 586, b 588; Polychæta (Annelida), II, a 60; reproduction by (Biology), III, b 593; (Sponges), XXII, b 440
Fissipedia, sub-order (Mammalia), XV, a 439-40
Fissurella, genus (Mollusca) (Ill.), XVI, a 659, b 668, b 671
Fissurellidæ, family (Mollusca) (Ill.), XVI, b 668
Fissures, cerebric (Anatomy), I, b 766, *a b* 767
——, geological (Ill.), X, a 267; (Norway), XVII, b 592; (Slate), XXII, b 135; double (Geology) (Ill.), X, b 270; earthquake (Geology), b 226; volcanic (Geology), a b 218, a b 220
—— of the middle line (Monster), XVI, a b 790
FISTULA, IX, b 235-6; (Insanity), XIII, b 107
Fistulariidæ, group (Ichthyology), XII, a 716, b 729
Fitch, skin (Fur), IX, b 735, a 736
FITCH, John, inventor, IX, a 236; (Patents), XVIII, b 878; (Rumsey), XXI, a 897; (Steam-Engine), XXII, a 496 note
FITCH, Ralph, traveller, IX, a b 236; (India), XII, a 837
FITCHBURG, city, IX, b 236
Fitchet. See POLECAT
Fitness or external duty (Stoics), XXII, a 597, a b 599

Fits, disease (Epilepsy), VIII, b 425; (Pathology), XVIII, a b 400
Fitting or fixing, joiner's (Building) (Ill.), IV, b 440–4
Fittri, lake (Africa), I, a 243
Fitz, Henry, optician (Telescopic Work), XXIII, a 934
Fitz-Alan, Walter, progenitor of the Stuarts (Scotland), XXI, a 512
Fitz Alwin, Henry, mayor (London), XIV, a 855, note
Fitzgeoffrey, Charles, poet (Tourneur), XXIII, b 521
Fitzgerald, Daniel, inventor (Patents), XVIII, b 882
FITZGERALD, Edward, Lord, patriot, IX, b 236–7; (Dublin), VII, a 434
——, Edward, bishop (Vatican Council), XXIV, a 123
——, Elizabeth, Lady (Surrey), XXII, b 730
——, James Fitzthomas, pretender (Ireland), XIII, a 271
——, Maurice, earl of Desmond (Ireland), XIII, b 264-5
FITZGERALD, Thomas, Lord of Kildare, patriot, IX, a 237; (Dublin), VII, b 433
Fitzgeralds, family (Cork), VI, a 359. See Desmond
FITZHERBERT, Sir Anthony, judge, IX, b 237; (Agriculture), I, a 263–4; (Land), XIV, a 265
——, Maria, canonical queen of England (George IV.), X, a b 384
——, Sir William, jurist (Knighthood), XIV, b 122 note
Fitzinger, Leopold, Joseph Franz Johann, zoologist (Reptiles), XX, a b 449, b 452
Fitzmary, Simon, philanthropist (Hospital), XII, a 315
Fitzmaurice of Desmond, patriot (Ireland), XIII, b 270
——, Henry and William Petty. See LANSDOWNE
Fitz-Nigel, Richard, treasurer of exchequer (Records), XX, b 325
Fitz-Osbern, William, justiciar (England), VIII, a b 263; (Justice), XIII, a 798
Fitz-Osbert, William, crusader (England), VIII, a 275
Fitz-Ralph, Richard archbishop (Marignolli), XV, b 550-1; (Wycliffe), XXIV, b 744, note
Fitzroy, lake (Patagonia), XVIII, a b 358
——, river (Queensland), XX, *a* 178; (Western Australia), XXIV, a *b* 535
——, Henry, royal bastard and English duke (Surrey), XXII, b 730
FITZROY, Robert, admiral, IX, b 237–8
—— Barometer, III, a 330
Fitzsimons, Henry, Irish Jesuit (Usher), XXIV, b 21
Fitzstephen, Robert (Cork), VI, a 359; (Ireland), XIII, *b* 264-5; (Wexford), XXIV, a b 550
FITZSTEPHEN, William, historian, IX, b 238; (Bowls), IV, b 162–3; (Football), IX, a 321; (Horse), XII, b 203; (London), XIV, a 833, a 834, a 839, a b 844, b 845, a b 848, *a* b 855, a 856, a 862
Fitzthomas, Maurice Fitzgerald, earl of Desmond (Ireland), XIII, b 266
Fitzwilliam, Richard, viscount (Cambridge), IV, b 645
——, William Wentworth, earl, viceroy of Ireland (England), VIII, b 323, b 324
—— Museum (Libraries), XIV, b 519
Fiume, district (Hungary), XII, *a* 375, a *b* 378, *a* b 379, a 380 note, a b 381, a 385
FIUME, town, IX, b 238-9; (Hungary), XII, a 377, b 378, a 385; (Meteorology), XVI, a 134; commerce of (Austria), III, a 106
Fiume di Jaci (Acis), I, a 92
Fiumicino, river (Italy), XIII, b 446
Five Articles of Perth (Scotland), XXI, b 532, b 533, b 534
"Five Carlins" (Dumfries), VII, a 456
Five Forks, battle of, 1865 (United States), XXIII, b 828
Five Great Monarchies, Rawlinson (Persia), XVIII, b 593
Five-mile Act (England), VIII, b 312; (Presbyterianism), XIX, a 710 note
Five Nations, Indians (New York), XVII, b 465–6
"Five Royal Hospitals," (Hospital), XII, a 315
FIVES, game, IX, a 239
FIVES, town, IX, a 239
Five Sages, the (Reshal), XX, a 487 note
Five Senses, paintings (Ostade), XVIII, a b 62
FIX, Theodore, journalist, IX, a 239
Fixed Stars. See Stars, fixed
FIXTURES, law, IX, a 239–40; (Landlord and Tenant), XIV, b 273, a 275
Fizeau, Hippolyte Louis, chemist (Astronomy), II, a 697; (Ether), VIII, *a* 504, (Photography), XVIII, b 836; condenser of (Electricity), VIII, b 12; velocity, measurement of (Light), XIV, a 589
Fjōlnir, periodical (Scandinavian Languages), XXI, a 385
Fjord (Geology), X, a 229, a 325; (Greenland), XI, b 148; (Norway), XVII, a b 590, a 591, *a b* 592, b 594
Flabenigo's law (Doge), VII, a 288
Flaccidezza, disease (Protozoa), XIX, b 879
FLACCUS, Caius Valerius, poet, IX, a b 240
——, Lucius Valerius, consul (Rome), XX, b 779
——, Marcus Verrius, grammarian (Festus, S. P.), IX, b 103; (Gloss), X, a b 612
Flachsland, Caroline, Herder's wife (Goethe), X, b 645, a 656; (Herder), XI, b 650, b 652
FLACIUS, Matthias, theologian, IX, b 240; (Church History), V, b 668; (Peter), XVIII, b 709 note
FLACOURT, Étienne de, governor, IX, b 240-1
FLAG (Plate I) (Ill.), IX, a 241-4
  ancient standards, a 241-2
  mediæval, a 242–3
  national, modern, b 243–4
—— (Admiral), I, b 141; (Greece), XI, b 77; (Knighthood), XIV, b 118–9, a 121 note; (Norway), XVII, b 597; Argentine (Rosario), XX, a 871; Continental (United States), XXIII, a 790; United States (Heraldry), XI, a 613; (Reid), XX, a 905
—— officer (Navy), XVII, b 300, a 301
—— of truce (International Law), XIII, a 201
FLAG, plant, IX, a 244–5; (Acorus), I, a 93; (Botany), IV, a 87; (Iris), XIII, a 282
FLAGELLANTS, order, IX, a b 245
Flagellata, class (Animal Kingdom), II, *a* 46; (Protozoa) (Ill.), XIX, b 853, *a* 854, b 856, b 857, a 859, *a b* 860, a b 880-3
Flagellation of Christ, painting (Sebastiano), XXI, a b 646
Flagellum of Noctiluca (Histology) (Ill.), XII, a b 6
—— relations of (Protozoa), XIX, a b 883
Flageolet (Flute), IX, a 307
Flaget, B. J., bishop (Spalding), XXII, b 917
Flagstaff mine (United States), XXIII, a 868
Flagstone, rock (Geology), X, a 212; Caithness (Ichthyology), XII, a 706
FLAHAUT DE LA BILLARDERIE, Comte de, general, IX, b 245-6
Flaith or flath, title (Brehon Law), IV, *a* 226; (Clan), V, *b* 698, a 699; (Ireland), XIII, b 261, a b 262, a b 263, a 264
FLAMBARD, Ranulf, Randolph or Ralph, bishop, IX, a 246; (England), VIII, b 272-3; (William II.), XXIV, a b 609, a 610
Flamboyant style (Architecture), II, a b 377, a 408, a 419
FLAME, IX, a 246-9
  authorities, a 249
  continuance of combustion, a 248–9
  electrical phenomena, a 249
  luminosity, b 246–8
  mixture of gases, b 247–8
  pressure, luminosity from, a b 247
  radiation of heat, b 248–9
  singing flames, a 249
  structure, shape, color, a b 247
  temperature, b 247
—— (Candle), IV, b 709; (Magnetism), XV, a b 274; analysis (Blowpipe), III, a 728; manometer (Ill.) (Acoustics), I, a 108, b 109–10; Newton's theory (Light), XIV, b 583; singing (Acoustics), I, b 107-8
FLAMEL, Nicolas, alchemist, IX, a b 249
FLAMEN, priest, IX, b 249; (Jupiter), XIII, a 790; (Lupercalia), XV, b 67; (Pontifex), XIX, a 470; (Roman Law), XX, a 705; (Taboo), XXIII, a b 23
Flamenca (Provençal Literature), XIX, a b 901
Fläming hills (Germany), X, b 403
FLAMINGO (Ill.), IX, b 249–50; (Birds), III, *a* 633, b 648, b 652, a 669; (Ornithology), XVIII, b 50; mistaken for Pelican, a 486
Flaminian Way (Rimini), XX, *b* 570; (Rome), a 767, b 829, b 851, note
FLAMININUS, Titus Quinctius, general, IX, a 251–2; (Greece), XI, *a* 97; (Hannibal), *b* 395; (Rome), XX, b 770, *a* 771
FLAMINIUS, Caius, the Elder, IX, a b 252
FLAMINIUS, Caius, the Younger, IX, b 252-3
Flammarion, Camille, astronomer (Aëronautics), I, a 180, a 187
FLAMSTEED, John, astronomer, IX, a b 253; (Astronomy), II, b 660; (Halley), XI, b 354, *a* 355; (Micrometer), XVI, b 251; (Navigation), XVII, *a b* 263, *a* 264; (Newton), a b 454, a 459, b 460; (Photometry), XVIII, b 854
——, *Account of Rev. John* (Baily), III, b 211
FLANDERS, country, IX, b 253–4; (Finance), a 155; (France), *a b* 481; (Holland), XII, *a* 73, a b 74, *a* b 75, a b 76, b 80, a b 81, b 84; (Music), XVII, b 90, b 91; counts of (Brabant), IV, a 169; (Hainault), XI, *a* 336; farmers (Agriculture), I, b 365, a *b* 366, *a* 367. See Flemings and Flemish Arts.
Flandin, Eugene Napoleon, archæologist (Architecture), II, a 349, b 350, *a* 351, b 400; (Persepolis), XVIII, b 569 note, b 571, a 572, note
FLANDRIN, Jean Hippolyte, painter, IX, b 254
Flange rails (Railway) (Ill.), XX, b 230, a 253–4
Flanged projectiles (Gunmaking), XI, a b 263
Flank attacks of Artillery, II, b 584
Flann of Monasterboyce (Celtic Literature), V, b 264, a 267
FLANNEL, IX, a 255
Flaps, glides to and from (Speech-Sounds), XXII, b 397–8
Flashed colors (Glass), X, b 594
Flashing (River Engineering), XX, b 588
Flash lights (Lighthouse) (Ill.), XIV, b 625, a 627, b 628, b 630, a b 631, b 634
Flaska, pseudonym, poet (Slavs), XXII, b 160
Flasks, castings (Iron), XIII, [illegible] 366

- Flasque or flaunch, the (Heraldry), XI, a b 621
- Flat-boats on the Ohio (United States), XXIII, b 801
- FLATBUSH, town, IX, a 255; (Long Island), XIV, b 876
- FLAT-FISH, IX, a b 255; (Ichthyology), XII, b 700, b 718, a 721, b 730
- —— flame burner (Gas and Gas-Lighting), X, b 89-90
- —— -foot, deformity (Club-foot), VI, b 41
- —— -foot rail (Railway), XX, b 231
- —— -head, fish (Ichthyology), XII, a 725
- —— river (Montana), XVI, a b 799
- —— -heads, tribes (Indians), XII, a 866
- Flaths, lords. See Flaith
- Flatlands, town (Long Island), XIV, b 876, a 877
- Flat pencil defined (Geometry), X, *b* 347
- Flat-seizing (Seamanship), XXI, b 620
- Flattening sheet-Glass, X, b 589
- Flatulence (Colic), VI, a b 126, a 127; (Dietetics), VII, a 180,
- Flatzbach, river (Engadine), VIII, a b 193
- Flaubert, Gustave, novelist (France), IX, a 597
- FLAVEL, John, divine, IX, b 255
- FLAVIAN I., patriarch, Antioch, IX, b 255
- FLAVIAN II., patriarch, Antioch, IX, b 255-6; (Syriac Literature), XXII, *b* 872
- FLAVIAN, patriarch, Constantinople, IX, a 256
- —— age (Latin Language), XIV, b 337-8
- —— emperors. See DOMITIAN, TITUS and VESPASIAN; LEO I., III., V. and VI., and CONSTANTINE VII., in the East
- Flavianus, Petrus, manufacturer (Glass), X, b 580
- FLAVIGNY, Valerian, theologian, IX, a 256
- FLAVIN, dye, IX, a 256; (Quercitron), XX, b 182
- Flavionavia, town. See AVILES
- Flavius, king (Lombards), XIV, *b* 823
- ——, Cneius, senator (Almanac), I, b 519; (Roman Law), XX, a 698
- —— Merobaudes, poet (Niebuhr, B. G.), XVII, b 505
- FLAX (Ill.), IX, a 256-60
  - ancient cultivation, a 256-7
  - modern cultivation, b 258-9
  - retting, a b 257-8
  - plant, a 256
  - pulling and rippling, a 257
  - Russian product, a b 260
  - scutching, a b 258
  - statistics, 259-60
- —— (Agriculture), I, b 337-8; (Auckland), III, b 59; (Austria), a 105; (Belgium), *b* 452; (Botany) (Ill.), IV, a 74, a b 75, a 115, a 129, b 139, (France), IX, a 459, b 464; (Horticulture), XII, a 259; (Ireland), XIII, b 236-7, b 275; (Italy), b 463; (Lille), XIV, b 648; (Linen Manufacture), b 670-2; (Linseed), a 683; (Phormium), XVIII, b 825-6; (Russia), XXI, a 93, a 95; spinning (Girard, P. H.), X, b 553
- FLAXMAN, John, sculptor, IX, b 260-2; (Gibson, J.), X, b 524; (Sculpture), XXI, a 587, note; (Wedgewood), XXIV, b 503
- FLEA, insect, IX, b 262; (Diptera), VII, b 222, a 223; (Insects), XIII, a 149, a 157; anatomy of (Leeuwenhoek), XIV, b 411, a 412
- —— seeds (Galls), X, a 41
- Flèche, spire (Architecture), II, a 408
- FLÉCHIER, Esprit, bishop, IX, a 263; (Camisards), IV, *b* 658
- Flechsig, on nerve development (Physiology), XIX, b 39, a b 40, a 46, b 50
- FLECKNOE, Richard, poet, IX, a 264
- Fleck's process (Phosphorus), XVIII, a 829
- Fleece (Breeds), IV, a 224; (Wool), XXIV, b 689, a 690-1
- ——, Zodiacal sign, XXIV, a 831
- *Fleece, The*, poem (Dyer), VII, b 502
- Fleet, estuary (Dorset), VII, b 321
- —— ditch or river (Middlesex), XVI, b 291; (London), XIV, b 827, *b* 835, a 850, a 861
- ——, river (Kirkcudbright), XIV, b 99
- ——, river and loch (Sutherland), XXII, a b 764
- Fleet, blockading (War), XXIV, *b* 385
- —— market (London), XIV, b 838; prison (London), a 844, a 852; street (London), a 831, a 834, b 842, a 848, a b 855, a 856, b 858, a b 861
- Fleetenkieker and Fleets, canals (Hamburg), XI, b 361
- FLEETWOOD, Charles, general, IX, a b 264
- FLEETWOOD, William, bishop, IX, b 264
- FLEETWOOD ON WYRE, town, IX, a 264
- Flegel, traveller (Soudan), XXII, b 290
- Fleischer, Heinrich Leberecht, orientalist (Sacy), XXI, b 149
- Fleitmann's process (Nickel), XVII, b 501
- Fleming, John, naturalist (Ornithology), XVIII, b 19, a 22; (Owl), b 92
- FLEMING, Paul, poet, IX, b 264-5; (Germany), X, b 474, b 475; (Hymns), XII, b 621
- Flemings in Axholm, III, a 137; in the Azores, b 147, a 149; in Haverfordwest, XI, b 470; as weavers (Wool), XXIV, *a* 688
- Flemish art (Brasses), IV, *b* 197; (Lace) (Ill.), XIV, a *b* 185, b 187, a 191; (Miniature), XVI, b 458, a b 459; (Music), XVII, b 90, b 91; (Mural Decoration), b 44; (Schools of Painting) (Ill.), XXI, b 457-8, b 463, *b* 465, *a b* 466, b 468; (Textiles), XXIII, a 230-1. See Painting, Flemish
- —— bond (Building) (Plate XX), IV, b 412
- —— language (Dictionaries), VII, b 162; (Holland), XII, b 88
- —— eye (Seamanship) (Ill.), XXI, a 620
- Flemish laws (Sea Laws), XXI, a b 611
- —— Periodicals, XVIII, b 553
- FLEMMING or Flemmynge, Richard, bishop, IX, a b 265
- ——, Walther, biologist (Protozoa), XIX, b 854, a 855; (Reproduction), XX, b 425, a 429, a 430, *a* 435
- FLENSBURG, town, IX, b 265; (Schleswig-Holstein), XXI *b* 432
- Flers, town (Orne), XVIII, b 5, b 6
- Flesh. See Meat
- "Flesh," moral nature of the (Paul), XVIII, b 434, a 435
- *Flesh-eating* (Plutarch), XIX, b 246
- Flesk, river (Kerry), XIV, a 53
- Flesselles, balloon (Aëronautics), I, b 170, a 174
- FLETCHER, Andrew, IX, b 265-6; (Agriculture), I, a 319; (Ballot), III, b 249; (Scotland), XXI, b 540, a 541
- Fletcher, Benjamin, governor (Penn), XVIII, a 507, note
- FLETCHER, Giles, poet, IX, a b 266
- FLETCHER, Giles, traveller and author, IX, *a* b 266; (Beaumont and Fletcher), III, a 405; (Ivan IV.), XIII, b 529
- ——, John, dramatist (Beaumont and Fletcher), III, a 405-10; (Drama), VII, *a* b 373, *a* 374; (Pastoral), XVIII, a 352
- FLETCHER, Phineas, poet, IX, b 266
- ——, Richard, bishop (Beaumont and Fletcher), III, a 405
- FLEURANGES, Robert de la Marck, Seigneur de, marshal, IX, b 266-7
- FLEUR-DE-LIS, Luce or Lys, heraldry, IX, a 267; (Flag), IX, *a* 214; (Heraldry) (Ill.), XI, b 608, a 609, b 613, b 626, b 629; (Iris), XIII, a 282
- *Fleurs du Mal* (Baudelaire), III, a 386
- Fleurus, battle of, 1794 (Aëronautics), I, *a* 180; (France), IX, a 511, b 534
- FLEURY, André Hercule de, cardinal, IX, a 267; (France), *b* 515, *a* 516
- FLEURY, Claude, historian, IX, b 267-8; (Church History), V, b 668
- ——, Guillaume François Joli de, financier (France), IX, a 524
- ——, M. J., critic (Rabelais), XX, b 203, a 205
- —— monastery (Libraries), XIV, *b* 512-3
- Flexure of beam or rod (Elasticity), VII, *b* 692, a b 701, a 702
- FLIEDNER, Theodore, philanthropist, IX, a b 268; (Kaiserwerth), XIII, b 834
- *Fliegende Holländer*, opera (Wagner), XXIV, *b* 334, b 336
- Fliegner, engineer (Hydromechanics), XII, b 505
- Flier, instrument (Yarn), XXIV, b 766
- Flies. See Fly
- Flies, fishing (Angling), II, b 40. See Fly fishing; (Kite), XIV, a 106
- ——, stage (Theatre), XXIII, a 244
- FLIGHT, FLYING MACHINES (Ill.), IX, b 268-84
  - air and water media, b 269-70
  - area of wing, a 276-7
  - artificial flight, a 277-81
  - attractiveness of, b 268
  - balloon, irrelevancy of, b 269-70
  - Borelli's bird, a b 278
  - compound rotation, b 273-4
  - conditions of problem, a 269-71
  - experimenters, recent, a 280-1
  - failure, reasons of, a b 283
  - Henson's machine (Ill.), b 281-2
  - levity considered, b 270-1
  - Marey and Durkheim, b 278-9
  - Moy's steamer, b 283-4
  - natural flight, a 270-8
  - necessary elements of, a 276, b 277
  - Pettigrew's researches, b 271-4; wing, b 279-80
  - plan of discussion, b 268-9
  - rapidity of motion, b 274-5
  - screws, aërial, b 279-81
  - Stringfellow's machine, b 282-3
  - surface, resistance, a b 271
  - trajectory, wing, a b 277
  - twisted leverage of wings, b 272-3
  - vibratory sweep, b 273-4
  - weight of body, b 275
  - Wenham's machine, b 282
  - wing movements, natural, b 271-8
  - wings, artificial, a 278-9
- —— (Aëronautics), I, b 167, *a* b 168
- ——, snare (Angling) (Ill.), II, a 31, a 32
- —— of the earls (Ireland), XIII, a 272
- FLINCK, Govert, painter, IX, a b 284
- FLINDERS, Matthew explorer, IX, b 284-5; (Australia), III, b 90; (Geography), X, *a* 170
- —— range, (South Australia), XXII, b 297, a 299; (Queensland), XX, *a* 178, a 181

FLINT, mineral, IX, a b 285; (Mineralogy), XVI, b 393, a 394, a b 405
FLINT, county, IX, b 285–7; (Coal-Field), VI, a 50; town, IX, b 286
—— river (Georgia), X, a 391
——, Paul (Plate), XIX, a 195
FLINT, Timothy, writer, IX, a b 287
Flint-glass (Glass), X, b 581, a 583, b 584, a b 591; (Optics), XVII, b 824, a 825; furnace (Glass) (Plate VI) (Ill.), X, a b 586; house (Glass) (Plate VI), b 586, a b 591; lenses (Microscope), XVI, b 270, b 272, a b 273; pot (Glass) (Ill.), X, b 585
—— implements (Archæology), II, *a* b 295; lock (Arms and Armor), a 489; (Gunmaking), XI, b 246; stones for (Loire-et-Cher), XIV, a 819
—— rock (Geology), X, b 213; slate, b 212
—— work (Building), IV, b 421
Flitter-mouse (Bat), III, b 372
"Float-gold" (Gold), X, b 660
Floating, art (Swimming), XXII, a b 806
—— bodies (Archimedes), II, *b* 333; equilibrium (Hydromechanics), XII, b 457, a b 460
—— Brick, IV, b 252
—— debt (National Debt), XVII, b 251
—— lights (Lighthouse) (Ill.), XIV, b 635–6
Floats, velocity (Hydromechanics) (Ill.), XII, a 533–4, a b 538
Flock paper (Mural Decoration), XVII, b 45
Flodden, battle of, 1513 (Douglas), VII, a 326; (James IV.) XIII, a 567; (Newbury), XVII, a 385; (Scotland), XXI, a 519
FLODOARD, chronicler, IX, b 277
Floe-ice (Geology), X, a 252, a 254; (Polar Regions), XIX, a b 340
Floe-men Sagas (Iceland), XII, a 660
Floe-rat (Seal), XXI, a 608
Flong, papier-mâché (Typography), XXIII, a b 748
Flood. See DELUGE.
FLOOD, Henry, orator, IX, b 287–8; (Grattan), XI, a *b* 55, a 56
—— of Arem (Arabia), II, a 223
—— and ebb defined (Tides), XXIII, b 375–6
—— discharge (Hydromechanics), XII, a b 530
Flooding the desert (Sahara), XXI, b 159
Flood-plains (Geology), X, a 246
—— rock, New York harbor (Tunnelling), XXIII, b 662
Floods (Burton on Trent), IV, b 509; (Dniester), VII, b 266; (Don), a 309; (Ecuador), *b* 560; (Europe), VIII, a b 601; (Grenoble), XI, a 166; (Japan), XIII, b 581; (Jaunpur), a 610; (Loire, River), XIV, *a* 816; (Maggiore), XV, b 199; (Niger), XVII, a 510, a 511; (Ohio), a 757, note; (Orissa), a b 869; (Po), XIX, a 264; (River Engineering), XX, b 586–8; (Toulouse), XXIII, a 515; transporting power of (Geology), X, b 243-4; warnings of (River Engineering), XX, b 590
FLOOR CLOTH, IX, a 288–9; (Kirkcaldy), XIV, b 98; (Linoleum), XIV, a 682–3
Flooring for malt (Brewing), IV, b 239–40
Floors (Building) (Plates XXIV, XXV) (Ill.), IV, b 404, *a* b 407, a 431–3; laying (Building), a b 441; sloping (Theatre), XXIII. b 243, note; for vessels (Shipbuilding), XXI, a 857
Floor-tiles (Ill.), XXIII, a b 416
FLOR, Roger di, adventurer, IX, a b 289
FLORA, goddess, IX, b 289; (May), XV, b 654
——, asteroid (Astronomy), II, a 706; (Parallax), XVIII, a 254
——, botanical (Afghânistân), I, b 208; (Africa), a b 231; (Algeria), b 496–7; (Alps), a 555–6, a 558–9; (America), a 601–2
—— (Andaman Islands), II, b 13; (Appalachian Mountains), a 176; (Arabia), a b 206–7, a 209; (Asia), a 605–7; (Asia Minor), a b 620
—— (Australia), III, a b 96; (Austria), a 102; (Azores), a b 148; (Babylonia), b 159; (Bahamas), a 204; (Bermudas), b 517; (Bhután), a 546
—— (Bombay), IV, a 21; (Borneo), b 51; (Brazil), a b 203–4; (Burmah), b 492; (California), b 623–4; (Canada), b 682; (Canary Islands), a b 704
—— (Cape Colony), V, b 39–40; (Cape Verd Islands), b 46; (Celebes), a 250; (Ceylon), b 314–5; (Channel Islands), a 340; (Cheshire), b 511; (Chili), a b 541
—— (Cochin China), VI, a 87; (Congo), a b 236; (Coorg), b 302–3; (Corfu), a 351; (Crete), b 504; (Crimea), b 518; (Darfur), a 725
—— (Denmark), VII, a 71; (Distribution), a 249–52; (Durham), a 484; (Ecuador), a b 561; (Edinburgh), a 570, note; (Egypt), b 615–6
—— (Engadine), VIII, b 193; (Europe), b 605–8
—— (Fiji Islands), IX, a b 137; (Florida), b 296, b 297; (Forbes), b 342; (Formosa), b 366; (Friendly Islands), b 684
—— (Galapagos Islands), X, b 17; (Germany), b 404–5; (Ghilan), a 507; (Gibraltar), b 521; (Gloucester), b 614–5; (Gold Coast), b 673
—— (Greece), XI, a 75; (Greenland), b 150, a b 151; (Guatemala), a b 213; (Guiana), b 222, a 224. b 225; (Hainan), a 335; (Hawaiian Islands), b 473–4; (Hayti), a b 486; (Hindu Kush), a 749
—— (Honduras, British), XII, a 137; (Honey), b 139-40; (Hooker), b 156; (Hungary), b 377; (Iceland), a 653; (India), a 771, a 778–9; (Indian Archipelago), a b 856; (Indian Territory), b 874–5
—— (Jamaica), XIII, a b 559; (Japan), a b 584, note; (Java), b 612–13; (Juan Fernandez), b 767, a 768; (Kamchatka), b 841
—— (Kashmír), XIV, a 13; (Keeling Islands), b 28; (Kerguelen's Land), b 50–1; (Khiva), b 66; (Kilimanjâro), b 75; (Labrador), *b* 176; (Ladac), a b 198; (Lebanon), a b 393
—— (Madagascar), XV, b 170, b 176; (Madeira), b 181; (Maine), a 301; (Malay Peninsula), b 324; (Maldive Islands), a b 334; (Malta), b 342; (Manitoba), a b 498; (Maritime Province), b 555; (Mauritius), b 647–8
—— (Mesopotamia), XVI, a 55, b 56; (Mexico), b 225, a 226; (Michaux), a b 237; (Michigan), a 247; (Micronesia), a 268; (Mississippi), b 546; (Montenegro), a 807; (Morocco), a b 859
—— (Natal), XVII, a 247; (Nebraska), a 317; (Nepāl), b 349–50; (New Caledonia), b 385–6; (Newfoundland), a 393; (New Guinea), b 396–7; (New Hampshire), *b* 400; (New Hebrides), b 405; (New South Wales), *a* 419, a b 420; (New York), a 464; (New Zealand), a 482; (Nicaragua), b 491–2; (North Sea), a 578; (Norway), b 594–5; (Nova Zembla), a 620; (Nubia), b 626
—— (Oudh), XVIII, a 75; (Palestine), a b 177, b 182; (Paraguay), b 248; (Patagonia), a b 357; (Pennsylvania), a 513; (Perm), a 561; (Persia), a b 634–5; (Peru), b 683, b 686, a 687; (Philippine Islands), b 764
—— (Poland), XIX, a b 320; (Polar Regions), a 341; (Polynesia), b 432–3, a b 434
—— (Pyrenees), XX, a 132; (Queensland), a b 180; (Ray), b 313-4; (Réunion), a 507; (Rodriguez), b 634
—— (Russia), XXI, a 84–5; (Saghalin), b 155; (Sahara), a b 159; (St. Helena), b 179; (St. Paul), a 199; (Sea), a 606; (Senegambia), b 694; (Siam), a 891
—— (Siberia), XXII, a 11–2, *b* 17, a 18; (Sicily), a b 35–6; (Soudan), b 291; (South Australia), a b 299; (South Carolina), b 301; (Spain), a b 311; (Spitzbergen), a b 424, note; (Sumatra), a b 673; (Sussex), b 761; (Sweden), b 778-9; (Syr-Daria), a 859; (Syria), b 860–1
—— (Tahiti), XXIII, b 28; (Tasmania), a 80; (Texas), a b 222; (Transbaikalia), a b 542; (Transcaspian), a 544, a 545; (Transvaal), b 550–1; (Tula), b 642; (Tunis), a 660; (Turgai), a 668; (Turkestan), a 676–7, b 679; (United States), a 859-63
—— (Ural Mountains), XXIV, b 9; (Uruguay), b 19; (Venezuela), a b 151; (Vermont), b 181; (Victoria), a 234; (Virginia), a 278; (Vologda), b 303; (West Indies), a 540; (Western Australia), a 535; (Westmorland), b 543; (Wyoming), a 749; (Yellowstone National Park), a 774; (Yeniseisk), a 780
Flora Atlantica (Desfontaines), VII, a 112
—— *Braziliensis* (Martius), XV, a 593
—— *Indica* (India), XII, a 779, note
"Flora Temple" (Horse), XII, a b 209
Floral envelope (Botany) (Ill.), IV, b 113
"Floral Games," Toulouse (Academy), I, a 68; (Toulouse), XXIII, b 517
Flore Française (Lamarck), XIV, b 231–2
Floreana, village (Galapagos Islands), X, b 17
FLORENCE, city (Plan), IX, b 289-95
  climate and health, b 289-90
  education, a b 291
  galleries and libraries, a 291
  HISTORY, a 292–5
    Austrian period, b 294–5
    French alliances, b 293–4
    liberation of, modern, a 295
    mediæval period, b 292 3
    Medicean period, a 293–4
    origin to Countess Matilda, a 292
  public buildings, a 290–1
  situation, b 289
  social features, b 291–2
—— (Banking), III, a 273; (Bridges), IV, b 299–300; (Campanile), a 666; (Carnival), V, b 109; (Filelfo), IX, *a* 142; (Guicciardini), XI, a b 227, a b 228; (Gunpowder), b 283; (Hawkwood), b 478–9; (Italy), XIII, b 464, a 475, b 484, a b 485, a 486, a b 487, b 488, b 489-90, a b 491, a b 492, b 498, a 501, a b 508, a 511, a b 515, a b 517, b 518; (Libraries), XIV, a 529, *a* 530, a 550; (Medici), XV, a 794–804; (Milton), XVI, a 339; (Numismatics), XVII, a 673, *b* 675; (Observatory), a 734; (Pisa), XIX, *a* *b* 129, *a* b 130; (Rome), XX, a b 820; (Savonarola), XXI, b 349, a b 350, *a* b 351, a b 352, a b 353, b 354; (Siena), XXII, a b 45, b 46-7, b 48; (Universities), XXIII, b 891, b 892 3; Baptistery (Ghiberti), X, a *b* 506; Guardamorto at (Pisano), XIX, b 133

Florence, history of (Adriani), I, b 151; *History of* (Poggio), XIX, b 286. See GUICCIARDINI, History
Florence, Massachusetts, town (Northampton), XVII, b 571
FLORENCE of Worcester, chronicler, IX, a 295
"Florensis Ordo" (Joachim), XIII, b 705
Florent et Lyon (Romance), XX, b 669
Florentine Academy, I, a b 68, b 69; (Medicine), XV, a 818; (Plato), XIX, a 223
—— architecture (Agnolo), I, b 253; (Rome), XX, b 857-8. See Cathedral of Florence
—— art (Bellini), III, b 471; (Botticelli), IV, b 150-1; (Donatello), VII, b 310; (Fiesoli), IX, a 130; (Gaddi), X, *b* 6, *a* 7; (Giotto), b 541, *a* 545; (Glass), a 597-8; (Metal Work), XVI, a b 81, a 82; (Michel Angelo), b 237-9, a 241-2; (Mino di Giovanni), b 500; (Mosaics), b 880, a 881; (Italy), XIII, b 464; (Mural Decoration), XVII, b 43; (Orcagna), a b 838-9; (Pottery), XIX, a b 647, a b 656; (Raphael), XX, *b* 287; (Schools of Painting), XXI, b 452-3, a b 462, a 465, a b 467; (Sculpture) (Ill.), b 594, a *b* 595 (Spinello), XXII, b 414; (Terra-Cotta), XXIII, b 211-2; (Vasari), XXIV, b 102; (Verrochio), a 190
—— Diamond (Ill.), VII, a 144
—— nobility (Nobility), XVII, a 542
Florentino, Nicolas, painter (Salamanca), XXI, b 213, a 214
Florentinorum Gesta (Villani), XXIV, *b* 245
Florentius of Utrecht (Groot), XI, a b 185
Flores, island (Azores), III, b 147, a 148, b 149
——, island (Indian Archipelago), XII, a b 855, note
——, town (Guatemala), XI, a 212
——, Juan José, president (Ecuador), VII, *a* 563
Flores de Don Juan, play (Vega Carpio), XXIV, b 135
Flores Historiarum (Matthew of Paris), XV, b 640; (Roger of Wendover), XX, b 636
FLOREZ, Enrique, historian, IX, b 295
Floriacensis, Abbo (Abbon), I, b 27
FLORIAN, saint, IX, b 295
FLORIAN, Jean Pierre Claris de, poet, IX, b 295-6; (Pastoral), XVIII, a 353
Florian, Child of the Desert (Romance), XX, *b* 673-4
Floricans, birds (Bustard), IV, a 516
Florida, cape, IX, a 296
——, island (Solomon Islands), XXII, b 265, note
"Florida," privateer (United States), XXIII, b 826
FLORIDA, state (Plate II), IX, a 296-9
  climate, a 297
  geography of, a b 296
  history, a 298-9
  products, a b 297
  social organization, b 297-8
  surface, b 296
  towns and harbors, b 296-7
  traffic, b 297
—— (De Soto), VII, a b 114; (Hakluyt), XI, b 338; (Jackson, A.), XIII, b 543; (Narvaez), XVII, a 241; (Orange), a 835; (Universities), XXIII, a 913, a b 953; statistics (United States), b 853, a b 855, *a* b 856, b 857, a 858, a b 860, b 870, b 873, *a* 878; territory (United States), a 783, a 793, b 811, b 815; ceded to England (Charles III.), V, b 363; (Monroe), XVI, *b* 787; history (United States), XXIII, *a* 817, a 818, b 821, b 832, a 833, a 841
FLORIDA-BLANCA, José Moniño y Redondo, Count of, IX, a 299; (Moratin), XVI, b 835; (Spain), XXII, *b* 354, b 355, *a b* 356
Florida Channel, currents of (Atlantic Ocean), III, *b* 18, b 24
—— Indians (America), I, a 606
—— Keys, IX, a b 296; (Key West), XIV, b 57;
—— Reef, IX, a 296
——, West (Mississippi), XVI, a-b 547
Florideæ, order (Biology), III, a b 594, b 600; (Botany), IV, b 144, a 145; (Reproduction), XX, a 437, *a* 438, a 442, b 443; (Vegetable Kingdom), XXIV, b 138
Florido, mathematician. See Fiore, Antonio del
Floridor, Josias de Soulas, actor (Racine), XX, a 213
Florimont, poem (Romance), XX, b 656-7
Florin, coin (Bowring), IV, b 164; (Mint), XVI, b 505, a 506; German (Money), XVI, a 754
Florinus, Epistle to (Polycarp), XIX, *a* 428
FLORIO, Giovanni, translator, IX, a b 299; (Shakespeare), XXI, *b* 792-3
Floris I.-V., counts (Holland), XII, a b 74
FLORIS, Frans, painter, IX, b 299
Florisel de Niquea (Romance), XX, a 672
"Florizel" (Horse), XII, b 188
FLORUS, historian, IX, b 299-300
——, Gessius, procurator (Israel), XIII, a 437
Floscularia, genus (Rotifera) (Ill.), XXI, a b 8, a 9, a 12
Flos-ferri, mineral (Mineralogy), XVI, b 414
FLOTSAM, IX, a 300; jetsam or witsam (Cinque Ports), V, b 687
Flouhow, town (Gold Coast), X, b 672
FLOUNDER, fish, IX, a 300; (Ichthyology), XII, b 730
FLOUR, manufacture of (Ill.), IX, a 300-4
  disintegrator, a b 303
  flat-milling, b 301-2
  grain, a b 300
  Hungarian system, b 302
  mills, a b 301
  primitive processes, b 300-1
  qualities of, b 303-4
  querns (Ill.), a 301
  roller-mills (Ill.), b 302-3
  trade statistics, a b 304
—— (Adulteration), I, b 155, a 158; (Corn Trade), VI, a b 367; (Hungary), XII, a 384; composition of (Baking), III, a 217; milling (Patents), XVIII, a b 881; production of (Minneapolis), XVI, b 497; (Minnesota), a 499; (Missouri), a b 549; trade (United States), XXIII, a 831
FLOURENS, Gustave, socialist, IX, b 304
FLOURENS, Marie Jean Pierre, physiologist, IX, b 304-5
Flow (Hydromechanics), XII, a 468; of metals (Strength of Materials), XXII, b 629, note; in pipes, calculations of (Hydromechanics), XII, a 513-4; of rivers (Geology), X, a b 242-3; volume of (Hydromechanics), XII, b 481
Flower (Botany) (Ill.), IV, b 107, b 113-34; (Reproduction), XX, a 437; protective organs of (Botany) (Ill.), IV, a 118-21
Flower, William Henry, zoologist (Pigeon), XIX, b 93. See List of Contributors
Flower and the Leaf (Chaucer), V, b 390, a 391
Flower-de-Luce or iris. See FLEUR DE LIS
Flower-farming (Perfumery), XVIII, b 537-8
—— garden calendar (Horticulture), XII, b 303-8
Flowering-glume (Grasses) (Ill.), XI, *b* 49, a *b* 50, *a* 51; plants (Botany), IV, b 81-2; cells of (Botany), b 73
Flower-peckers, Dicæidæ (Birds), III, a 641
—— -pruning (Horticulture), XII, a b 250
Flowers (Camellia), IV, a b 652; (Grasses) (Ill.), XI, *a b* 49, *a b* 50, *a* 51; (Horticulture), XII, b 253-76; (Louisiana), XV, b 22; (Malta), b 342; (Muscineæ) (Ill.), XVII, *b* 78; Palm (Ill.), XVIII, b 194; color of (Herbarium), XI, b 640, a 641; double (Horticulture), XII, b 219; formation of (Horticulture), a 219; in Japanese art, XIII, a 599, a 600, a b 601; preservation of cut (Horticulture), XII, b 216
FLOWERS, artificial, IX, a 305
Flowers of the Forest (Cockburn, Mrs. A.), VI, b 99, note
—— *of Helicon* (Humerus), XII, b 370
—— *of Nature* (Holland), XII, b 93
—— of Sulphur, XXII, b 668; (Gunpowder), XI, a 286, b 289
FLOYER, Sir John, physician, IX, b 305; (Hydropathy), XII, a 575
——, F. A., traveller (Persia), XVIII, b 630, a 633
Fluavil, resin (Gutta Percha), XI, b 302
Fluctuating functions (Hamilton, Sir W. R.), XI, b 377
FLUDD, Robert, philosopher, IX, b 305; (Astrology), II, b 649; (Thermometer), XXIII, b 308
Flüe, Nicholas von der, or Bruder Klaus, hermit, (Switzerland), XXII, a 827; (Unterwalden), XXIII, b 915
Flued saddle boilers (Horticulture) (Ill.), XII, a 234-5
Fluellite (Mineralogy), XVI, b 399
Flues, Lancashire boiler (Steam Engine), XXII, b 518
FLUGEL, Gustav Lebrecht, orientalist, IX, a 306; (Al-Kindi), I, a b 509; (Hajji Khalfa), XI, b 337-8
FLUGEL, Johann Gottfried, lexicographer, IX, a 306
Fluidic dynamism (Homœopathy), XII, a 131
Fluids (Aggregation), I, b 251; (Constitution of Bodies), VI, b 276-8; (Dalton), b 691; (Elasticity), VII, b 690, a b 695, b 697, b 703, b 705, a b 706, *a* b 707; compressible, flow in pipes (Hydromechanics), XII, a 515-7; compressible, steady flow of (Hydromechanics), b 503-5; compression and dilatation in (Wave), XXIV, a b 440; density of (Hydrometer), XII, a 568 *sq.*; differential action of (Magnetism), XV, b 265-6; equilibrium of (Hydromechanics), XII, a 456-62; mixture of (Diffusion), VII, b 186-92; motion of (Atom), III, a 39; (Hydromechanics), XII, a 462-78, a b 479, a 481-549; (Mechanics), XV, b 761, b 783; perfect (Shipbuilding), XXI, b 848-9; properties of (Hydromechanics), XII, *b* 454-6, a 478-9; thermal capacity of (Heat), XI, b 510-11
Fluid working substance (Steam-Engine), XXII, a b 497
Flukes, worm (Trematoda), XXIII, b 568-75
Flumes (Hydromechanics), XII, b 520
Fluoboric acid (Chemistry), V, b 450-1
Fluocerine (Mineralogy), XVI, a 399
Fluocerite (Mineralogy), XVI, a 399

Fluorescence (Fluor Spar), IX, b 306; (Light), XIV, b 583, a 590, a 607-8; (Mineralogy), XVI, b 390; (Radiation), XX, b 220, a 224; (Wave), XXIV, a 440
Fluorescin, dye. See Eosin
Fluoric acid gas (Poisons), XIX, a 291
Fluoride, boron (Chemistry), V, *b* 451
—— of calcium (Glass), X, b 592; (Lime), XIV, b 654
Fluorides (Chemistry), V, b 414; arsenic group (Chemistry), a 469; in puddling (Iron), XIII, a 329; silicon (Chemistry), V, *a* b 452, a 454; tin group (Chemistry), a 467
FLUORINE, IX, a b 306; (Mineralogy), XVI, a 395
—— compounds (Chemistry), V, b 424-7; (Mineralogy), XVI, a b 399
Fluorite, mineral (Fluor Spar), IX, b 306; (Mineralogy) (Ill.), XVI, a 359, b 360, b 363, a 364, *a* 365, b 387, a 391, a 394, a 399
FLUOR SPAR, IX, b 306; (Elasticity), VII, a 698; (Geology), X, a 204; (Metallurgy), XVI, a 67; (Mineralogy) (Ill.), b 378, a 382, b 384, a 386, b 387, b 390, a 391, a 393, a 394, a 399; (Mining), a 489; decomposition of (Scheele), XXI, b 404
FLUSHING, Holland, town, IX, b 306-7; (Picton), XIX, a 90
FLUSHING, village, IX, a 307; (Long Island), XIV, b 876, *a* 877
Flushing of sewers (Sewerage), XXI, b 748-9
Flustraceæ, order (Polyzoa), XIX, a 443
FLUTE, IX, a 307; (Mimnermus), XVI, a b 357; (Oboe), XVII, b 726-7; (Olympus), b 792; nose (Tahiti), XXIII, b 23
FLUTE, Transverse or German (Ill.), XXIII, a 552-4
—— -stop (Organ), XVII, *a b* 855, b 856, a *b* 857
Fluves, transport vessels (Navy), XVII, b 288-9
Fluxes (Blowpipe), III, b 728, a 729; (Brick), IV, b 219; (Copper), VI, a *b* 312; (Cream of Tartar), b 492; (Cryolite), b 590; (Fluor Spar), IX, b 306; (Iron), XIII, b 298, b 302, a 303-4; (Metallurgy), XVI, a 67
Fluxions (Atom), III, b 34; (Maclaurin), XV, b 162, a 163; (Mechanics), XV, a b 687; (Newton), XVII, b 450, a 458, b 459 note; methods of (Infinitesimal Calculus), XIII, a b 10, a 12
——, *Method of* (Saunderson), XXI, a 333; *Treatise on* (Maclaurin), XV, b 162-3
Fly, insect (Africa), I, a 233; (Diptera), VII, b 222; (Flight) (Ill.), IX, a b 271, b 274; (House-Fly), XII, b 330-1; (Insects), XIII, b 148, a 157, a b 158; (Mimicry), XVI, b 354; phosphorescent (Cuba), VI, a 602. See May-Fly, Saw-Fly, Turnip-Fly, etc
——, river (Frisians), IX, a b 692
——, river (New Guinea), XVII, a 396, b 397
Fly-belts in South Africa (Tsetse), XXIII, b 639
FLY-CATCHER, bird, IX, b 307-8; (Birds), III, a 642, b 643, *a* 655, b 669
Flyer in printing-press (Typography), XXIII, b 752
Fly fishing (Angling), II, b 33-7
Flying. See FLIGHT
"Flying Childers" (Horse), XII, *a b* 187, b 204
Flying Dutchman, legend (Jew, Wandering), XIII, a 685
——, opera. See *Fliegende Holländer*
FLYING FISH (Ill.), IX, a 308-9; (Flight) (Ill.), a 270; (Ichthyology), XII, b 720, a 732
FLYING FOX, bat, IX, a 309; (Java), XIII, b 613; (Mammalia), XV, b 413-4
—— machine (Aëronautics), I, b 182-3. See FLIGHT
Flying Post (Newspapers), XVII, b 425-6
Flying-Squirrel, XXII, b 455
Fly-making (Angling), II, a b 37, b 40-1
—— -shuttle (Cotton), VI, b 434
—— -wheels, (Mechanics), XV, a 780; Corliss's (Steam-Engine), XXII, a 539, a 540; use of (Steam-Engine), a 534, a b 536
Foca, island (Peru), XVIII, b 684
Focal depth (Microscope), XVI, *b* 279, a 280; length of lenses (Optics), XVII, a b 826, b 827-8; (Magic Lantern), XV, a 213; lengths, extraordinary (Telescopes), XXIII, a b 148; lines (Optics), XVII, b 822-3; (Wave Theory), XXIV, b 446-7, b 459-60; surface of the congruence (Surface), XXII, a 705
Focha, town (Herzegovina), XI, a 693
Focheu, town of China (Bridges), IV, b 299
Foci (Conic Sections), VI, a 242; (Curve), b 639-40; conjugate and principal (Light), XIV, a b 592-3; of involution (Geometry), X, b 360, b 362-3
Focke, W. O., botanist (Hybridism), XII, a b 442
Focquenbroch, William van, comedian (Holland), XII, a 99
Fodder (Afghânistân), I, a 209; (Agriculture), b 290, b 321, a 325; (Silo), XXII, b 73-4; (Wheat), XXIV, a 564. See Forage
Fodéré, François Emanuel, physician (Medical Jurisprudence), XV, b 793
Fodheil Abu 'Alí Zalíkhání, dervish (Penance), XVIII, b 495
Fœdera, Conventiones, Litteræ (Rymer), XXI, *b* 127-8
Fœlanus, St., legend of (Liturgy), XIV, b 716
Foersch, liar (Upas), XXIII, a 916
Foersom, Peter Thun, dramatist (Denmark), VII, a 82
Fœtus (Anatomy), I, b 747, b 748, a 750, a 751, a 758, a 760, b 778, b 779, b 781, b 797, b 798; (Embryology), VIII, a 150; (Mammalia), XV, b 371-2; (Respiration), XX, b 494; bone formation in (Pathology), XVIII, a 377, a b 378; in rickets (Pathology), b 380, a 381; circulation (Vascular System), XXIV, a b 119; development (Metamorphosis), XVI, b 85; heart (Anatomy), I, b 790; nourishment (Pathology), XVIII, a b 381; syphilis in (Surgery), XXII, a 722; teeth (Digestive Organs) (Ill.), VII, b 204-5
—— in fœtu (Monster), XVI, a b 792
Fog (Geology), X, b 195; (Meteorology), XVI, b 131, b 132; (Norway), XVII, a 594; London, XIV, b 836; (Smoke Abatement), XXII, a 190
FOGARAS, town, IX, a 309; mountains (Hungary), XII, b 375
Fog-bows (Halo), XI, *b* 356
Fog-eaters (Halo), XI, *b* 356
Foged, officer (Norway), XVII, b 597
FOGELBERG, Benedict Erland, sculptor, IX, a b 309
FOGGIA, city, IX, b 309; province (Capitanata), V, b 65
——, Nicolaus di Bartolomeo di, sculptor (Sculpture), XXI, a 594
Fogo, island (Cape Verd Islands), V, b 46, a b 47-8
Föhn or Fön, wind (Glarus), X, a 567; (Greenland), XI, *b* 150; (Sahara), XXI, a 159; (Switzerland), XXII, a 816
Föhr island (Schleswig-Holstein), XXI, a 432
FOIL, sheet-copper, IX, b 309
——, weapon (Fencing), IX, b 61
FOIX, town, IX, b 309-10
FOIX, counts of, IX, a b 310; (Andorre), II, a b 18
——, Gaston de, duc de Nemours (Bayard), III, b 395; (Ravenna), XX, a 310
——, Gaston Phœbus, count of (Froissart), IX, a b 703
FOIX, Paul de, prelate IX, b 310
Fokien, strait of (Formosa), IX, a 366
FOKSHAN, town, IX, b 310
Fo-Kwe-Ki (Hwen T'sang), XII, a 434, a 435
Fol, Herman, anatomist (Reproduction), XX, b 428, *a* 430, note; (Tunicata), XXIII, b 647, a 654, b 658
FOLARD, Jean Charles de, writer, IX, b 310-11
Folc-land. See Folk-land
Földi, John, naturalist (Hungary), XII, a 392
Folding machine (Bookbinding), IV, b 39
—— paper (Stationery), XXII, a 478
—— sheep (Agriculture), I, a 318, b 350
FOLDVÁR, town, IX, a 311
Foledo, geographer (Guatemala), XI, a *b* 213, b 214
FOLENGO, Teofilo, poet IX, a 311
FOLEY, John Henry, sculptor, IX, b 311; (Dublin, city), VII, b 428, b 432
Folgefon mountains (Norway), XVII, *b* 592
Foliaceous thallus (Lichens), XIV, a b 555
Foliage, autumnal (Botany), IV, a 107; leaves (Botany), b 98
Foliated enrichment, Greek (Architecture), II, b 358
—— joints (Geology), X, a 264; rock (Geology), a *b* 279-80
Folie circulaire (Insanity), XIII, b 115; raisonnante (Insanity), a b 113
FOLIGNO, town, IX, a 312
——, Matteo de, painter (Gualdo Tadino), XI, b 205
——, Nicolo da, painter (Gualdo Tadino), XI, b 205
Foliola or sepals (Botany), IV, b 118
Foliot, Gilbert, bishop (À Becket), I, b 36
Folium of Descartes (Infinitesimal Calculus), XIII, a 56
Folk-books (Pamphlets), XVIII, b 288
FOLKES, Martin, antiquary, IX, a 312
FOLKESTONE, town, IX, a b 312; (London), XIV, a b 839
FOLK-LAND, law-term, IX, b 312; (England), VIII, b 248-9, b 264, b 268
Folk-Legends and Folk-Tales, Hungarian (Tompa), XXIII, b 465
FOLK-LORE, IX, b 312-14; (Apparitions), II, b 177, a 178, b 179; (Cat), V, b 179; (Dahl), VI, b 672; (Demonology), VII, a 57; (Elder), b 719; (Eskimo), VIII, b 482; (Ethnography), a 548; (Gipsies), X, a b 549; (Grimm), XI, a 178, b 179; (Hottentots), XII, a 326; (Iceland), a 663; (Lapland), XIV, a 307; (Leyden, J.), b 495; (Majláth), XV, a 313; (Mongols), XVI, a b 778; (Northumberland), XVII, a 582; (Pâli), XVIII, b 189; (Riddles), XX, a 564; (Robin Hood), a 622; (Rosemary), b 874; (Russia), XXI, a b 111, a b 112, a b 118; (Persia), XVIII, b 672-3; (Sisyphus), XXII, *a* 110; (Syriac Literature), b 894-5; (Theseus), XXIII, a 316; (Whirlpool), XXIV, b 572; treatises on Shakespeare's, XXI, a 806. See FABLES, Legends, MYTHOLOGY, ROMANCE, TALES
Folk song (Afzelius), I, b 244; (Ballads), III, b 244-6; (Holland), XII, b 93; (Hungary), b 392, *b* 393, note; (Norway), XVII, b 605, a b 606; (Poland), XIX, b 315; (Sweden), XXII, a 792. See BALLADS
Folkmote, legislature (London), XIV, a 828
Folksthing, diet (Denmark), VII, *a* 72

Folkungar, dynasty (Sweden), XXII, a 784
FOLLEN, August Ludwig, poet, IX, a 314
FOLLEN, Charles, professor, IX, b 314
——, Eliza Lee, authoress (Follen, C.), IX, b 314
FOLLETT, Sir William Webb, lawyer, IX, b 314–5
Follicle of fruit (Botany) (Ill.), IV, b 137
Follieran, mountain (Freiburg), IX, b 670
Follis, coin (Numismatics), XVII, a 671
Follower in Mechanics, XV, *b* 763
Folquet of Marseilles, troubadour (Provençal Literature), XIX, *b* 899, *a* 900
Fol's yellow, dye (Carbolic Acid), V, b 76
Folz, Hans, playwright (Germany), X, a 471
Fomentations (Hydropathy), XII, a 577; (Veterinary Science), XXIV, a 218
Fomorians, race (Celtic (Literature), V, a 260, a 261, a 269; (Ireland), XIII, a b 249
FONBLANQUE, Albany William, editor, IX, a 315–6
——, John Samuel Martin, lawyer, IX, a 315
Fondaco dei Tedeschi of Venice, palace (Giorgione), X, b 542; (Venice), XXIV, b 162, note, a b 167, a 169
Fondants, comfit (Confectionary), VI, b 228
FOND DU LAC, city, IX, a 316
FONDI, town, IX, a 316
Fondo, Lago de (Hayti), XI, a 486
—— pel Culto, fund (Italy), XIII, b 469, a b 470
Fons or Brünnen, Johannes, grammarian (Typography), XXIII, *a* 731, a 734
Fons Vitæ or *Sapientiæ* (Arabian Philosophy), II, b 235, b 236; (Avicebron), III, *b* 132
Fonseca, bay (Honduras), XII, a b 133
FONT, IX, a 316–7; (Architecture), II, a 408; (Baptistery), III, a 304
—— of type (Typography), XXIII, a b 742
Fontaine, Jean de la, fabulist. See LA FONTAINE
FONTAINE, Pierre François Léonard, architect, IX, b 317
FONTAINEBLEAU, town, IX, b 317–8; (Abati), I, a 13; conference, 1599 (Casaubon), V, a 151; (Seine-et-Marne), XXI, b 655, *a* 656; treaty of, 1807 (John VI., Portugal), XIII, a 726
Fontana, Benedict, soldier (Switzerland), XXII, b 827
——, Carlo, architect (Rome), XX, b 858
FONTANA, Domenico, architect, IX, a 318; (Architecture), II, a 384
——, Felice, physicist (Micrometer), XVI, b 251; (Rittenhouse), XX, a 585
FONTANA, Lavinia, painter, IX, a 318
——, Niccoló. See TARTAGLIA
FONTANA, Prospero, painter, IX, b 318
FONTANES, Louis, Marquis de, poet, IX, b 318–9
Fontaria, insects (Myriapoda), XVII, a 125
Fontenai or Fontanet, battle of, 841 (Charles I.), V, b 354; (France), IX, a b 471
——, Lefèvre de, editor (Newspapers), XVII, a 435
Fontenay, Theresa Cabarrus, comtesse de (Tallien), XXIII, a 38
FONTENAY-LE-COMTE, town, IX, a 319; monastery (Rabelais), XX, *b* 200
FONTENELLE, Bernard le Bovier de, writer, IX, a 319–20; (Corneille), VI, a 371, *a* 373; (Descartes), VII, b 110; (France), IX, b 584; (Marivaux), XV, a 558; (Racine), XX, b 213, a 215
Fontenoy, battle of, 1745 (Cumberland, Duke), VI, a 623; (Ferguson, A.), IX, a 76; (France), b 516; (Saxe), XXI, a 362
FONTEVRAULT or Fontevraud, town, IX, a 320
——, order of (Monachism), XVI, a 735, a 742
Fonthill abbey (Wyatt), XXIV, a 741
Fontinalis, mosses (Muscineæ), XVII, a 77, a 81
Foo-chow. See FUH-CHOW
Food (Algæ), I, a 449; (Ants), II, b 85, a 86, b 87, b 88; (Bamboo), III, a 264; (Buddhism), IV, b 389; (Dietetics), VII, a 174–85; (Echinodermata), b 546, a 555; (Ethnography), VIII, b 541–2; (Ferns), IX, a 90; (Fig), a b 135; (Gelatin), X, b 117, a b 118–9; (Gluten), b 620; (Goat), b 633; (Hops), XII, a 160; (Hottentots), a 324; (Ireland), XIII, a 263; (Insects), b 148; (Italy), a b 465; (Lichens), XIV, a 563; (Louse), XV, b 26; (Madagascar), a 171; (Milk), XVI, b 315; (New Caledonia), XVII, a 386; (New Guinea), b 398; (Oils), *a b* 767; (Pine), XIX, b 112, a b 144; (Polynesia), a 433, a 434; (Puffin), XX, a 107; (Rabbits), a 200; (Seaman), XXI, b 636; (Tree-Fern), XXIII, b 568. See PRESERVED FOODS
——, absorption of into blood (Nutrition), XVII, a b 697; alimentary decomposition of (Nutrition), b 695–7; of carnivora (Mammalia), XV, a 439; chemistry of (Leibig), XIV, a 571; consumption of (Paris), XVIII, a b 290; forbidden (Sacrifice), XXI, a b 143; force development of (Cheese), V, b 395; of lepidoptera (Butterflies), IV, a 529; poisonous (Medical Jurisprudence), XV, a 792–3; and population, Malthus on (Political Economy), XIX, a 385–6
Food-fishes, culture of (Smithsonian), XXII, a 916. See PISCICULTURE
Food Laws (Adulteration), I, b 152
—— of plants (Physiology), XIX, a 55–6
—— products (Patents), XVIII, a b 881
—— supply (Government), XI, b 18
—— taboos, XXIII, a 20–3; (Totemism), b 498
—— -vessels (Pottery and Porcelain) (Ill.), XIX, b 619
FOOL, jester, IX, a 320–1
Fool of Quality (Brooke, H.), IV, a 333
Fool's day (April), II, a 187
Foo-new Shan Mountains (China), V, b 547–8, *b* 551, a 554
Foot (Weights and Measures), XXIV, *b* 508, a 511, *a* 512, a 517; Greek (Olympia), XVII, a 790
—— (Anatomy), I, b 727, a b 738; (Ape), II, a b 130, b 137, a 141, a b 143, a b 144; (Horse) (Ill.), XII, a b 178, b 179–80, b 181–2, a b 198, b 199; (Kangaroo), (Ill.), XIII, b 848, a b 850; (Mammalia) (Ill.), XV, a b 363; (Mollusca) (Ill.), XVI, a b 688, a b 689; (Swift), XXII, a 799
—— of Anodon (Mollusca), XVI, b 713; bloodvessels of (Anatomy), I, a 795, a 796; bones of (Birds), III, b 626–7; bones of (Skeleton), XXII, *a* 125, a b 126; Cephalopoda (Mollusca), XVI, a 689; Limpet (Mollusca) (Ill.), a 669; Lamellibranchia (Mollusca), a 710; of mystacina (Mammalia) (Ill.), XV, b 418; Nautilus (Mollusca), XVI, b 697, b 700; planta of bird's (Ornithology), XVIII, b 33, a b 34, a 35, b 41; Scaphopoda (Mollusca) (Ill.), XVI, a b 688
——, Jesse, physician (Hunter, J.), XII, a 401, b 405
FOOTBALL, IX, a b 321
Foot and mouth disease (Murrain), XVII, b 66, a b 67; (Veterinary Science), XXIV, a *b* 216
Foote, Andrew Hull, admiral, *b.* 1806, *d.* 1863 (Grant), XXIII, b 873
——, Henry Stuart, senator, *b.* 1800, *d.* 1880 (Webster), XXIV, a 499
——, Lucinda, prodigy (Women), XXIV, b 910, note
FOOTE, Samuel, dramatist, IX, b 321–4
  - action of plays, b 323
  - bibliographical, b 324
  - dramatic works of, b 323–4
  - Drury Lane theatre, a 322
  - family and youth, b 321–2
  - Haymarket theatre, a 322–3
  - law experience, a 322
  - libels Duchess of Kingston, a b 323
  - mimicry of, b 322–3
  - social relations, a 323

—— (Drama), VII, b 378
Foot-guard brigade, English (Army), II, b 504, a 508
Footings, wall (Building), IV, a b 405, b 408, a 421
Foot-pound (Energy), VIII, a 187; (Horse-Power), XII, a b 211; (Mechanics), XV, b 707
Foot-race (Games), X, *a* b 58
Footways (Roads and Streets), XX, b 603–4
FOPPA, Vincenzo, painter, IX, b 324; (Schools of Painting), XXI, a 456, a 463
Forage (Maize), XV, a 313; crops (Agriculture), I, a b 333–6, a 341; plant (Sainfoin), XXI, b 163. See Fodder
Foraging Ants (Ill.), II, b 86–7
Foramina repugnatoria, species (Myriapoda), XVII, a 125
FORAMINIFERA (Ill.), IX, b 324–41
  - animal forms and functions of, b 325–6
  - arenacea (Ill.), a 328–9
  - classification, b 327–8
  - D'Orbigny and Dujardin, b 324–5
  - Eozoön canadense, b 337–8
  - geographical distribution, b 338–9
  - GEOLOGICAL DISTRIBUTION, a 339–41
    - archæan rocks, a b 339
    - carboniferous limestones, b 339–40
    - chalk formations, a b 340
    - secondary rocks, early, a 340
    - tertiary rocks, b 340–1
  - Lieberkühnia and Gromia (Ill.), b 326–7
  - PORCELLANEA (Ill.), b 329–32
    - growth of, a 331–2
    - types, b 329–31
  - propagation of, b 327
  - protozoa, differentiation from, a b 325
  - serpentine limestone (Ill.), b 336–7
  - VITREA (Ill.), a 332–6
    - globigerinida (Ill.), b 332–4
    - lagenida (Ill.), a b 332
    - nummulinida (Ill.), a 334–6

—— (Animal Kingdom), II, b 45; (Distribution), VII, a 241, a 245, 246; (Pacific Ocean), XVIII, b 125, a 126, a b 127, a b 128, a 129, a 133
FORBACH, town, IX, a b 341
FORBES, Alexander Penrose, bishop, IX, a 341
FORBES, David, chemist, IX, b 341
FORBES, Duncan, jurist, IX, b 341–2; (Chess), V, b 519, *a* b 520, a 521
FORBES, Edward, naturalist, IX, a 342–3; (Dredge), VII, *b* 398; (Echinodermata), a 550, a b 553; (Goodsir), X, *b* 689, a *b* 690; (Morphology), XVI, a b 868; (Sumatra), XXII, a b 673, note
——, H. O., naturalist (Timor), XXIII, *b* 424; (Timor Laut), a 425

FORBES, James David, naturalist, IX, a 343-5; (Agassiz), I, a 247; (Brewster), IV, a 246, a 247; (Encyclopædia), VIII, b 184; (Geology), X, b 199, a 200, b 249; (Glacier), b 559, *a* 560, a b 561, *a* b 562; (Heat), XI, a 517, a b 518; (Mill, James), XVI, b 318; (Shairp), XXI, *b* 772
FORBES, Sir John, physician, IX, b 345; (Dublin), VII, a b 428
——, sergeant-major (Pontoon), XIX, b 471, a 472
——, William Alexander, naturalist (Ornithology), XVIII, a b 43, note, a b 44, a 51; (Orthonyx), b 56; (Trogon), XXIII, a 621
Forbes-Skelater, John, general (Portugal), XIX, b 565
"Forbidden fruit" (Shaddock), XXI, b 763
FORBIN, Claude de, naval commander, IX, b 345-6
——, Louis Nicolas P. A., comte de, painter (Granet), XI, a 43
"Forçats pour la Foi" (Camisards), IV, a 658
Force (Azais), III, b 144; (Bacon, Roger), b 190; (Descartes), VII, a 107; (Dynamics), b 503; (Empedocles), VIII, a 164; (Evolution), a 660; (Kant), XIII, b 856; (Leibnitz), XIV, a 421-2. See Energy, Forces, Kinetics, Thermodynamics, Work
——, action of (Dynamics), VII, b 502, b 503-4; centrifugal (Mechanics), XV, a 684 note; couple and (Magnetism), a 231; definition of (Mechanics), b 683-4, a 755-6; distribution of, in stress (Elasticity), VII, a b 711; electric, general law of, VIII, b 20; electromotive, b 12-13, a b 23, b 38-9, b 71; origin of, a 78-97; matter and (Stoics), XXII, a 592; origin of the idea (Mechanics), XV, a 755; perpendicular (Mechanics), a 708; ponderomotive (Electricity), VIII, a 17; representation of (Mechanics), XV, b 706; waves (Geology), X, a 252, a b 253; (Harbors and Docks), XI, a 409-10
——, Peter, antiquary (Massachusetts,) XV, a 621
—— Act, 1871 (United States), XXIII, b 832
Forced oscillations theory (Tides), XXIII, a 378, b 379, b 380, a 382, a b 387
FORCELLINI, Egidio, philologist, IX, a 346
Force-pumps (Hydromechanics), XII, a 451; (Mining), XVI, b 480
Forces acting on masonry (Harbors and Docks), XI, a b 412; central (Hodograph), XII, a 45; composition of (Mechanics), XV, b 708-9; conservation of (Cartesianism), V, a 129; deflecting (Mechanics), XV, a 778-9; generating (Tides), XXIII, b 378-80, *a* 387-8; of planetary motion (Gravitation), XI, b 66-7; reciprocating (Mechanics), XV, a 778; resolution of (Stevinus), XXII, a 574
——, Divine (Philo), XVIII, a b 775
FORCHHAMMER, Johan Georg, mineralogist, IX, a 346; (Sea Water), XXI, a *b* 641, note, a 642
Forchhammerite (Mineralogy), XVI, b 432
FORCHHEIM, town, IX, a b 346
Forcible entry (Crime), VI, *a* 516
Forcing, apricot (Horticulture), XII, b 279; asparagus (Horticulture), a 290; bean (Horticulture), b 295; carrot (Horticulture), a b 292; cherry (Horticulture), a 280; fig (Horticulture), a 281; grape (Horticulture), a 288; peach (Horticulture), a b 284; potato (Horticulture), b 298-9; radish (Horticulture), a b 299; rhubarb (Horticulture), b 299; seakale (Horticulture), a b 300; strawberry (Horticulture), b 287; tomato (Horticulture), a 301
—— calendar (Horticulture), XII, a 303-6
—— houses (Horticulture) (Ill.), XII, b 222, a 225-7
—— plants (Horticulture), XII, a b 219, a b 253
Ford, Horace A., sportsman (Archery), II, b 326, b 329
FORD, John, dramatist, IX, b 346-8
    criticism of his plays, b 347-8
    dramatic career, a b 347
    elegiac and eulogy period, b 346-7
    plagiarism, b 347
    position, literary, b 348
—— (Dekker), VII, a 35; (Drama), a b 373, a 374
FORD, Richard, traveller, IX, b 348-9
FORD, Thomas, musician, IX, a 349
Fords, obstructing (Fortification), IX, b 385
FORDUN, John of, chronicler, IX, a 349; (Scotland), XXI, a 566
Fore and aft rig (Sail), XXI, a b 161, *a* 163; (Seamanship) (Ill.), b 622, a 623, b 627, b 628, a b 629, a 633
Forecasts, weather. See Weather Predictions
Foreclosure (Mortgage), XVI, b 875
"Forefathers' Rock" (Plymouth), XIX, b 249, a 250
Foreign enlistments (Ireland), XIII, b 273, a 275. See Enlistment
—— exchanges (Money), XVI, a 756 *seq.*
—— languages, acquisition of (Grammar), XI, a b 39
—— patents in the United States (Patents), XVIII, b 875
—— secretary (Ministry), XVI, a 496. See Secretary of State
Foreigners (Germany), X, b 410; (Mexico), XVI, a 900, a 901, a 902; (Turkey), XXIII, a 696; Copyright of, VI, a b 321, a b 324, b 325; (Protection), XIX, *b* 927, b 928, a *b* 930-31, a 932; jus civile rights of (Roman Law), XX, *b* 704; treatment of (Pilgrimage), XIX, b 103 note. See ALIEN and Aliens
Forel, F. A., hydrographer (Lake), XIV, b 218, a b 221
Foremen, schools for (Technical Education), XXIII, b 115-6
Forensic Costume, VI, b 422-3
—— medicine. See MEDICAL JURISPRUDENCE
—— Rhetoric, XX, b 525, a b 526; (Isæus), XIII, b 386, a b 387; (Isocrates), a 399, a b 402
Foreordination, dogma. See PREDESTINATION
Foreshortening in art (Correggio), VI, a b 387; (Mantegna), XV, a 510
Foresite (Mineralogy), XVI, b 441
Forest of Ardennes, II, b 422-3; IX, a 352; (Meuse), XVI, a b 213
——, assize of, 1184 (England), VIII, *b* 276
——, Black. See Black Forest
—— cantons, three (Switzerland), XXII, *a* b 820, *a* b 821, *a* b 822, *a* b 823, a 826, a 828, a 829, *a* 832, a b 833, b 834; (Zwingli), XXIV, a *b* 872, *a* 873
——, Charter of the, V, b 374
—— of Dean (Coal-Fields), VI, b 47, a 48, a 73; (Forests), IX, a 351; (Gloucester), X, *a b* 613, b 614, note, *b* 615
——, Windsor, XXIV, b 633
——, Wyre (Shropshire), XXI, a 887
—— dwellers (Tunguses), XXIII, b 646
—— Law, IX, a 360-1; (Game Laws), X, *b* 56
Forest Minstrel (Howitt), XII, b 338
—— reservations (South Australia), XXII, b 298
—— Ridge (Sussex), XXII, a 761
—— survivals, Warwickshire (Shakespeare), XXI, b 778-9, b 789
Forestalling, speculating (Agriculture), I, a 266; (Corn Laws), VI, b 365
Forester, Frank, sportsman (Herbert, H. W.), XI, a 645
Foresters, order of (Friendly Societies), IX, *a* 687
Forestry (Essex), VIII, b 488-9; (Hartig), XI, b 444; (Kámrúp), XIII, a 843; (Michigan), XVI, b 247; (Prussia), XX, a 18; (Teak), XXIII, b 111, a b 112; early history of (Arboriculture), II, b 275; of North America (Michaux), XVI, b 237; of 16th century (Shakespeare), XXI, b 774-5, b 789-90
FORESTS, IX, b 349-61
    Africa, a b 359
    America, b 356-7
    Asia, a 355-6
FORESTS, *continued*
    Australia, a 358
    Austria, a 353
    books, a 360
    British, b 350-1
    classes and statistics, b 349-50
    conclusions, b 359-60
    definition, b 349
    France, a b 354
    general distribution, b 349
    Germany, a 352-3
    Great Britain, b 350
    Iberian peninsula, a 355
    Italy, b 354-5
    law, English forestry, a 360-1
    Netherlands, a 352
    Roumania, a 354
    Russia, b 353-4
    Scandinavia, a 351-2
    Switzerland, b 354
—— (Africa), I, a 226; (Aisne), a 382; (Alps), *a* 556; America, a b 594; IX, b 356-7; (Australia), III, a b 96; IX, a 358; (Austria), III, b 103; IX, a 353; (Bavaria), III, b 389; (Bombay), IV, a 21; (Burmah), b 492; (California), b 623-4, b 625; (Canada), a 678, a 683-4; (Cape Colony), V, b 39; (Caucasus), b 222, a 223; (Climate), VI, a b 5; (Colombia), a 139; (Colorado), a 146; (Columbia, British), b 152; (Compiègne), a 204; (Corsica), a 389; (Costa Rica), a 398; (Cuba), a 602; (Denmark), VII, a 71; IX, b 351-2; (Distribution), VII, b 233; (Ecuador), *b* 561; (Eubœa), VIII, b 569; Europe, a 607-8; IX, a 350-5; (Famines), a 25; France, a b 354, b 446; (Germany), X, a 352-3, a 405, b 419; (Gloucester), b 614; (Guiana), XI, b 222, a 224; (Hampshire), *b* 384, *a* 385, a 386; (Harz Mountains), *b* 453; (Himalaya), b 742, *a* b 743
—— (Idaho), XII, a b 736; (India), a b 791; (Inverness), XIII, b 205; (Japan), a 584; (Java), b 612-13; (Jura), b 792; (Kentucky), XIV, a b 45; (Kumáun), *a* 156; (Landes), *a* 273; (Lithuanians), b 707; (Madagascar), XV, b 170-1; (Madras), b 185; (Mahrattas), a 293; (Maine), a 301, a 303; (Maritime Province), b 554, a b 555; (Mergui), XVI, b 40; (Mesopotamia), a 55; (Meteorology), a 123; (Meurthe-et-Moselle), b 212-3; (Mexico), b 225-6, b 910; (Middlesex), b 292, b 293; (Minnesota), b 497, a 499; (Minsk), a 501; (Mississippi), b 546; (Montana), b 799; (New Zealand), XVII, a 482; (North Carolina), a b 574; (Oak), b 709, b 711; (Paraguay), XVIII, a b 248; (Perm), a 561; (Persia), a 635; (Poland), XIX, a b 320; (Prince Edward Island), b 759; (Punjab), XX, a 114; (Quebec), a 173

Forests, Russia, XXI, a b 84, a 85, a 89, a 92; IX, b 353-4; Ryazañ, XXI, a 124; (Saghalin), b 155; (Savoie), b 347; (Savoie, Haute), a 348; (Saxony), a 373; (Scotland), b 556; (Seine-et-Marne), a 656; (Selkirk), b 670; (Siberia), XXII, b 11, *a* 12; (Sind), b 93; (South Carolina), b 301; (Spain), b 311; IX, a 355; (Stirling), XXII, b 581; (Sumatra), a b 673; (Sussex), a 761; (Sweden), b 778-9, b 780; IX, a b 351; (Switzerland), XXII, a 818; IX, b 354; (Texas), XXIII, a b 222; (Thuringia), a 353; (Tula), b 642; (Tver), b 714; (United States), a 859-62; (Ural Mountains), XXIV, *a* b 8; (Var), a 76; (Virginia), b 277-8; (Volhynia), *a* 392; (Washington), *a* b 406, a b 407; (West Indies), a 540; (West Virginia), b 546; (Wisconsin), b 650; (Würtemberg), b 735, a b 736; (Yucatan), a 769
——, artificial (Seine Inférieure), XXI, a 657; destruction of (Geology), X, b 256, b 257; (Pennsylvania), XVIII, a 513; (Syra), XXII, a 852; fires in (Birds), III, b 635; (India), XII, a 792; (Teak), XXIII, b 110, b 111; fossil, oldest American (Geology), X, b 306; statistical table of (Europe), VIII, a b 607; submerged (Geology), X, b 228, b 284
Forez, mountains (France), IX, b 445; (Loire), XIV, b 816
——, Jacques de, poet (Romance), XX, a 655
FORFAR, county, IX, a 361-3
FORFAR, borough, IX, a 363
Forfeiture of term (Landlord and Tenant), XIV, b 276
Forfeitures, penalty (Attainder), III, b 46; (Criminal Law), VI, b 520; (Deodand), VII, b 87-8; (Ireland), XIII, a 271, b 272, a b 274; (Treason), XXIII, a 560, note, b 561, note, *b* 562, note, b 563
Forficulidæ, order (Earwig), VII, a 530-1; (Insects), XIII, a 159
FORGE, IX, a 363-4; primitive (Furnace) (Ill.), b 738-9; (Iron), XIII, b 296; puddling (Iron) (Ill.), a 329-34
—— -cinder (Iron), XIII, a 303
—— Coal, VI, a 53
Forge of Vulcan, painting (Velazquez), XXIV, b 145
FORGERY, crime, IX, a b 364; (Diplomatics), VII, a 222; (Trade-Marks), XXIII, b 530; (Summons), XXII, a 677; (Will), XXIV, a 605
—— in art (Luxor), XV, a 90; (Terra-Cotta), XXIII, a 90
——, literary (Ballads), III, b 244; (Chatterton), V, b 386-9; (Creeds), VI, b 497, a 499; (Ingulphus), XIII, b 83; (Ireland, S. W. H.), b 278-9; (Karaites), XIV, b 4; (Mohammedanism), XVI, a 628; (Theophilus), XXIII, a 296-7. See *Decretals, False*
Forges, town (Seine-et-Oise), XXI, b 656
——, Désire de, poet. See PARNY
Forget, C. P., physician (Heart), XI, a 493
Forgetfulness or oblivescence (Psychology), XX, a b 66, a 67, b 69
FORGET-ME-NOT, plant, IX, a b 364; (Botany) (Ill.), IV, b 112, a b 113; (Horticulture), XII, a 259
Forging (Hammer), XI, b 380-1; machines (Forge), IX, a 364; razor (Cutlery), VI, *b* 647, a 648
Fork and grid stop motion (Weaving), XXIV, a 493
FORKEL, Johann Nikolaus, writer, IX, a 365
Forks, tuning (Music), XVII, a b 111
Forlì, province (Rimini), XX, b 574; (States of the Church), XXII, b 477
FORLI, city, IX, a 365; (Morgagni), XVI, a b 848, note; ware (Pottery and Porcelain), XIX, b 645
——, Melozzo da, painter, IX, a b 365
FORLIMPOPOLI, town, IX, b 365
Form, artistic (Poetry), XIX, a b 270; influence of (Magnetism), XV, a b 247; organ of (Phrenology), XVIII, b 859
—— of Concord. See *Formula Concordiæ*
——, printer's (Typography), XXIII, a 746
Forma Urbis Romæ (Rome), XX, a 846, note, b 859 note
Formal categories (Psychology), XX, b 84-5
—— feeling (Psychology), XX, a 74
—— Logic, XIV, a b 805, a b 808, b 810, a b 811
Formalism, metaphysical (Lotze), XV, a 16
FORMAN, Simon, physician, IX, b 365; (Napier, J.), XVII, b 192
Formartin, district (Aberdeenshire), I, b 46
Formation, tactical (War), XXIV, b 386
Formation and Distribution of Wealth (Turgot), XXIII, a b 670
Formentera, island (Balearic Islands), III, a 239, b 240
FORMEY, Johann Heinrich Samuel, writer, IX, b 365-6
FORMIA or Formiæ, town, IX, a 366; (Gaeta), X, *a* 14; (Rome), XX, b 760
Formic acid (Ant), II, b 87; (Chemistry), V, a 481, b 493, *a* 494; (Chloral), V, b 588; (Glycerin), X, b 623; (Hymenoptera), XII, b 607
Formica, genus (Ant) (Ill.), II, a 84-8
Formicidæ, family (Hymenoptera), XII, b 611
FORMOSA, island, IX, a 366-7
  Chinese portion, a b 367
  geography and climate, a b 366
  history, b 367
  inhabitants, a 367
  productions, b 366-7
  works on, a 368
—— (Asia), II, a 601, b 612; (Birds), III, a 661; (Camphor), IV, a 672; (China), V, a b 553, b 564, a b 565; (Ichthyology), XII, a 710, a 712; (Japan), XIII, b 594; (Psalmanazar), XX, b 33; mountaineers of (Totemism), XXIII, b 497
Formosan Dictionaries, VII, b 166
FORMOSUS, pope, IX, a 368; (John VIII. and IX., Popes), XIII, b 721; (Roman Catholic Church), XX, b 644
Forms, theory of (Numbers), XVII, b 634-6
Formula Concordiæ (Chemnitz), V, b 504; (Creeds), VI, *b* 499; (Lutherans), XV, a 86, *a* 87
—— *Missæ* (Luther), XV, a 79
Formulæ (Chemistry), V, a 409-10
—— for calculating Logarithms, XIV, b 785-6
—— for computing Parallax, XVIII, b 258-9
Formular procedure (Pleading), XIX, b 229; abandoned (Roman Law), XX, a b 730
Formyl, terchloride of (Chloroform), V, b 590
Fornander on races (Polynesia, XIX, a 437, a 439 note
Forngutniska, speech (Scandinavian Languages), XXI, a 388
Fornix (Anatomy), I, *b* 758; cerebric (Anatomy), b 768, a *b* 769, b 771, a 772
Fornkvædi, ballads (Iceland), XII, a *b* 658
Forno-convertisseur (Iron) (Ill.), XIII, a 359-60
Forreine Travell, Instructions for (Howell), XII, *a* 338
Forres, town (Elgin), VIII, a b 122
Forrest, friar and martyr (England), VIII, b 300; (Latimer), XIV, b 326
——, Edwin, actor, *b.* 1806, *d.* 1872 (New York), XVII, a 895; (Willis), XXIV, a 901
——, John, explorer (Western Australia), XXIV, *a* 537
Forsa inscription (Scandinavian Languages), XXI, a 387
Forsell, Karl Gustaf af, statistician (Sweden), XXII, b 796
FORSKAL, Peter, traveller, IX, a b 368; (Niebuhr, K.), XVII, b 506, a 507; (Ornithology), XVIII, a 12 note
Forspjallsljóo (Edda), VII, a 565
FORST, town, IX, b 368
FORSTER, François, engraver, IX, b 368
FORSTER, Friedrich, historian, IX, b 368
——, George, Indian traveller (Ghazni), X, a b 502; (Persia), XVIII, a 657, note
FORSTER, Johann Georg Adam, naturalist, IX, b 368-9; (Humboldt, A.), XII, *a* 357; (United States), XXIII, a 854
——, Johann Reinhold, naturalist (Ornithology), XVIII, a 12, a 13; (Sheathbill), XXI, b 818, note
FORSTER, John, historian, IX, b 369-70; (Dickens), VII, b 151, b 153, b 154; (Goldsmith), X, b 680
——, William Edward, statesman, *b.* 1818, *d.* 1888 (Ballot), III, a 250
——, phrenologist (Phrenology), XVIII, b 856, b 863
Forster library, So. Kensington (Libraries), XIV, b 517, a 545
Forsterite (Mineralogy), XVI, b 427
Forsyth, Alexander John, clergyman (Gunmaking), XI, a 247
——, Sir T. Douglas, geographer (Gobi), X, b 635, a 636
——, William, lawyer (Jury), XIII, b 793, *a b* 794, *a b* 795, a 797
Fort. See FORTIFICATION, Fortresses, Forts and Entrenchment
—— Adams (Newport, R. I.), XVII, b 416
—— Berthold (Indians), XII, a 872
—— Brown, Texas (Taylor, Z.), XXIII, *a* 928
—— Carillon (Ticonderoga), XXIII, b 375
—— Chissel (Tennessee), XXIII, b 194
—— Clinton (West Point), XXIV, *b* 891
—— Donelson, Tenn., capture of, 1862 (Smith), XXII, a 911; (United States), XXIII, b 825, b 837
—— Duquesne (Pittsburgh), XIX, a 161
—— Enterprise (Ballari), III, b 248
FORT DE FRANCE, town, IX, a 370; bay of (Martinique), XV, b 592
—— Griswold (Groton), XI, a 196
—— Hamilton (New York), XVII, b 471
—— Harrison (Taylor, Z.), XXIII, a 928
—— Henry (Wheeling), XXIV, a 569
—— Howard, Wis. (Green Bay), XI, b 145
—— de Joux (Jura), XIII, b 791
—— de Kock (Sumatra), XXII, b 672
—— Edmonton (Manitoba), XV, a 498
—— Lafayette (New York), XVII, b 471, note
—— Loudon (Tennessee), XXIII, b 194
—— Marion (St. Augustine), XXI, a 167
—— Nassau (Banda Islands), III, *b* 267
—— Nassau (New York), XVII, a 465
—— Orange (New York), XVII, a 466, a 467
—— Pitt (Pittsburgh), XIX, a 161
—— Putnam (Hudson River), XII, b 345; (West Point), XXIV, b 891
—— Ringgold (Texas), XXIII, a 222
—— Rosalie (Natchez), XVII, a 249; (New Orleans), a 414
—— St. David (Clive), VI, *b* 9, *a* 10

Fort St. George (India), XII, a b 839
—— San Felipe (Port Mahon), XIX, a 546
—— Sar-kel (Khazars), XIV, b 62
—— Schuyler (New York), XVII, b 471
—— of Suben (Egypt), VII, b 678, note
—— Sully, climate (United States), XXIII, a b 856
—— Sumter (United States), XXIII, *b* 822
—— Tatas (Banjarmassin), III, a 272
—— Trumbull (New London), XVII, a 409
FORT WAYNE, city, IX, b 414
—— William (Bir), III, a 603
—— William (Calcutta), IV, a b 582, *a* 583; college (Hindustani Literature), XI, a 758-9
—— Worth, city (Texas), XXIII, b 222
—— Yuma (California), IV, b 619, a 620
Fortaleza, river (Peru), XVIII, a 684
——, town (Ceará), V, a 245
Fortbildungs-schulen (Technical Education), XXIII, a 115
Fortebraccio, Vicola, free captain (Rome), XX, a *b* 822
FORTESCUE, Sir John, jurist, IX, a b 370; (English Literature), VIII, a 372; (Inns of Court), XIII, b 93, b 94, a 96
FORTH, river, IX, b 370-1; (Perth), XVIII, a b 678, a 680; (Scotland), XXI, b 546, a 547, *b* 549, *b* 553; (Stirling), XXII, *a* 581; bridge (Railway) (Ill.), XX, b 242-3; fossils (Archæology), II, b 294, b 296
——, Firth of (Geology), X, b 307; (Sea), XXI, a 606
——, mountain (Wexford), XXIV, *b* 549
FORTIFICATION (Plates III-XI) (Ill.), IX, a 371-413
    armament, a b 401
    ATTACK AND DEFENCE, b 401-7
        Antwerp siege, 1832 (Plate XI), a 404-6
        assaulting, a 403
        British military character, a b 403
        Dantzic siege, 1807, a 406-7
        essentials of defence, b 403-4
        retrospective view, b 401-2
        sapping and mining, b 402-3
        Vauban, b 401
    Bousmard's method, b 408-9
    camps, entrenched, a 412
    capitals, protection of, a 412-3
    Carnot's method, a 409
    Chasseloup's method, a b 409
    Choumara's method, b 409-10
    Dufour and Noizet, b 409

FORTIFICATION, *continued*
    ELEMENTARY (Ill.), a 371-9
        defilading, b 374-7
        delineations, b 371-2
        determination of dimensions of parapets (Ill.), b 374-9
        entanglements (Ill.), a 372-3
        escarp, counterscarp, a 379
        glacis, a b 378
        parapet, a b 371-9
        penetration of missiles, a 377
        relief, a b 372
        stockades (Ill.), a 373-4
        terms defined, a b 371
    FIELD WORKS (Ill.), a 379-88
        antiquity of, a b 379
        barbettes (Ill.), b 381-2
        bridge and ford destruction, a b 385
        classes of (Ill.), b 382-4
        closed gorges (Ill.), a 383-4
        embrasures (Ill.), a b 381
        entrenched armies, examples, b 379-81
        general principles, b 382, b 385
        horn and crown work (Ill.), b 388
        lunettes (Ill.), b 386
        open gorge works, b 382-3
        redans and tenailles, b 385-6
        redoubts (Ill.), b 386-8
        shelter trenches (Ill.), b 379-80
        têtes-de-pont, a 384
        Torres Vedras lines, b 380-1
        town defence (Ill.), a 384-5
        triangular redoubts, b 387-8
    German defence, a 411-2
    Haxo's method, b 409-10
    index, a b 413
    mining, a b 410
    nature of the subject, a 371
    Netherland bastion system (Ill.), b 407-8
    PERMANENT (Ill.), b 388-401
        ammunition service, a 400
        ancient methods, b 388-9
        Antwerp defences (Plates V and VI), b 396-7
        artillery, piercing effects of, b 395-6, b 397-8
        bastions, rise of, a b 389, a b 391
        batteries (Plate VIII, IX) (Ill.), a 398-401
        Cormontaigne's system (Plate III), a b 394
        Durer's system b 391-2

FORTIFICATION, *continued*
    PERMANENT
        English type (Plate VII), b 397-8
        French engineers, 18th century, b 390-1
        growth of bastion (Ill.), a b 391
        history (Ill.), b 388-92
        iron plates, b 398-400
        material for armor plates, b 400-1
        modern system (Plate IV), b 394-5
        Mouzé's system, a 391
        outworks, a 395
        polygonal or German system (Plates V-VII), a 395-401
        turret batteries (Plate X), a b 400
        Vauban and Coehorn (Plate IV), a 390
        Vauban's 1st system (Plate III), a 392-3
        Vauban's 2d and 3d systems (Plate III), b 393-4
    range of fire, b 410-1

—— (Dürer), VII, b 482; science of (Stevinus), XXII, a 574
Fortifications (Alderney), I, a 419; (Antwerp), II, b 127; IX, b 396-7; (Berwick-upon-Tweed), III, b 527-8; (Camp), IV, b 663; (Coblentz), VI, b 82; (Dowletabad), VII, b 330; (Ghazni), X, a 501; (Gibraltar), a 522; (Gravesend), XI, b 58; (Groningen), *a* b 183; (Gumri), a 245; (Havana), a 468; (Helder), b 561; (Herat), b 637; (Holland), XII, b 68-9; (Huy), a 431; (Kars), XIV, *b* 8; (Kashgar), *b* 9; (Komorn), *a* 139; (Lille), a b 648; (Luxemburg), XV, b 89; (Lyons), a b 112; (Olmutz), XVII, b 785, a 786; (Paris), XVIII, a b 279, a 294, a 295, b 297, a 299, b 300; (Perpignan), b 567-8; (Peterwardein), a 716; (Portsmouth), XIX, a 549, a 550; (Plymouth), b 247-8; (Rochelle), XX, a b 628; (Vannes), XXIV, a 75; ancient (Labor), XIV, b 166; (Rome) (Ill.), XX, b 830; Assyrian (Architecture), II, a b 349; Aztec (Mexico), XVI, a 219; Egyptian (Architecture), II, a 343; Greek (Architecture), a 362; (Syracuse), XXII, a 855; mediæval (Provins), XIX, b 911
Fortin's Barometer (Ill.), III, a 330
Fortnightly inequality of Tides, XXIII, b 392-3
Fortren kings (Scotland), XXI, a 499
Fortresses (Bitsch), III, b 689; (Buda), IV, a b 380; (Cochin China), VI, b 88; (Figueras), IX, a b 136; (Germany), X, b 420, a 433; (Givet), b 558; (Graudenz), XI, a 58; (Gwalior), a 308, a 309; (Metz), XVI, a 212; (Monmouth), a 781; (Mont St. Michel), a 823; (Neisse), XVII, b 329; (Novogeorgievsk), b 623; Ouplytz (Gori), X, *b* 698; (Pamplona), XVIII, a 211; (Poland), XIX, b 323; (Russia), XXI, a 79; St. Peter and St. Paul (St. Petersburg), a 202; (Toul), XXIII, b 513, a 514; (Ulm), a 768
——, construction of (Monge), XVI, a 765
—— guns (Gunnery) (Plate V), XI, 275, a b 276, a 279, a b 281
Fortresses, crusaders' (Galilee), X, a 27; Roman (Germany), a 427; (Mesopotamia), XVI, a 53
FORTROSE, town, IX, a 414
Forts (Fortification) (Ill.), IX, a *b* 383, b 387-8, a 397-401; (Delhi), VII, a 42; (Dublin, county), a b 428; (Hyderabad), XII, a 446; (Inverness), XIII, b 206, a 207; (Jaffna), b 551; (Louth), XV, *b* 27; (Kirkcudbright), XIV, b 100. See Fortresses
—— d'arrêt (War), XXIV, a 378
FORTUNA, deity, IX, a 414; temple of (Pompeii), XIX, a 462; (Præneste), b 674, note; at Rome (Architecture) (Ill), II, a 366; (Rome) (Ill.), XX, b 847
Fortunate Islands (Canary islands), IV, b 702; (Phœnicia), XVIII, a 820; (Ptolemy), XX, b 97, a b 98, a 100; (Romance), b 649 note
FORTUNATUS, legendary hero, IX, a 414
FORTUNATUS, Venantius Honorius Clementianus, bishop, IX, b 414; (Hymns), XII, *b* 616
Fortune Bay (Newfoundland), XVII, a b 392, a 394
——, Robert, traveller (Horticulture), XII, a 262; (Tea), XXIII, a 104, a 110
—— Theatre, London (Theatre), XXIII, *a* 243, note
Fortune-telling (China), V, a 582; (Divination), VII, b 254, *a* 255; (Gipsies), X, a 550; (Magic), XV, b 205; (Witchcraft), XXIV, a b 655
Fortunes of Nigel (Scott), XXI, b 575
Fortuny, Mariano, painter, *b*. 1838, *d*. 1874 (Schools of Painting), XXI, a b 460, a 464
Forty-two Articles (Cranmer), VI, a 488
FORUM, IX, b 414-5; (Architecture), II, b 367; (Pompeii), XIX, b 460-1, b 464; Augustan (Rome) (Ill.), XX, b 845-6; Julium (Rome) (Ill.), b 845; Nerva's (Rome) (Ill.), b 845, b 846; Pacis, Vespasian's (Rome) (Ill.), a b 846; Romanum (Rome) (Plate VII) (Ill.), a 825, b 833-40; Trajan's (Rome) (Ill.), b 846-7

Forum, charter (Fueros), IX, a b 711
—— Cornelli, town (Imola), XII, b 755
—— *Judicium* or *Judiciale* (Fueros), IX, b 711; (Salic Law), XXI, a b 226
—— Julii, town. See CIVIDALE, FREJUS, FRIULI
—— Livii. See FORLI
Forwarding (Binding), IV, b 38-9
Fos, gulf of (Rhone), XX, *a* 543
FOSBROKE, Thomas Dudley, antiquary, IX, a b 415
FOSCARI, Francesco, doge, IX, b 415-6; (Italy), XIII, b 490
——, Giacopo, unfortunate (Foscari, F.), IX, b 415-6
Foscarini, Antonio, doge (Venice), XXIV, a 158
——, Giacomo, politician (Greece), XI, b 108
FOSCARINI, Marco, doge, IX, a 416
FOSCARINI, Michele, historian, IX, a b 416
FOSCOLO, Ugo, patriot poet, IX, b 416-7; (Drama), VII, a 361; (Italy), XIII, b 523-4
Fosforus, journal (Atterbom), III, a 47
Foss, Edward, legal writer, IX, a 417
——, Frithjof, novelist (Norway), XVII, a 606
——, Henrik Hermann, poet (Norway), XVII, a 605
—— dyke (Canal), IV, b 691-2
Fossa Cluilia, landmark (Rome), XX, b 752 note
FOSSANO, city, IX, a b 417
FOSSANO, Ambrogio Stefani da, painter, IX, b 417
Fosse (Fortification) (Ill.), IX, b 371, b 392
——, Chersonesus Trachea (Scythia), XXI, b 602, b 604, note
——, war of the, 627 (Mohammedanism), XVI, b 579-80
—— Way, road (Shakespeare), XXI, a 774
Fossey's blowing-engine (Bellows), III, b 475
Fossil Amphibia, I, a 658, b 675-6; animals (America), b 599-600; (Distribution), VII, a 239-40, *a b* 241, b 244-8; (Zoology, American), XXIV, a 925-6; Annelida, II, a 61, a 63; Arachnida, b 251, b 262
—— Birds (Ill.), III, a 631-4, a 639; Crane, VI, b 484; Flamingo, IX, b 250; (Ornithology), XVIII, b 37, b 46-7
—— bones (Agriculture), I, a 310; (Giant), X, a 511
—— Brachiopoda, IV, b 176, *a b* 177; Corals, VI, b 329, b 336-7, a 341, *a b* 343; Copal, a 304; Crustacea (Ill.), a b 579, a 580, b 581, a b 582, a b 583, notes, a b 584, b 585, a b 586, a *b* 587, b 589, a 590; Cuttle-Fish, b 651, a 653; Echinodermata, VII, a b 544, a b 545, a b 547, a 549, a 550, a b 551, b 552, *b* 553, a b 555
—— fishes (Ichthyology), XII, a b 670, a 705-7; (Agassiz), I, a b 246; Shark, XXI, a 812, b 813, *b* 815; Sturgeon, XXII, a 645
—— Foraminifera, IX, b 324, b 329, a 331, a 332, a 339-41; Hemiptera, XI, a 577; Hydrozoa, XII, a 577; Hydrozoa, a 599-600
—— Insects, XIII, b 147-8; Dragon-Fly, VII, b 636; Gnat, X, b 624; Hymenoptera, XII, b 611
—— Ivory, XIII, b 530; (Mammoth), XV, a b 455
—— Mammalia, XV, a 377-9, b 385-6; Ape, II, b 145-6; Badger, III, b 196; Bear, b 399; Beaver, b 411; Camel, IV, a 651; canidæ (Mammalia), XV, b 445; carnivora, b 448-9; cetacea, b 398-9; chiroptera, a 420; dasypodidæ, a 391; Deer, VII, a 24; (Mammalia), XV, a 437; Dinotherium, VII, b 212-3; edentata (Mammalia), XV, b 392; Elephant, VIII, b 318; (Mammalia), XV, b 430-1; felidæ, b 441; Fox, IX, a 436; Giraffe, X, a 553; Hare, XI, a 427; Hippopotamus, b 765; Horse, XII, a b 176, a b 177-8; Hyæna, a b 437; (Mammalia), XV, a 444; insectivora, b 409; Kangaroo, XIII, b 850-1; Lemur, XIV, a b 445-6; Leopard, a b 464; Mammoth, XV, a b 455; man (America), I, b 607; marsupials (South Australia), XXII, a 298; Mastodon (Ill.), XV, b 628-30; Megatherium, b 837-9; Muntjak, XVII, b 38; Musk-Ox, b 113; Opossum, b 819; Peccary, XVIII, b 460; pinnipeds (Mammalia), XV, 450-1; Rhinoceros, XX, b 537-8; rodentia (Mammalia), XV, b 426-7; sirenia, a 394-5; Swine, XXII, b 810, a 811; Whale, XXIV, b 554-5
—— meal (Bricks), IV, b 252; Myriapoda, XVII, a 126; (Centipedes), V, b 296
—— plants (Distribution), VII, b 249, a b 250, a b 252; Diatomaceæ, a 148; Iris, XIII, b 282; Maple, XV, a 531; Pomegranate, XIX, a 457
—— Reptiles, XX, a b 455-6, note, *a b* 457, b 478-80; Crocodile, VI, b 525; Frog, IX, a 700; Ichthyosaurus, XII, a 734-5; Iguanodon, a b 740; Pterodactyle, XX, a 92
—— Sponges, XXII, a b 444, a 445; Teredo, XXIII, b 202; wax (Chemistry), V, b 482
Fossils (Geology), X, b 262, b 282-9; (Coal), VI, a 46, b 54; (Falconer, H.), IX, *b* 5, a 6; (Hunter, J.), XII, b 406-7; (Mantell), XV, a 510; (Mineralogy), XVI, b 386; (Petroleum), XVIII, b 728
——, Abbeville, I, a 17; Arno, II, a 546; Australia, III, b 94; California, IV, b 630; Cambridge, a 644; Derby, VII, 93; Devonshire, a 121; Edinburgh, b 569; Forfar, IX, b 361; France (Ornithology), XVIII, a 40; Gibraltar, X, a b 521; Gloucester, b 613-4; Greenland, XI, b 149; Hayti, a 486; Himalaya, b 738, *a* b 739, a 740, a 744; Hungary, XII, a 376; Huntingdon, b 412; India, b 773, b 774-5; Kentucky, XIV, a 44; Lebanon, b 392; Lincoln, b 660; Madagascar, XV, b 170; Madeira, a 178, a 182; Mauritius, b 647; Mexico, XVI, b 214; Mississippi, b 545-6; Missouri, a b 548; New Zealand, XVII, a 481; Norfolk, a b 549; Ohio, *b* 755; Poland, XIX, a b 319; Queensland, XX, a b 179; Scotland, XXI, b 543, *a* b 544; Stafford, XXII, b 459; West Indies, XXIV, b 539; Wight, a 593
——, Cambrian (Geology), X, *b* 291, *a b* 292, *a* 293; carboniferous, b 305-11; (Ireland), XIII, a 223; contemporaneous (Geology), X, b 285; cretaceous (Geology), a 317-9; Devonian, a 302-3, a b 306; diluvian (Archæology), II, a 294-6; eocene (Geology), X, b 320-1; miocene, a 322-3; Old Red Sandstone, b 303-5; oölite, b 314-7; Permian, b 311-2; (Pennsylvania), XVIII, b 511; pliocene (Geology), X, b 323-4; Quaternary, a 328-9; Silurian, b 293-301; tertiary American, a b 324; triassic, a 313-4
Fossils, chronology of (Geology), X, a 285-8, b 288-9; collections of (Northumberland), XVII, a 579; Marsh's (Ornithology), XVIII, a b 40-1; distribution of (Biology), III, a 592; elevation of marine (Geology), X, b 326; indicating climate (Atlantic Ocean), III, a 25; persistence of forms of (Biology), b 596, a 597
Fossite, priestess (Heligoland), XI, a 564, note
FOSSOMBRONE, town, IX, b 417-8
FOSSOMBRONI, Vittoria, statesman, IX, a 418
Fossombronia, mosses (Muscineæ), XVII, a b 74, b 76
Fossores, grave diggers (Catacombs), V, a 187; insects (Hymenoptera), XII, b 611
Fostâl, town (Cairo), IV, a 574
Foster and Balfour (Birds), III, b 628 notes, a 629 note
——, James, divine (Independents), XII, b 766
FOSTER, John, essayist, IX, a 418-9; (Hall, Robert), XI, b 350, a 351
——, M., physician (Physiology), XIX, a 47, b 49, b 50; on bodily heat (Pathology), XVIII, b 404, note, a 407
FOSTER, Stephen Collins, song-writer, IX, b 419-20
Fosterage (Brehon Law), IV, b 226; (Ireland), XIII, b 262, a 263
Foster's method (Electricity), VIII, b 43
Fostri, Einar, poet (Iceland), XII, b 658
FOTHERGILL, John, physician, IX, a 420; (Kino), XIV, b 92
Fotheringay castle (Mary Stuart), XV, b 607, a 608; (Northampton), XVII, b 570
FOUCAULT, Jean Bernard Léon, physicist, IX, a b 420; (Astronomy), II, a 697; (Electricity), VIII, b 77; (Gyroscope), XI, a 314, b 315, a b 316; (Light), XIV, a b 610; (Radiation), XX, b 220, a 222; (Telescope), XXIII, *a* 159
Foucault's air-fan, improved (Telescope) (Ill.), XXIII, a b 170; interrupter (Electricity), VIII, b 12; method for mirrors (Optics), XVII, b 828; pendulum (Mechanics), XV, b 719-20; velocity measurement (Light), XIV, a b 589
Foucaux, P. E., orientalist (Tibet), XXIII, a 368, note
FOUCHÉ, Joseph, minister of police, IX, b 420-2; (Collot d'Herbois), VI, b 134; (Enghien), VIII, b 194; (Wellington), XXIV, a 525
FOUCHER, Simon, writer, IX, a b 422; (Scepticism), XXI, b 399
Fougasse, mine (Fortification), IX, a b 410
FOUGÈRES, town, IX, b 422
Fou-Hi, emperor (Astronomy), II, a b 651
Foula island (Orkney, etc.), XVII, *b* 870, a 871, b 872; (Scotland), XXI, b 549
Foulahs or Fellatahs, race (Africa), I, *b* 235, b 242-3; (Negro), XVII, b 327, a 328; (Sokoto), XXII, b 261, *a* 262; (Soudan), b 291, note, *a b* 292; (Yoruba), XXIV, a 791, a b 792
Foul brood (Bee), III, a b 430
—— grain (Gunpowder), XI, a 293
Foul Play (Reade), XX, a 316
FOULD, Achille, financier, IX, b 422
Fouling (Gunpowder), XI, b 286
FOULIS, Andrew, printer, IX, b 422-3
FOULIS, Robert, printer, IX, b 422-3
—— press (Bibliography), III, b 568
Foulques, Gui. See CLEMENT IV., Pope
Foumart, mammal (Polecat), XIX, a 344
Found, picture (Rossetti), XX, a 882.
Foundation (Roads and Streets), XX, b 598, a 600, a b 601, a b 602
Foundations (Building) IV, a b 405, a 408-9; (Venice), XXIV, a b 161; of piers (Bridges), IV, *b* 292-5, b 306-7
Foundations of a Creed (Lewes), XIV, a b 491
Founder's work (Building), IV, b 456
Foundery, the, London (Methodism), XVI, b 193-4
FOUNDING, IX, a 423-5
FOUNDLING HOSPITALS, IX, a 425-8; (Coram), VI, b 344; (Infanticide), XIII, b 5, a 6; (Paris), XVIII, a 288

Foundling wheel (Italy), XIII, a 459, note
Foundry iron (Iron), XIII, a 291; operations (Iron), b 365-6
FOUNTAIN, IX, a 428-9; (Lourdes), XV, a 26; (Manduria), a 485; of Lions (Alhambra), I, b 503; at Perugia (Pisano), XIX, b 133; of St. John (Castalia), V, a 162; Tyler-Davidson (Cincinnati), V, b 684-5
Fountain of Bakhchisarai (Poushkin), XIX, *b* 668
—— gardens (Nimes), XVII, a 524
—— Pen, XVIII, b 494
Fountaine, Sir Andrew, collector (Pottery and Porcelain), XIX, a 648 note
Fountains (Rome), XX, b 859 note; of Moses (Arabia), II, a 206
—— Abbey (Ill.), I, b 24, a 25; (York), XXIV, a 787
FOUQUÉ, Friedrich Heinrich Karl, baron de la Motte, writer, IX, b 429-30; (Hymns), XII, a 623
Fouquet, Charles Louis Armand, comte de Belle Isle (France), IX, a b 516; (Piron), XIX, a 127
FOUQUET, Nicolas, financier, IX, b 430-1; (Colbert), VI, b 110-11; (Corneille), b 370, a 371; (France), IX, *a* 506, a 516; (La Fontaine), XIV, *b* 204; (Sévigné), XXI, *a* 737
——, Prussian general (Austria), III, b 112
FOUQUIER-TINVILLE, Antoine Quentin, revolutionist, IX, a 431
Four Ages of Man, painting (Lancret), XIV, a 260
"Four Brothers," myth (Religion), XX, a b 376
FOURCHAMBAULT, town, IX, a 431
FOURCROY, Antoine François, comte de, chemist, IX, a 431-2; (Chemistry), V, a 402; (Urea), XXIV, a 15; (Vauquelin), b 126, *a* 127
Four Dissertations (Hume), XII, a 364
Fourdrinier machine (Paper) (Ill.), XVIII, a 223, b 225
FOURIER, François Charles Marie, socialist, IX, a 432-3; (Socialism), XXII, a 216, *a* b 219, a 220, a 229
FOURIER, Jean Baptiste Joseph, mathematician, IX, a b 433; (Equation), VIII, b 443, a 444; (Heat), XI, *b* 515, a 517, b 518, b 526; (Ohm), XVII, b 759; (Radiation), XX, a 223
Fourierite associations (Greeley), XI, a 144
Fourier's equations (Heat), XI, *a* b 524-5; theorem (Algebra), I, b 455; (Harmonic Analysis), XI, b 431; (Mechanics), XV, a b 696; (Music), XVII, a 112; (Wave), XXIV, b 438
Four-Lake-Region (Madison), XV, a 183
Four Ling, convents (Lhasa), XIV, a 499
Fourmies, town (Nord), XVII, b 548
FOURMONT, Étienne, orientalist, IX, b 433
——, Michel, orientalist, IX, b 433
Fourneyron, Benoît, engineer (Hydromechanics), XII, a b 454, a 555, a 562
FOURNIER, Pierre Simon, engraver, IX, b 433
Four point problem (Probability), XIX, b 805-6
Fourré, Marie, heroine (Péronne), XVIII, a 564
Fourteenth century, events in, A.D. (Chronology), V, b 634-5
Fourth century, events in B.C. (Chronology), V, a b 626; A.D. (Chronology), a b 628
—— Gospel. See Gospel, Fourth
Fourvières, building (Lyons), XV, b 111, *b* 112, *b* 113, a 114
Fourvoire, village (Chartreuse), V, b 376
Foussa, kind of cat (Mammalia), XV, a 442
Fovea centralis (Anatomy), I, a 780, *a* 781, a 782
Foveaux strait (New Zealand), XVII, a 480
Fovilla of pollen (Botany), IV, a 126, a 134
Fowey Consols, Steam-Engine, XXII, b 495
Fowke, Francis, engineer (Pontoon), XIX, b 471, a 472
Fowke's camera (Photography), XVIII, b 853
FOWL, IX, b 433-4; (Birds) (Ill.), III, b 605-16, a 621, a 623, a b 624, a 643, a 645; (Breeds), IV, a b 221, a 223; (Dorking), VII, a 319; (Ornithology), XVIII, a 35, a 42; (Poultry), XIX, b 664; cholera (Murrain), XVII, a 65; embryology of (Harvey), XI, a 452; moult of (Birds), III, a 673; sternum of (Ornithology), XVIII, a 27, b 28
FOWLER, Charles, architect, IX, b 434
——, Edward, bishop (Bunyan), IV, b 472
FOWLER, John, inventor, IX, b 434; (Agriculture), I, a *b* 279, *a* 280, a 281, *b* 283; (Dredging), VII, b 402; (Railway), XX, b 240, b 242, a b 248, b 251; draining plough (Agriculture), I, a b 297; locomotive engine (Agriculture) (Ill.), a 279; steam plough (Agriculture) (Ill.), a b 280
——, Orson Squire, phrenologist (Phrenology), XVIII, b 858
FOWLER, William, poet, IX, b 434; (Scotland), XXI, a 568
Fowlerite (Mineralogy), XVI, b 434
Fowler's solution (Arsenic), II, b 555
Fowling-piece (Gunmaking), XI, a 247-9; (Shooting), XXI, b 871-2
Fownes, martyr (Baptists), III, a 306
FOWNES, George, chemist, IX, a 435
FOX, animal, IX, a 435-6; (Fur), b 735, a b 736; (Sweden), XXII, a *b* 779; Arctic, anatomy of (Mammalia), XV, a 351; classification of (Mammalia), a b 445
——, flying. See FLYING FOX
Fox Hills (Surrey), XXII, b 728
—— Islands (Aleutian Islands), I, a b 424
—— river (Wisconsin), XXIV, b 649, a b 651, *a* 652
—— family of Rochester, N. Y. (Apparitions), II, b 181; (Greeley), XI, a 144; Kate (Spiritualism), XXII, a 420, b 421-2; Margaret (Kane), XIII, b 847; (Spiritualism), XXII, a 420, b 421-2
FOX, Charles James, statesman, IX, a 436-41
    ancestry, a b 436
    coalition ministry, b 438
    education, b 436-7
    estimate of character, a 440-1
    Napoleon period, b 439-40
    North, opposition to, b 437-8
    oratory of, a 441
    Pitt's administration, b 438-40
    Rockingham and Shelburne, a b 438
    Tory period, a b 437
—— (Balance of Power), III, a 233; (Burke), IV, b 485, *b* 486, b 487, *a* b 489, a 490, a 491; (Chertsey), V, b 509; (England), VIII, a 323, *b* 325; (George III.), X, a 382, *b* 383; (George IV.), a b 384; (Gibbon), a 517, a 518; (Grey), XI, *a* 170; (Holland, Lord), XII, *a* b 103; (Lansdowne), XIV, a b 290; (Moore, Sir J.), XVI, b 830; (Pitt), XIX, a b 145, a *b* 146, *a* *b* 147, *a* b 148, a 149, b 150, a 151, b 153, a 154, a 155, b 156, *a* b 157, *a* 158; (Sheridan), XXI, b 835; (Slavery), XXII, a 148; (Tooke), XXIII, *a* 474; (Thurlow), a b 354
—— and North coalition (Thurlow), XXIII, a 354
FOX, George, Quaker, IX, a 441-2; (Mysticism), XVII, a 142; (Penn), XVIII, b 504, a 505, a 507; (Quakers), XX, a *b* 154, *a* 155, a *b* 157, b 158, b 159
——, Henry. See Holland, Lord
——, Lane, general (Ethnography), VIII, b 550
——, Luke, explorer (Polar Regions), XIX, a 330
FOX, Richard, bishop, IX, b 442-3; (Cranmer), VI, a 486; (Wolsey), XXIV, a b 668
——, Sir Stephen (Fox, C. J.), IX, a b 436, a 439
Fox-bat (Flying Fox), IX, a 309
Foxdale Mines (Man), XV, a 458
Fox Shark, XXI, b 813-4
FOXE, John, martyrologist, IX, a 443; (Grindal), XI, b 180
Foxes, tribes (Indians), XII, b 872
Foxglove or digitalis (Botany) (Ill.), IV, a 125; (Digitalis), VII, a 207-8; (Horticulture), XII, a 256, a 258
Foxhound (Dog) (Ill.), VII, b 285, a 286; (Hound), XII, b 328-30
Fox hunting, XII, a 410-11; (Hound), a 329-30
Fox's (Robert Were), dip circle (Meteorology), XVI, a-b 166
Fox-tail wedging beams (Building), IV, b 428
FOY, Maximilien Sebastien, general, IX, b 443-4
Foyers, river (Inverness), XIII, b 205
Foyle, Lough (Donegal), VII, a b 313; (Londonderry), XIV, *a* 863, a 864; river (Donegal), VII, b 313; (Tyrone), XXIII, b 759, a 760
Foyn, Svend, seaman (Whale), XXIV, b 557
Fra Ambrogio, sculptor. See ROBBIA
Fra Angelico. See FIESOLE
FRAAS, Karl Nikolas, botanist, IX, a 444
Fra Bartolommeo, painter (Painting), XVIII, a 142; (Schools of Painting), XXI, b 462. See BACCIO DELLA PORTA
Fra Beato Angelico. See FIESOLE
FRACASTORIO, Hieronymo or Girolamo, physician, IX, b 444; (Ramusio), XX, *a* 282
Fra Christobal, mountains (New Mexico), XVII, a 410
Fractional distillation (Paraffin), XVIII, a b 246; (Petroleum), b 890
Fractions (Algebra), I, b 467-71; (Arithmetic), II, b 464-6; (Tables), XXIII, b 12; reduction of (Arithmetic), II, a b 465, b 466, a 467, a 469
—— continued (Algebra), I, a 492-3
——, decimal. See Decimals
Fracture of bones (Surgery), XXII, a b 716; cranial (Surgery), XXII, a b 724; Greek treatment of (Surgery), b 708; repair of (Pathology), XVIII, b 372-3
—— of materials. See STRENGTH OF MATERIALS
—— of minerals (Mineralogy), XVI, a 394; of rocks (Geology), X, a 205
FRA DIAVOLO, brigand, IX, b 444
Fragaria, plant (Horticulture), XII, a 287; (Strawberry), XXII, b 621-2
Fragmens Philosophiques (Cousin), VI, b 463, a 464
Fragmental rocks (Geology), X, a 211-4, a b 278
"Fragmentary hypothesis" (Pentateuch), XVIII, a b 516
Fragonard, Jean Honoré, painter (Caricature), V, a 93
FRAHN, Christian Martin, orientalist, IX, a 445

- Fraipont, Julius, zoologist (Hydrozoa), XII, b 588 note; (Trematoda), XXIII, a b 570, a 575
- Fraises, palisades (Fortification) (Ill.), IX, a 373
- Frambœsia, skin disease (Yaws), XXIV, b 768
- Frame, metal (Pianoforte) (Ill.), XIX, a b 84, a b 85
- Framed scaffolding (Building), IV, a 419
- —— structures, stress (Diagrams), VII, a 130-1
- Frame flooring (Building) (Plates XXIV, XXV), IV, a b 432
- —— making (Carving and Gilding), V, b 148
- Frames (Bridges) (Ill.), IV, b 282-90
- ——, garden (Horticulture) (Ill.), XII, b 230-1
- —— ore-separators (Mining) (Ill.), XVI, b 486
- Frame weir (River Engineering), XX, a b 589
- Framing in carpentry (Architecture), II, b 414; (Building), IV, b 438-9, b 441
- —— bars (Soap), XXII, a 215
- FRAMLINGHAM, town, IX, a 445
- Fra Monreale, captain (Rome), XX, b 818
- Framwellgate, corporation (Durham), VII, a 486
- Franc, coin (France), IX, b 464; (Money), XVI, a 754, b 756, b 757, note, a b 758, note, b 760
- FRANÇAIS, Antoine, count, politician, IX, a 445
- *Français, Histoire des* (Sismondi), XXII, b 107
- FRANCAVILLA, town, IX, b 445
- FRANCE, republic (Plates XII, XIII), IX, b 445-605
  - GEOGRAPHY AND STATISTICS, b 445-65
    - agriculture, a 458-9
    - banks and coinage, b 463-4
    - bibliography, b 465
    - boundaries and coast, b 445
    - charities, public, a b 454
    - climate, b 446-7
    - colonies, b 464-5
    - commerce, a 462-3
    - communications systems of, a 457-8
    - debt, national, b 455
    - departments, table of, a 449-50
    - education, a 452-4
    - exports and imports, a b 463
    - forests, b 446
    - geology and soil, a b 447
    - government, b 448-51
    - harbors, a 458
    - hydrography, a b 446
    - judicial organization, a 451-2
    - manufactures, b 459-62
    - military system, b 455-6
    - mineral and metal industries, a b 461
    - navigable rivers, b 457-8

FRANCE, *continued*
  - GEOGRAPHY AND STATISTICS
    - navy, b 456-7
    - orography, b 445-6
    - population, b 447-8
    - prefectures and communes, b 450-1
    - private and special schools, b 453-4
    - religion, a b 452
    - revenue system, b 454-5
    - textile manufactures, b 459-60
    - weights and measures, b 464
  - HISTORY, b 465-54
    - Albigensian crusade a 478
    - allies enter Paris, b 544-5
    - Anne of Austria, regency of, a 503-5
    - Armagnacs and Burgundians, b 483-4
    - arts and learning in Colbert's age, b 506-7
    - Augsburg League, 1686, a b 510
    - Bonaparte, rise of, b 535-6
    - Bourbon house, accession of the, a b 497
    - Brienne's failure, b 524-5
    - calendar of republic, b 533-4
    - Calonne's ministry, a b 524
    - Cambrai League, 1508, b 489-90
    - Capets, rise of the, b 472-3
    - Carlovingian kings, b 469-73
    - Catholic League, b 495-6
    - causes of the Revolution, b 525-6
    - character of Louis XIV, b 505-6
    - character of Richelieu, b 502-3
    - Charlemagne, b 469-71
    - Charles I., reign of, b 471-2
    - Charles V., b 482-3
    - Charles VI., b 483-4
    - Charles VII., a 485-6
    - Charles VIII., b 488-9
    - Charles IX., b 493-5
    - Charles X., b 545-6
    - Charles of Burgundy, fall of, b 487-8
    - Charles Martel and sons, a b 469
    - Choiseul's administration, b 519-20, b 522
    - Church in the Revolution, a b 529
    - Clovis, age of, a 467-8
    - coalition of Turkey, England and Russia, b 538-9
    - Colbert's administration, a 506-7
    - Coligny and Montmorency, a 493-5
    - conclusion, b 553-4
    - constitution - making, 1789, a b 528-30

FRANCE, *continued*
  - HISTORY
    - consulates, 1799, b 540-2
    - crusades, b 474-5, a 476, b 477-8, b 479
    - Crimean war, a b 549
    - declaration of rights of man, b 627-8
    - Devolution war, a b 507
    - Directory government, a 536-9
    - Du Barry pornocracy, b 522
    - Du Guesclin's campaigns, a 483
    - Dumouriez's campaign, a 533
    - Dutch war, 1672-8, a 508-9
    - Egyptian expedition, Bonaparte's, a b 538, a 539
    - Empire of Charlemagne, a b 470
    - Empire, first, a 542-4
    - English opposition to First Consul, b 540, b 541-2
    - Europe in age of Henry IV., a b 499
    - Europe, middle of 18th century, a 517-8
    - fainéant kings, b 472-3
    - "Family Compact," a b 520
    - Feudalism, rise of, b 467-8
    - 15th century, state of France, b 486
    - Fleury's administration, b 515-6
    - Francis I., a 490-2
    - Franco - Prussian war, a b 562
    - Frankish Kingdom, partitions of, a b 468
    - Fronde wars, b 504-5
    - Gaul, Roman, b 465-6
    - Germanic tribal invasions, b 466-7
    - Girondist epoch, b 530-2
    - Guises, rise of the, b 491, b 493-4
    - Guizot's ministry, b 546-7
    - Hébertists and Dantonists, a b 534
    - "Henries, War of the three," b 496
    - Henry I., a b 474
    - Henry II., b 492-3
    - Henry III., b 495-6
    - Henry IV., Navarrese, a 496-9
    - Henry V., England, invasions of, b 484-5
    - Hohenzollern question, b 551-2
    - home policy of Mazarin, a b 504
    - Hugh Capet, reign of, a 473-4
    - Huguenot wars, period of, b 493-7
    - Hundred Days of Napoleon, a b 544
    - Hundred Years' War period, b 481-6
    - imperial war with Charles V., b 490-1

FRANCE, *continued*
  - HISTORY
    - insurrections of 1792, a b 531
    - invasion of German princes, 1792, a 531, a 532
    - Italian campaigns of Bonaparte, b 536-7, b 538-9, a b 540
    - Italian expeditions, Charles VIII., b 488-9
    - Italian invasion, Napoleon III., b 549-51
    - Jacobin ascendency, b 528-35
    - John, reign of, a b 482
    - legislative assembly, b 530-2
    - literature in 18th century, b 521-2
    - Louis I., reign of, a b 471
    - Louis VI., b 475-6
    - Louis VII., b 476-7
    - Louis IX., St., b 478-80
    - Louis XI., b 486-8
    - Louis XII., b 489-90
    - Louis XIII, b 499-503
    - Louis XIV., a 503-14
    - Louis XV., a 515-22
    - Louis XVI., a 523-32
    - Louis XVIII. a 544-5
    - Louis Philippe, reign of, a 546-7
    - Louvois, rise of, a 508
    - Maid of Orleans, a b 485
    - Maintenon ascendency, b 509-10
    - Marie Antoinette's court, a 523
    - Marie de' Medici, regency of, b 499
    - Marlborough campaigns, b 512-3
    - mayors of the palace, b 468-9
    - Mazarin's administration, a 503-5
    - Merovingian kings, a 467-9
    - Napoleon III., b 548-52
    - National or Constituent Assembly 1789, b 526-30
    - National Convention, 1792, a 532-6
    - Neckar's war embarrassments, b 523-4
    - Orleans regency, b 514-5
    - Paris triumphs over king and Assembly, a b 528
    - Peninsular and Austrian war, b 542-3
    - Philip I., a 474-5
    - Philip II., Augustus, a 477-8
    - Philip III., a 480
    - Philip IV., the Fair, a 480-1
    - Philip VI., a 481-2
    - Pompadour pornocracy, a 517-22
    - Praguerie, a 486

France, *continued*
- History
  - Reformation, failure of the Protestant, a b 492
  - religious settlement of Henry IV., b 497-8
  - Republic of 1792, a 532-6
  - Republic of 1848, b 548-9
  - Republic of 1870, b 552-3
  - reorganization under Bonaparte, a b 541
  - "Reunions," Louis XIV, a b 509
  - revolution of 1789, b 525-33
  - revolution of 1848, b 547-8
  - Richelieu's administration, a 500-3
  - Robert, reign of, a 474
  - Robespierre's ascendency, b 532-5
  - Rochelle Protestants suppressed, a b 501
  - Roman provincial period, a b 466
  - Russia, from invasion, of to battle of Leipsic, a b 543
  - St. Bartholomew massacre, a b 495
  - Schleswig-Holstein war to Prague treaty, b 550-1
  - Seven Years' war, a 518-20
  - Silesian wars, a b 516
  - sixteenth century, France at the close of, a b 498
  - Spanish succession wars, Louis XIV., b 511-4
  - Spanish war of Mazarin, a b 505
  - state of France under Louis XV., b 520-1
  - States-General of 1614, b 499-500
  - States-General, 1789, a b 526
  - Sully's administration, b 498
  - Thirty Years' war, a 501-2, b 503-4
  - Triple Alliance, Louis XIV., b 507-8
  - Utrecht settlement, 1713, a 514
  - Valois-Orleans dynasty begins, a 489
  - Valois, rise of house of, a 481
  - Vendean insurgents, a 533-4, a b 535
  - Westphalian peace, b 503-4
  - William III., England wins treaty of Ryswick, b 510-1
- Index, a 600-5
- Language, a 554-61
  - bibliography, b 560-1
  - derivations, a 560
  - dialects, b 555

France, *continued*
- Language
  - geography a 554
  - history, external, a 554-5; internal, a 555-60
  - inflexions, a 559-60
  - orthography, a 558-9
  - phonology, a 556-8
  - summary, b 560
  - syntax, a b 560
  - vocabulary, a b 555
- Literature, a 561-600
  - Arthurian romances, b 562-3
  - Aventures, Romans d', b 563-4
  - bibliography, a b 600
  - *Cent Nouvelles Nouvelles*, a b 571
  - *Chansons de gestes*, b 561-2
  - chronicles, a 568-9
  - criticism, 18th century, b 589-90; 19th century, a 597-8
  - didactic verse, early, b 566-7
  - drama, early, a 567-8; 16th century, a 573-4; 17th century, b 578-9; 18th century, a b 585; 19th century, b 594-5
  - epics, feudal, b 561-2
  - fabliaux, a b 564
  - fiction, 16th century, a 574-5; 17th century, b 579-80; 18th century, b 585-6; 19th century, b 595-7
  - general sketch, 1789-1830, b 590-2; since 1830, b 592-3
  - history, early, a 568-9; 16th century, a b 575; 17th century, b 580-1; 18th century, b 586-8; 19th century, a b 598
  - lyric, early, a b 565
  - moralists, 16th century, a 576-7; 17th century, a 583-4; 18th century, a b 589
  - origins, a b 561
  - philosophy, 17th century, a 581-2; 18th century, a b 588
  - Pléiade, b 572-3
  - poetry, 15th century, b 569-70; 16th century, a 572-3; 17th century, b 577-8; 18th century, b 584-5; 19th century, b 594-5
  - political writers, 16th century, b 576-7
  - Port Royalists, a b 585
  - preachers, 17th century, a 582-3
  - prose, 15th century, b 570-1; 17th century, a 580-4
  - Provençal, a b 569
  - Rabelais, a b 574
  - renaissance, b 571-2
  - revolution to Charles X., b 590-2

France, *continued*
- Literature
  - *Roman de la Rose*, a b 566; *du Renart*, a 565-6
  - romances, feudal, b 562-4, a b 571; heroic, b 579-80
  - romantic school, modern, b 593-4
  - satiric, early, b 565-6
  - savants, 16th century, a b 577; 17th century, a b 584; 18th century, a b 590
  - sermons, early, a 571; 17th century, a 582-3
  - sociologists, 16th century, a 576-7; 18th century, a b 589
  - summary, b 598-600
  - theologians, 16th century, b 575-6; 17th century, a 582-3; 18th century, b 588-9
  - Troubadours, a b 569

——. See French Academy, Architecture, etc.

——, geography and natural history: Birds, III, a b 633; (Ornithology), XVIII, b 21; Coal, VI, a b 52-3, *b* 73; (Europe), VIII, b 629-30; Famines, IX, a 25; Fisheries, a 234; Forests, b 349, *a b* 350, a b 354; (Fountain), *a b* 429; (Ichthyology), XII, a 671; (Mining), XVI, b 489; (Mushroom), XVII, a b 83; (Opium), a 815; (Oyster), XVIII, a 111; coal measures (Geology), X, a b 310, note; cretaceous system (Geology), a b 318; Jurassic (Geology), b 316; miocene (Geology), a b 322, a 323; oölite (Geology), b 316

—— government and law (Alien), I, b 506, b 507; (Ballot), III, a 251; (Bullion), IV, b 464; (Code), VI, a b 96; (Consul), *a* 282; (Contraband), *a* b 285, note; (Copyright), a 323; (Corn Laws), a 366; (Decimal Coinage), VII, a 20; (Flag), IX, b 243-4; Free Trade, b 665; (Gendarmerie), X, a b 127; (Government), XI, a 13, a b 14, *b* 19-20; (Navy), XVII, b 299, a 300, b 307-8, a 309; (Police), XIX, a b 355; (Post-Office), b 596-9, b 601; postage stamps, a 604; (Press Laws), XIX, a b 732; Patents, XVIII, a b 363; (Veto), XXIV, a 224, a 225; (Witchcraft), a b 656; (Will), b 601

—— political history (Adams, J.), I, *b* 130; (Brougham), IV, *b* 367, a 369; (Buckle), a b 379; (Cobden), VI, b 80, b 81, a 82; (Colbert), a 111-2; (Ferdinand III., Emperor), IX, b 68; (Ferdinand IV., Naples), b 69; (Feudalism), IX, a 105, a b 106, a b 107; Finance, a 150, a 159, a 162; (Law, J.), XIV, b 367-9; (Florida), IX, a 298; (Francis II.), b 609; (Franklin), a 630-1; (Gallatin), X, *a* 36; (Hayti), XI, *b* 486, a 487; (Henry I., II., France), a b 597; (Henry V., England), XI, a 589; (Holland), XII, a b 82, b 83-6; (Italy), XIII, a 444, a b 467, a 482, a 495; (Joan of Arc), b 706-8; (La Fayette), XIV, a 203-4; (Leibnitz), b 418-9; (Louisiana), XV, a 24; (Madagascar), b 174, *a* 175, a 176; (Mahé), a 288; (Mauritius), a 648; (Mazarin), b 658-60; (Marot), XV a 570; (Mexico), XVI, a 903, a 904, b 911; (Lincoln), XIV, b 667; (Monroe), XVI, a b 787; (Montfort), a b 814; (National Debt), XVII, a 250, b 251, b 252, *a b* 254; (Popedom), XIX, b 517, b 518, a 519, b 520, a 523; (Renaissance), XX, a 402-4; (Savoy), XXI, a b 357; (Spain), XXII, a 345-6, b 346-7, a b 349, *a b* 350, *a b* 351, *a b* 352, *a b* 353, *a b* 354, *a b* 356, a b 357, a b 358, *a b* 359, a 360; alliances with Scotland, XXI, a 506, a b 507, a 509; British policy towards (Chatham, Earl of), V, a 383; (Palmerston), XVIII, b 198, a b 199; invasion of (Arabia), II, b 225; (Napoleon), XVII, b 227; National Convention, 1792 (International Law), XIII, b 198; peers of (Peerage), XVIII, b 478-9; relations with Persia, XVIII, a b 659, b 662

——, products of (Absinthe), I, a 58; Bee culture in, III, a 431; (Enamel), VIII, b 168-9; (Exhibitions), a *b* 702, *a* b 703; Fresco, IX, *a* b 681; Glass, X, b 600; Hat, XI, *a* 464; (Lace), XIV, a b 185-6, a b 187, a b 190; (Mule), XVII, b 20; (Miniature), XVI, a 458, a 459; (Rude Stone Monuments), XXI, *a b* 57, a b 58; (Salt), b 239, a b 240, a 242; (Sculpture) (Ill.), b 588-90; (Silk), XXII, b 62, a b 65, a b 66, a *b* 72; (Sugar), a b 658, *b* 659, b 661; (Wine), XXIV, b 636-9

——, religious affairs (Abbé), I, a 16; (Annates), II, b 55; (Bible Societies), III, a b 562; (Canon Law), V, b 20; (Colbert), VI, b 111; (Concordat), a 215; (Deism), VII, b 33-4; (Hincmar), XI, b 746-7; (Henry II.), b 597; (Huguenots), XII, b 351-4; (Inquisition), XIII, a b 99, a 101; (Investiture), a 208; (Jesuits), a 658, b 659, a 660, b 663, b 664, a b 665, b 666; (Jews), a 693-4; (Presbyterianism), XIX, b 712-5; (Quakers), XX, a 159; (Reformation), b 332, b 336-7, a b 347; reorganization of Church, IX, a 541; (Napoleon I.), XVII, b 211, a b 212

France, social affairs (Co-operation), VI, a 301; (Corn Trade), a 369, note; (Costume), a b 419; (Deaf and Dumb), VII, a b 7–8, b 11, a 13; (Duel), a b 442–3; (Education), a b 586, a 589; (Fire), IX, a b 202, note; (Foundling Hospitals), b 425–6; (Freemasonry), b 659–60; (Friendly Societies), b 688; (Gymnastics), XI, a 312; (Heraldry), b 608, a 609, a b 611, b 615, a 618, b 622, a 628, a 630; (Hospital), XII, *a* b 320; (Hunting), b 412; (Infanticide), XIII, b 5; (Insanity), a 105, b 118; (Insurance), a 175, a b 190; (Labor), XIV, a 172, a 174; (Land), b 263; (Libraries), a 523–5, a b 547; (Lifeboat), a 577; (Liquor Laws), b 694; (Lotteries), XV, b 12, a 13; (Money), XVI, a 752, b 753; (Newspapers), XVII, a 422, a b 423, b 434–9; (Nobility), b 543; (Observatory), XVII, a 732; (Peerage), XVIII, b 478; (Periodicals), b 549–51; (Prince), XIX, b 757, a b 758; (Prison Discipline), b 778–9; (Railway), XX, b 261; (Savings Banks), XXI, b 346; (Suicide), XXII, b 662, *a* b 663, *a* 664; (Universities), XXIII, a 894–5; bank of (Banking), III, a 291–2; councils of health (Medicine), XV, b 808; marriage in (Husband and Wife), XII, a b 416; technical schools, XXIII, a 116
FRANCE, INSTITUTE OF, XIII, b 166–7
Francesca, Piero della, painter (Urbino), XXIV, a *b* 14. See PIERO DE FRANCESCHI
—— da Rimini (Rimini), XX, a 571
FRANCESCHINI, Baldassare, painter, IX, a 605
——, Marcantonio, Cavaliere, painter, IX, a 605
Francesco I., duke of Tuscany (Medici), XV, a 801–2
—— da Barberino, judge and poet (Italy), XIII, b 511, a 512
——, Maria of Urbino, duke (Genga), X, *a* 137
Franceville, town (Ogoway), XVII, a 754
FRANCHE COMTÉ, province, IX, a 605–6; (Condé the Great), VI, a 219, b 220; (Jura), XIII, a 791, a 792; steel (Iron), b 288
Franchet and Savatier on plants (Japan), XIII, b 584, note
FRANCHISE, IX, a 606; (Company), VI, b 199; (Prerogative), XIX, b 692; (Sweden), XXII, a 782; British elective (Registration), XX, a 357–8; mediæval (England), VIII, b 235–6, b 290; Roman Republic (Sulla), XXII, *a* 666
FRANCIA, Francesco Raibolini, painter, IX, a b 606; (Schools of Painting) (Ill.), XXI, b 455, a 463, a b 465, a b 467
FRANCIA, José Gaspar Rodriguez, dictator, IX, b 606–7; (Bonpland), IV, a 33
FRANCIABIGIO, painter, IX, a b 607
Franciade, poem (Ronsard), XX, a b 864
FRANCIS I., emperor, IX, a 609; (Austria), III, *a* 111, a 113; (Cicognara), V, b 675; (Germany), X, a b 451; (Hungary), XII, b 385; (Lorraine), XV, *b* 8; (Tuscany), XXIII, b 713; (Thugut), *a* 349
FRANCIS II., Joseph Carl, emperor, or Francis I. of Austria, IX, a b 609; (Austria), III, b 113–8; (France), IX, a 531; (Germany), X, a 452, a 453; (Metternich), XVI, b 208, b 210
FRANCIS I., France, IX, b 607–9; (Astrology), II, b 649; (Beard), III, b 400; (Bourbon), IV, b 157, a 158; (Calvin), b 632, a 634; (Catherine de' Medici), V, a b 205; (Charles V.), b 358, *a* b 359, *a* 360; (Cognac), VI, *a* 106; (Dolet), VII, b 298; (Doria), a 317; (Faber, Jacobus), VIII, b 731; (Fiesco, G. L.), IX, b 129; (France), a 490–2, b 554; (Guise), XI, *a* 236; (Henry II., France), a 597; (Henry VIII., England), *b* 591; (Huguenots), XII, *b* 351; (Leo X.), XIV, b 451; (Leonardo), a b 461; (Libraries), b 523; (Lotteries), XV, b 12; (Marguerite), *b* 545; (Marot), *a* *b* 570; (Mary), *b* 599; (Milan), XVI, b 305; (Montmorency), b 817–18; (Paris), XVIII, b 296; (Pinerolo), XIX, b 115; (Popedom), b 517; (Reformation), XX, a 341, b 346, a b 347; (Renaissance), b 402; (Romance), b 670; (Sarto), XXI, *b* 330; (Savoy), *b* 356; (Switzerland), XXII, *b* 828
FRANCIS II., France, IX, a 609; (France), b 493; (Scotland), XXI, b 522, a b 524, a 525
—— II., Naples (Italy), XIII, b 500
FRANCIS, St., of Assisi, IX, b 609–11; (Catherine), V, *a* 201; (Franciscans), IX, *a* *b* 615; (Fratricelli), b 638; (Italy), XIII, b 510; (Lollards), XIV, *b* 819; (Monachism), XVI, a b 736; (Stigmatization), XXII, a 577; art illustrations (Giotto), X, a *b* 544, a 545; pictures of (Ghirlandajo), X, b 507
FRANCIS, St., of Paola, IX, a b 612
FRANCIS, St., of Sales, IX, b 612–3; (France), a 576, a b 582
——, Alban, monk (Newton), XVII, a 456
——, Francis (Angling), II, *b* 34
——, James B., engineer (Hydromechanics), XII, *b* 454, a 494
FRANCIS, Sir Philip, author, IX, b 613–4; (Burke), IV, a 485, b 486, a 487, a b 488, b 489; (Hastings), XI, a b 459, b 460, b 461; (India), XII, a 842, a 843; (Junius), XIII, b 785–7
——, Philip, divine, IX, b 613; (Gibbon), X, a 513
——, stonemason (Gibson), X, *a* 524
—— a Sancta Clara or Christopher Davenport (Taylor), XXIII, a 100
FRANCIS BORGIA or Borja, Duke of Gandia, IX, b 611; (Gandia), X, b 61; (Jesuits), XIII, b 628, a 660, b 663, a 664
—— on the Plague, XIX, b 170, a 171, b 174, b 178
Franciscan Friar, by Zurbaran (Schools of Painting) (Ill), XXI, b 459, b 465
FRANCISCANS, order, IX, b 614–7
  authorities, a 617
  divisions of, b 614–5
  friars, a 615–6
  nuns, a 616
  tertiaries, a 616–7

—— (Abbey), I, a b 27; (Beghards), III, a b, 438; (California), IV, b 615; Francis, St.), IX, a b 610; (Geography), X, b 159–60; (Giotto), a 544, *a* 545; (Immaculate Conception), XII, a b 754; (Italy), XIII, a 485, b 510; (John XXII.), a 723; (Kempis), XIV, b 34–5; (Lollards), *b* 819; (London), b 855; (Missions), XVI, a 536; (Monachism), b 736–7, a 742; (Occam), XVII, a b 738, b 739; (Odoric), b 748, a 749; (Palestine), XVIII, b 182; (Peru), b 689; (Reformation), XX, a 335; (Scholasticism), XXI, *a* 445, b 446; (Templars), XXIII, b 179, b 180
Franciscans, club (Buckingham), IV, b 373
Francis Joseph, emperor (Academy), I, b 74, a 75; (Austria), III, b 119–23; (Germany), X, b 454, b 457; (Hungary), XII, b 386–9
—— Joseph Philippe, prince of Chimay, V, b 544
—— Phœbus, king of Navarre (Spain), XXII, b 339
FRANCISQUE, painter, IX, a 617. See MILLET, Jean François
Francis's formula (Hydromechanics), XII, b 493–4
FRANCK, painters, IX, a 617
——, Gabriel, painter, IX, a 617
——, John, poet (Hymns), XII, b 621, a 622
FRANCK or Francus, author Sebastian, IX, a b 617; (Germany), X, a 466, b 473; (Mysticism), XVII, b 141
FRANCKE, August Hermann, theologian, IX, b 617–8; (Education), VII, a 586; (Germany), X, a 476; (Pietism), XIX, *a* 92; (Universities), XXIII, b 902–3
FRANCKEN, painters, IX, b 618–9
Francke'sche Stiftungen, institute (Halle), XI, a 353
Francklin, William, soldier (Gaur), X, *b* 103
Franco of Cologne, musical writer (Music), XVII, a 89
Franco-Austrian war, 1859, III, b 120–1; (Balance of Power), a 234; (Cavour), V, a 240; (France), IX, b 549–50; (Germany), X, a 457; (Italy), XIII, a 500; (Napoleon III.), XVII, b 234. See Magenta, Montebello, Solferino
Francœur, Louis Benjamin, geometer (Hydrometer), XII, b 572
Franco-Gallia (Hotman), XII, b 322, a 323
Franco-Italian alliance, 1859 (Italy), XIII; a 500–1. See Franco-Austrian War
—— -Italian literature (Italy), XIII, b 509–10, b 511
—— -Provençal dialects (Italy), XIII, a b 502
Franco-Prussian war, 1870 (Alençon), I, b 422; (Alsace), b 560; (Amiens), b 647; (Army), II, b 526; (Artillery), a 585; (Balance of Power), III, b 234; (Belgium), b 458; (Cavalry), V, a 229; (Fortification), IX, b 413; (Germany), X, a b 459; (Hohenzollern), XII, a 55; (Jesuits), XIII, a 660; (Napoleon III.), XVII, a 235; (Péronne), XVIII, a 564; (St. Quentin), XXI, a 207; (Sedan), a 650; (Thiers), XXIII, b 324; (War), XXIV, a b 364, a 365, a b 368, b 370, a 371, a 374, b 377, a b 378, b 380, b 382, a 383; (Washburne), a b 886; (William I.), b 613, indemnity fine; (Germany), X, *b* 418; (National Debt), XVII, b 249–50, *b* 252
François crater (Pottery and Porcelain), XIX, a 630
FRANCOIS DE NEUFCHATEAU, Nicolas Louis count, statesman and poet, IX, a b 619
—— de Paris, deacon (Jansenism), XIII, a 577
Francolin (Birds), III, b 638, note; (Partridge), XVIII, a 339; kirki (Birds), III, a 659
FRANCONIA, province, IX, b 619–20; (Bavaria), III, *a* b 390, *b* 391, *a* 392; (Germany), X, *b* 431, *a* *b* 433, a 437, a 439, b 441; (Hohenlohe), XII, b 53; (Thuringia), XXIII, a 353
Franconian dialect (Luther), XV, b 77; dynasty (Germany), X, b 436–9; (Zurich), XXIV, a 870
Francorum Chamavorum Lex (Salic Law), XXI, a b 225
Francq, Leon, inventor (Steam-Engine), XXII, a 549
FRANEKER, town, IX, a 620; (Descartes), VII, *a* b 102; (Universities), XXIII, *a* 906
Frangipani, Cencius, Ghibelline chief (Gelasius II.), X, *a* 117

Frank, Jacob, sectary (Jews), XIII, b 691
——, John Peter, physician (Medicine), XV, b 824
—— Joseph, physician (Medicine), XV, a 823, b 824
Frankalmoign, tenure (Littleton), XIV, b 710; (Real Estate), XX, a 318, note, a 320
Franke, Christian Wilhelm, editor (Encyclopædia), VIII, a 185
Fränkel, Jonas, teacher (Jews), XIII, a 692
——, Zacharias, rabbi (Talmud), XXIII, a 43
FRANKENBERG, town, IX, a 620
FRANKENHAUSEN, town, IX, a 620; (Schwarzburg-Rudolstadt), XXI, b 482
Frankenheim, physicist (Electricity), VIII, a b 54
Frankenscharner, furnaces (Lead), XIV, b 376
FRANKENSTEIN, town, IX, a 620
Frankenstein, novel (Shelley), XXI, a 826
FRANKENTHAL, town, IX, a 620
Frankenwald, mountains (Bavaria), III, b 389; (Fichtelgebirge), IX, b 121; (Germany), X, a 403; (Thuringia), XXIII, a 353
FRANKFORT, city, Kentucky, IX, a b 620
FRANKFORT-on-the-Main (Plan), IX, b 620-4
  bibliography, a 624
  buildings, a 621-2
  charities, a 622
  history, a 623-4
  industrial features, a b 622
  institutions of art and science, b 621-2
  personal characteristics, b 622
  political facts, b 622-3
  topography and streets, b 620-1
—— (Cemetery), V, a 288; (Goethe), X, a 643, b 644, b 645, b 647, a 648; (Libraries), XIV, a 548; council of, 794 (Creeds), VI, a 498; National Assembly, 1848 (Germany), X, a 454-5; peace of, 1871 (France), IX, b 552; (Germany), X, b 459; (Metz), XVI, a 212
FRANKFORT-on-the-Oder, city, IX, a 624; (Universities), XXIII, b 898, a b 902, a 904
Frankfurter Journal (Newspapers), XVII, a 422, a 423
FRANKINCENSE, gum, IX, a 624-6; (Fir), a 194; (Incense), XII, b 756, a b 757, a b 758, a 759, a 760
Franking privilege (Post-Office), XIX, a 580 a 584, b 595
Frankland. See FRANCONIA and Franks
Frankland, Edward, chemist (Chemistry), V, a 404, b 471, b 497; (Dietetics), VII, *b* 182-3; (Manure), XV, b 514, *a* 515; (Methyl), XVI, a 206
Franklin, state (Sevier), XXI, a 917; (Tennessee), XXIII, a 195
——, town, New Jersey (Zinc), XXIV, b 823
FRANKLIN, Benjamin, statesman, IX, a 626-33
  Albany Congress, b 627
  Congressional life, a 630
  early migrations, a b 626
  enters public life, a 627
  general colonial agent in England, b 629-30
  last public services, b 631-2
  mission to France, a 630-1
  Pennsylvania agent in London, b 627-8
  personal family, a 632
  printer experience, b 626-7
  review, a 632-3
  stamp-tax controversy, b 628-9
—— (American Literature), I, b 631, b 632; (Comte), VI, b 204; (Court de Gebelin), a 462, (Electricity), VIII, *a* b 7, a 19, a 32, a 33; (Glasgow), X, a 574; (Harmonica), XI, a 430; (Jefferson, J.), XIII, b 626; (Navy), XVII, b 309; (Newspapers), b 444, a 445; (Periodicals), XVIII, a 555; (Philadelphia), a b 754; (Political Economy), XIX, b 397; (Post-Office), a 582, a 595; (Societies), XXII, b 234; (Telegraph), XXIII, b 132, note; (United States), b 779, a 783, b 784, *b* 790, b 791, b 792, a 793, a 796, b 801; (Volta), XXIV, b 304; (Wedderburn), *b* 502; *Autobiography* (Sparks), XXII, a 918
——, James, printer (Newspapers), XVII, *b* 444
FRANKLIN, Sir John, explorer, IX, a 633-5
  Erebus and Terror expedition, a b 634
  memorials and relics, b 635
  records discovered, a b 635
  searches for, b 634-5
  second Arctic expedition and Greek war, b 633-4
  Tasmanian governorship, a 634
  Trent expedition, a b 633
  youth and naval service, a 633
—— (Aurora), III, b 79, a 80, a b 83; (Geography), X, a b 172, a 173, b 174; (Hobart Town), XII, b 32; (Kane), XIII, a 847; (Osborn), XVIII, a 58; (Polar Regions), XIX, a b 331, b 332, a 333, b 334; (Tasmania), XXIII, a 81
——, William Temple, biographer, IX, a 632; (Witherspoon), XXIV, a 907
Franklin Institute, Philadelphia (Evaporation), VIII, a 641; (Philadelphia), XVIII, a 754; (Steam-Engine), XXII, a 514 note
Franklinite, ore (Iron), XIII, a 293, b 297, b 360, a b 361; (Mineralogy), XVI, a 392, a 402; (Zinc), XXIV, a 823
Franklins, homestead-owners (Iceland), XII, b 655, a 656
FRANKS, people, IX, b 635-7; (Arms and Armor), II, b 486; (Charlemagne), V, b 349-50; (France), IX, b 466, a b 467-72; (Frisians), b 691-2; (Germany), X, *b* 427-8; (Holland), XII, *b* 67, a b 73; (Knighthood), XIV, b 113; (Salic Law), XXI, b 222-3, note; (Saxony), *a* 367; (Spain), XXII, b 322; dialects of (Germany), X, a b 462, a *b* 463, a 466
——, kingdom of the (Holland), XII, *a* b 87, a *b* 88; (Germany), X, b 428-31; (Hohenzollern), XII, b 54; (Italy), XIII, b 478, a 479-80; papacy in (Popedom), XIX, b 508-9; papal alliance of (Italy), XIII, b 478, a 479-80
Franks, A. W. (Pottery and Porcelain), XIX, b 653, a b 655
Frank tenement, tenure (Real Estate), XX, a 318
Franz, J. G. (Physiognomy), XIX, b 7, note, *a* 8, note, a b 9
——, Robert, composer (Bach), III, a 169
FRANZÉN, Frans Michael poet, IX, a b 637
Franzenfeste, fortress (Brixen), IV, b 321
FRANZENSBAD, resort, IX, b 637
Franz Josef, emperor. See Francis Joseph
Franz-Josef Fjord (Greenland), XI, b 148
—— Land (Geography), X, a b 175; (Polar Regions), XIX, a 336, a 337, a 340
Franzoniana, Biblioteca, Genoa (Libraries), XIV, a 530, a 550
FRASCATI, town, IX, b 637-8
Fraser or Frazer, lake (Taboo), XXIII, b 22; river (Columbia, British), VI, *b* 151, a 153; (Pacific Ocean), XVIII, b 120; (California), IV, a 622; (Gold), X, *b* 661
——, Alexander Campbell (Berkeley), III, *a* 509, a 511. See List of Contributors
——, James, bishop of Manchester, *b.* 1818, *d.* 1885 (Schools), XXI, b 907
FRASER, James Baillie, traveller, IX, a 638
——, Louis, naturalist (Ornithology), XVIII, a 16; (Pangolin), a b 215
——, Patrick, jurist (Husband and Wife), XII, b 417
——, Simon. See LOVAT
——, Thomas R., chemist (Calabar Bean), IV, a 577; (Strophanthus), XXII, a 640, note
Fraser's composing machine (Typography) (Ill.), XXIII, b 746; distributing machine (Typography) (Ill.), b 747
FRASERBURGH, town, IX, a b 638
Fraser's Magazine (Mahony), XV, b 290; (Periodicals), XVIII, a b 548
Frashaoshtra, courtier (Zoroaster), XXIV, a 860
Fratercula, bird (Puffin), XX, a b 107
FRATRICELLI, sects, IX, b 638; (Lollards), XIV, b 819, a 821; (Monachism), XVI, a 737; (Popedom), XIX, a 516; (Reformation), XX, b 335
FRAUD in law, not in equity, IX, b 638-9; (Contract), VI, a 288; (Crime), b 516; curious (Savings Banks), XXI, b 344; Roman Law (Sale), a 216; contract (Sale), a b 217, b 219, a 220; gems (Cameo), IV, *a* 654; on the public funds of England (Banking), III, a 286
——, statute of (Contract), VI, a 287; (Landlord and Tenant), XIV, b 273-4; (Personal Estate), XVIII, a 677
Fraudulent trustees (Trust), XXIII, a b 637. See Barristers, Commerce, etc.
FRAUENBURG, town, IX, b 639-40
Frauendienst (Germany), X, a 470
FRAUENFELD, town, IX, a 640; (Switzerland) XXII, b 816; (Thurgau), XXIII, b 351, a 352
Frauenkirche, cathedral (Munich), XVII, b 30
FRAUENLOB or Heinrich von Meissen, poet, IX, a 640
Frauenstädt Christian Martin Julius, philosopher, (Schopenhauer), XXI, a 476, b 477, a 479
FRAUNHOFER, Joseph von, optician, IX, a b 640; (Light), XIV, *b* 596, a b 597, note; (Micrometer), XVI, b 252, note, b 253, a 260, a 261, a 266; (Radiation), XX, a 222; (Telescope), XXIII, b 150; diffraction phenomena of (Wave Theory), XXIV, b 452-5, b 458, b 461; governor of (Telescope) (Ill.), XXIII, b 169; mounting of (Telescope), a b 162; object-glasses of (Telescope), *b* 153, a b 154, a 155, b 158; lines of, IX, b 640
FRAUSTADT, town, IX, b 640
Fraxinella or dictamnus (Botany) (Ill.), IV, b 114, a 124, a 129
Fraxinus, tree (Ash), II, b 594; (Botany), IV, b 134, a 137, a 140; (Horse Chestnut), XII, a b 210; chinensis (Wax), XXIV, b 485; excelsior (Arboriculture), II, a 278; ornus (Manna), XV, a 500
Fray Bentos, town (Uruguay), XXIV, a 20
FRAYSSINOUS, Denis Antoine Luc, comte de, prelate, IX, b 640
Frazer, J. G., archæologist (Vesta), XXIV, a b 209, note. See List of Contributors
——. See Fraser
Freckles (Anatomy), I, a 788
Fredegarius, historian (Narses), XVII, b 240 note
Fredegond, queen (France), IX, b 468

Frederic of Mainz, archbishop (Germany), X, a b 434
Frederici, Cesare de, traveller (Ormuz), XVII, a 882
—— of Gera, musical instrument maker (Pianoforte), XIX, *a* 80, b 81
FREDERICIA, town, IX, a 641
——, town (Denmark), VII, *a* b 73
FREDERICK, name, IX, b 641
FREDERICK I., Barbarossa, emperor, IX, b 641-3; (Adrian IV.), I, a 151; (Alexander III.), a 430; (Arnold), II, a 547; (Franche Comté), IX, b 605; (Frederick II., Emperor), b 644–5; (Germany), X, b 439–40, b 468; (Hagenau), XI, a 330; (Henry the Lion), a 600; (Isaac II.), XIII, a 385; (Italy), a 483–4; (Kaiserlautern), *a* 834; (Popedom), XIX, b 514, a 515; (Rome), XX, a 811–2; (Universities), XXIII, b 888, note, *a* 889; (Urban III.), XXIV, *b* 12
FREDERICK II., emperor, IX, a 643–5; (Arabian Philosophy), II, b 236–7; (Bustard), IV, b 515; (Crusades), VI, b 556; (Eccelino), VII, *a* 538; (Egypt), b 654; (Enzio), VIII, a b 404; (Foggia), IX, b 309; (Germany), X, *b* 440, a b 441; (Gregory IX.), XI, *a* 159; (Innocent IV.), XIII, a 91; (Italy), XIII, *a* b 485, a b 510; (Lucera), XV, b 41–2; (Milan), XVI, a 305; (Numismatics), XVII, b 672–3; (Palermo), XVIII, *b* 173; (Popedom), XIX, a 515; (Ptolemy), XX, a 93; (Renaissance), a 395; (Rome), a b 813–4; (Scot), XXI, *a* 491; (Sicily), XXII, b 31, a b 32; (Templars), XXIII, b 171, a b 178; (Treason), b 561, note; (Universities), a 888, b 890, a 892; (Vigna), XXIV, a 243; (Walther von der Vogelweide), *b* 361
FREDERICK III., emperor, IV., German king, IX, a b 645; (Austria), III, b 108; (Charles the Bold), V, a *b* 368; (Germany), X, a b 445; (Hungary), XII, a *b* 383; (Libraries), XIV, b 526; (Pius II.), XIX, b 162, b 163; (Popedom), a b 517; (Siena), XXII, a 47; (Switzerland), b 824
—— of Augustenburg, prince (Germany), X, a 458
——, king of Bohemia. See Frederick V., Elector Palatine
—— I., king of Denmark, VII, a 75
—— II., Denmark (Brahe), IV, *a* 181
—— III., king of Denmark, VII, *b* 75–6; (Libraries), XIV, b 531
—— IV., king of Denmark (Charles XII.), V, a b 361; (Denmark), VII, a 76; (Schleswig-Holstein), XXI b 433
—— V., king of Denmark, VII, b 76, b 79
—— VII., king of Denmark, VII, a 72, b 77–8; (Germany), X, b 454, a 456
FREDERICK I., Prussia, IX, a b 646; (Germany), X, a 451; (Hohenzollern), XII, b 54; (Prussia), XX, a b 12
FREDERICK II., Prussia, the Great, IX, b 646-50
  alliances, last European, a b 649
  court of, a b 648
  internal administration, b 647–8, b 649
  memoirs of, a 650
  personal qualities, b 649-50
  Silesian wars, b 647, b 648
  youth and accession of, b 646–7
—— (Army), II, a b 495, b 519; (Artillery), a 575; (Austria), III, a 111, a 113; (Bach), a 169; (Balance of Power), b 231; (Calendar), IV, a 601; (Cavalry), V, b 228; (Chatham), a 383; (Code), VI, b 96; (D'Alembert), b 682–3; (Daun), a b 734; (Euler, Leonard), VIII, a 584; (Europe), a 628; (Ferdinand of Brunswick), IX, b 74; (Fortification, b 380, b 401; (France), a 516; (Germany), X, a b 451, b 476, a 477; (Graun), XI, a 58; (Holbach), XII, b 55; (Jews), XIII, *b* 690; (Joseph II.), b 760, a 761; (Minden), XVI, b 358; (National Debt), XVII, b 249; (Newspapers), b 439, note; (Pianoforte), XIX, b 78; (Pius VI.), a 165; (Potsdam), b 616, a 617; (Pottery and Porcelain), a b 660; (Prussia), XX, b 13–5; (Russia), XXI, a b 107; (Silesia), XXII, a b 58; (Sturgeon), a 644; (Trenck), XXIII, a b 576; (Universities), a 902, a 903; (Voltaire), XXIV, a b 308, *a b* 309, a 310, a 311; (War), b 364, a 369; (Zimmermann), a 823; monument of (Rauch), XX, a 307
—— III., of Prussia, emperor of Germany, *b.* 1831, *d.* 1888; mentioned as Crown Prince (War), XXIV, *a* 373
—— I., king (Sweden), XXII, a b 789
—— II., king of Sicily and Aragon (Sicily), XXII, *a b* 33
—— I., duke of Würtemberg, XXIV, a 738
——, king of Würtemberg, XXIV, a b 738
—— I., elector of Brandenburg (Prussia), XX, a b 7, a 8
—— II., elector of Brandenburg (Prussia), XX, a 8
FREDERICK I., elector Palatine, IX, a 652
—— II., elector Palatine, IX, a 652
FREDERICK III., elector Palatine, IX, a b 652; (Palatinate), XVIII, a 171
—— IV., elector Palatine, IX, b 652; (Tables), XXIII, a 13
FREDERICK V., elector Palatine and king of Bohemia, IX, b 652; (Alting), I, *a* 565; (Austria), III, a 109; (Germany), X, *b* 448, b 449; (Palatinate), XVIII, a 171
FREDERICK I., the Warlike, elector of Saxony, IX, a b 651; (Saxony), XXI, a b 368-9
FREDERICK II., the Mild, elector of Saxony, IX, b 651; (Saxony), XXI, a 369
FREDERICK III., the Wise, elector of Saxony, IX, b 651; (Charles V.), V, b 358; (Saxony), XXI, a 369; (Spalatin), XXII, *a* 380
—— II., duke of Austria, III, a b 108
FREDERICK III., the Fair, duke of Austria, duke, IX, a 645; (Austria), III, b 108; (Germany), X, *a* 443; (Louis IV.), XV, b 18; (Switzerland), XXII, *b* 821, a 822
—— V., duke of Austria (Switzerland), XXII, a 824; (Thurgau), XXIII, *a* 352
—— I., duke of Swabia (Germany), X, *a* b 439
—— V., duke of Swabia (Teutonic Order), XXIII, a 218
—— II., landgrave (Cassel), V, b 159, a 160; (Hesse-Cassel), XI, b 696
—— III., count of Zolre (Hohenzollern), XII, b 54
—— the Grave, margrave of Meissen (Saxony), XXI, b 368
—— of Santiago or Don Fadrique (Pedro I.), XVIII, a b 461
FREDERICK AUGUSTUS I., king of Saxony, IX, b 651–2; (Saxony), XXI, b 370–1; (Weber), XXIV, a b 495
FREDERICK AUGUSTUS II., king of Saxony, IX, a 652; (Saxony), XXI, a b 371
Frederick Augustus I., elector of Saxony. See AUGUSTUS II. of Poland
—— II., elector of Saxony. See AUGUSTUS III. of Poland
—— III., elector. See FREDERICK AUGUSTUS I., king of Saxony
—— Charles Nicholas, prince of Prussia (St. John of Jerusalem), XXI, a 184; (War), XXIV, *a* 373
FREDERICK CITY, IX, b 652
—— Eugene, duke of Würtemberg, XXIV, a 738
—— Henry of Orange-Nassau, stadtholder (Holland), XII, b 81, a b 82; (William the Silent), XXIV, b 615
—— Louis, prince of Wales (Bute), IV, b 517; (Chatham), V, b 381, a 382; (George II.), X, a 380
FREDERICKSBURG, city, IX, b 652
——, Battle of, 1862, III, a 384; (Hooker, J.), XII, b 153; (Sedgwick), XXI, b 915; (United States), XXIII, a 826, a 837
FREDERICKSHALD or Frederickshall, town, IX, a 652-3; siege of, 1718 (Charles XII.), V, b 365
FREDERICKSTAD, town of Norway, IX, a 653
Frederickstadt on the Eider, town (Holland), XII, b 81
FREDERICK WILLIAM I., king of Prussia, IX, b 646; (Germany), X, a 451; (Jews), XIII, *b* 690; (Prussia), XX, b 12–13; (Wolff), XXIV, *b* 665
FREDERICK WILLIAM II., Prussia, IX, a b 650; (Germany), X, a 452; (Kant), XIII, a 856; (Prussia), XX, a 15
FREDERICK WILLIAM III., IX, b 650–1; (Bunsen), IV, b 467, *a* 468; (Engel), VIII, *a* 194; (Gentz), X, a 146; (Germany), a 452–3; (Humboldt, A.), XII, a 358; (Metternich), XVI, a b 209; (Prussia), XX, a 15–16; (Stein), XXII, *a* 558
FREDERICK WILLIAM IV., IX, a 651; (Bunsen), IV, a b 468–9; (Germany), X, b 453–7; (Humboldt, A.), XII, b 358; (Prussia), XX, a b 16; (William I.), XXIV, *b* 613
FREDERICK WILLIAM, elector of Brandenburg, IX, b 645–6; (Germany), X, b 450, a 451; (Prussia), XX, b 10–12
—— William I., elector of Hesse (Hassenpflug), XI, b 456, a 457; (Hesse-Cassel), b 696
—— William Charles, prince of Orange (Belgium), III, *a b* 456
FREDERICTON, city, IX, a 653; (New Brunswick), XVII, b 382, a b 383, a b 384
Frederikshaab, village (Greenland), XI, b 152
Frederikshavn, city (Denmark), VII, a b 71, b 72
Fredeiksted, town (St. Croix), XXI, a 169
Frederiksværn, town (Laurvik), XIV, b 350
Fredman's Epistles and Songs (Bellman), III, *b* 473
Fredonia, N. Y., town (Gas and Gas-Lighting), X, a 79; (Natural Gas), XVIII, a 895, a 899; (United States), XXIII, b 865
Fredricella, genus (Polyzoa), XIX, a b 451
Fredro, Alexander, dramatist (Poland), XIX, a b 315
Free-Bench, law-term, III, a 480
Freeboard, height of (Shipbuilding), XXI, b 853
Free burghs, Scotch (Borough), IV, a 57
Free-cell formation (Histology), XII, b 15
FREE CHURCH OF SCOTLAND, IX, a 653-6
  financial organization, b 654–5, a 656
  formulæ of, a b 655
  literature of, a b 656
  Macmillan case, b 655–6
  origin, a 653
  "Ten Years' Conflict," b 653–4
  spiritual jurisdiction, history of reformed, a b 653
  union with dissenting bodies, b 656

Free Church of Scotland (Candlish), IV, b 710; (Chalmers), V, b 326, a b 327; (Cunningham, W.), VI, a 625; (Miller, Hugh), XVI, b 331; (Scotland), XXI, b 563, a 564; Divinity College of (Aberdeen), I, a 43
Free cities (Guelderland), XI, a 216; (Hamburg), a 365; (Holland), XII, a 75; in France (Army), II, a 494; imperial, IX, b 656-7. See Cities, HANSEATIC LEAGUE, MUNICIPALITY
"Free Congregations" (German Catholics), X, a 400; (Gustavus Adolphus Union), XI, a 300
Freedmen, Roman (Patron and Client), XVIII, b 423, a 424; (Slavery), XXII, b 141–2, a b 143
Freedom, colonial (United States), XXIII, b 781; English, progress of, VIII, a 267, b 271, a b 277, b 279, b 285, a b 315, b 317
—— in Mechanics, XV, b 685-6
——, metaphysical (Cartesianism), V, a b 128, a 132; (Kant), XIII, a 864; (Metaphysic), XVI, b 97; (Theology), XXIII, a 283; Spinoza on (Cartesianism), V, b 138. See Free-will
—— of conscience (Penn), XVIII, b 503, a 504, a 505. See ETHICS, Morality, Toleration
Freedom of the Human Will (Edwards, Jonathan), VII, b 597, a b 598, a b 599
—— of the press (Heine), XI, a 559; *Apology for* (Hall, Robert), XI, b 349. See Censorship, Press Laws
—— of speech (Parliament), XVIII, b 316–17
—— suits (Slavery), XXII, a 908
Free Electricity, VIII, b 33-4
FREEHOLD, law, IX, b 656; (Abatement), I, b 12; (Copyhold), VI, b 315, *a* 316; (Husband and Wife), XII, b 416; (Land), XIV, a 265; (Landlord and Tenant), b 274
Freeholder, The, periodical (Addison), I, a 137
Freeholders, tenants (Commons), VI, b 186, a 187; (Feudalism), IX, a 108; decline of (Rome), XX, b 775
FREE IMPERIAL CITIES, IX, b 656-7
Free Inquiry (Hume), XII, b 362; (Middleton), XVI, b 294
Free Italian church (Italy), XIII, b 469
Free-love (Enfantin), VIII, b 192
"Free Magnetism," XV, a b 243
Freeman, Captain, explorer (Polar Regions), XIX, a b 342
——, Edward A., historian (Glastonbury), X, b 601, b 602; (Greece), XI, a 83, note; (Knighthood), XIV, a b 113, a b 114, note, b 127–8; (Ragusa), XX, a b 228; (Ravenna), b 308–9, a b 310; (Titles of Honor), XXIII, a b 445, notes; (Jury), XIII, *b* 793, a 794. See List of Contributors
——, James, divine (Unitarianism), XXIII, a 774, note
Freeman's Journal (Newspapers), XVII, a 434
Freeman's Well (Alnwick), I, a 525
Freemantle, town (Western Australia), XXIV, b 536
"Free martin" (Cattle), V, b 214
FREEMASONRY, IX, a 657–61
  antecedents of, a b 657
  England, b 658
  France, b 659-60
  future of, b 660
  Germany and America, a b 660
  Ireland, b 658–9
  mediæval corporations, b 657–8
  myths and etymology, b 660–1
  origin of, a 658
  Scotland, a b 659
—— (Cagliostro), IV, a 569; (Clement XII.), V, a 718; (Kilwinning), XIV, a 79; (Lessing), a 482; (Labor), a 168; (Mozart), XVII, a 17, note; (Portugal), XIX, a 566; (St. Germain), XXI, b 178
Freemasons' Tavern (Madrigal), XV, b 193
Freemen, ancient (Germany), X, *b* 425, *a* 426, *b* 430, b 433, a b 442; (Municipality), XVII, a 34; Teutonic (Army), II, *b* 493 494
FREEPORT, city, IX, a 661
Free Press (Garrison), X, a 77
Free Quakers, sect (Quakers in U. S.), XX, a b 893
—— Schools, XXI, b 908–9
—— Society of Traders (Penn), XVIII, a b 506
—— soil party (Republican Party), XX, b 905; (Sumner), XXII, a 934; (Taylor), XXIII, b 102, note; (United States), b 816, b 818; (Wilson), XXIV, a 622. See Abolitionists, Anti-Slavery Party, REPUBLICAN PARTY
Free-state settlers (United States), XXIII, b 819-20
Freestone, rock (Geology), X, a 212
Free surface level (Hydromechanics), XII, b 480
FREETOWN, town, IX, a 661; (Sierra Leone), XXII, b 49, a b 50
FREE TRADE, IX, a 661–70
  antiquity of protection, a 662, b 667–8
  definition, a b 661
  duties, effects of, a b 667
  effect on England, a b 666
  emigration, b 668–9
  food taxes, a 664–5
  government interference with trade, b 661-2
  guilds, a 668
  land, free trade in, a 669-70
  landowners and merchants, English, b 662-3
FREE TRADE, *continued*
  law of prices, a b 665
  mercantile system, a b 662
  Mill on manufactures, b 663-4
  patriotic arguments, b 665
  protection, effects of, a b 663, a b 667
  restricted pursuits and professions, a b 668
  socialism of labor, a 666-7
—— (Adulteration), I, b 152; (Alien), a 507; (Algiers), a 498; (Canada), IV, *b* 687; (Canning), *a* 715; (Cobden), VI, b 79–81; (Commerce), b 183–4; (Corn Laws), b 365; (Derby), VII, a b 97; (England), VIII, b 327–8; (Faucher), IX, a b 46; (Finance), b 164; (France), b 462; (Germany), X, *a* 418; (Government), XI, b 14–5; (Liquor Laws), XIV, a 694, a b 695, a 696; (McCulloch), XV, b 135; (Money), XVI, a 763; (Paterson), XVIII, a b 365; (Peel), b 467
—— ascendency (Protection), XIX, a 938; association, France (Bastiat), III, b 370; Bastiat on, a 371; (Political Economy), XIX, b 399; Cairnes on (Political Economy), b 395; early English (Scotland), XXI, a 538, *b* 540, a 541; fallacy of (Protection), XIX, b 926; German school (Political Economy), a 408; North's theory of (Political Economy), a 371; paradoxes (North, Sir D.), XVII, a 568; party, Democratic (United States), XXIII, b 833, b 834; peacemaking (Protection), XIX, a 936; Smith's view of (Political Economy), b 381–2
Free-will (Buridan), IV, a 481; (Cameron), b 655–6; (Cousin), VI, a 466; (Cudworth), b 611; (Duns Scotus), VII, a 471; (Ethics), VIII, b 534–5; (Hartley), XI, b 445; (Kames), XIII, b 842; (Metaphysic), XVI, a 90, b 97; (Molina), a b 653; (Paul), XVIII, b 437; (Pelagius), a 483; (Predestination), XIX, a b 690; (Psychology), XX, a 90; (Schleiermacher), XXI, a 430; (Scholasticism), a 447; Augustine's theory (Ethics), VIII, b 521, note; and predestination (Suarez), XXII, a b 648. See ETHICS, Freedom, Moral Sense
FREEWILL BAPTISTS, IX, a 670
Freezing (Lake), XIV, b 220-1; mixtures (Ice), XII, b 647; (Methyl), XVI, a b 204; point (Evaporation), VIII, a 641–2; (Ice), XII, b 646, a 647; (Thermodynamics), XXIII, b 307; (Thermometer), b 308
Fregata, family (Frigate Bird), IX, a b 690
Fregellæ, town (Rome), XX, *b* 760, *a* 761. See PONTECORVO
Fregilupus, genus (Birds), III, b 659
Fregonde of Lombardy, princess (Romance), XX, b 667-8
Freguezias, parishes (Portugal), XIX, a 554
FREIBERG, town of Saxony, IX, a 670; XXI, b 370, a b 373
—— amalgamation process (Silver), XXII, b 76-7; mines (Mining), XVI, b 468–a 469, b 478, a 479
FREIBURG, city of Baden (Map), IX, b 671–2; (Baden), III, a *b* 194
——, town, Silesia, IX, b 672
FREIBURG or Fribourg, canton, IX, a 670–1; (Switzerland), XXII, a b 816, a 817, a b 818, a 819, a b 826, a *b* 829, a 830, a b 831, b 833, *b* 834; town, IX, b 671; (Switzerland), XXII, b 861, *a* 827, a 830, a b 831, b 832
FREIDANK or Freigedank, poet, IX, b 672; (Germany), X, b 470
Freight cars (Railway), XX, a b 257, a b 258; charges (Average), III, a 129; cost of moving (Pacific Railroads), XIX, a 918; locomotives (Railway), XX, a b 256-7; in marine Insurance, XIII, a b 193; rates (Railway), XX, b 231, a 237–8, *b* 261, *a b* 262, a b 263, a 264, b 265–6; traffic (England), VIII, b 215; (Railway), XX, a b 237, b 239–40, a 265–6, 267; reduction of railway (United States), XXIII, a 831
FREILIGRATH, Ferdinand, poet, IX, b 672–3; (Germany), X, a 438
FREIND, John, physician, IX, b 673-4
FREIRE, Francisco Joze, historian, IX, a 674
Freischöffen, assessors (Fehmic Courts), IX, *b* 56
FREISCHUTZ, marksman, IX, a 674
Freischütz, Der, opera, IX, a 674; (Hawes), XI, b 476; (Weber), XXIV, a 495, *a* 496
FREISING, town, IX, a 674
Freisingian MSS. (Slavs), XXII, b 156, a 158, b 159
Freitag, engineer (Fortification), IX, b 407
FREIWALDAU, town, IX, a 674
FRÉJUS, town, IX, a b 674; gulf of (Var), XXIV, b 75
FREMONT, city, IX, b 674
Fremont, John Charles, general (California), IV, *a* 616; (Lincoln), XIV, a 666; (Pacific Railroads), XIX, b 913; (Republican Party), XX, a 906; (Surveys), XXII, b 935
Fremont's Peak (America), I, b 595; (Wyoming), XXIV, b 748, note
Frémy, Edmond, chemist (Rhea), XX, a 521
Frencel or Brancel, Michael and Abraham, philologists (Slavs), XXII, b 163
French, people (Machiavelli), XV, a b 149; military character of (Army), II, b 527–8

French Academies of Science, I, a b 69
—— Academy, I, a 73; (Conrart), VI, *a* 259; (Dictionary), VII, a 156, *a* 157, a 160; (Duclos), a 438; (France), IX, a 503, a 579; (Greuze), XI, *b* 168; (Laplace), XIV, a 302; (Paris), XVIII, b 297; (Perrault), a 568. See ACADEMY
—— Academy of Medicine, I, a 75
—— Academy at Rome (David), VI, a b 741
—— Academy of Sciences (Aëronautics), I, b 175–6; (Newton), XVII, b 458; (Sodium), XXII, a 255. See Academies
—— acquisitions (Algeria), I, a *b* 497, note, a 498, a 499; Cambodia, IV, a 641; (Cochin China), VI, b 85, b 86, b 88, a 89; Corsica (Paoli), XVIII, b 220, a 221; from Germany, X, a 448, b 449, *b* 450, a b 452; in India (Clive), VI, b 9; in Italy (Palmerston), XVIII, a 201; (Sahara), XXI, b 159; (Tahiti), XXIII, a 30; (Tong-King), a 468, a b 469
—— alliance with Italy, 1859, XIII, a 500–1; with Scotland, XXI, *a* 514, a 517, *a* 519, *a* 520, a 521, a 522, b 522–3, b 524; with United States, 1778, XXIII, b 790, b 791, *a* b 792
—— and Indian war, 1756–60 (New Jersey), XVII, a 409; (Pennsylvania), XVIII, b 514; (United States), XXIII, b 782; (Washington), XXIV, a 409; concluded by treaty, 1763 (Paris), XVIII, a 299
—— architecture (Hittorff), XII, a 30; Gothic Architecture, II, b 371, a 376–7, a b 379; modern Architecture, a b 386
—— army, II, a 525; IX, b 455–6; (Dietetics), VII, a b 184; (Military Law), XVI, b 312. See ARMY
—— art (Fresco), IX, a 681; (Glass), X, a 596, b 600; (Gleyre), a b 605; (Ivory) (Plate VII), XIII, b 533; (Metal-Work), XVI, b 83, a 84; (Miniature), XVI, a b 458, a 459; (Pottery and Porcelain) (Ill.), XIX, b 642, b 648–50, b 656; (Schools of Painting) (Ill.), XXI, a b 460, a 464, b 465, a 466, b 468–9; (Sculpture) (Ill.), b 588–90; (Textiles), XXIII, a 231; (Wood-Carving), XXIV, b 682
—— artillery, II, a 573, b 575, b 576–7, b 581; Breviaries, IV, b 235; Calendar, a 590, b 592
—— Canadians, IV, b 675, a b 676, a b 678, a 689
—— cartography (Map), XV, b 528, a 529; casements (Building) (Ill.), IV, b 442–3
—— Church (Colbert), VI, b 111; (Hincmar), XI, b 746–7; (Henry II.), b 597; (Popedom), XIX, b 522, a 523; reformed (Presbyterianism), a 713, b 715; re-establishment of (Napoleon I.), XVII, b 211, a b 212; (Pius VII.), XIX, b 165
—— Clocks, VI, a 23, a 25, a 28, a 32
—— coin (Money), XVI, b 753, a 754; (Numismatics), XVII, b 673
—— Colonies, VI, a 143, b 144; (Africa), I, b 220, b 236, b 240, a b 241, b 243; (Algeria), a 496–502; (America), *a* 627; (Brazil), IV, *a* b 206; (Commerce), VI, b 180; (Comores), b 196; (Coolie), b 298; (France), IX, b 464–5; (Guiana), XI, a 225–6; (India), XII, b 782, a 783; (Madras), XV, b 188; (Maine), b 303; (Mississippi), XVI, a 547; (Slavery), XXII, b 148–9; (United States), XXIII, b 777–8, b 781–3. See French acquisitions and French India Company
—— deism (Apologetics), II, b 168
—— Drama, VII, a 340, a 341, a 358, b 365–9; economists (Political Economy), XIX, b 395–400, b 408–9; (Protection), b 941
—— empire, first (France), IX, a 542–4; (Napoleon I.), XVII, a b 232; second (Broglie), IV, b 324; (France), IX, b 548; (Napoleon III.), XVII, b 234–5
—— epitaphs, VIII, b 439
—— finance (Calonne), IV, a 630; (National Debt), XVII, b 252; (Necker), b 321; (Turgot), XXIII, a b 669
—— India Company (Asia), II, b 613; (India), XII, a b 839–40, a 841, a b 843
—— industrial schools (Technical Education), XXIII, *b* 115, a b 116–7
—— Institute. See INSTITUTE OF FRANCE
—— invasions (Mexico), XVI, b 228; (Scotland), XXI, b 511, b 512; (Siam), a b 894; (Tunis), XXIII, b 661. See French Acquisitions
—— kings (Primogeniture), XIX, a 756; (Seals) XXI, a 614; oath of (Slavs), XXII, a 159; (Tours), XXIII, a 522
FRENCH LANGUAGE, IX, a 554–61; (Accent), I, a 77, b 78; (Academy), a b 72, a 73; (Belgium), III, b 445; (Dictionaries), VII, b 159–60; (Diplomacy), a 220; (Diplomatics), a b 221–2; (England), VIII, b 278, b 284, b 292; (Europe), a–b 614; (France), IX, b 475, a 572, a 577; (G), X, a b 3; (Latin), XIV, b 340, *a b* 341, a 342; (N), XVII, *a* 166; (Sicily), XXII, b 30, *a* 31; (Treaties), XXIII, b 564; (Y), XXIV, a 758; culture of (Stephens), XXII, a b 563; genesis of (Philology), XVIII, a 791
—— law (Divorce), VII, b 264; (Government), XI, b 14; (Marriage), XV, a b 575, a 576; (Sedition), XXI, a 651; (Treason), XXIII, a 559, note; trials (Criminal Law), VI, a b 521. See Law, French
—— Learned Societies, XXII, *a* 233, a b 235, *b* 236, *a b* 237, a b 238, *a* b 239, a b 240
FRENCH LITERATURE, IX, a 561-600; (Balzac), III, b 263; (Boileau Despreaux), b 725; (Fables), VIII, b 725; (Mérimée), XVI, b 41, a 43; (Michelet), a b 245; (Pamphlets), XVIII, b 209–10; (Pastoral), b 250–1; (Poetry), a 284; (Regnier), XX, b 360–1; (Renaissance), a b 403; (Romance), a b 676; (Sainte-Beuve), XXI, a b 172; (Sandeau), a 270; (Stael), XXII, b 456-9
—— Methodist conference (Methodism), XVI, a 199
—— monasteries (Libraries), XIV, a 512–13; Monasticism, XVI, a b 739; Municipalities, XVII, a b 35, a 37
—— navy (Admiral), I, a 142, b 144; (France), IX, b 456–7; (Navy), XVII, a b 292; noblesse (Nobility), XVII, b 538; Observatories, XVII, a b 732; Ornithology, XVIII, b 21
—— physicians (Medicine), XV, a 809
—— revolution, 1789, IX, b 525–32; (Agrarian Laws), I, a 257; (Army), II, b 495–6, b 525–6, a 528; (Austria), III, b 113–4; (Bailly), a 211; (Burke), IV, b 487–9, a b 490; (Canning), b 714; (Chatham, Earl of), V, a 383; (Chenier), a 505; (Clootz), VI, a 37; (Coleridge, S. T.), *a* 123; (Condorcet), a b 226; (Corn Laws), b 364; (Danton), a 718–20; (David), b 741; (Desmoulins), VII, a 113–14; (Dumouriez), b 458; (Education), b 586; (England), VIII, b 322–3; (English Literature), b 385; (Europe), a b 628; (Fabre d'Eglantine), b 735; (Fauchet), IX, b 46, a 47; (Fersen), b 98; (Festivals), a 103; (Fichte, J. G.), b 118; (Fitzgerald, E.), b 236; (Fontanes), b 318; (Fouché), IX, b 420–1; (Fouquier-Tinville), a 431; (Fox, C. J.), b 439, a 441; (Garat), X, a 66; (Gentz), b 145; (Geoffroy St. Hilaire), b 155–6; (George III.), a 383; (Germany), a 452, b 482–3; (Goethe), a b 651, a b 652; (Grétry), XI, a 168; (Guizot), a b 238; (History), XII, a 26; (Hoche), b 42–3; (Holland), b 85; (Italy), XIII, b 495; (Libraries), XIV, a 524, a 525; (Londonderry), b 864; (Lyons), XV, a 114; (Mackintosh), b 161, a 162; (Marat), a 534–5; (Marie Antoinette), a b 547; (Marseilles), b 580–1; (Metternich), XVI, b 207; (Michaud), a 237; (Mirabeau), b 518, b 520; (Monachism), b 739, a 740; (Napoleon I.), XVII, a 200–11; (National Debt), b 252; (Newspapers), a b 436; (Orleans), b 877–8; (Paine), XVIII, a 141; (Pamphlets), a 210; (Paris), a 298, a 299; (Pétion de Villeneuve), b 716; (Pitt), XIX, a 153–4; (Popedom), b 522; (Rome), XX, a 824; (Saint-Just), XXI, b 185–6; (Sieyès), XXII, b 51; (Switzerland), b 831–2; (Talleyrand), XXIII, a b 35; (Tallien), b 37; (Thiers), b 323; (Tocqueville), a 459; (Toulon), b 514–5; (Trappists), b 557–8; (United States), a *b* 803; (Vergniaud), XXIV, b 178, a b 179; histories of (France), IX, b 598
—— revolution, 1830 (Charles X.), V, b 357–8; (Germany), X, a 453; (Guizot), XI, a 239; (Metternich), XVI, b 210; (Michelet), a 244; (Palmerston), XVIII, a b 198; (Socialism), XXII, a 220; (Thiers), XXIII, a 324
—— revolution, 1848 (Affre), I, b 203; (Arago), II, a 265; (Cavaignac), V, a b 226; (Fould), IX, b 422; (Italy), XIII, a 498; (Lamartine), XIV, b 233–4; (Ledru-Rollin), b 398; (Michelet), XVI, b 244; (Napoleon III.), XVII, a 234; (Socialism), XXII, b 220
—— river (St. Lawrence), XXI, b 187
—— school of Anatomy, I, a 707-9
—— socialists (Socialism), XXII, b 219–21, a b 228; societies (Coöperation), VI, b 301, a 302
—— Universities, XXIII, a b 889, b 890–1, a 894–5, a 900, a b 902, b 906–7
—— Veterinary Science, XXIV, b 214
—— Weights and Measures, IX, b 464; XXIV, b 507; Whist, a b 575; Wines, a 635, b 636–9
FRENCH, Nicholas, pamphleteer, IX, b 674
Frend, William, mathematician (De Morgan), VII, b 57
Freneau, Philip, author (American Literature), I, b 633
Frentani, tribe (Italy), XIII, b 454, b 456; (Rome), XX, *a* b 761, b 763; (Samnites), XXI, a *b* 260
Frenzelite (Mineralogy), XVI, b 410
Frere, Sir Henry Bartle Edward, governor, *b.* 1815, *d.* 1884 (Abyssinia), I, b 66; (Missions), XVI, a 541; (Sind), XXII, b 99; (Slavery), b 152; (Zululand), XXIV, b 868
FRERE, John Hookham, writer, IX, b 674–5; (Moore, Sir J.), XVI, a b 831
——, Judith, mistress (Béranger), III, a 502
——, Serjeant (Paston Letters), XVIII, a 350

Frere's method of printing (Blind), III, b 718, a 719
FRÉRET, Nicolas, scholar, IX, a b 675; (Chronology), V, b 623
Freretoп, town (Mombasa), XVI, a 724
FRÉRON, Élié Catherine, critic, IX, b 675–6; (Periodicals), XVIII, b 550; (Voltaire), XXIV, *a* 311
FRÉRON, Louis Stanislas, revolutionist, IX, a 676
FRESCO, IX, a 676–81
  - description of the art, a 676
  - Giotto, b 677, a 678
  - Giuuta and Cimabue, a b 677
  - Gozzoli, Lippi, Perugino, a b 679
  - Masaccio and Angelico, b 678-9
  - Michel Angelo, age of, b 679-80
  - modern, b 680
  - pigments and methods, b 677–8, b 680–1
  - Raphael, a b 680
  - Roman, ancient, a 676–7

—— (Cartoon), V, b 144; (Mosaic), XVI, a 880; (Mural Decoration), XVII, a 49, b 52–3; Egyptian (Ornithology), XVIII, b 6, note; (Tempera), XXIII, a b 173, a 174; spirit process (Mural Decoration), XVII, a 54; technical methods of Raphael, XX, a b 291. See Frescos
FRESCOBALDI, Girolamo, composer, IX, b 681; (Music), XVII, a 98 note
Frescos (Abati), I, a 13; (Albani), b 395; (Appiani), II, b 184; (Archæology), a 309; (Architecture), a 408; (Burgkmair), IV, b 477; (Catacombs), V, a 183, b 184, a b 186, a b 187; (Ceneda), a 290; (Cignani), a 678; (Cigoli), b 679; (Cloister), VI, a 36; (Cornelius), a b 374; (Correggio), a b 387; (Domenichino), VII, b 302, a 303; (Dyce, William), a b 492; (Foppa), IX, b 324; (Forli), b 365; (Franceschini), *a* 605; (Gaddi), X, *b* 6, *a* 7; (Galway), a 52; (Genova), a b 142; (Ghirlandajo, D.), *b* 507, a 508; (Giordano), a 542; (Giorgione), b 542; (Giotto), a *b* 544, *a* 545; (Gozzoli), XI, *a* b 23; (Gubbio), b 215; (Herrera), *a* 682; (Hess, H. M.), b 695; (Lippi), XIV, b 690, a 691; (Luini), XV, a b 63; (Mantegna), b 508, note; (Mantua), a b 511; (Martini), a b 592; (Masaccio), a b 612; (Masolino da Panicale), a b 616; (Michel Angelo), XVI, b 237, b 238, b 240, b 242, a b 243; (Munich), XVII, a b 30, a 31, a 32, a 33; (Orcagna), a b 838; (Overbeck), XVIII, b 80; (Pacchia), a 118; (Parma), b 319, a 320; (Parmigiano), a b 323; (Perugino), b 694, a b 695; (Peruzzi), b 696; (Piero), XIX, a 91; (Pinturicchio), *a* b 117, *a* b 118; (Pippi), b 121-2; (Pontormo), a 473; (Poussin), *a* 670; (Prato), a 680; (Prud'hon), XX, a b 5; (Raphael) (Ill.), a b 287 note, *b* 288, notes, b 289-91, a 292; (Robusti), b 624; (Rosselli), a b 879; (Sarto), XXI, *b* 330, a b 331; (Schadow), *b* 402; (Schnorr von Karolsfeld), *b* 434; (Solario), XXII, b 262; (Sodoma), *b* 258; (Spagna), b 306–7; (Spinello), b 414, note; (Suardi), a 648; (Venice), XXIV, a b 162; (Zuccaro), b 864, a 865
Frese, Jacob, poet (Sweden), XXII, b 793
Fresenius and Will's method (Manganese), XV, a 487
Fresenius's method of analysis (Iron), XIII, b 295–6; (Nitrogen), XVII, b 529
Freshets (Mississippi), XVI, b 543; (Pennsylvania), XVIII, a b 510; of the Brahmaputra (Assam), II, a 629
Freshfield, Douglas W., traveller (Ararat), II, a b 271; (Caucasus), V, b 225. See List of Contributors
Freshwater, town (Wight), XXIV, *b* 593
—— fishes (Ichthyology), XII, a 708–15
Freskins of Moray, earls (Sutherland), XXII, b 765
FRESNEL, Augustin Jean, physicist, IX, b 681–2; (Arago), II, a *b* 266; (Brewster), IV, a b 246, a 247; (Light), XIV, a b 610, b 611, b 615, a *b* 618; (Lighthouse), *b* 624, *a b* 625, *b* 626, b 632, b 636; (Wave Theory), XXIV, a 451, a b 452, b 468, b 470, *a* b 475, b 476
——, Leonor, optician (Lighthouse), XIV, *a* 626
Fresnel's rhomb, IX, b 681; formulæ for reflected light (Wave Theory), XXIV, b 481, a 482, *b* 483; integrals (Wave Theory), *a* 467, b 468; interference experiment (Wave Theory) a *b* 447, a 448; mechanical (Wave Theory), a b 473, b 476, a *b* 478–9; tangent formula (Wave Theory), b 483, a 484; wave surface (Wave Theory), a *b* 474
FRESNILLO, town, IX, a 682
FRESNOY, Charles Alphonse du, painter, IX, a 682
Fret, the (Heraldry) (Ill.), XI, a b 621
—— patterns in decoration (Japan), XIII, a 601
"Fretting" (Pianoforte), XIX, a b 74
Fretwork (Jewellery) (Plate XII), XIII, *b* 687, a 688
FREUDENSTADT, town, IX, a 682
FREUDENTHAL, town, IX, a 682
——, A. O., philologist (Scandinavian Languages), XXI, *a* 382 notes, a 391
——, J., philosopher (Xenophanes), XXIV, *a* 756
Freund, Wilhelm, lexicographer (Boeckh), III, b 739
Frey, god (Æsir), I, *a* 190
FREYA, Fregga or Freyia, deity, IX, a b 682; (Æsir), I, *a* 190; (Edda), VII, *b* 564
Freyberg, town. See FREIBERG
FREYCINET, Louis Claude Desaulses de, navigator, IX, b 682; (Geography), X, b 172
Freylinghausen, Anastasius, poet (Hymns), XII, a 622
Freysing, town. See FREISING
FREYTAG, Georg Wilhelm Friedrich, Arabist, IX, b 682; (Hamasah), XI, *a* 360
——, Gustav, novelist (Germany), X, *b* 487; (Hrosvitha), XII, a 341
Frezzi, Federigo, bishop (Italy), XIII, a 515
FRIAR, mendicant, IX, b 682–3; (England), VIII, b 284, a 285; (Ireland), XIII, a 269; (Monachism), XVI, b 735, a 736–7; Black (Abbey), I, a b 27; White (Abbey), I, a b 27
—— William. See RUBRUQUIS
"Friars," blemishes (Typography), XXIII, a 751
Friar Bacon and Friar Bungay (Greene, R.), XI, a 146, a b 147, a 148
Friar-birds (Honey-Eater), XII, a 143
Friar Gerund, History of (Isla), XIII, *b* 397
Friar's cap, plant (Aconite), I, b 92
Fribourg, canton and town. See FREIBURG
Frichot, Alexandre, musician (Ophicleide), XVII, b 800
FRICTION, IX, a b 683; (Adhesion), I, a 140; (Applied Mechanics), XV, b 775–8; (Electricity), VIII, a 5; (Lubricants), XV, a 36, a b 37; (Mechanics), b 709, b 710-1; in air pipes (Hydromechanics), XII, a 515, b 516; of belts (Applied Mechanics), XV, a b 777; coefficients of (Lubricants), *a* b 37, a 38; cosmogonic view of tidal (Tides), XXIII, a 404–6; during impulse (Hydromechanics), XII, a 544; and equilibrium form (Tides), XXIII, b 383; fluid (Pneumatics), XIX, b 259; influence on solar system of tidal (Tides), XXIII, b 405–6; of liquids (Hydromechanics), XII, a b 452, b 453, a b 454, b 479, a 506–8, b 509–10, a 548–9; of mechanism, effect of (Steam-Engine), XXII, b 534; stability of (Mechanics), XV, *b* 759–60; statical (Mechanics), b 709, b 739; tidal (Tides), XXIII, b 399–402
—— and relief-bore (Shooting), XXI, a b 872
—— receiver (Telephone), XXIII, a 139
—— tubes (Ammunition), I, b 653
—— wear of rails (Iron), XIII, b 364
Frictional Electricity, VIII, a 93–7; resistance (Elasticity), VII, a 696; of governor (Steam-Engine), XXII, b 529, a b 530; measurement of (Brake) (Ill.), IV, b 191-2
Frictions, table of (Applied Mechanics), XV, b 775
Frida, Emil Bohus, poet (Slavs), XXII, a 162
Friday (Caravan), V, b 74; (Mohammedanism), XVI, a 577
Fridericia, town. See FREDERICIA
Fridolin, monk (Glarus), X, b 567
Fridriksson, N., antiquary (Scandinavian Languages), XXI, a 385
Friedelite (Mineralogy), XVI, a 442
Friederich, R., philologist (Java), XIII, a b 619, a 620
——, J. (Old Catholics), XVII, a b 776, *a* 778
FRIEDLAND, town of Bohemia, IX, b 683
FRIEDLAND, town of Mecklenburg, IX, a 684
FRIEDLAND, town of Prussia, IX, a 684; battle of, 1807 (Artillery), II, b 584; (Napoleon), XVII, *b* 217
——, duke of. See WALLENSTEIN
——, Valentin. See TROTZENDORF
Friedländer, antiquary (Amphitheatre), I, b 680, a 681
Friedrich. See FREDERICK
Friedrich's Platz (Cassel), V, b 159
Friedrichstadt, part of Dresden, VII, a 404, b 405
——, Schleswig, town (Remonstrants), XX, b 391
FRIENDLY ISLANDS, IX, a 684–5
FRIENDLY SOCIETIES IX, a 685–9
  - actuarial remarks, a b 689
  - classes of, a 687–8
  - definition, a 685
  - early history, a b 685
  - legislation, a 686–7
  - miscellaneous, a 688–9
  - origin, modern, b 685–6

—— (Italy), XIII, b 476; (Registration), XX, a 357; (Trade Unions), XXIII, b 531, a *b* 533; mediæval (Guild), XI, a 230–2; United States (Jews), XIII, a 698. See Beneficial Societies, Building Societies, CO-OPERATION
Friends, sect. See QUAKERS
Friends in Council (Helps), XI, *b* 570, a 571
Friends of God, sect (Lollards), XIV, b 821; (Mysticism), XVII, b 140-1; (Nicholas of Basel), *b* 499; (Tauler), XXIII, b 88
Friends, On Having Many (Plutarch), XIX, a 245
"Friends of the People," party (Grey), XI, a b 170
Friends' Retreat, York (Quakers), XX, a 158
FRIES, Elias Magnus, botanist, IX, b 689; (Grasses), XI, b 51, b 53; (Lichens), XIV, b 559, b 561; (Ornithology), XVIII, a 19

FRIES, Jacob Friedrich, philosopher, IX, b 689–90; (Hegel), XI, b 548, *b* 549, a 550; (Rationalism), XX, b 302–3
Frieseite (Mineralogy), XVI, a 409
FRIESLAND, province, IX, a 690; (Holland), XII, *a* b 62, a 63, *a b* 64, a 65, *a* b 66, *a* b 67, a 68, a b 69, *a* b 70, b 74, *a b* 76, *b* 78, b 79, a 81, *a* 87, a 88
Frieslebenite (Mineralogy) (Ill.), XVI, a 395, a 411
Frieze (Architecture), II, a 408; Corinthian (Architrave), a 357, *a* 365; Doric (Architecture) (Plates VIII, IX), a b 354, a 359; Etruscan (Terra-Cotta), XXIII, b 210; of the Horologium (Athens), III, a b 9; Ionic (Architecture), II, a 356; of the Parthenon (Athens), III, b 6, a 7, notes; polychrome (Robbia), XX, b 607; Roman (Terra-Cotta), XXIII, a 211
FRIGATE-BIRD, IX, a b 690; (Birds), III, b 627, b 652; (Polynesia), XIX, b 434
Frigates (Anchor), II, 6; (Navy), XVII, b 290
Frigg, Fria or Frygga, goddess (Æsir), I, a b 189, a b 190; (Baldur), III, a 238; (Germany), X, a 426; (Mythology), XVII, *b* 162
Fright, effects of (Snakes), XXII, a 202; sudden (Insanity), XIII, b 106
Frigidarium, room (Baths), III, b 375, *a* b 376
Friis, J. A., author (Norway), XVII, b 606
——, Peder Clausson, author (Scandinavian Languages) XXI, a 390
Frilinge or frone, class (Saxony), XXI, a 367
Frill-back, pigeon (Dove), VII, b 328
Frimann, Claus, author (Norway), XVII, b 604
——, Peter Harboe, author (Norway), XVII, b 604
Fringe-tree (Arboriculture), II, a 281
Fringilla, genus (Birds), III, b 633; (Greenfinch), XI, a 148
Fringillidæ, family (Bunting), IV, a b 470; (Finch), IX, a 167–8; (Tanager), XXIII, b 49
Friniates, tribe (Liguria), XIV, b 646
Friockheim, town (Forfar), IX, b 362
Frioul or Friuli, district (Italy), XIII, a 446
Frisch, Ch., editor (Keppler), XIV, a 50
——, Johann Leonhard, naturalist (Ornithology), XVIII, b 12, b 21
Frische Haff (Germany), X, a 402, a 404
Frischen, electrician (Telegraph), XXIII, a b 132
FRISCHLIN, Nicodemus, scholar, IX, b 690–1
FRISI, Paolo, astronomer, IX, a 691
Frisian Hague (Leeuwarden), XIV, b 410
Frisian Rhymes (Holland), XII, a 88
FRISIANS, race, IX, a 691–3
  Eastern Frisia, b 692
  Frankish period, b 691–2
  geographical place of, a b 691
  language, b 692–3
  literature, b 692–3
  Roman period, b 691
  West Frisia, a b 692
—— (Fife), IX, a 134; (Germany), X, a 425, b 426, a b 427, *b* 429; (Holland), XII, *b* 67, a 72, a 73, a 74; (Oldenburg), XVII, a *b* 779; conversion of (Willibrord), XXIV, a 619; (Dictionaries), VII, b 162; (Germany), X, a b 461, *a* b 462; (Holland), XII, *a* b 87–8
Frisius, Gemma. See Frizon
Frisket in printing-press (Typography), XXIII, a 751
Frit-fly (Wheat), XXIV, a 565
FRITH, John, reformer, IX, b 693–4
—— Guilds, XI, a 231
Frithigern, chief (Goths), X, a *b* 754; (Ulfilas), XXIII, a 767; (Valens), XXIV, a 42
Frithiofs Saga (Tegnér), XXIII, a 118
Fritillaria, genus (Tunicata), XXIII, a 654; (Vertebrata) (Ill.), XXIV, *b* 201
——, plant (Botany) (Ill.), IV, *a* 81, a 88, b 115, b 121; cell of (Histology), XII, *b* 12
Fritillaries (Butterflies) (Plate XXVIII), IV, a 530
Fritsch on the brain (Physiology), XIX, a 47
Fritslar, Herbert von, minnesinger (Romance), XX, b 654
Fritz, Barthold, musician (Oboe), XVII, b 727
——, Joss, peasant leader (Luther), XV, b 75
——, Theodor, author (Education), VII, a 589
—— on distribution of Auroras, III, a b 85
FRITZLAR, town, IX, a 694
Fritzner, J., philologist (Scandinavian Languages) XXI, b 384
Fritzsche, O. F., philologist (Apocrypha), II, a 159, b 161
FRIULI, district, IX, a b 694; dialect of (Italy), XIII, b 502, a 503; dukedom (Lombards), XIV, *a* b 823, b 824
Frizon or Frisius, Gemma, geographer (Navigation), XVII, a 257, a b 258, *a* 259
FROBEN, Johannes, scholar, IX, b 694–5; (Erasmus), VIII, *a b* 455; (Typography), XXIII, a 739
FROBISHER, Sir Martin, navigator, IX, a 695; (Geography), X, b 164; (Polar Regions), XIX, b 328, a 329
Frocester, Walter, abbot (Gloucester), X, a 616
Frodoart. See FLODOARD
FROEBEL, Friedrich Wilhelm August, teacher, IX, b 695–8
  kindergarten work, a b 697
  Middendorf period, b 696–7
FROEBEL, Friedrich Wilhelm August, *continued*
  Pestalozzi connection, a b 696
  Swiss experiments, b 696–7
  theories of, a 697–8
  works relating to, a 698
  youth, b 695–6
—— (Education), VII, b 587, a 588; (Kindergarten), XIV, b 81–2
——, Karl, author, IX, a 697
FROG, animal (Ill.), IX, a 698–700
  characteristics, general, b 698–9
  development, b 698
  distribution, a b 698
  species, b 699–700
—— (Amphibia) (Ill.), I, a 668, b 669, a b 670, a 671, a b 672, *a* b 674, b 676; (Anatomy), b 755; (Hibernation), XI, b 704; (Nematoidea), XVII, b 334; (Parasitism), XVIII, a 264; (Protozoa), XIX, b 878, a 879, a 881, a 889; (Reproduction), XX, a 423, b 424, a 428; (Skeleton), XXII, b 116, b 119, b 120, a 121, *a* 123, b 124, a 126; (Toad), XXIII, a b 450; cardiac pulsations of (Vascular System), XXIV, a b 111, a 112; heart of (Histology) (Ill.), XII, a 10; skull of (Amphibia) (Ill.), I, b 660–2
Frog-fish (Fishing-Frog), IX, a 235
Frogmore, Royal gardens (Horticulture), XII, a 223
Frogs, of Aristophanes, II, a 447, a 448
Frogsmouth, plant (Botany) (Ill.), IV, a 80, a 121, a 136
FROHLICH, Abraham Emanuel, poet, IX, a b 700; (Switzerland), XXII, a 838
Fröhner, antiquary (Terra-Cotta), XXIII, b 212
FROISSART, Jean, chronicler, IX, b 700–4
  ancestral conditions, b 700
  birth-place, b 700–1
  chaplain to Gui de Blois, b 702–3
  crusade and death, b 703
  edition of, b 704
  Lestines period, b 702
  literary character, a 704
  love adventure, a b 701
  personal character, a b 704
  Queen Philippa patronage, b 701–2
—— (Bouchier), IV, b 158; (France), IX, a 567, b 568–9; (Hainault), XI, a 336; (History), XII, a 22, a 23; (Scotland), XXI, b 512, note
FROME, town, IX, b 704; (Somerset), XXII, b 271, a 272; river (Dorset), VII, *a* 321; (Wilts), XXIV, b 625
FROMENTIN, Eugene, painter, IX, b 704–5
Fromme, C., physicist (Magnetism), XV, a 260
Fronde, war of the (Bastille), III, b 371; (Condé the Great), VI, a 219–20; (France), IX, b 504–5; (La Rochefoucauld), XIV, b 317; (Longueville), b 877, *a* 878; (Mazarin), XV, a b 659, b 660; (Montpensier), XVI, a 819; (Retz), XX, *b* 502, a 503; (Turenne), XXIII, a 667
Frondsberg or Frundsberg, Georg, Count von, general (Luther), XV, a 81, a 82; (Reformation), XX, b 341
Fronsac, town (Libourne), XIV, b 508
Front or Colorado range (United States), XXIII, a 846
——, Saint, missionary (Périgueux), XVIII, b 545
Frontal bones. (Anatomy) (Ill.), I, b 722; lobe (Anatomy), b 766, b 767, *b* 771, a 772; sinus (Phrenology), XVIII, a 863
Frontenac, fort (Kingston), XIV, b 91
Frontier zone (Mexico), XVI, a 901, a 902, a b 912
Frontinus, historian. See JUSTIN
FRONTINUS, Sextus Julius, military writer, IX, a 705; (Aqueduct), II, a 192, b 200; (Hydromechanics), XII, b 451, note; (Latin Language), XIV, b 337
FRONTO, Marcus Cornelius, grammarian, IX, a b 705; (Latin Language), XIV, b 338
Fronton island (Callao), IV, b 626
FROSINONE, town, IX, b 705
—— and Pontecorvo, State (States of the Church), XXII, b 477, a 478
Frost, action of (Building), IV, b 408, b 413; (Famines), IX, b 23; hoar (Meteorology), XVI, b 125; rock changes through (Geology), X, b 235, b 248; and vegetation (Canada), IV, a 682
——, A. Hollingworth (Magic Square), XV, b 215, a 217. See List of Contributors
——, Walter (Milton, John), XVI, b 344
FROST, William Edward, painter, IX, b 705–6
Frosta-thing, district (Norway), XVII, a 599, a 600
Frost-bite (Mortification), XVI, a 876; (Surgery), XXII, a 718
Frottola (Drama), VII, b 361
Froude, James Anthony, historian (Grattan), XI, a 56, a 57; (Ireland), XIII, b 269, b 275; (Shakespeare), XXI, b 790
——, William, engineer (Hydromechanics), XII, b 454, b 487–8, a 507–8, b 510, *a* 549; (Ship-building), XXI, b 846, a 847, a b 848, b 850, a b 851, b 861
Froward, cape (Tierra del Fuego), XXIII, b 410
Fruchtwechsel, farm-term (Germany), X, a 405
Fructidor, revolution of, 1797 (Napoleon I.), XVII, a b 206
Fructification of ferns (Botany), IV, b 145–6; of lycopods (Botany), b 146

Frue vanner, apparatus (Mining) (Ill.), XVI, b 486
Fruela I., Asturias, king (Spain), XXII, a 326
—— of Galicia, count (Alphonso III.), I, a 541
—— II., Leon, king (Spain), XXII, b 326
FRUGONI, Carlo Innocenzo, poet, IX, a 706
Frühling (Germany), X, b 477
Fruit (Arabia), II, a 207; (Botany) (Ill.), IV, a 134–9; (California), b 624; (Canada), b 682–3; (Grasses), XI, a 51; (Greece), *b* 79; (Horticulture), XII, a 278-9; (India), b 786; (Italy), XIII, b 450, a b 451, a b 460, b 466; (Jamaica), a b 559; (Japan), a b 584; (Java), a 614; (Kansas), b 852; (Malaga), XV, a 319; (Michigan), XVI, a 247; (Natal), XVII, b 247; (Nebraska), a 317; (Nepāl), b 351-2; (New Mexico), b 411; (Palm), XVIII, a 195; (Persia), a 634; (Peru), b 686; (Queensland), XX, a b 180; (Spain), XXII, a b 314
—— cordons (Horticulture), XII, a b 249; dehiscent (Botany), IV, a 135–7; formation (Reproduction), XX, a 442; garden calendar (Horticulture), XII, a 302–8; grafting (Horticulture), b 217–8, b 241–2; houses (Horticulture) (Ill), a 227–30; storage room (Horticulture) (Ill), a b 232; tree planting (Horticulture), a b 245. b 278
—— Bearing Society, literary (Germany), X, *b* 474
—— -essences (Oils), XVII, a 770; (Perfumery), XVIII, a 537
Fruit Garden, poem (Sa‘di), XXI, a *b* 151
Fruit-Pigeon, XIX, b 93
—— -Sugar, amorphous, XXII, b 655
Fruits in tanning (Leather), XIV, a 382
Frullania, mosses (Muscineæ), XVII, a 75, b 76
Frullani's theorem (Infinitesimal Calculus), XIII, b 46, a 47
FRUMENTIUS, bishop, IX, a 706; (Abyssinia), I, b 64
Frundsberg, George, count. See Frondsberg
Frusino, town. See FROSINONE
Frustum, conical (Mensuration), XVI, b 29-30; pyramidal (Mensuration), a 28-9; spherical (Mensuration), b 30–1; spheroidal (Mensuration), a b 31
Fruticulose thallus (Lichens), XIV, b 555, a b 561
FRUYTIERS, Philip, painter, IX, b 706
Fry, Edmund, type-founder (Typography), XXIII, b 740, a 741
FRY, Elizabeth, philanthropist, IX, b 706-7; (Prison Discipline), XIX, b 768, b 778
Frying food (Cookery), VI, a b 296
Fryth, John. See FRITH
Fryxell, Anders, historian (Geijer), X, b 115; (Sweden), XXII, a 796
FUAD PASHA, Mehemet, statesman, IX, a 707
Fucaceæ, algæ (Botany), IV, a 96; (Reproduction), XX, b 437–8, b 441, a 443; (Vegetable Kingdom), XXIV, *a b* 138
Fucheo, city (Xavier), XXIV, b 753
Fuchs, Johann Joseph, composer. See FUX
FUCHS, Johann Nepomuk von, mineralogist, IX, b 707
——, Konrad H., physician (Phrenology), XVIII, b 860
FUCHS, Leonhard, physician and botanist, IX, b 707
FUCHSIA, plant, IX, b 707–8; (Botany), IV, b 118, b 122, a 123, b 130, b 131; (Horticulture), XII, a b 272; (Man), XV, b 458
Fuchsine, dye (Coal Tar Colors), XVIII, a 903; absorption by (Light), XIV, b 606–7
Fucinus lacus (Celano), V, a 249; (Italy), XIII, b 449; draining of (Tunnelling), XXIII, a 663
Fucoid fossils (Geology), X, *a* 293
Fucus, genus (Algæ), I, b 448, b 449; (Biology), III, a 600; (Botany), IV, a 127, a 144; (Kelp), XIV, b 31
Fuegian race (America), I, a 603; (Indians), XII, a 870
FUEL, IX, b 708–10
    coals, a 710
    elements of, b 708
    heating effects, a 710
    minerals, b 710
    peat, b 709-10
    petroleum and gas, b 710
    refuse, a b 710
    values, a b 709
    wood, b 709
—— (Brewing), IV, *a* 241; (Hickory), XI, b 705; (Maize), XV, a 313; (Metallurgy), XVI, b 65–6; (Petroleum), XVIII, b 733, a 886; (Natural Gas), b 896, b 897–8; (Paraffin), b 243–4; chemical reaction in furnace (Iron), XIII, b 317–18; composition of, table (Coal), VI, b 45; common form of (United States), XXIII, a b 863; economy in (Iron), XIII, a 323–6; (Smoke Abatement), XXII, b 190–1; from coal Tar, XXIII, b 63; heat development of (Iron), XIII, b 319–23; liquid (Steam-Engine), XXII, a 523; precipitation process (Iron), XIII, a 347–8; puddling (Iron), b 329–30; in reheating furnaces (Iron), b 340-1; smelting (Iron), a 297, b 298–302, b 304; water (Gas-Lighting), X, a 92
Fuel-gas companies, Pittsburgh (Natural Gas), XVIII, b 897
FUENTE DE CANTOS, town, IX, b 710-11
FUENTE DEL MAESTRE, town, IX, a 711
FUENTERRABIA or Fontarabia, town, IX, a 711
FUERO, law, IX, a 711-2; (Concubinage), VI, a b 217; (Jaca), XIII, b 540; of Aragon (Perez), XVIII, a 536
Fuerte, river (Mexico), XVI, b 904, b 908, a 911
Fuerteventura, island (Canary Islands), IV, *b* 702, *b* 703, *b* 704, b 706
Füger, Friedrich Heinrich, painter (Overbeck), XVIII, a 80
FUGGER, family, or the Fuggerei, IX, a b 712; (Augsburg), III, *a* b 63
Fugitive slave law (Pierce), XIX, b 90; (Fillmore, M.), IX, a 145; (United States), XXIII, b 816–7, a 819
—— slaves (Slavery), XXII, a 908, a 909
Fuglaskér Islands (Birds), III, a 637
Fuglenaes, cape (Hammerfest), XI, a 381
Fugue (Music), XVII, b 85, a 90; Bach's (Organ), a 863; symphonic (Mozart), a 17
FUH-CHOW or Foo Chow, city, IX, b 712-3; department (China), V, a 553, b 565, b 583
Fuh-he, emperor (China), V, a b 558; legendary person (China), b 567
Fuh-keen, province (China), V, a 548, b 552–3, a 559, b 564, b 582, b 583; (Chinchew), *a* 585
FUHRICH, Joseph von, painter, IX, a 713
Fuh-tun Ke, river (China), V, a 553
Fuidhirs or tenants (Brehon Law), IV, *a* 226; (Ireland), XIII, b 263–4
Fuji-kawa, river (Japan), XIII, b 581
Fuji-san, volcano (Japan), XIII, a b 580, a b 581, note, a 582; (Pilgrimage), XIX, a b 101. See Fusigama
Fuji wara, family (Japan), XIII, a 591, a 592
Fulah, race. See Foulahs
Fulbert of Chartres, bishop (Scholasticism), XXI, *a* 439
Fulbroke park (Shakespeare), XXI, *b* 789, a 790
Fulcher of Chartres, Geoffrey, historian (Templars), XXIII, b 176; (William of Tyre), XXIV, *a* 616
FULDA, monastery, IX, a b 713; (Libraries), XIV, a 512, a 513; conference, 1859 (Vatican Council), XXIV, b 121; school of (Hrabanus), XII, b 339, a 340
—— river (Germany), X, a 403, a 404; (Weser), XXIV, a *b* 531
Fulgentius. See GOTTSCHALK
——, Fabius Claudius Gordianus, bishop (Limbus), XIV, a 653
——, Fabius Planciades, author (Pervigilium Veneris), XVIII, a 697
Fulgora, genus (Insects), XIII, b 149; (Lantern-Fly), XIV, a 291
FULHAM, suburb, IX, b 713–4; (London), XIV, a b 831, a b 842, a 844
Fulicæ, birds (Coot), VI, a b 303
Fuligno or Fulginium, town. See FOLIGNO
Fuligula, genus (Pochard), XIX, a 264–5; (Scaup), XXI, *b* 395
Fuligulinæ, moult of (Birds), III, a 673
Fulk V., Count of Anjou (Henry I., England), XI, *b* 585; (Templars), XXIII, a 176
Fulk Fitzwarin, outlaw (Romance), XX, a 675
—— Rechin, count (Anjou), II, b 52
FULLER, Andrew, preacher, IX, a 714
——, George, on abutments (Bridges), IV, a 292; linear arch of (Bridges) (Ill.), b 277–8, a 281
——, John, divine, IX, b 714
——, Sarah Margaret, author (American Literature), I, b 635; (Ossoli), XVIII, b 60-1
FULLER, Thomas, historian, IX, a 714-6
    birth and education, a b 714
    booksellers' pack, b 715
    Broadwindsor rectorate, b 714
    characteristics, b 716
    Cranford rectorship, a 716
    East Cheap and Waltham time, b 715–6
    Restoration period, a 716
    Savoy living, b 714–5
    war experience, a b 715
—— (Gardiner), X, b 70; (Gilbert), a 529; (Gunpowder), XI, a 284
——, Thomas, the elder, IX, a b 714
FULLER'S EARTH, IX, b 716; (Mineralogy), XVI, b 442; group (Geology), X, a 314, a b 315
Fulling cloth (Wool), XXIV, b 696
FULMAR, bird, IX, b 716–7
Fulminant Plague, XIX, b 169, b 170
Fulminates (Explosives), VIII, b 706–7; (Guncotton), XI, a 246; cap (Gunmaking), a 247; gold (Chemistry), V, a 459; (Prussic Acid), XX, b 28
Fulton, John, clergyman (Talbot), XXIII, a 919
FULTON, Robert, inventor, IX, a b 717; (Patents), XVIII, b 878; (Shipbuilding), XXI, a 862; (Steam-Engine), XXII, a 496; (Sullivan), a 933; monopoly ended (Vanderbilt), XXIV, a 875
Fulvia, wife of Mark Antony (Cicero), V, b 674
Fulvius, Cneius, prætor (Hannibal), XI, b 396
——, Quintus Flaccus, consul (Hannibal), XI, *b* 396
—— Nobilior, Marcus, conqueror (Ennius), VIII, *b* 398

Fulvius, Pius, governor (Severus), XXI, b 731
Fumaric acid series (Chemistry), V, b 495
Fumarole (Geology), X, b 221; (Nitrogen), XVII, b 529
Fumbina, kingdom. See ADAMAWA
Fume in blast furnace (Iron), XIII, b 316, b 318; in steel making (Iron), a b 343
Fumifugium (London), XIV, b 836
Fumigation (Incense), XII, b 756, b 760
Fumigators, plant (Horticulture), XII, b 239
FUMITORY, herb, IX, b 717
Fun (Hood, Tom), XII, b 149
Funambuli, performers (Acrobat), I, b 112
Funan, kingdom (Cambodia), IV, b 640
Funaria, genus (Botany) (Ill.), IV, a 147; (Muscineæ) (Ill.), XVII, b 77, b 78, b 79, *a* 81
Funchal, town (Africa), I, b 243; (Madeira), XV, b 177, b 178, *b* 179–80, a *b* 182
FUNCTION, mathematical, IX, b 717–24
  calculus of functions, b 723–4
  definition, b 717–8
  general observations, a 722–3
  known functions, a 718–22

—— (Infinitesimal Calculus), XIII, b 14, b 37; analytical treatment of (Trigonometry), XXIII, b 609–10; of angles, errors of (Surveying), XXII, a b 740; complex variable (Riemann), XX, *a* b 565; XXIV, *b* 77, *a b* 78, a b 79, b 80, a 81, a 82; defined (Trigonometry), XXIII, b 598; generation of (Laplace), XIV, b 304; Magnetization, XV, a 254 note; periodicity of (Trigonometry), XXIII, a 604; relations of (Trigonometry) (Table), a 599; trigonometrical (Logarithms), XIV, a b 780, b 781, a b 782, a b 783; value of (Trigonometry) (Table), XXIII, a 599
Functional changes (Parasitism), XVIII, a b 267
Functions of living masses (Biology), III, b 592–5
Fundamenta Botanica (Linnæus), XIV, b 679, a 680
Fundamental conic (Measurement), XV, a *b* 672, *a b* 673, a 674
—— *Constitutions* (North Carolina), XVII, b 575
—— discords (Music), XVII, a 94, b 107–8
—— note (Acoustics) (Ill.), I, a b 104, a 105, *a* 107, b 109, b 110
—— quadric (Measurement), XV, *a* 672, *a b* 674
Fundi, town (Fondi), IX, a 316; (Rome), XX, b 760
Funds, original sense of (National Debt), XVII, b 251
Fundulus, genus (Ichthyology), XII, a 707
Fundus glands (Nutrition), XVII, *a* 693
Fundy, bay of (New Brunswick), XVII, *b* 382; (Nova Scotia), *a* b 616; tides in (Geology), X, a 251
Funen or Fyen, island (Denmark), VII, b 70, *a* b 73
Funeral, The, comedy (Steele), XXII, a 555
Funeral Ode to Princess Charlotte (Southey), XXII, b 304
Funeral Oration of Pericles, XVIII, a 544; (Thucydides), XXIII, b 343, b 346
FUNERAL RITES, IX, a 724–6; (Animism), II, a b 50; (Anubis), b 128; (Baptism), III, b 303; (Catacombs), V, a b 183; (China), b 581, b 582; (Copts), VI, b 314; (Dance), a b 704; (Druses), VII, *a* b 419; (Egypt), b 626, a 631; (Festivals), IX, b 99–100; (Gipsies), X, a b 550; (Gladiators), b 562–3; (Heraldry), XI, b 635–6; (India), XII, b 819, a 820; (Lushai Hills), XV, a 71; (Mexico), XVI, a 222; (Miautse), b 232; (Mummy), XVII, b 26; (Parsîs), XVIII, b 331, a b 332; (Phœnicia), b 823; (Phrenology), a 857; (Primogeniture), XIX, 755; (Saint), XXI, b 163–4; (Scythia), b 603; (Siam), a *b* 893; (Tibet), XXIII, b 365; (Totemism), a 498, b 500; expenses of (Paris), XVIII, b 289; survivals in (Anthropology), II, a b 108. See BURIAL
Funeral Ritual (Egypt), VII, a b 619, note, a b 620, note, *a* 621, a *b* 623, b 625, b 635. See *Book of the Dead*
FUNFHAUS, suburb, IX, b 726
FUNFKIRCHEN, city, IX, b 726; (Baranya), III, b 308
Fungidæ, family (Actinozoa), I, a b 121; (Corals), VI, a 333, b 334, b 336, a 337
FUNGUS, plant (Ill.), IX, b 726–34
  ascomycetes, b 731–4
    discomycetes, b 731–2
    erysiphyeæ, b 732
    lichens, b 733–4
    pyrenomycetes, a b 733
    tuberaceæ, b 732–3
  basidiomycetes (Ill.), b 730–1
  cellular structure, a b 727
  distribution, b 728–9
  general characteristics, b 726–7
  hypodermiæ (Ill.), a b 730
  mode of life, a b 728
  myxomycetes, a 734
  nutrition, b 727
  phycomycetes (Ill.), a 729–30
  reference books, b 734
  reproduction, a 728
  schizomycetes, a b 734

—— (Biology), III, b 588, b 592, b 595, *b* 597, a b 599, b 600; (Botany), IV, *b* 81, b 95, a 96, *b* 144, *a b* 145, b 147; (Coffee), VI, b 102; (Dry Rot), VII, b 425–6; (Herbarium), XI, b 641; (Histology), XII, a 13, a b 15, a 16, a 19; (Hollyhock), a b 106; (Lichens), XIV, a 555, a b 560–1, b 562; (Mildew), XVI, a b 306; (Mimicry), a 355; (Mushroom), XVII, b 81, b 82–3; (Parasitism), XVIII, a 270–2; (Potato), XIX, b 613–4; (Protozoa), a 853; (Reproduction), XX, a 436, *a* 437, b 438–9, a 442, *a b* 443–4; (Salmonidæ), XXI, b 237; (Schizomycetes), b 415–25; (Vegetable Kingdom), XXIV, b 136, a 139–40; (Veterinary Science), a b 221, b 223; (Wasps), b 414; (Yeniseisk), a 780. See Bacteria, Germ Theory of Disease
Funiculus, genus (Polyzoa), XIX, b 446–7, b 450
Funj, tribe (Senaar), XXI, *a* 690; (Soudan), XXII, a 292
Funk, island (Gare-Fowl), X, a 72
——, Johann, theologian (Osiander), XVIII, a 59
Funkia, species (Horticulture), XII, b 258
FUR, integument, IX, b 734–7
  collected for trade, b 735–6
  history, a b 735
  kinds of, a 736–7
  mercantile requirements in, a b 737
  nature of, b 734–5

—— (Chinchilla), V, b 585; (Fox), IX, b 435; (Hare), XI, a *b* 426, *a* 427; (Hats), a b 463; (Lynx), XV, b 110–1; (Marten), a b 583, b 584; (Musk-Rat), XVII, b 115, a 116; (Otter), XVIII, b 72, a b 73; (Siberia), XXII, b 14; (Seal), XXI, a 608, a b 610. See Furs.
Fúr or For, race (Darfur), VI, a b 725; (Negro), XVII, a 328; (Soudan), XXII, a 292
Fur-bearing animals of North America, Coues (Mink), XVI, a 497
Fur trade (Canada), IV, b 684–5; (Hudson's Bay Company), XII, a 347; (Maritime Province), XV, b 554–5; (Moscow), XVI, b 885; (Oregon), XVII, b 847; (Washington), XXIV, b 408
Fura, river (Gambia), X, a 54
Furbelows (Costume), VI, b 421
Furculum of Birds, III, a b 625
Furens, valley (River Engineering), XX, a 588; dam (Water-Supply) (Ill.), XXIV, b 427, *b* 428, *a* b 429
Fureteriana (Ana), I, b 688
FURETIÈRE, Antoine, lexicographer, IX, b 737–8; (Dictionary), VII, a 156, a 160; (La Fontaine), XIV, b 205
Furia, genus (Linnæus), XIV, b 678; (Mammalia), XV, b 410, a 417
Furian law (Slavery), XXII, a 142
FURIES, goddesses, IX, a 738. See ERINYES
Furlanians. See Frulians
Furinæ, goddesses (Furies), IX, a 738
Furka, pass (Alps), I, a 550, a 551
Furley, Benjamin, book collector (Locke), XIV, a 760, b 769
Furlo, pass (Italy), XIII, a 447
Furlong, measure of length (Weights and Measures), XXIV, a 512, a 517
Furlough, French (Navy), XVII, a 308
FURNACE (Ill.), IX, a 738–45
  construction and special forms, a b 742
  classes of, b 738
  economizing heat and gas (Ill.), b 743–4
  gas (Ill.), b 742–3
  laboratory and portable (Ill.), b 744
  materials, a 741–2
  mechanical, a 743–4
  muffle (Ill.), b 740–1
  names, derivation of, a 738
  reverberatory (Ill.), b 739–40
  stack and blast (Ill.), b 738–9

—— (Copper), VI, a b 309, a 310, a 311; (Gas and Gas-Lighting) (Ill.), X, *b* 82–3; (Glass) (Plate V) (Ill.), X, b 585–7; (Iron) (Ill.), XIII, b 298, b 299, b 300–2, a 304–13, a 315–6, b 344–5, 347–8, b 358–60; (Mint) (Ill.), XVI, a 509, a 511; (Steam-Engine) (Ill.), XXII, a 517–8, *a* 523; (Zinc) (Ill.), XXIV, a b 824
——, balling (Sodium), XXII, *a* 256; economy, IX, b 743–4; (Iron), XIII, a 323–6; electric (Siemens), XXII, a 43; hot-house (Horticulture) (Ill.), XII, b 233; laboratory, IX, b 744; (Chemistry) (Ill.), V, b 472; lining (Iron), XIII, b 355, note; of rotary (Iron), b 331, a b 332; in steel melting (Iron), a 351; marine (Steam-Engine), XXII, a b 521, *a* 523; materials IX, a 741–2; (Metallurgy), XVI, b 64, a 65; muffle (Ill.), IX, b 740–1; (Assaying) (Ill.), II, 634–5; number in blast in Germany, X, a 408; puddling (Iron), XIII, a 329–34; regenerative (Natural Gas), XVIII, b 898; (Siemens), XXII, a 43; reheating (Iron), XIII, b 340–1; reverberatory (Ill.), IX, b 739–40; (Lead) (Ill.), XIV, b 375–6; (Sodium), XXII, *b* 255; rotary puddling (Iron), XIII, a 331–3; sheet-glass (Glass) (Ill.), X, b 588; ventilating (Coal), VI, a 66
Furnas valley (Azores), III, *b* 148
Fürnberg, Baron (Haydn), XI, b 481
Furneaux, Captain, explorer (Australia), III, b 90
Furness, division (Lancashire), XIV, *b* 252, b 253, a 255

Furness, Abbey (Barrow-in-Furness), III, b 341; (Ulverston), XXIII, b 769, a 770
FURNITURE, IX, a 745–7
  classical examples, a b 745
  collections and books, b 747
  manufacture of, b 746–7
  mediæval examples, b 745-6
  modern styles, a b 746
  oriental examples, a 745
  renaissance work, a 746
—— (Libraries), XIV, a 537; renaissance (Buhl-work), IV, b 399; wicker-work (Basket), III, b 364, b 365
—— in printer's chase (Typography), XXIII, a 746, b 756
——, sporting gun (Gunmaking), XI, a 248
—— stop (Organ), XVII, b 855
Furnival family (Sheffield), XXI, a b 824
Furnivall, Frederick James, antiquary (Chaucer), V, *b* 389, a b 390
——, John Talbot, lord (Talbot), XXIII, a 31
Furnival's inn (Inns of Court), XIII, b 93, a 97
Furreedkote, state. See FARIDKOT
Furreedpore, district. See FARIDPUR
Furrow draining (Agriculture), I, b 295
Furruckábád, district. See FARRAKHÁBÁD
Furs (Costume), VI, b 405, b 410, b 412, a 413, a 414, a 416, b 417, b 418, a 422, *a* b 423, b 424; (Heraldry) (Ill.), XI, b 615, a 616
Fursey of Lagny, abbot (Monachism), XVI, a 733
Fürst, title (Prince), XIX, b 758
FUERST, Julius, orientalist, IX, b 747–8
——, Walter, patriot (Tell), XXIII, *b* 171
FURSTENBERG, family, IX, a 748
Fürstenbund, league (Goethe), X, b 649; (Prussia), XX, b 14
Fürstenschule (Grimma), XI a 180; (Meissen), XV, b 840
FURSTENWALDE, town, IX, a b 748
FURTH, town, IX, a b 748
"Furtum" in Roman law (Theft), XXIII, a b 250, a 251
Furtwaengler, archæologist (Terra-Cotta), XXIII, b 212
FURZE, plant, IX, b 748–9; (Agriculture), I, b 276, b 313, a 336
Fusanus, tree (Santalum), XXI, *a* b 268
Fusee, mechanism (Watch) (Ill.), XXIV, a b 415
FUSELI, Henry, painter, IX, a b 749; (Northcote), XVII, a b 576
FUSEL OIL, IX, b 749–5; (Chemistry), V, a 489; (Whiskey), XXIV, a 573
Fuses (Ammunition) (Ill.), I, b 653; (Mining) (Ill.), XVI, b 465–a 466; (Pyrotechny), XX, a b 141; electric (Blasting), III, a b 703; percussion (Gunnery), XI, a b 271, a 272
Fusibility of Metals, XVI, a 72, b 74–75; (Alloy), I, b 517, a 518; (Bismuth), III, a b 687; of silicates (Metallurgy), XVI, b 67
Fusil, the (Heraldry) (Ill.), XI, b 621
Fusilier battalions of German Army, II, a b 521
Fusilinina (Protozoa), XIX, b 871
Fusion or conjugation (Protozoa), XIX, b 875
Fusiyama, mountain. See Fuji-san
——, *Hundred Views of* (Japan), XIII, a 599
Fuslee Era (Chronology), V, b 624
FUST or Faust, Johann, printer, IX, a 750–1; (Gutenberg), XI, *b* 300; (Typography), XXIII, a 723, b 727, a b 728, b 730, *a* b 731, *a b* 732, a 733, *a* 734, a 739
Fustát, el-, city (Egypt), VII, b 649, a *b* 650, *a* 651, *a* 652, b 667, b 668
FUSTIAN, fabric, IX, b 751–2; (Cotton), VI, a 434, note; (Textiles), XXIII, b 228; (Velvet), XXIV, b 148; (Weaving), b 493, a 494
FUSTIC, dye stuff, IX, *a* 752; (Dyeing), VII, b 499
Fustis et Flagellum Dæmonum (Demonology), VII, b 55
Fusulina, genus (Foraminifera) (Ill.), IX, *a* 334, a 340
Futa Jallon, country (Gambia), X, a 54; (Senegal), XXI, *a* 692, a 693
Futhorcs (Alphabet), I, a 539
Futtehpoor district. See FATHIPUR
Futúh al-Shám (Ockley), XVII, a 741
Future, in Psychology. See Time
—— life, notions of (Animism), II, b 50–1. See ESCHATOLOGY, Immortality
—— tense (Grammar), XI, a 38
FUX, Johann Joseph, composer, IX, a b 752; (Music), XVII, a 98 note
Fuzes. See Fuses
Füzes-Gyarmat, town, XI, b 309
Fuzúlí, poet (Turkey), XXIII, b 698
"Fylfot" Cross, VI, a 542
Fylki, division territorial (Norway), XVII, b 597 note, b 598–9
Fyne, loch (Inverary), XIII, *b* 204
Fyrd, Anglo-Saxon soldiers (Army), II, a 498
Fyris Elf or river (Sweden), XXII, b 774
Fyrksdalen, region (Carlsbad), V, a 100
FYT, Johannes, painter, IX, b 752; (Hondecoeter), XII, *b* 132
Fyzabad, district. See FAIZABAD
G, letter, X, a b 3
Gá, gau or shire (England), VIII, a b 247
Ga or Acra tribes (Gold Coast), X, *a* 673; *Dictionary*, VII, b 167
Gabæ, city (Ispahán), XIII, b 405–6
Gabaglio, Antonio, statistician (Statistics), XXII, b 480, a 484
Gabao, Rio de. See GABOON
Gabb and Loehr's survey (California), IV, b 616
Gabbema, Simon Abbas, historian (Holland), XII, a 88
Gabbro, rock (Geology), X, a 203, a 210; (Norway), XVII, *a* 592; (Serpentine), XXI, b 715
GABELENTZ, Hans Conon von der, ethnologist, X, b 3–4; (Ural-Altaic), XXIV, b 6, b 7
Gabelsberger, Franz Xaver, stenographer (Shorthand), XXI, b 880–81
Gabene or Gabiane, city (Ispahân), XIII, b 405–6
Gabes, port (Tunis), XXIII, b 660
Gabet, Joseph, missionary (Huc), XII, b 342; (Tibet), XXIII, b 359, a 363, a 364
GABII, city, X, a 4; (Latium), XIV, b 344, a 345
Gabina or Prænestina Via (Rome), XX, b 829
Gabinian law (Cæsar), IV, b 563
Gabinius, Aulus, tribune (Rome), XX, b 781, b 785
Gabinus Lapis (Rome), XX, b 825
Gabion, obstruction (Fortification) (Ill.), IX, a 373
Gable (Architecture), II, a b 408
GABLER, Georg Andreas, philosopher, X, b 4
GABLER, Johann Philipp, theologian, X, b 4; (Theology), XXIII, b 295
GABLONZ, town, X, b 4
GABOON RIVER or Rio de Gabão, X, b 4–5; (Africa), I, b 227
Gabor, Bethlen, prince (Mansfeld), XV, b 505
Gaboriau, Émile, novelist (France), IX, a 597
Gabrias, fabulist (Babrias), III, a 157
Gabriel, village (Rodriguez), XX, b 634
GABRIEL, archangel, X, b 5; (Mohammedanism), XVI, a–b 571, a 573
—— bar Bokht-īshoʻ, physician (Syriac Literature), XXII, a 891
—— of Hormizdsher, bishop (Syriac Literature), XXII, a 879
—— Kamsa, poet (Syriac Literature), XXII, b 900
—— of Shiggār, physician (Syriac Literature), XXII, b 879
—— Tauretha, abbot (Syriac Literature), XXII, b 886
Gabrielli, Pirro Maria, physicist (Siena), XXII, a 49
Gachupines, class (Mexico), XVI, b 227, note, a 228
Gad, tool (Mining) (Ill.), XVI, a 464
GAD, prophet, X, a 6
GAD, tribe, X, b 5–6; (Palestine), XVIII, a 180
Gadabirisi tribes (Somali), XXII, a 269
GADAMES or Ghadâmes, town and oasis, X, a 6; (Africa), I, a 238; (Oasis), XVII, a 715; (Tripoli), XXIII, b 611, note, a b 612
GADARA, city, X, a b 6; (Gospels), b 705, note
Gaddesden, John (Medicine), XV, a 817
GADDI, Agnolo, painter, X, a 7; (Glass), a 597
GADDI, Gaddo, painter, X, *b* 6
GADDI, Giovanni, painter, X, a 7
GADDI, Taddeo, painter, X, b 6–7; (Glass), a 597; (Orcagna), XVII, b 838
Gade, Niels Wilhelm, composer (Bennett, W. S.), III, a 496; (Denmark), VII, b 82
Gades, city (Cadiz), IV, b 556; (Phœnicia), XVIII, b 819, a 820; (Spain), XXII, *a* 320
Gad-fly (Diptera), VII, b 223
GADIATCH, town, X, a 7
Gadidæ family, fishes (Cod), VI, a 95; (Cod Liver Oil), b 95; (Ichthyology), XII, a 692, a 704, a b 716, a b 717, a b 718, b 719, a 720, a 723, a 730
Gadir or Gaddir, town (Cadiz), IV, b 557
Gadolinite (Mineralogy) (Ill.), XVI, a 427; (Yttrium), XXIV, b 795; metals (Chemistry), V, a b 470; (Spectroscopy), XXII, a 391
Gadow, naturalist (Ornithology), XVIII, b 46, a 50, note; (Shrike), XXI, b 885; (Sun-Bird), XXII, b 686; (Titmouse), XXIII, b 446
Gadus, genus. See Gadidæ
GADWALL, bird, X, a b 7
Gæa, goddess (Mythology), XVII, b 161; (Oracle), a 832
Gaekwar. See Gaikwar
GAELIC LANGUAGE AND LITERATURE, X, b 7–13
  clan history, b 11–12
  defects of language, a b 9
  literature, b 9–13
  manuscripts, a b 12
  mythology, b 9–10
  names of places and persons, b 10–11
  peculiarities of dialects, a 8–9
  philologists, b 7–8
  printed books, b 12–13
  proverbs and fiction, b 11
  territory, Celtic, a 8
  topography, b 10–11
—— (Celtic Literature), V, b 258, a b 259; Dictionaries, VII, a 163; literature (Celtic Literature), V, b 271–2, a 284; poems (Lismore, Island), XIV, b 700
Gaels, race (Celtic Literature), V, *a b* 261; (Scotland), XXI, b 495, b 502, b 507; in Wales (Ireland), XIII, a b 252; (Pembroke), XVIII, a 493. See Goidelic Race
GAETA, city, X, b 13–4; (Italy), XIII, b 498, a 499, b 500

Gaeta, Antonio di, missionary (Gaeta), X, a 14
——, Giovanni da. See GELASIUS II., Pope
Gaetano, Giovanni. See NICHOLAS III., Pope
GÆTULIA, district, X, a b 14; (Juba II.), XIII, a 769
Gætulians, people (Mauretania), XV, b 643; (Numidia), XVII, b 643
Gaffarelli, Jacopo, forger (Ramusio), XX, a 282
Gaffat, town (Abyssinia), I, b 63-4, a 65
Gaffs, spars (Sail), XXI, *b* 161
Gaff-top-sail (Seamanship), XXI, b 628
Gagates, mineral (Jet), XIII, a 683
GAGE, Thomas, governor, X, b 14; (United States), XXIII, b 787, *a* 788, b 789, a 790
GAGERN, Hans Christoph Ernst, baron von, statesman, X, b 14-5
Gages, Jean Bonaventure Dumont, Count de, general (Spain), XXII, *b* 353
Gaggar river (Punjab), XX, a 113
Gaha or Kaha lake (Gondar), X, b 685
Gahmar, town (Ghazipur), X, *a* 500
Gahnite (Mineralogy), XVI, a 402
Gahn's blowpipe (Ill.), III, b 727
Gaia, town. See OPORTO and Gaion
Gaiar, hero (Celtic Literature), V, a 279
Gaidel or Gael, nobles (Brehon Law), IV, a 226
Gaikas, tribe (Kaffraria), XIII, *a* b 827, a 828
Gaikwar or Gaekwar, princes (Baroda), III, b 328-9; (Mahrattas), XV, b 291, b 299
Gailenreuth Cave, V, a 232
GAILLAC, town, X, a 15
Gaillard, Ferdinand, engraver (Engraving), VIII, a b 394
GAILLARD, Gabriel Henri, historian, X, a 15
Gaillardia, plants (Horticulture), XII, a 255, b 258
Gailthal, river (Alps), I, a 555
Gaimar, Geoffrey, author (Romance), XX, b 674
Gaines's Mill, battle, 1862 (United States), XXIII, a 826
GAINSBOROUGH, town, X, a 15
GAINSBOROUGH, Thomas, painter, X, a 15-6; (Schools of Painting) (Ill.), XXI, *a* 461, b 464, a 466
Gaion or Gaia, town (Paxo), XVIII, b 450
Gairdner, James, historian (Paston Letters), XVIII, a 350; (Shakespeare), XXI, a 777
Gaiseric, king. See GENSERIC
GAISSIN or Gaicyn, town, X, a 16
Gait-guit, bird (Sugar-Bird), XXII, a 662 note
GAIUS, jurist, X, a b 16; (Justinian I.), XIII, a 802, *a* 803; (Latin Language), XIV, a 339; (Savigny), XXI, b 341; his *Commentary on Edicts* (Province), XIX, a 911; his *Institutes* (Breviarium Alaricanum), IV, *a* 235; (Roman Law), XX, a 692, *b* 693, a 694, *b* 697, b 698, *a b* 699, *a* 700, *a* 701, a 707, b 708, *a* 709, *a* 710, *a* 713, a 714, b 715, *a* 718, b 720, note, a 723, a b 724, b 726, note, b 727, note, b 728, note, *b* 730, a *b* 731, b 732, a 734; Verona MS. (Palæography), XVIII, a b 157, b 168
Gaj, river (Baluchistan), III, b 260
——, Ljudevit, philologist (Servia), XXI, *a* 724
Gákúj, town (Gilgit), X, a 533
Gala corso (Carnival), V, a 109
Gala river (Edinburgh, County), VII, b 569; (Roxburgh), XXI, b 39
Galaad or Galahad, of Round Table (Romance), XX, *a* 659, b 660, b 662, *a* 663
GALABAT or Gallabat, town, X, b 16
Galactite (Mineralogy), XVI, b 441
Galactometer (Adulteration), I, a 153
Galacz, town. See GALATZ
Galaginæ, group (Lemur), XIV, a b 443
Galago, mammal (Lemur), XIV, b 443
Galam or Milesius, chief (Ireland), XIII, b 249, a 250
GALANGAL, drug, X, b 16-7
Galanthus, plants (Horticulture), XII, b 258; (Snowdrop), XXII, b 212-3
GALAPAGOS ISLANDS, X, a 17-8; (Ecuador), VII, b 558; (Iguana), XII, a 740; (Pacific Ocean), XVIII, b 121, b 132; (Tortoise), XXIII, a b 487; Birds of, III, a b 648
GALASHIELS, town, X, a 18; (Selkirk), XXI, a b 670
Galata, part of Constantinople, VI, b 269, a b 273-4
Galatai, tribes (Celtic Literature), V, a 258, a 260
Galatea, nymph (Nereus), XVII, b 355
——, cutter (Yachting), XXIV, a 760
Galatea, painting (Castillejo), V, b 171
——, pastoral (Cervantes), V, a 305
Galathea, genus (Crustacea), VI, *b* 580, a 581, a 590
GALATIA, province, X, a b 18; (Asia Minor), II, a b 615, a 622; (Paul), XVIII, b 429; coins of (Numismatics), XVII, a 666
GALATIANS, *Epistle to the*, X, b 18-20; (Acts of the Apostles), I, *a b* 116; (Paul), XVIII, a 431
GALATINA, town, X, a 20
GALATZ or Galacz, town, X, b 20-1; (Roumania), XXI, *a* b 20, b 24, a 25
Galaxiidæ, family (Ichthyology), XII, a 715, a 732
GALBA, Servius Sulpicius, emperor, X, a b 21; (Otho), XVIII, b 68; (Rome), XX, *a* 791; (Spain), XXII, a 321
GALBANUM, gum-resin, X, b 21; (Incense), XII, a 757
Galbraith and Haughton's *Manual* (Tables), XXIII, b 16, b 17
Galbulidæ, family of birds (Jacamar), XIII, b 540-1
Galcha, people (Tajak), XXIII, a b 30
Galdan,, convent (Lhasa), XIV, b 500; (Tibet), XXIII, a 368
——, Khan (Mongols), XVI, a b 772
Galdhöpiggen, mountain (Norway), XVII, a 589
Gale, Roger, antiquary (Gordon), X, *b* 695
GALE, Theophilus, divine, X, b 21-2; (Independents), XII, a b 766
GALE, Thomas, classicist, X, a 22
Galedin tribe (Celtic Literature), V, *a* 261
GALEN, Christoph Bernhard van, bishop, X, a 22; (Münster), XVII, *b* 37
GALEN, Claudius, physician, X, a 22-3; (Alchemy), I, a 410; (Anatomy), a 704-5; (Dream), VII, a b 393; (Gout), XI, b 6; (Gymnasium), *b* 310; (Harvey), XI, b 449, b 451; (Hydrophobia), XII, b 578; (Magic), XV, b 209; (Medicine), a 813-14, *b* 817, *a* 818; (Phrenology), XVIII, a 857; (Physiognomy), XIX, *a* 7; (Surgery), XXII, a 709; (Vascular System), XXIV, a 103; (Weights and Measures), a 508, b 514, b 515; translations of (Linacre), XIV, a 659; (Syriac Literature), XXII, a 875
GALENA, city, X, a 23; (Illinois), XII, b 742
——, ore (Brazil), IV, a 202; (Derby), VII, b 93; (Gold), X, b 660, a 666; (Kentucky), XIV, a 45; (Lead), *a* b 375, b 376; (Mineralogy), XVI, b 360, a b 363, a 364, a 382, b 383, b 385, a 386, a 387; (Ill.), b 407
Galenstock, peak (Uri), XXIV, a 16
Galeocerdo, fish (Ichthyology), XII, a 721, b 723; (Shark), XXI, a 813, a 816
Galeodes, genus (Arachnida) (Ill.), II, b 245, a b 246, *a* 247
Galeomyomachia (Manutius), XV, a 520
Galeopithecidæ, family (Mammalia), XV, a b 405
Galeopithecus, genus (Mammalia), XV, *a b* 404, a *b* 405
Galeotti, Marzio, historian (Hungary), XII, b 390
Galerie Aguado, I, b 372
Galerius, Caius Valerius Maximianus, emperor (Constantine I.), VI, a b 266; (Egypt), VII, b 648; (Maximianus), XV, a 651; (Persia), XVIII, b 619-20; (Rome), XX, *b* 795, note
Galerus, hat (Costume), VI, a 403
Gales (Navigation), XVII, a 283; waves (Harbors and Docks), XI, a b 408
Galesaurus (Reptiles), XX, a 455
GALESBURG, city, X, a 23
Galeus, genus (Shark), XXI, a 811
Galewo strait (New Guinea), XVII, b 396
Galgacus, chief (Agricola, Cn. J.), I, b 258; (Britannia), IV, a 319; (Caledonia), *b* 588; (Scotland), XXI, a 493, a 494
Galgenberg, hill (Onyx), XVII, b 798
Galiaceæ, order (Botany), IV, a 106
GALIANI, Ferdinando, economist, X, a b 23; (Morellet), XVI, a 847; (Political Economy), XIX, b 374, a 375
Galibert's aërophore (Coal), VI, b 68
Galibi Dictionary, VII, a 168
Galibier, Col de (Alps), I, *b* 548
GALICIA, Austrian province, X, b 23-4; (Liquor Laws), XIV, b 694; (Ozocerite), XVIII, a 116; (Russia), XXI, b 98, a 99
GALICIA, Spanish province, X, b 24-5; (Spain), XXII, a b 307, a 308, b 309, b 312, b 313, *b* 314, b 316, a 360; kingdom (Spain), b 322, *a* 323, b 325, b 326, a 327, a 331
Galician language (Spain), XXII, b 365, a *b* 366
Galictis, genus (Mammalia), XV, a 447
Galidia elegans (Mammalia), XV, b 443
Galien, Joseph (Aëronautics), I, a 169
Galien le Rhetoré (Romance), XX, a 668
Galigai, Leonora, marquise d'Ancre (France), IX, b 499, a 500
Galik alphabet (Mongols), XVI, a 777
GALILEE, district, X, b 25-7
    antiquities, b 26-7
    boundaries, b 25-6
    lower, a b 26
    upper, b 26
—— (Gospels), X, b 740-1; (Josephus), XIII, a 762; (Palestine), XVIII, b 175, a 176, b 177, a 181, a 182
GALILEE, SEA OF (Ill.), X, a 27-8; (Jesus Christ), XIII, b 674, b 675, a 676
Galilees in Architecture, II, b 408, a 414
Galilei, Vincenzo, musician (Galileo), X, *a* 28, *a* 29; (Music), XVII, a b 93; (Pianoforte), XIX, b 74, a 77; (Zarlino), XXIV, a b 809, a 810
GALILEO Galilei, philosopher, X, b 28-34
    church censures, a 30-1
    contributions to science, b 32-3
    critical estimate of, b 33
    early scholastic career, b 28-9
    Florentine career, a 30-2
    literature, b 33-4
    Paduan career, b 29-30
    retirement of last years, b 31
    telescopic researches, b 29, a 32

Galileo (Anagram), I, a 694; (Astronomy), II, b 658, b 685, b 700, a b 709; (Clocks), VI, a 14; (Descartes), VII, a 103; (Gunnery), XI, a 264; (Italy), XIII, b 521; (Magnetism), XV, b 276; (Mechanics), b 683; (Medici), b 802, a 803; (Milton), XVI, a 339; (Pisa), XIX, b 130; (Telescope), XXIII, *b* 147–8, a b 151; (Thermometer), b 308; (Tides), b 377; (Urban VIII.), XXIV, b 13
Galingale, drug. See GALANGAL
Galin-Paris-Chevé system of notation (Music), XVII, b 107
GALITCH, town, X, a 34; (Galicia), a b 24
Galium, plant (Botany), IV, b 120, b 122
Gall, St., missionary (St. Gall), XXI, a 178
GALL, Franz Joseph, phrenologist, X, a b 34; (Combe, Geo.), VI, b 160; (Phrenology), XVIII, a b 858, a b 859, a 860, a 862, a 863
Galla, race. See GALLAS
Gallabat, town. See Galabat
Gallæcia, kingdom. See GALICIA, Spanish
GALLAND, Antoine, archæologist, X, b 34; (Thousand and One Nights), XXIII, a 337, b 338
Gallantry defined (Knighthood), XIV, b 127
Gallants' war (France), IX, a 496
GALLARATE, town, X, b 34
GALLAS or Galla, X, b 34–5; (Abyssinia), I, a *b* 63, *a* 64, *a* 65; (Africa), b 235–6; (Somali), XXII, b 268, *a* 269; language (Semitic Languages), XXI, b 687; (Dictionaries), VII, b 167
GALLATIN, Albert, statesman, X, b 35–7; (Surveys), XXII, b 938
—— range, mountains (Yellowstone), XXIV, b 773, a 774
Gallaudet, Thomas Hopkins, divine, *b.* 1787, *d.* 1851 (Deaf and Dumb), VII. a 10, a 12
Gall-bladder (Digestive Organs), VII, b 199–200, b 201; (Mammalia) (Ill.), XV, b 365, a b 366; removal of (Surgery), XXII, a 727
GALLE, town, X, b 37
——, Johann Gottfried, astronomer (Astronomy), II, *b* 710, b 711; (Parallax), XVIII, a 254
——, Point de, town (Ceylon), V, *a* b 313, a 314, a 317, *b* 319, b 321
Gallego language. See Galician
Gallegos, people (Galicia), X, a 25; (Wine), XXIV, b 640
—— river (Patagonia), XVIII, b 358
Gallehus inscription (Scandinavian Languages), XXI, b 382
Galleria (Butterflies), IV, a 528, a 531
Galleries (Architecture), II, b 408; (Catacombs) (Ill.), V, b 181–2, a 185; rock (Gibraltar), X, a 522; in Tunneling, XXIII, a 662
Gallery of British Art (Finden, W.), IX, b 168
Gallery of Literary Portraits (Gilfillan), X, a 532
Galles, René, antiquary (Carnac), V, *b* 104
Gallesio, botanist (Citron), V, b 694, *a* 695; (Morphology), XVI, b 867, a 870
Galley, printer's (Typography), XXIII, b 745
Galleys, ancient (Ship), XXI, b 841, note, a b 842–5; French (Camisards), IV, a 658, note; (Colbert), VI, b 111, crew of Venetian (Polo), XIX, a 420; utilization of (Chazelles), V, b 393
Gall-flies (Hymenoptera), XII, a b 609, b 610, note; (Insects), XIII, a 153
Gallgœdel (Ireland), XIII, b 257
Gallia, country. See GAUL
—— Cispadana (Italy), XIII, b 456
—— Narbonensis, province (Languedoc), XIV, b 287
—— Togata, province (Rimini), XX, b 570
—— Transpadana, district (Italy), XIII, b 456
GALLIC ACID, X, b 37–8; (Chemistry), V, a 495; (Leather), XIV, a *b* 381; (Tannin), XXIII, a 53
Gallic Confession (Canon), V, b 14
Gallican church (Bossuet), IV, b 63; (Concordat), VI, a 215; (Councils), b 453–4; (Lamennais), XIV, a 240; (Presbyterianism), XIX, b 713; early (Montanism), XVI, a 802; liberties of (Maimbourg), XV, b 297
—— Liturgy, XIV, *b* 713–4; (Missal), XVI, b 531 note
Gallicanism or Cismontanism (Concordat), VI, a 215; decline of (Vatican Council), XXIV, b 120
Gallicus Ager, district (Umbria), XXIII, *a* 771, a 772
Gallien, Johanna, authoress (Wyttenbach), XXIV, b 751
Gallienus, Publius Licinius, emperor, X, b 38; (Palmyra), XVIII, a b 205; (Rome), XX, b 794, a 795; (Valerianus), XXIV, a 47
Galliera, Raffaele de Ferrari, duke of (Genoa), X, a b 140
—— collection of stamps (Post-Office), XIX, b 605
Gallina Numidica (Guinea Fowl), XI, b 234, note
Gallinæ, group (Birds), III, a 645; (Ornithology), XVIII, a 27, b 28, a 35, a 42, b 49, a 50; (Partridge), b 338 note
Gallinago, bird (Snipe), XXII, a 211
Gallinaria, island (Martin), XV, b 588
Gallinula, bird (Moor-Hen), XVI, b 834
GALLIO, Junius Annæus, proconsul, X, b 38
GALLIPOLI, Italy, town, X, a 39
GALLIPOLI, Turkey, town, X, b 38–9
Gallirallus, genus (Ocydrome), XVII, a b 743, notes
Gallirex, genus (Touraco), XXIII, b 518
Gallisizing process (Wine), XXIV, b 634–5
Gallitzin, Sergius, prince (Kriloff), XIV, a 149
GALLIUM, metal, X, b 39; (Chemistry), V, b 404, a 405; spectrum (Spectroscopy), XXII, a 391
Gall-nut black (Dyeing), VII, a 501
Gall-nuts (Forests), IX, a 353; (Gallic Acid), X, *a* 38
Gallocanta Lake (Aragon), II, b 267
Gallois, Jean, critic (Periodicals), XVIII, b 549
Gallo-Italian dialects (Italy), XIII, a b 503, b 507
Gallon, standard (Water), XXIV, b 421; British standard (Weights and Measures), a 505, b 507, a *b* 517
Gallo-nitrate of silver (Photography), XVIII, a 837
Gallopavo, bird (Turkey), XXIII, a 699
Galloping (Horse), XII, b 200
Gallo-Roman Museum (Paris), XVIII, b 287
Gallotannic acid (Leather), XIV, a *b* 381; (Tannin), XXIII, b 52
Galloway, district (Kirkcudbright), XIV, a b 100, a 101; (Northumberland), XVII, a 584, a 585; (Scotland), XXI, *a* 546, *a* 549; (Wigtown), XXIV, a 595; division of (Scotland), XXI, a b 507
—— cattle (Agriculture), I, b 344; (Dumfries), VII, b 454; Horse, XII, b 194
GALLOWAY, Thomas, X, b 39
—— boiler (Steam-Engine) (Ill.), XXII, a 519; tubes (Steam-Engine), a 518
GALLS (Ill.), X, b 39–42
  authorities, b 42
  commercial uses, a b 41, a 42
  development, a b 40
  insects, b 40–2
  lodgers and parasites, b 42
—— (Hymenoptera), XII, b 607, *a* b 609, *b* 610, note; (Ink), XIII, a b 86; (Insects), b 149; (Leather), XIV, b 382, b 391; (Leeuwenhoek), a 412; (Oak), XVII, b 711, b 713; (Parasitism), XVIII, b 267, a 271; (Saw-Flies), XXI, a 358; (Tamarisk), XXIII, b 45; (Tannin), b 52, a 53
Gall-stones or calculi (Colic), VI, a 127; (Jaundice), XIII, a b 609; (Trematoda), XXIII, b 572, a 573; (Vesical Diseases), XXIV, a b 205
GALLUPPI, Pasquale, philospher, X, b 42–3
Gallurese dialect (Italy), XIII, b 503–4
Gallus, genus (Birds), III, b 633; (Fowl), IX, a 434; (Poultry), XIX, b 664, a 665
——, Ælius, prefect (Egypt), VII, a 648; expedition of (Arabia), II, a b 224; (Yemen), XXIV, a b 776, a 777, a 778
GALLUS, C. Cornelius, poet, X, a 43; (Papyrus), XVIII, b 236; (Virgil), XXIV, b 268, b 270, b 271
——, Flavius Claudius, emperor (Julian), XIII, *a* 778
——, Martin, chronicler (Poland), XIX, a 297, a 298, a 299, *a* 311
Galluzzi, Riguccio, historian (Pottery and Porcelain), XIX, a 656
Galmei, ore (Mineralogy), XVI, a 428
GALOIS, Evariste, mathematician, X, a 44; (Equation), VIII, *b* 450, *a* 451; (Numbers), XVII, b 630, b 638
Galoubet, instrument of music (Pipe), XIX, b 119
Galt, town (Ontario), XVII, b 797
——, Sir Alexander Tilloch, financier, X, b 43
GALT, John, novelist, X, a 43–4
Galtchas, people (Karategin), XIV, a b 6; (Turkestan), XXIII, b 677, a 680
Galtees, mountains (Lime), XIV, *b* 655; (Tipperary), XXIII, b 432
Galton, Francis, scientist (Psychology), XX, a 53 note
Galtymore, mountain (Ireland), XIII, a 221
Galung-gung, volcano (Java), XIII, a 611, note
GALUPPI, Baldassarre, composer, X, a 44
GALVANI, Luigi, physiologist, X, a b 44; (Electricity), VIII, b 9, b 78; (Volta), XXIV, a 305
Galvanic Baths, III, b 379; batteries (Electricity), VIII, a 87–8; earth currents (Meteorology), XVI, b 185
Galvanism. See ELECTRICITY and GALVANOMETER
Galvanized Iron, XIII, b 367; durability of (Harbors and Docks), XI, b 414; wire (Iron), XIII, b 363
Galvano, Antonio, geographer (Hakluyt), XI, b 338
GALVANOMETER (Ill.), X, b 44–9
  Becquerel's balance, b 44–5
  construction of parts (Ill.), a 45–6
  operating (Ill.), a 48–9
  resistance measuring, b 48–9
  sensitive (Ill.), a b 47
  standard (Ill.), b 47–8
—— (Electricity), VIII, a 13, b 38, b 41–2; (Nobili), XVII, a 538; (Telegraph), XXIII, b 124–5, a b 126, a b 127; differential (Electricity), VIII, b 41; mirror (Telegraph), XXIII, b 134
Galvanoscope (Galvanometer), X, b 44
Galvanotropism of plants (Physiology), XIX, b 67
Galvâo, Duarte, chronicler (Portugal), XIX, b 571

GALVESTON, city, X, a 49–50; (Texas), XXIII, b 221, *a* b 222, a 223; (United States), a 856
Galvez, Bernardo, count, governor (New Orleans), XVII, a 414
GALWAY, county, X, b 50–2; (Ireland), XIII, b 266; town, X, a b 52
Gam, Sir David, soldier (Brecon), IV, b 218
Gama, Cristoforo da, adventurer (Geography), X, b 163
——, Stephen de, admiral (Abyssinia), I, b 64
GAMA, Vasco da, navigator, X, b 52–3; (Calicut), IV, a 615; (Commerce), VI, *a* 180; (Compass), a 202; (Geography), X, a *b* 162; (India), XII, b 835–6; (Mombasa), XVI, b 724; (Natal), XVII, b 248
Gamala, town (Galilee), X, b 28
GAMALIEL, rabbi, X, b 53–4; (Paul), XVIII, a 426
—— of Jabneh, X, *a* 54
—— Ben-Jehudah, X, a 54
Gamarra, Agustin, president (Bolivia), IV, *b* 17; (Peru), XVIII, a 692, note
Gamasides, family (Arachnida), II, a 242
Gambacorti family (Pisa), XIX, *a* 130
Gambassi, Francesco di Lievi da, painter (Glass), X, *b* 597–8
Gamba stop (Organ), XVII, a 855, *b* 856
Gambetta, Léon, statesman, *b*. 1838, *d*. 1882 (Aëronautics), I, b 180; (France), IX, b 551, b 552, *b* 553; (Germany), X, b 459
Gambey mounting (Telescope) (Ill.), XXIII, a 160
GAMBIA or Gambra river, X, a 54–5; (Africa), I, a 225, a 227
Gambian avifauna (Birds), III, a 658
Gambier islands (Tuamotu), XXIII, b 639 note, a 640
——, Mount (South Australia), XXII, b 297, *a* 298, b 299
GAMBIER, James, baron, admiral, X, a b 55; (Dundonald), VII, a b 466
Gambir, gum (Catechu), V, *a* b 192; (Leather), XIV, b 382, *b* 391
Gambit (Chess), V, b 515
Gambling (Fox, C. J.), IX, b 437; (Gaming), X, b 60–1; (Homburg), XII, a 111; (Monaco), XVI, a 744; in oil (United States), XXIII, b 865. See BETTING and WAGER
—— Hansel, legend of (Sisyphus), XXII, a 110
Gambo, plant (Fibres, Textile), IX, a 116
Gamboa, Pedro Sarmiento de, explorer (Patagonia), XVIII, b 358
GAMBOGE, gum, X, b 55–6; (Botany), IV, a 124; (Cambodia), b 641
——, color (Pigments), XIX, a 96
Gambold, John, bishop (Methodism), XVI, a 193 note
Game, food (Argyllshire), II, a 440; (Buffalo), IV, *a* b 396; (Capercally), V, a b 49; (Coot), VI, b 303; (Guillemot), XI, a 233; (Inverness), XIII, b 205, a b 206; (Kansas), b 852–3; (New Brunswick), XVII, b 383; (Norway), b 595; (Nova Scotia), b 617; (Partridge), XVIII, a 338; (Prince Edward Island), XIX, b 759; (Quail), XX, a b 153; (Quebec), a 173; (Russia), XXI, b 93; (Scotland), b 556–7; (Shooting), a 873–4; (Snipe), XXII, b 211; (Tyrol), XXIII, b 758; (Woodcock), XXIV, b 684, note, a 685
Game and Playe of Chesse (Caxton), V, a 243
—— fowl (Poultry), XIX, a 665
GAME LAWS, X, a 56–7; (Government), XI, b 18; (Land), XIV, b 260; (Landlord and Tenant), a 274, b 276; (Shoveler), XXI, b 882, note; (Swan), XXII, b 768–9; (Switzerland), b 816
Gamelyn, outlaw (Romance), XX, b 675
Game preserves (Agriculture), I, b 363–4; (Land), XIV, b 270–1
GAMES, X, b 57–60
  Greek, b 57–9
  Olympian, a 58–9
  Roman, a 59–60
—— (Egypt), VII, a 630; (Tahiti), XXIII, b 29. See Specific Names
——, Greek, X, b 57–9; (Agonothetæ), I, a 254; (Athletæ), III, a b 12; (Greece), XI, b 88; (Gymnasium), b 310; (Horse), XII, a 203; (Isthmian Games), XIII, b 442; (Laurel), XIV, b 349; (Olympia), XVII, *b* 787–8; (Panathenæa), XVIII, a 214; (Pindar), XIX, b 108, a 109; invention of (Lydia), XV, b 101. See Isthmian, Nemean, Olympian and Pythian games
——, Moslem law of (Harem), XI, b 427
——, Roman, X, a 59–60; (Ædile), I, a 163; (Calpurnius), IV, b 630; (Trajan), XXIII, a b 536; Consualia (Rome), XX, a 830, note; Secular, XXI, a 649. See AMPHITHEATRE, CIRCUS, GLADIATOR, Ludi Publici, Venatio
——, unlawful (Bowls), IV, a 163; (Cards), V, b 88; (Wager), XXIV, b 326
Gamester, tragedy (Moore), XVI, b 829
Gametes, cells (Reproduction), XX, *b* 437
Gametophyte of Muscineæ (Vegetable Kingdom), XXIV, *a b* 140
Gamgee, Arthur, physiologist (Ice), XII, *a* 649. See List of Contributors
——, Sampson, physician (Vascular System), XXIV, *a* 104, notes
GAMING, X, a 60–1. See Gambling
Gammadion (Cross), VI, a 542
Gamma-function (Infinitesimal Calculus), XIII, b 50; (Tables), XXIII, a 19
Gammarus, genus (Crustacea) (Ill.), VI, a 585
Gammer Gurton's Needle (Drama), VII, a b 370; (Skelton), XXII, a 128
Gammoning, bowsprit (Seamanship), XXI, a b 623
Gamogenesis (Biology), III, a 594
Gampo, Srong-tsan, king of Tibet (Lhasa), XIV, b 498, a 499, b 501; (Lamaism), a b 229; (Tibet), XXIII, a 367
Gamopetalæ, series (Vegetable Kingdom), XXIV, a 143
Gamoroi, aristocrats (Syracuse), XXII, *a* 853
Gampen, pass (Alps), I, b 551, *a* 552
Gamrie, parish (Banffshire), III, a *b* 269
Gamtoos, river (Cape Colony), V, b 38, b 40
Gamut (Music), XVII, a 88
Gañ, river (Transbaikalia), XXIII, a 542
Gand, town. See GHENT
Ganaka, king (India), XII, b 821 note
Ganbardee, El, general (Egypt), VII, b 657–8
Gandak, river (Nepāl), XVII, b 349
Gander river, lake and bay (Newfoundland), XVII, *a* b 392
GANDERSHEIM, town, X, b 61; circle (Brunswick), IV, b 360, a 361; nunnery (Hrosvitha), XII, a b 340
Gandharvas, deities (Brahmanism), IV, a 188
GANDIA, city, X, b 61
——, duke of. See FRANCIS BORGIA
GANDO, kingdom and town, X, b 61–2; (Soudan), XXII, *a b* 292
Ganelon, traitor (Romance), XX, a 666, *b* 667
Ganésa, deity (Brahmanism), IV, a 188
Ganessa, mathematician (Algebra), I, a 456
Gangá Govind Sinh, rájá (Kándí), XIII, b 846
Ganganelli. See Pope CLEMENT XIV.
GANGES river, X, a b 62; (Bengal), III, a b 485; (Bhagalpur), a 541; (Crocodile), VI, a 525; (Dehra Dún), VII, *b* 30; (Gaur), X, *b* 102; (Geography), b 157; (Himalaya), XI, a *b* 745; (Hincmar), b 747; (Hooghly), XII, b 150; (Ichthyology), b 669; (India), b 770, a 774, b 794, a 795; (Irrigation), XIII, a b 377; (Jumna), b 782–3; (Káveri), XIV, a 21; (Meteorology), XVI, b 147, a 156; (Monghyr), a b 766; (Nadiyá), XVII, b 167; (N. W. Provinces), b 585, *a* 586; (Oudh), XVIII, a 75; (Patna), a b 419, a 420; (Tirhut), XXIII, b 434
—— canal (Hydromechanics), XII, a b 528, b 529–30; delta (Bákarganj), III, b 213; (Geology), X, *a* 247; detritus (Geology), a b 244; dolphin (India), XII, b 781–2
GANGI, town, X, b 62; (Engyum), VIII, a 397
Ganglia, nerve-masses (Anatomy), I, *b* 755, *a* 756, b 761, *b* 774, *a* 775, *a b* 776; (Crustacea), VI, b 561–2; (Insects), XIII, a 551; (Mollusca), XVI, a 656, a 657, a b 659, a 684, a 705, b 718; basal cerebric (Physiology), XIX, b 42; of cerebrum (Anatomy), I, a *b* 771, a b 772; origin of (Physiology), XIX, a b 35
Gangliated cord (Anatomy), I, b 775–6
Ganglion impar (Anatomy), I, b 775, a 776
GANGOTRI, shrine, X, b 62; (Himalaya), XI, a 737, *b* 745
GANGPUR, state, X, b 62–3; (Chutiá Nágpur), V, *b* 671, a 672
Gangra, town (Paphlagonia), XVIII, b 231; council of, 363 (Monachism), XVI, a 729
Gangrene (Mortification), XVI, a 876; (Surgery), XXII, a b 718
Gang-saws (Saws), XXI, a 359, a 360
Gangue or matrix (Iron), XIII, a 292, b 302, a 303; (Metallurgy), XVI, a 63, a 67
Ganguillet and Kutler's river gaugings (Hydromechanics), XII, a 519–20
Gangway at entrance (Harbors and Docks), XI, b 421
Gan-hwuy, province (China), V, a b 548, a b 552
Gani, islands (Ladrone Islands), XIV, b 200
GANILH, Charles, political economist, X, a 63
Ganister, rock (Coal), VI, a 46, a *b* 49; (Furnace), IX, b 741; (Iron), XIII, b 353–4; clay (Geology), X, b 212
Ganja or Bhang, drug, III, b 542; (Hemp), XI, a b 578–9; (India), XII, b 811; (Narcotics), XVII, 238
Ganjah, town (Nizámí), XVII, *b* 535
Ganjak, fire temple (Persia), XVIII, b 625
GANJAM, district and town, X, a b 63
Gan Luh-shan, general (China), V, *a* 561
GANNAL, Jean Nicolas, chemist, X, b 63–4
Gan-nan Lake (China), V, b 549
GANNAT, town, X, a 64
GANNET or Solan Goose, bird (Ill.), X, a 64–5; (Birds), III, a 618, note
Gannet's bath, X, a 64, note
Gannett, Ezra Stiles, divine (Channing), V, b 342
——, Henry, geographer (Surveys), XXII, b 937; (United States), XXIII, b 853. See List of Contributors
Ganoid scales (Ichthyology) (Ill.), XII, a 676
Ganoids, fishes (Agassiz), I, *a* 246; (Amphibia), a 658, b 674, a 675, a 676; (Ichthyology) (Ill.), XII, b 670–1, *a b* 673, a 676, a 683, a b

Ganoids, *continued* 684–5, a b 688, a 690, a b 694, a b 695-6, b 697, a b 699, b 702, a 703, a b 705, *a* 706, a 709, a 710, b 711, a 712, b 713, b 714, b 724-6; (Zoology), XXIV, b 851
GANS, Edward, jurist, X, a 65; (Hegel), XI, a *b* 550, a 551, a b 554
GANSBACHER, Johann Baptist, composer, X, a b 65
Gansha, town (Elizabethpol), VIII, b 135
Gantúr, division (Kistna), XIV, b 104
GANYMEDE, X, b 65–6; *Rape of*, statue (Leochares), XIV, b 454
Gaols. See Jails, Prisons, Reformatories
GAP, town, X, a 66; (Alpes), I, b 527
Gapes in poultry (Parasitism), XVIII, a 264
Gap lathe (Machine Tools) (Ill.), XV, b 154
Gara, lough (Sligo), XXII, a 169
Garái river (Sháhjahánpur), XXI, *b* 771
Garamantes, people (Fezzan), IX, *a* b 114; (Tibbus), XXIII, *a* 355
Garanceux, dye (Calico-Printing), IV, a 609, b 610
Garancin, dye (Calico-Printing), IV, *a* 609, *b* 610
GARAT, Dominique Joseph, statesman, X, a b 66; (France), IX, b 532
GARAT, Pierre Jean, singer, X, b 66
GARAY, János, poet, X, b 66; (Hungary), XII, a b 393
——, Juan de, explorer (Argentine Rep.), II, *a* 431; (Buenos Ayres), IV, a 395
Garb or wheat sheaf (Heraldry), XI, a 627
GARBO, Raffaellino del, painter, X, b 66–7
GARÇAO, Pedro Antonio Correa, poet, X, a 67
Garces, Martin, master (St. John of Jerusalem), XXI, b 183
Garcia, king of Leon (Alphonso III.), I, a 541; (Spain), XXII, *b* 326
—— I., king of Navarre (Spain), XXII, *a* 327
—— III., of Navarre (Ferdinand I., Castile), IX, b 70
—— of Galicia, prince (Alphonso VI.), I, a b 541
——, Adolfo, poet (Peru), XVIII, a 689
——, Diego, explorer (Argentine Rep.), II, b 430
——, Don José Herrera, engineer (Fortification), IX, b 411
GARCIA, Manoel, composer, X, a 67
—— Ramirez, of Navarre, king (Spain), XXII, a 331
—— Vicens, poet (Spain), XXII, b 378
—— de Silva y Figuero, envoy (Persia), XVIII, a 649
Garcie, alias Ferrande, Pierre, author (Sea Laws), XXI, b 611, a 612
GARCILASO DE LA VEGA, poet, X, a b 67; (Castillejo), V, a 171; (Pastoral), XVIII, a 351
GARCILASO INCA DE LA VEGA, historian, X, b 67–8
Garcinia, genus (Gamboge), X, b 55, a 56; (Oils), XVII, a 768
Garczynski, Stephen, poet (Poland), XIX, a 316
GARD, department, X, a 68
GARDA, lake of, X, a b 68
GARDAIA, town, X, b 68-9
Gardanne, general (Persia), XVIII, a 659
GARDELEGEN or Gardelebeu, town, X, a 69
Garden, flower (Horticulture) (Ill.), XII, b 239-40; materials and appliances for (Horticulture) (Ill.), b 237–40; plan and structures of (Horticulture) (Ill.), b 221–37; shelter (Horticulture), a 223; water-supply (Horticulture), a b 223
—— calendar for Great Britain (Horticulture), XII, a 302–6; for United States (Horticulture), a 306–8
Garden City (Long Island), XIV, a 877; (Stewart), XXII, b 928
—— engine (Horticulture) (Ill.), XII, b 239-40
Gardening, landscape (Kent, W.), XIV, b 42; (Labyrinth) (Ill.), a 181–2
Garden of Cyrus (Browne, Sir T.), IV, b 350, a 351
—— *of the Soul* (Challoner), V, b 323
—— *of Truth*, Súfic treatise (Persia), XVIII, a 671; (Sana'i), XXI, a 267
Gardens (Egypt), VII, b 613, a 614, a 616; (Farnese), IX, b 33-4; (Italy), XIII, a 460; (Kashmír), XIV, a 13; (Lahore), a 215; (Mexico), XVI, b 217, b 218, a 230; (Paris), XVIII, a b 280, a 287; (Seine), XXI, b 655; (Versailles), XXIV, a 192; (Warsaw), *b* 396. See Botanical and Zoological Gardens, Parks
Gardie, Jakob de la, count, general (Sweden), XXII, a 787
Gardiens de la paix (Police), XIX, b 355, a 356
GARDINER, city, X, a 69
——, river (Yellowstone Park), XXIV, a b 773, b 774
GARDINER, James, soldier, X, a 69
GARDINER, Stephen, bishop, X, a 69–70; (Cranmer), VI, a 486, b 487, a 488; (Cromwell, T.), b 536; (England), VIII, a b 299, b 302, a 304; (England, Church of), b 337
——, William, mathematician (Tables), XXIII, b 14 note
Gardiner's Bay (Long Island), XIV, a 876
—— Island (Long Island), XIV, a 877
Gardner, Allen, captain (Natal), XVII, b 248
Gardon, river (Gard), X, a 68
Gardthausen, V., philologist (Palæography), XVIII, b 152, a b 154, b 169
GARE-FOWL or Gar-Fowl (Ill.), X, b 70–2; (Auk), III, b 74; (Birds) (Ill.), a 634, a b 637
GARESSIO, Garesso or Garezzo, town, X, a 72
GARFIELD, James Abram president (United States), XXIII, *b* 833, b 836, b 837; (Census), V, b 295
GAR-FISH, X, a b 72. See Gar-Pike
GARGANEY, bird, X, b 72
Gargano, monte (Italy), XIII, b 448
Gargantua, giant (Rabelais), XX, a b 201
Gargantua, satire (Rabelais), XX, *b* 201, a b 202, a 203-5
Garganus, promontory (Apulia), II, a 189. See Gargano
Gargarus, peak (Troad), XXIII, b 617
Gargoyle or Gurgoyle (Architecture), II, b 408
Garhakota, town (Ságar), XXI, a 155
Garhá Mandla, principality (Jabalpur), XIII, b 538–9
Garhgáon, city (Assam), II, b 628
GARHWAL, district, X, b 72-3; (N. W. Provinces), XVII, b 585, a *b* 586, a 587; (Himalaya), XI, a 735, a 737
Garibaldi, Giuseppe, general, *b.* 1807, *d.* 1882 (Caprera), V, b 69; (Cavour), *a* b 240; (France), IX, b 549, a b 550, a 551, b 552; (Italy), XIII, b 497, a 498, a b 499, a b 500, a b 501; (Mazzini), XV, a b 662, a 663; (Messina), XVI, b 62; (Milazzo), b 305; (Rome), XX, a 824
Gariep, river. See Orange River
Garigliano or Liris river (Italy), XIII, a 449; (Latium), XIV, b 345
Garisch, district (Aberdeenshire), I, b 46, b 47
Garita Hills (United States), XXIII, b 846
Garland, The (Anthology), II, a 92
Garlande, Mathilde de, abbess (Port Royal), XIX, a 548
Garleton Hills (Haddington), XI, b 322, a 323, a 324
GARLIC, plant, X, a b 73; (Horticulture), XII, b 294; (Mushroom), XVII, a 84
Garmakhia convent (Lhasa), XIV, b 499
Garner, glacier (Switzerland), XXII, b 815
Garnerin, André Jacques (Aëronautics), I, b 174, a 181
Garnet, fish (Australia), III, b 97–8
GARNET, mineral, X, b 73–4; (Jacinth), XIII, a 542; (Mineralogy) (Ill.), XVI, b 363, a 364, a 379, a b 382, a 383, a b 387, a 388, a 391, a 392, a 394, b 395; olivine rock (Geology), X, a 210; varieties of (Mineralogy), XVI, b 428, a 429
——, Henry, Jesuit conspirator (Fawkes), IX, b 52
Garnett, Richard, philologist (English Language), VIII, a 358, a 360. See List of Contributors.
GARNIER, Germain, economist, X, a b 74; (Political Economy), XIX, b 395 note
——, Joseph, economist (Political Economy), XIX, b 409
GARNIER, Marie Joseph François, or Francis Garnier, explorer, X, b 74; (Cachao), IV, a 555; (Cambodia), *a* b 642; (St. Étienne), XXI, b 176; Toug-King), XXIII, b 469
——, Philippe, bibliographer, III, b 572
——, Robert, poet (Drama), VII, a 366; (France), IX, b 573
Garnierite, ore (New Caledonia), XVII, b 385
Garnier's process (Nickel), XVII, a 501
Garnietz in Weights and Measures, XXIV, b 518
Garnishee, law-term (Attachment), III, *a* 46; (Labor), XIV, b 173
Garnishing herbs (Horticulture), XII, a b 302
Garnish-tax (Prison Discipline), XIX, a 767
Garofalo, Il, painter. See TISIO
GARONNE, river, X, a 75; (France), IX, b 446, b 457; (Lot-et-Garonne), XV, b 10; (Toulouse), XXIII, a 515
GARONNE HAUTE-, department, X, a b 75
Gar-Pike, fish (Ichthyology), XII, a 726, a 732
Garrett, Joáo Baptista de Almeida, poet (Portugal), XIX, b 568, b 569, *a* 573
Garrett's horse-hoe (Agriculture), I, b 286, b 316
GARRICK, David, actor, X, b 75–6; (De Loutherbourg), VII, a 47; (Drama), b 375, b 377, a b 378; (Foote, S.), IX, *a* 322, *a* 323; (Goldsmith), X, b 678, *b* 679, a 680; (Ipswich), XIII, a 218; (Johnson, S.), b 731, b 733–4, a 737; (More, Hannah), XVI, b 840; (Pantomime), XVIII, a 220; (Sheridan), XXI, *a* b 833, *a* 835; (Wycherley), XXIV, b 742
——, Peter, soldier, X, *b* 75
GARRISON, William Lloyd, philanthropist, X, b 76–9
    abolition societies, b 78–9
    Baltimore life, a b 77
    Boston journalist, b 77–8
    English mission, a 78
    youth and trade, b 76–7
—— (Newspapers), XVII, a 445; (Slavery), XXII, *a* 909; (Tappan), XXIII, b 922; (United States), b 815
Garrison Artillery, II, b 580, a b 582, a 584
—— Court martial, VI, a 460
Garrisons, Prussian (Army), II, a 523
Garrod, Alfred Henry, physician (Bustard), IV, b 515; (Gout), XI, a b 7, *a* b 8, a 9; (Lory), XV, *a* b 9; (Motmot), XVII, b 9; (Mouse-Bird), b 12; Ornithology), XVIII, a 33,

Garrod, *continued*
a 43-4, note, a 45, b 50, note, a 51; (Parrot), b 328, a 329; (Pitta), XIX, a 159; (Screamer), XXI, b 578; (Scrub-Bird), a 581; (Tapaculo), XXIII, a 54
Garron, pony (Agriculture), I, a 342
Garrulus, genus (Jay), XIII, a 621-2
Garry, loch (Lake), XIV, a 218, a 220; river (Scotland), XXI, b 546
Garsauritis, region (Cappadocia), V, *b* 67
Garson, J. G., ethnologist (Sumatra), XXII, b 673
Gartak, town (Tibet), XXIII, b 362, *b* 363, a 364
Gartang valley (Tibet), XXIII, a 361
Garter, Order of the (Knighthood), XIV, a 123-5, b 126; (Londonderry), a 866; (Precedence), XIX, a 683
Garters (Costume), VI, b 419, a 420
Garter's Roll (Precedence), XIX, a 683, note
GARTH, Sir Samuel, poet, X, a 79
Gärtner, Joseph, botanist (Breeds), IV, a b 222; (Hybridism) XII, a 442
Garua, drizzling rain (Peru), XVIII, b 683, a 684
Garuda, bird (Roc), XX, a 627
Garumna, river. See Garonne
Garvie, fish (Fisheries), IX, b 228; (Sprat), XXII, a 449
Garvogue, river (Sligo), XXII, a 169
Garway or Garraway, Thos., restaurateur (Tea), XXIII, b 108
GAS AND GAS-LIGHTING (Ill.), X, a 79-93
  bibliography, a 93
  burners (Ill.), b 88-90
  coal-gas, a 80-1
  condensation, b 83-4
  distribution service (Ill.), b 87-8
  future of coal-gas, b 92-3
  history, b 79
  holder (Ill.), b 86-7
  main, hydraulic, a b 83
  manufacture, b 81-6
  natural gases, a b 79
  purification, b 84-6
  residual products, b 90-1
  retorts (Ill.), a 81-3
  separation of retort products (Ill.), a 83-4
  site of works, b 81
  sources other than coal, a 91-2
  storage mechanism (Ill.), b 86-7
  testing, b 90

Gas, industrial uses of
—— as by-products, X, b 90-1; (Nitrogen), XVII, b 530. See AMMONIA; in casting (Iron), XIII, a b 366, note; in puddling, b 329-30; in smelting, a 300; utilization of converter gases, a 314; waste collection, a 315-6; waste, composition of, a 316-7
—— as fuel, IX, b 710 (Coal), VI, a b 44, a 45, b 46, b 54; (Iron), XIII, a 300-1; (Natural Gas), XVIII, a 896, b 898; (Siemens), XXII, *a* 43; (Smoke Abatement), a b 192; (United States), XXIII, b 865-6; composition of (Coal), VI, b 67; furnaces for, IX, b 742-3; reheating (Iron), XIII, b 340; Stoves for, XXII, a 608
—— in Gunnery, effects of (Gunmaking), XI, a b 258, a b 259; check projectiles, a b 263
—— lighting (Accum), I, b 87; (Aldini), a 470; (Coal), VI, a b 44, a 45, b 46, b 54; (Flame), IX, b 246; (Glasgow), X, b 572; (Hanover), XI, a 401; (Light-house) (Ill.), XIV, a b 632, b 633; (London), a 835, b 861; (Murdock), XVII, a 60; (Paris), XVIII, a 285; composition of (Coal), VI, b 67; fittings for (Building), IV, b 456; oil (Petroleum), XVIII, a b 732, a 733; service-laws (Conspiracy) VI, *b* 262; (Trades Unions), XXIII, a 532
—— as motor (Aëronautics), I, *a* 173, a 182; Dawson's cheap (Steam-Engine), XXII, b 553; horse power of, a 553; theory of, perfect, b 497-500; working properties of, a 498
—— burners (Flame), IX, a 248; (Gas Lighting), X, b 88-90; (Lamp), XIV, b 245-7; (Light-house) (Ill.), b 623, a b 625, b 632-3
Gasca, Pedro de la, Judge (Peru), XVIII, a 691
Gas-Carbon, V, a b 77; (Charcoal), b 346
GASCOIGNE, George, poet, X, a b 93; (Gilbert, H.), b 527
——, William, inventor (Micrometer), XVI, a b 251; (Telescope), XXIII, a 148
GASCOIGNE, Sir William, jurist, X, b 93
—— river (Western Australia), XXIV, *a* 535, a 537
—— wine (Adulteration), I, a 157
GASCONY, province, X, b 93-4; (Alphonso X.), I, a 542; (Aquitania), II, a 203; (Mohammedanism), XVI, b 598; (Montfort), a 814; coast of (Geology), X, a 236
Gas-engines (Air-Engine) (Ill.), I, b 379-80; (Lubricants), XV, b 37; (Steam-Engine) (Ill.), XXII, b 491, b 549-53
Gases (Acoustics), I, a 97, a 107, b 109; (Constitution of Bodies), VI, b 276; (Elasticity), VII, a b 695, b 697, a 707; (Hydromechanics), XII, a b 455, b 478-9, b 480; absorption of by plants (Physiology), XIX, a b 52; by platinum metals (Chemistry), V, a b 465; by water (Henry, W.), XI, b 603; (Sea Water), XXI, b 643-4
—— of blood (Respiration) (Ill.), XX, a 498-9
——, combination of (Gay Lussac), X, a 110; (Chemistry), V, b 405-7; discovered (Chemistry), V, a 403
——, composition of (Chemistry), V, b 404; (Dalton), VI, a 692
—— compression and dilatation (Wave), XXIV, a 440
——, density of (Hydromechanics), XII, b 480; table, a b 574
——, diffusion of, VII, a 187-8, a 189, b 190, a b 191; (Atmosphere), III, a b 32; (Molecule), XVI, a 640, a 641; (Pneumatics), XIX, b 259
——, discovery of (Alchemy), I, b 413; (Helmont), XI, b 569
——, disruptive discharge in (Electricity), VIII, b 58-61
——, dynamic theory of (Atom), III, a b 36
——, expansion of (Heat), XI, a *b* 512; (Ice), XII, b 647; (Molecule), XVI, b 640; (Pneumatics), XIX, a b 255-6
——, friction of (Molecule), XVI, a 641, a 642
——, heated (Magnetism), XV, b 274; (Pneumatics), XIX, a 259
——, kinetic theory of (Mechanics), XVIII, b 727; (Molecule), XVI, a 634, a 640
——, liquefaction of (Evaporation), VIII, a b 642; (Hydrogen) (Ill.), XII, a 449-51; (Pneumatics), XIX, a b 257
—— Magnetic properties, XV, a 265-6
—— mass problem of (Molecule), XVI, a 634, a 636
—— in Meteorites, XVI, b 118
——, molecular mobility of (Graham, T.), XI, a b 30; theory of, XVI, b 633, a b 636, b 638, a 639; (Atom), III, a 35-9; volume of (Atom), b 37
——, odors of (Smell), XXII, b 177
——, polarization of (Electricity), VIII, a b 82
——, solidification of (Hydrogen), XII, a b 451
——, specific heats of (Atom), III, b 36; specific induction of (Electricity), VIII, b 36; specific resistance of (Electricity), b 50-1
—— spectra of (Plücker), XIX, b 241; (Spectroscopy), XXII, a 392-3
——, steady flow of (Hydromechanics), XII, b 503-5
——, transference of (Mercurial Air-pump), XVI, b 35, a 36
——, transpiration (Molecule), XVI, b 640
——, volcanic (Geology), X, b 215-6, b 223, a 224; (Italy), XIII, b 452. See Volcano
Gas harmonicon (Acoustics), I, b 107, a 110
—— -holder (Gas-Lighting) (Ill.), X, b 86
GASKELL, Elizabeth Cleghorn, novelist, X, a 94-5; (Brontë), IV, a 330
Gasoline (Gas and Gas-lighting), X, a b 92; (Paraffin), XVIII, a b 245, b 246; (Petroleum), a b 891, a 892
Gasparin, Agénor de, count (Spiritualism), XXII, a 422
Gasparino of Barziza or Gasparinus Pergamensis (Latin Language), XIV, b 342; (Typography), XXIII, a 730, *a* 731
Gaspé, cape (St. Lawrence), XXI, a 191; sandstones (Geology), X, a b 306
Gaspee, burnt schooner (United States), XXIII, a 787
Gaspereau or ale-wife, fish (Shad), XXI, a 763
Gas Poisons, XIX, a b 291; (Sewerage), XXI, b 748; (Ventilation), XXIV, b 171. See MALARIA
—— -producers (Iron), XIII, a 300-1; (Smoke Abatement), XXII, b 192
—— -retort carbon. See Gas-Carbon
GASSENDI, Pierre, philosopher, X, b 95-7; (Astrology), II, a 648; (Astronomy), a 659; (Descartes), VII, b 104, a b 106, a 108, a 111; (Evolution), VIII, b 664; (France), IX, a 581; (Molière), XVI, a 647
Gasserian ganglion (Anatomy), I, b 774
Gassner, John Joseph, priest (Magnetism, Animal), XV, *a* 280
Gas-spurts on rocks (Geology), X, b 260
Gast, Luc de, trouvère (Romance), XX, b 659, *a b* 660, b 663
Gastaldi, Girolamo, cardinal (Plague), XIX, b 175
GASTEIN, valley, X, a b 97; convention, 1865 (Germany), a 458
Gasteria, plants (Horticulture), XII, a 271
Gasteromycetes, sub-order (Fungus), IX, b 731
Gasteropoda, group. See Gastropods
Gasterostomidæ, parasites (Trematoda), XXIII, b 573, b 574
—— -thermometers (Heat), XI, a 503; constant pressure (Heat) (Ill.), a 513-4
Gaston de Blondeville (Radcliffe), XX, a 218
Gaston of Foix. See FOIX and NEMOURS
Gaston d'Orleans. See ORLEANS
—— Phoebus, count of Foix or of Béarn (Foix), IX, a 310; (France), a 567; (Froissart), a b 703; (Pau), XVIII, a b 425
Gastornis, fossil (Birds), III, b 632
Gastræa theory (Reproduction), XX, a 433
Gastric diseases (Stomach), XXII, a 603-4
—— fever (Typhoid), XXIII, b 720; (Veterinary Science), XXIV, a 220
—— juice (Fermentation), IX, a 85; (Mammalia), XV, a 365; (Insectivorous Plants), XIII, a b 142, a b 143; (Nutrition), XVII, b 692, a 693, a b 694, *a b* 696
—— nerve (Anatomy), I, a 775; vein (Anatomy), a 796

Gastropods, group (Geneva, Lake of), X, a 136; (Mollusca), XVI, b 654, a b 655, b 663, a 688; (Smell), XXII, b 175; (Zoology), XXIV, a 853
Gastrosteidæ, family (Ichthyology), XII, b 698, a 699, b 702, a 707, b 713, b 729
Gastrosteus, genus (Stickleback), XXII, b 575, a *b* 576
Gastrostomidæ, family (Trematoda), XXIII, b 573, b 574
Gastrozooids (Hydrozda) (Ill.), XII, b 597, *a* 598, a 599
Gastrula, embryonic form (Animal Kingdom), II, b 46–7; (Morphology) (Ill.), XVI, a b 869, a 872; (Trematoda), XXIII, a 572; (Zoology), XXIV, a 850
Gastrus Equi, parasite (Veterinary Science), XXIV, b 222
GATAKER, Thomas, divine, X, b 97
GATCHINA, town, X, b 97
Gate, Brandenburg (Berlin), III, a 514
—— -house (Architecture), II, b 408
—— of entrance (Gaur), X, b 103
Gate of Honor (Durer), VII, a 482
—— of the Lions, Mycenæ (Architecture), II, a 353
—— of Santa Maria (Burgos), IV, a 478
Gates (Athens), III, b 5; (Constantinople), VI, b 270; (Ghazni), X, a b 501, b 502; (Jerusalem), XIII, *b* 650, a 651; (London), XIV, a 834, a 850, a *b* 851, *a* 852, *a* 853, *b* 854, a b 855, *a* 856, a 857, a 858, a 861; (Munich), XVII, a 30; (Rome), XX, a b 831, b 853–4; (York), XXIV, b 787
—— of Caius College (Cambridge), IV, b 646; dock (Harbors and Docks), XI, b 417, a 419, a 421; modern (Jerusalem), XIII, a 653; Moorish (Alhambra), I, a 503. See Iron Gate
Gates of Light (Kabbalah), XIII, b 822
GATES, Horatio, general, X, b 97–8; (United States), XXIII, b 789, *a* b 792; (Washington), XXIV, a 410
——, Joseph, journalist (Seaton), XXI, b 914
GATESHEAD, town, X, a 98
GATH, city, X, a 98
Gáthás or songs (Persia), XVIII, a b 666; (Zend-Avesta), XXIV, *a* b 814, b 815; (Zoroaster), *b* 859–60, *a* 860, *a* b 861, a b 862
Gatien, missionary (Tours), XXIII, b 522
Gâtinais, district (Loiret), XIV, a 818; (Honey), XII, a 140
Gâtine, district (Sevres), XXI, *b* 743
Gatling gun (Fortification), IX, b 410–11; (Gunmaking) (Ill.), XI, b 253 4; (Patents), XVIII, a 830
Gat Rand, range (Transvaal), XXIII, a 550
Gatschet, Albert Samuel, ethnologist (Indians), XII, a 867, a 868, a 870; (Pueblo Indians), XX, *a* 890
Gatta, Bartolomeo della, painter (Schools of Painting), XXI, b 462
Gatterer, John Christoph, historian (Genealogy), X, a 129 note, *a* 130
GATTY, Mrs. Alfred, novelist, X, a b 98
Gau, district (England), VIII, a b 247; (Germany), X, b 425, a 428; (Holland) XII, *a* 73; (Saxony), XXI, a 367
Gaucho, or Argentine peasant, II, b 434; (Maté), XV, b 634
Gauda, region (Gaur), X, b 101
Gaudalhorce, river (Malaga), XV, a 318
GAUDEN, John, bishop, X, b 98–9; (Worcester), XXIV, a 702
GAUDICHAUD - BEAUPRÉ, Charles, botanist, X, a 99
Gaudin, Marc Antoine Augustin, chemist (Photography), XVIII, b 838, b 840
Gaudus, island. See Gozo
Gauffré work (Bookbinding), IV, a 39
GAUERMANN, Friedrich, painter, X, a 99
——, Jacob, painter, X, a 99
Gaugain, J. M., physicist (Electricity), VIII, a b 35, a 57, b 89, a 93; (Electrometer), a 111
Gaugamela, battle of, 331 B.C. (Alexander the Great), I, b 426–7; (Macedonian Empire), XV, b 141; (Persia), XVIII, a b 593
GAUGE, instrument (Ill.), X, b 99–100; (Machine Tools), XV, b 158; (Tides), XXIII, a 390, b 394–5; pressure- (Steam-Engine) (Ill.), XXII, a 519; wind- (Anemometer), II, b 23–4; Wire, XXIV, a b 648. See Gauging
—— of Railway, XX, a b 250; (Spain), XXII, a 318
Gauged-arches (Building) (Plate XX), IV, b 415–6
Gauge plate (Mint) (Ill.), XVI, b 510
—— stuff for plastering (Building), IV, a 452
Gauging casks (Brewing), IV, a b 239; (Mensuration), XVI, b 32–3; streams (Hydromechanics), XII, b 537–9; water (Hydromechanics), XII, a 499–503
GAUHÁTI, town, X, a 100; (Kámrúp,) XIII, b 843
GAUL, country, X, a 100–1; (France), IX, b 465–6; (Julian), XIII, b 778; (Numismatics), XVII, *a* *b* 651–2; (Paris), XVIII, b 292; (Wines), XXIV, a 636; conquest of (Cæsar), IV, a 565–6; language of (Celtic Literature), V, b 259–60, b 261, b 283; tyrants in (Rome), XX, b 794
——, mediæval (Libraries), XIV, a 512
Gaulonitis, district (Bashan), III, a 354
Gauls, people (Brennus), IV, a b 230; (Brewing), a 236; (Britannia), a 318; (Byzantium), a 547; (Druidism), VII, a b 412, b 413; (France), IX, b 465–6; (Galatia), X, b 18; (Helmet), XI, a 569; (Hampshire), b 385; (Illyria), XII, a 748; (Italy), XIII, b 453, a 455; (Livy), XIV, a 738; (Pergamum), XVIII, a b 538; (Phrygia), a 866; (Rome), XX, b 758; (Troad), XXIII, b 616; (Wallon), XXIV, a 353; territory of (Celtic Literature), V, a b 258
——, *Histories of* (Richerus), XX, b 559; (Thierry), XXIII, a 323
Gault clay (Geology), X, a b 317; cretaceous system (Geology), X, b 318
Gaultier de Chatillon, poet (Romance), XX, b 656, note
Gaumata. See Smerdis, pseudo
Gaunilo, monk (Anselm), II, b 82
Gaunt, John of, duke. See LANCASTER
GAUR, city, (Plan), X, b 101–b 104
  architectural ruins, b 103–4
  history, b 101–2
  literature, a b 103
  neighboring sites, a 104
  topography, b 102–3

—— or bison, animal (India), XII, b 780–1
Gaura, plants (Horticulture), XII, b 258
Gaurian Languages, Essays on (Hindūstanī), XI, b 750, note, a 751, a 752 note
Gaurio, town (Andros), II, a 23
Gauripur, town (Goálpára), X, *a* 631
Gaur Rahman, chief (Gilgit), X, *b* 534
Gaurus, mountain (Campania), IV, a 665
GAUSS, Carl Friedrich, mathematician, X, b 104–5; (Algebra), I, a *b* 455, a 456; (Capillary Action), V, b 51, *a* b 52; (Electricity), VIII, b 15, b 22–3, a 24, a 27, b 61; (Equation), b 449–50; (Euclid), a 576; (Geodesy), X, a 151; (Geometry), a 340; (Infinitesimal Calculus), XIII, b 51, a 53, a 72, a b 75; (Knot), XIV, a 129; (Magnetism), XV, b 223, b 229, *a* 230, a 232, b 235, b 236, *a* *b* 237, notes, *b* 238, *a* b 239, note, *b* 240, *b* 242, *a* 243, *a* 244, *b* 251; (Numbers), XVII, b 630, b 632, a 634; (Parallels), XVIII, a b 259; (Phrenology), b 860; (Tables), XXIII, b 11, a 13, a 14, note, a b 17, a 18; (Telegraph), b 120; (Trigonometry), a 602; (Variable), XXIV, *b* 76
GAUSSEN, François Samuel Robert Louis, theologian, X, a b 105
Gaussian Logarithms, XIV, a b 784; (Tables), XXIII, a b 17
Gauss's projection (Geography), X, a b 185; theory (Magnetism), XV, b 235–6
Gautama, Buddha (Brahmanism), IV, a 189; (Buddhism), a b 381–7, b 388, a 389, a 390, b 391–2; (Gaya), X, b 108, a 109; (India), XII, a 822 note, b 823, a 828; (Lamaism), XIV, a 227–8; (Sanskrit), XXI, a 294
Gautama-dharma-sástra (Sanskrit), XXI, b 291, note
Gautherot, physicists (Electricity), VIII, b 13–14
Gautier of Metz, encyclopædist (France), IX, a 567
——, Émile Théodor Léon, critic (Homer), XII, *b* 124
GAUTIER, Théophile, journalist, X, b 105–6; (France), IX, a 594, a 595, a 596, b 597
Gautier's analysis of chlorophyll (Physiology), XIX, a 60
Gauvain (Holland), XII, a 93
GAUZE, fabric, X, b 106
Gavard pantagraph (Surveying), XXII, b 758
GAVARNI, caricaturist, X, b 106–7; (Caricature), V, a 93
Gavarnie, valley (Pyrenees), XX, a 131, *a* b 133
Gavdo isle (Crete), VI, a 504
Gave de Pau, river, XVIII, b 424, a 425; (France), IX, b 457; (Pyrenees), XX, *b* 132, *a* b 133
GAVELKIND, land-tenure, X, a 107; (Ireland), XIII, a b 225, a 272, a 275; (Primogeniture), XIX, *b* 754–5
Gaves, torrents (Pyrenees), XX, a 131
Gaveston, Piers, earl of Cornwall (Edward II., Eng.), VII, b 592, *a* 593; (England), VIII, *a* 282
Gaviæ, group of birds (Ornithology), XVIII, a 49, a b 50
Gavial, Indian Crocodile, VI, b 524–5
Gawain of Round Table (Romance), XX, *a* 663, *a* 665
Gay, Delphine. See GIRARDIN, Émile de
GAY, John, poet, X, b 107–8; (Drama), VII, a 378; (Pastoral), XVIII, b 352; (Philips), b 768
GAY, Marie Françoise Sophie, novelist, X, a b 108
Gaya Bay (Sabah), XXI, *a* b 132
GAYÁ, district, X, b 108–9; town, a 109
Gayáwáls, priests (Gayá), X, b 108
GAY-LUSSAC, Joseph Louis, chemist, X, a 109–12
  applied science, a b 111
  bibliography, b 111–12
  chemical researches, a 110–11
  estimate of, b 111
  physics and meteorology, a b 109–10
  youth, a 109

—— (Aëronautics), I, b 175–6; (Arago), II, a 264, a 266; (Assaying), b 636; (Atom), III, a b 36; (Barometer), b 329, b 332; (Chemistry), V, *a* b 403, a 404, b 405, b 406, a 475; (Chlorine), a 589; (Dalton), VI, b 691, b 692; (Evaporation), VIII, b 640; (Fermentation), IX, b 81, a b 82; (Gunpowder), XI, b 287 a b 288; (Liebig), XIV, *b* 569; (Mitscherlich),

Gay-Lussac, *continued* XVI, a b 555; (Molecule), b 644 note; (Pelouze), XVIII, a 491; (Prussic Acid), XX, b 26; (Sulphur), XXII, a 670; his alcoholometer (Hydrometer), XII, a 572; his law (Acoustics), I, a 97; (Hydromechanics), XII, b 455
Gaylussite (Mineralogy), XVI, b 415; (Sodium), XXII, a 253
Gaz, measure (Weights and Measures), XXIV, a b 518
GAZA or Ghazzeh, city, X, a 112; (Alexander the Great), I, b 426; (Joel), XIII, a 716; (Philistines), XVIII, a b 769, a b 770, note, b 771; battles of, 642 (Egypt), VII, a 655; 1244 (Templars), XXIII, a 178
GAZA or Gazis, Theodorus, classicist, X, a b 112; (Greece), XI, *a* 133
Gazaca, city (Ghazni), X, b 501
Gaz-angubín, cakes (Manna), XV, b 500, note
Gazelle (Antelope) (Ill.), II, a 90; (Arabia), a 212; animal (Egypt), VII, a 617
Gazelle's Head, sign (Zodiac), XXIV, a 833
GAZETTE, *London*, newspaper, X, b 112; (Newspapers), XVII, a b 425
——, *New Hampshire*, newspaper (Portsmouth), XIX, b 550
—— *de France* (Newspapers), XVII, a 422, a 423, b 434–5
—— *Littéraire* (Periodicals), XVIII, b 550
Gazimur river and mountains (Transbaikalia), XXIII, *a* b 542
Gazinan, Blanche (Stigmatization), XXII, b 577
Gazir-Gáh, park (Herat), XI, b 638
Gazis, Theodorus. See GAZA, Theodorus
Gazul, Clara, pseudonym (Mérimée), XVI, b 41–2
Ge, races (Indians), XII, b 869
Gealekaland, district (Kaffraria), XIII, a b 826
Gealekas, tribe (Kaffraria), XIII, *b* 826, b 827, a 828
Gean tree (Cherry), V, *a* 509
Gearing (Mechanics), XV, a 773
Gearksutite (Mineralogy), XVI, b 399
Geátas, race (Goths), X, a b 753
Gebal, town. See JEBEIL
Gebanites, people (Yemen), XXIV, *b* 777, a 778
Gebauer, Jan, philologist (Slavs), XXII, *b* 160, a 163
Gebel-esh Sheykh Sa'eed (Egypt), VII, b 672
Gebel et-Teyr, mountain (Egypt), VII, a 672
Gebel Feir, burlesque (Tudor), XXIII, a 948
—— Ghâreb, mountain (Egypt), VII, a 611
—— Ishkel, lake (Bizerta), III, a 690
GEBER, chemist, X, a 112–3; (Alchemy), I, a 408, a 409, a *b* 410; (Chemistry), V, a 398
—— al-Batani. See AL-BATTANI
—— b. Aflah, astronomer (Arabia), II, *b* 231, a 232; (Trigonometry), XXIII, a 597
Gebir, poem (Landor), XIV, a 279
Gebirol, Salomon ben, philosopher (Avicebron), III, b 132; (Scholasticism), XXI, a 444, b 447
GEBWEILER, town, X, b 113
Gecarcinus, genus (Crustacea) (Ill.), VI, a 563, a *b* 567, a b 568, b 578, a 579
Gecinus, genus (Birds), III, *b* 621; (Woodpecker), XXIV, a 686
GECKO, lizard (Ill.), X, b 113–4; (Lizard), XIV, *b* 738, *a* 739
Geckotidæ, family (Lizard), XIV, b 740, b 743-44
GED, William, inventor, X, a 114
GEDDES, Alexander, theologian, X, a b 114
——, James, engineer (Wright), XXIV, *b* 921
——, Jenny, confessor (Scotland), XXI, b 533
——, Patrick, biologist (Parasitism), XVIII, b 273; (Statistics), XXII, a 480
Gedeonoff, historian (Russia), XXI, a 96, b 116
Gedicht von der Armuth (Gottfried), X, a 759
Gedrosia, region (Afghânistân), I, a 204; (Persia), XVIII, a 597
Gedundub, lama (Tibet), XXIII, a 368
Gedymin, king (Lithuanians), XIV, a b 708
GEELONG, town, X, b 114–5
Geelvink Bay (New Guinea), XVII, a b 396, *b* 399
Geer, Karl de, naturalist (Ant), II, b 84
Geese. See GOOSE
——, Egyptian fresco of (Ornithology), XVIII, b 6, note
Geest or Geestland, district (Hamburg), XI, *b* 360 note; (Oldenburg), XVII, b 778
Geest, Cornelius van der, portrait (Schools of Painting), XXI, b 458, b 465
GEESTEMUNDE, town, X, a 115
Geestland. See Geest
Geez language (Abyssinia), I, a 64; (Ethiopia), VIII, b 538; (Semitic Languages), XXI, a 673, b 686–7, a 688
Geezeh, El-, town (Egypt), VII, *b* 668. See Gizeh
GEFLE, town, X, a 115; (Sweden), XXII, a 780
Gegenbaur, Carl (Amphibia), I, a 658, a 666 note, b 668, a 668*; (Anatomy), b. 717, b 750, b 751; (Arthropoda), II, b 566, a 568; (Hydrozoa), XII, *a* 580, a 588, b 589, *a* 594, b 595, b 597; (Penguin), XVIII, a 502 note; (Physiology), XIX, *b* 35, b 50
Gegenschein, light (Zodiacal Light), XXIV, b 835
Geheimes Kabinet or privy council (Saxony), XXI, b 370, a 371
Gehenna, hell (Eschatology), VIII, b 474, notes, a 475 notes
Gehlenite (Mineralogy), XVI, b 429
Geib, John, musical instrument maker (Pianoforte), XIX, *b* 82
Geibel, Emmanuel, poet (Germany), X, a 488
Geige, instrument (Violin), XXIV, a 261, b 262, a 263
GEIGER, Abraham, rabbi, X, a b 115
GEIJER, Erik Gustaf, historian, X, b 115-6; (Sweden), XXII, *b* 795, *a* 796
Gei Kharas, mountains (Namaqualand), XVII, a 175
Geikie, Archibald, geologist (Geology), X, a 305; (Gibraltar), X, b 520
GEIKIE, Walter, painter, X, a 116
GEILER or Geyler, von Kaisersberg, Johann, divine, X, a b 116
Geilfine, family (Clan), V, b 698–9
Geinitz, Johann Bruno, geologist (Geology), X, b 310
Geirfuglasker island (Gare-Fowl), X, b 71
Geisa II., king (Transylvania), XXIII, b 555
Geisler, Frederick, jurist (Bibliography), III, *a* 569
Geisshäusler, Oswald, reformer. See Myconius
GEISSLER, Heinrich, physicist, X, b 116; (Mercurial Air-Pump), XVI, *a* 35
Geissler's nitrogen Thermometer, XXIII, b 310; tubes (Electricity), VIII, b 14, b 60; (Plücker), XIX, b 241
Geist der Hebräischen Poesie (Herder), XI, a b 651
—— *der Zeit* (Arndt), II, b 543
Geitler, philologist (Slavs), XXII, b 158, a 163
Gekrösstein (Mineralogy), XVI, a 417
GELA, city, X, b 116–7; (Æschylus), I, b 188; (Greece), XI, b 85, a 94; (Numismatics), XVII, b 655; (Syracuse), XXII, b 854
Gelalæan Era (Chronology), V, b 622-3
Gelasimus, genus (Crustacea) (Ill.), VI, a 563, b 567, b 578, a b 579, a 580
GELASIUS I., pope, X, a 117; (Canon), V, *b* 12; (Ember), VIII, a 147; (Hymns), XII, b 616; (Popedom), XIX, a 507, b 523; *Sacramentarium* of (Liturgy), XIV, b 714
GELASIUS II., pope, X, a 117
——, archbishop (Ireland), XIII, a 265
GELATIN, X, a 117–20
  food value, a 118–19
  industrial relations, a 119-20
  sources and properties of, a 117–18
—— (Adulteration), I, a 156; (Cookery), VI, a 296; (Chemistry), V, b 502–3; (Histology), XII, *b* 8, b 9; (Ivory), XIII, a 530, b 532, a 534; (Paper), XVIII, a b 226, b 228; (Sharks), XXI, b 815
—— emulsion process (Photography), XVIII, b 841–3
Gelatinigera, order (Protozoa), XIX, a 883
Gelatino-citro-chloride emulsion (Photography), XVIII, a 844
Gelbeisenerz, ore (Mineralogy), XVI, a 419
Geldenhaurius, Gerardus, poet (Typography), XXIII, a 724
Geldern, town (Guelders), XI, a 217
Gelding, origin of (Horse), XII, b 185
Gele, van, explorer (Zaire), XXIV, b 802
Gelée, Jean, carver (Claude), V, b 711
Gelehrte Anzeigen (Heyne), XI, *a* 702
Gelelé, king (Dahomey), VI, b 675–6
Gelenius, Gregory and Sigismund, lexicographers (Slavs), XXII, a 161
Gelimer, king (Vandals), XXIV, *b* 65, *a* 66
GELL, Sir William, antiquarian, X, b 120; (Ithaca), XIII, a 527
GELLERT, Christian Fürchtegott, author, X, b 120; (Germany), a 477, a 478; (Goethe), a b 643, a 644; (Hainichen), XI, b 336; (Hymns), XII, b 622-3
Gellibrand, Henry, mathematician (Navigation), XVII, a 263
Gellius, proconsul (Peripatetics), XVIII, b 557
GELLIUS, Aulus, author, X, b 120–1; (Aëronautics), I, b 167; (Latin Language), XIV, a 339; (Roman Law), XX, b 697, a 698, a 700, a b 702, a 703, a 714; (Thucydides), XXIII, b 343
GELON, king, X, a 121; (Carthage), V, b 140; (Gela), X, b 116-7; (Greece), XI, *a* 90; (Numismatics), XVII, b 654; (Sicily), XXII, *b* 21; (Syracuse), a 853
Geloni, people (Scythia), XXI, a 602
Gelotiana Domus (Rome), XX, b 843
Gelseminic acid (Gelsemium), X, a 121
GELSEMIUM, drug, X, a b 121; (Jasmine) (Ill.), XIII, a b 606
Gemalee, El Guyoosh Bedr-ed-Deen, El-, vizir (Egypt), VII, *a* b 652
Gemara, commentaries (Israel), XIII, a 439; (Mishnah), XVI, a b 526, note, a 528, note; (Talmud), XXIII, b 40
Gemarke, town (Barmen), III, b 325
Gematria (Hermeneutics), XI, a 665; (Numerals), XVII, a 641
Gembloux or Gemblours, battle of, 1578 (Farnese, Alexander), IX, a 34; (Holland), XII, b 79
"Gemeines Recht" (Canon Law), V, b 20
Gemel or Gimmel Rings, XX, a 576
Gemen, Godfrey de, printer (Sea-Laws), XXI, *a* b 612
Gemeticum, abbey. See Jumièges
GEMINIANI, Francesco, violinist, X, b 121

Gemini, sign (Zodiac), XXIV, b 829, a 831, a 833, a 834
Gemistus or Pletho, Georgius, philosopher, X, b 121–2; (Ficino, M.), IX, b 121; (Gennadius), X, *a* 138; (Greece), XI, a b 133
Gemlik, gulf and town (Bithynia), III, b 688; (Broussa), IV, b 344
Gemma Frisius, author (Navigation), XVII, a 258
Gemmæ of plants (Fungus), IX, a 728; (Muscineæ), XVII, b 74–5, a 80; (Reproduction), XX, a 436
Gemmation, reproduction by (Actinozoa), I, b 120, a 121; (Biology), III, b 593; (Botany), IV, a 106; (Corals), VI, a 329, b 330–1, a b 338; (Foraminifera), IX, b 336; (Morphology), XVI, a 867, a b 869; (Sponges), XXII, b 440; (Tunicata), XXIII, b 647, a 655, b 656, a 657. See Reproduction
Gemmian of Clonard, poet (Scotland), XXI, b 496
Gemot, town-meeting (Borough), IV, b 55–6
Gemp or castle (Gondar), X, *b* 685
Gems (Plate I), X, a 122–6
  ancient workmanship, b 122, b 125
  Assyrian, b 122–3
  Egyptian, b 122, a 123
  Greece and Cyprus, a 122, a 124–5
  high priest's breastplate (Ill.), b 123–4
  literature, b 126
  modern workmanship, a 126
  Phœnician, a b 123
  plate explanation, a 126
  Roman, a 125–6

—— (Amethyst), I, a 646; (Beryl), III, a 530; (Brazil), IV, b 201; (Carbuncle), V, b 79; (Ceylon), b 314; (Diamond) (Ill.), VII, b 142–4; (Emerald), VIII, a b 156; (Etruria), b 562–3; (Garnet), X, a 74; (India), XII, a b 805; (Kistna), XIV, b 104; (Mineralogy), XVI, b 394, b 393, a b 401, a b 402, b 405–6, a 426; (Opal), XVII, a b 799; (Pearl), XVIII, b 457, b 458; (Ring), XX, a 575; (Ruby), XXI, b 53–4; (Siam), b 890; (Topaz), XXIII, b 474–5; (Turquoise), a b 712; (Ural Mountains), XXIV, a 10
——, artificial (Glass), X, b 591, *b* 593; (Murano), XVII, b 54; (Ruby), XXI, b 54
——, cutting of (Lapidary), XIV, b 298–300; (Microscope), XVI, a 269
——, engraving of (Archæology) (Ill.), II, b 309, a 313, a 317; (Babylonia), III, a 164, a 165; (Cameo), IV, a b 653, a 654; (Numismatics), XVII, b 644; (Tassie), XXIII, b 81
Gemsbok, antelope, X, b 126–7
Gem-type (Typography), XXIII, b 743
Genabum (Orleans), XVII, a 875
Genauni, people (Rhaetia), XX, a 519
Gendarmerie, troops, X, a b 127
Gender (Grammar), XI, b 36–7, b 38, a 39; (China), V, a 571; (Hindūstānī), XI, b 751; (Hottentots), XII, a 326; (China), V, a 571; (Mythology), XVII, b 145–6, b 147–8; (Philology), XVIII, a 792, b 794
Gendrin, Augustin Nicolas, physician (Pathology), XVIII, b 409
Genealogia Deorum, De (Italy), XIII, b 514
Genealogical classification of animal kingdom (Zoology), XXIV, b 850; of vertebrata, b 195, b 197–8, b 203
—— classification of Aryan languages (Philology), XVIII, a 799–800; of Religions, XX, b 371–7
Genealogical Dictionary, New England (Savage), XXI, b 906
Genealogical studies, Arabic (Tabarí), XXIII, a b 6
Genealogies (Amalekites), I, a 573; (Chronicles), V, a b 614, b 615, a 616; (Gospels), X, b 714; (Ireland), XIII, a b 248; (Maccabees), XV, a 132; antediluvian (Lamech), XIV, b 238; Bedouin (Arabia), II, b 215; Greek (Dorians), VII, a 318
Genealogy, X, b 127–30
  biblical, b 127–8
  British, a 130
  classical, b 128–9
  genealogists, b 129–30
  modern, a 129
  United States, b 130

—— of 'Abbásids (Mohammedanism), XVI, a–b 611; of Omayyads (Mohammedanism), XVI, a b 600
—— of the House of York, XXIV, a b 791
Genelli, Giovanni Buonaventura, painter, X, b 130
——, Giuseppe, embroiderer, X, b 130
——, James, painter, X, b 130
Genera Plantarum (Linnæus), XIV, b 679
General Assemblies, Irish (Presbyterianism), XIX, b 712; in the United States (Presbyterianism), a 719, a b 720
—— assembly (Connecticut), VI, b 257
—— average, marine (Average), III, a 127; (Insurance), XIII, b 194
—— Baptists, New Connection, III, *b* 306, *a* 307
—— Chapters (Monachism), XVI, a 735, a 737
—— congregations (Trent, Council of), XXIII, a 580
—— Council in France (Presbyterianism), XIX, b 714, a 715
—— Court-Martial, VI, *a* 460, *a* 461
"—— Privilege," charter (Spain), XXII, a 337
—— Register House (Edinburgh), VII, b 575
—— Theological Seminary, New York (Turner), XXIII, a 949
—— warrants (Damages), VI, a 695
Generalife (Alhambra), I, a 504
Generalization (Psychology), XX, *a* 82
Generals, Athenian (Pericles), XVIII, b 544, note
Generation, process, X, b 130; (Harvey), XI, b 448, b 451–2, (Oken), XVII, b 771, b 773; alternation of (Parasitism), XVIII, b 262
—— eternal (Arius), II, b 471
—— spontaneous (Abiogenesis), I, a b 51; (Parasitism), XVIII, a b 262
Generative system (Arachnida), II, a b 239, a 241, b 243, a 244, a 247, b 248, b 249, b 250, b 254, a 256, a 257, b 258–9; (Dragon-Fly), VII, a b 334; (Echinodermata), b 545–6; (Hydrozoa), XII, b 581, a 583, b 586, a b 587, *b* 588, note, b 589, *a b* 590, b 592, a 593, a 594, a *b* 596, *b* 597, a 599; (Ichthyology), XII, a 698–700; (Mammalia), XV, a 422; (Mollusca) (Ill.), XVI, a 683, b 685, a b 707; (Myriapoda), XVII, a *b* 125, *b* 126; (Reproduction), XX, b 419, a *b* 420, a b 421, a 422; (Reptiles) (Ill.), a 476–7; (Tape-Worms), XXIII, b 56; (Trematoda), b 570–1; (Worms), XXIV, b 715–8
Generic ideas (Psychology), XX, b 66–7, a b 82
Genesee river (New York), XVII, a 463; falls (Rochester), XX, b 629; portage bridge (Bridges) (Ill.), IV, b 295
Genesis (Adam), I, b 124–5 a 126, b 127; (Deluge), VII, b 49; (Eden), *b* 565; (Genealogy), X, b 127–8; (Jacob), XIII, b 545–6; (Judah), b 770; (Melchizedek), XV, a 848; (Noah), XVII, b 536–7; (Philo), XVIII, a b 776; (Yemen), XXIV, *b* 775; classification of nations in (Semitic Languages), XXI, a 673, *a* 675; opening chapters of (Theism), XXIII, a 255; partial analysis of (Pentateuch), XVIII, b 517–8; structure of (Abraham), I, *b* 54, *b* 55, a 56
——, *Little* (Apocalyptic Literature), II, a b 155
Genesius, Joseph, historian (Byzantine Historians), IV, a 545
"Genesta," cutter (Yachting), XXIV, *a* 760
Genet, mammal (Ill.), X, b 130–1; (Mammalia), XV, b 442
Genet or Genest, Edmond Charles, French minister (Jefferson), XIII, b 626; (United States), XXIII, b 803
Geneva, New York, town, X, a b 136
Geneva, Switzerland (Plan), X, a 131–5
  buildings, b 131–5
Geneva, *continued*
  canton, a 131
  city (Plan), a 131–b 135
  constitutional history, b 134–5
  history, b 133–5
  political features, a b 135
  Reformation, a b 134

—— canton (Switzerland), XXII, 816, b 817, a 818, *a* 819, a 825 note, a 832, *a* b 833
——, city (Switzerland), XXII, *b* 815, b 816, *b* 829, *a* 830, b 831, b 834; (Dumont, P. E. L.), VII, a *b* 457–8; (Jura), XIII, a 792; (Meteorology), XVI, a 125, b 147; (Numismatics), XVII, a 675; (Observatory), a 734; Calvin in (Presbyterianism), XIX, b 697–8; Reformation in (Calvin), IV, b 634–5, b 636; theatrical performances at (Voltaire), XXIV, b 310, a 311
Geneva Convention, 1864, X, b 136; (Ambulance), I, a 585; (International Law), XIII, a 201, a 203
—— convention, 1872 (Arbitration), II, a 275
Geneva, Lake of (Sketch), X, b 135–6; (Geŏlogy), a 246; (Lake), XIV, a 218, a 219, *a b* 221, a 222; (Lake Dwellings), *a* 224; (Savoie), XXI, *a* 348; (Switzerland), XXII, *a* 815
—— Bible (Coverdale), VI, a 471; (English Bible), VIII, a b 347
—— stop mechanism (Watch), XXIV, b 415
Genevan psalmody (Hymns), XII, a 624
Geneviève or Genovefa, St., church of (Paris), XVIII, b 281
Genevieve of Brabant (Romance), XX, a 676
Genevois, counts of (Geneva), X, *b* 133
Genf, town. See Geneva
Genga, Annibale della. See Leo XII., Pope
——, Bartolommeo, architect, X, a 137
——, Bernardin (Anatomy), I, b 71
Genga, Girolamo, painter, X, a 137
Gengis-khan. See Jenghiz Khan
Genii, spirits (Demonology), VII, a 56; (Manes), XV, b 485; (Penates), XVIII, a 500
Genil, river (Granada), XI, b 40
Genista caves (Gibraltar), X, *a* b 521
Genita Mana, goddess (Manes), XV, b 485
Genital organs. See Generative System
Genius, spirit. See Genii
Genius (Fine Arts), IX, a b 172; nature of (Shakespeare), XXI, a b 784; theory of (Schopenhauer), b 472
Genius of Christianity (Chateaubriand), V, *b* 378, b 379
Genius of Universal Emancipation, newspaper (Garrison), X, *a* 77

GENLIS, Stephanie Félicité Ducrest de Saint Aubin, comtesse de, novelist, X, a b 137
Genlisea (Insectivorous Plants), XIII, *b* 140, b 144
GENNADIUS, Georgius Scholarius, patriarch, X, b 137–8; (Greece), XI, b 133
Gennargentu, Monte (Sardinia), XXI, *b* 322, a 323;
Gennaro, monte (Italy), XIII, a 448
——, San. See JANUARIUS
Gennes, de navigator (Weaving), XXIV, *b* 492
Gennesaret, lake (Galilee, Sea of), X, a 27–8; plain of (Galilee, Sea of), *b* 27, a 28; (Jesus Christ), XIII, b 674
GENOA (Map), X, a 138–42
  buildings, b 138–9
  commercial and political features, b 140–1
  history, b 141–2
  historians, a 142
  institutions, a b 140
  topography, a b 138
—— (Columbus), VI, a 154; (Corsica), b 389; (Doge), VII, a 288; (Doria), a b 317; (Fiesco, G. L.), IX, b 129; (Filter), a 149; (Foundling Hospitals), a 426; (Fresco), a 681; (Italy), XIII, b 459, a 467, b 480–1, b 485, a 486, a 490, a 493, a b 495, a 499; (Libraries), XIV, a 530, a 550; (Napoleon I.) XVII, a 199, a 200, a 202; (Numismatics), a 675; chronicle of (Voragine), XXIV, b 317; siege of, 1800 (Soult), XXII, a 293; wars with Pisa, XIX, a *b* 128, *a b* 129; struggles with Venice, XXIV, b 155–6
Genoese castle (Bastia), III, a 370
—— seamen (Admiral), I, a 142; traders (Constantinople), VI, *b* 273; (Mongols), XVI, a b 773, b 774, a 775
Genouillère, part of parapet (Fortification), IX, b 381
Genouilly, Rigault de, admiral (Cochin China), VI, a 89
GENOVA, Luchetta da, painter, X, a b 142. See CANGIAGI, Luigi
GENOVESI, Antonio, political economist, X, b 142–3; (Political Economy), XIX, a 375, a 376
Genre painting (Goya Y Lucientes), XI, a 21; (Leslie, C. R.), XIV, b 476; (Ostade), XVIII, b 61, a b 62, a b 63
—— work (Terra-Cotta), XXIII, a 208, note
Gens, clan (Family), IX, a b 20; (Patron and Client), XVIII, b 423; in jus civile (Roman Law), XX, a b 706, b 709; in regal period (Roman Law), *a* b 687, b 688, a b 690, a b 691, b 695; in republic (Rome), a 753, a 755
Gens du Monde (Gavarni), X, b 106
GENSERIC or Gaiseric, Vandal king, X, a 143; (Leo I.), XIV, a 449; (Rome), XX, b 798, *a* 799; (Sicily), XXII, a 28; (Valentinian III.), XXIV, *a* 43; (Vandals), *a b* 65
Gensfleisch. See Gutenberg, Johannes
Gensonne, Armand, advocate (Vergniaud), XXIV, a b 179
Gentes, Roman. See Gens
Genthius of Illyria, king (Rome), XX, a 772, a 773 note
GENTIAN, plant, X, a 143–4; (Botany), IV, a 85; (Horticulture), XII, b 258; root (Liqueurs), XIV, b 693
Gentianella (Botany) (Ill.), IV, b 111, a 112, b 113
Gentianic acid (Gentian), X, a 144
Gentile Christians (Ephesians, Epistle to the), VIII, *b* 409–10
Gentiles, mission to (Paul), XVIII, a b 427, b 428
GENTILESCHI, Artemisia and Orazio de', painters, X, a b 144
GENTILI, Alberico, jurist, X, b 144–5; (Ethics), VIII, a 525
——, Matteo, physician, X, *a* 144
Gentilicius, client (Roman Law), XX, *a* 687
GENTILLY, town, X, a 145
Gentiloquium Theologicum (Scholasticism), XXI, b 448
Gentiopicrin, drug (Gentian), X, b 143–4
Gentleman (Nobility), XVII, b 538, b 543; (Precedence), XIX, a b 684, notes
Gentleman's Magazine (Cave), V, a 236; (Franklin, B.), IX, a 627, a 629; (Johnson, S.), XIII, a *b* 732; (Nichols), XVII, a 500; (Periodicals), XVIII, b 547; (Reporting), XX, a b 416
Gentle Shepherd (Drama), VII, a 378; (Pastoral), XVIII, b 352–3; (Ramsay), XX, *b* 278, *a* 279
Gentoo Code (Gunpowder), XI, a 283
Gentry, social class (Nobility), XVII, b 538, a b 543
GENTZ, Friedrich von, statesman, X, a 145–6; (Balance of Power), III, b 231–2, a 233; (Congress), VI, a 240
Genuates, tribe (Liguria), XIV, b 646
Genuflectentes (Catechumens), V, *b* 192
Genus in classification (Species), XXII, b 385–6
Geobiastes (Birds), III, a 659
Geocichla, genus (Thrush), XXIII, a 343
Geococcyx, genus (Cuckoo), VI, b 607
Geocolaptes, genus (Woodpecker), XXIV, a 687
Geocronite (Mineralogy), XVI, a 412
Geodephaga, genus (Coleoptera) (Ill.), VI, a b 117
Geodes, in crystals (Mineralogy), XVI, a 385
Geodesic lines (Geodesy), X, b 151; (Surface), XXII, b 705–6; standard (Iridium), XIII, a 282
GEODESY (Ill.), X, a 146–54
  altitudes, b 153–4
  astronomical observations, b 148–50
GEODESY, *continued*
  base line (Ill.), b 146–7
  calculation of triangulation, a 150–2
  chain of triangles, b 150–1
  earth's surface, b 152–3
  figure of the earth, a b 154
  horizontal angles, b 147–8
  longitude, a 154
  spheroidal triangles, a 151–2
  zenith telescope, b 149–50
—— (Earth), VII, a 516–18, a 522–3; (Legendre), XIV, b 413, b 414; (Map), XV, *a* 529; (Measurement), *b* 665, a *b* 666
Geodetic formulæ, limits of (Surveying), XXII, b 736–7
—— surveys (Maupertuis), XV, b 642; (Struve), XXII, a 641
Geodia, genus (Sponges), XXII, b 430, a 431, a b 435, b 436, a 438, a 440
Geodinidæ, family (Sponges), XXII, b 429, b 435, *a* 436, b 438, a 440
Geoffrey of Anjou, count (Plantagenet), XIX, a 186; (William I., England), XXIV, b 606, *a* 607
—— of Auxerre, chronicler (Geoffrey of Monmouth), X, b 154
—— Fulcher, chronicler. See Fulcher
—— Malaterra, historian (Normans), XVII, b 560, note, a 561
GEOFFREY OF MONMOUTH, chronicler, X, b 154–5; (Ambrosius), I, a b 584; (Arthur), II, b 568; (Celtic Literature), V, a 274; (England), VIII, b 278; (English Literature), a 364; (Grail), XI, a 32; (Romance), XX, a b 658, a b 659, b 665; (Ursula, St.) XXIV, b 18
—— de Preuilly, count of Tours (Tournament), XXIII, b 520
Géoffroy de Brueil, chronicler (Romance), XX, b 666
——, Claude J., chemist (Soap), XXII, b 213
Geoffroy, Étienne François, physician (Ammoniac, Sal), I, a b 650; (Botany), IV, b 72; (Chemistry), V, b 399, a 401
——, Étienne Louis, naturalist (Vampire), XXIV, a 59
GEOFFROY SAINT-HILAIRE, Étienne, naturalist, X, b 155–6; (Morphology), XVI, a b 865, a 866; (Ornithology), XVIII, a 23, a b 27; (Variation and Selection), XXIV, a b 84, b 90
GEOFFROY SAINT HILAIRE, Isidore, naturalist, X, b 156–7; (Ornithology), XVIII, a 17, a b 28; (Owl), a 92
Geogale, genus (Mammalia), XV, a b 408
GEOGNOSY (Geology), X, b 190, b 196–214
GEOGRAPHICAL DISTRIBUTION, of animals, VII, b 232–48; of plants, b 248–52
Geographical Distribution of Animals, A. R. Wallace (Ornithology), XVIII, b 44
—— distribution of Auroras, III, a 85
—— distribution of Birds, III, a 639–62
—— movement of population (United States), XXIII, b 872–4
Geographical Societies, XXII b 240; (Paris), XVIII, a 287; Royal (Africa), I, b 220, b 221, a 223; (Rennell), XX, a 412, note
GEOGRAPHY (Plate II) (Ill.), X, a 157–89
  general divisions, a 157
  MATHEMATICAL (Ill.), a 176–88
    conical development (Ill.), b 183–5
    definitions (Ill.), a 176–8
    maps, construction of (Ill.), b 178–88
    ordnance survey maps and contours (Ill.), a 188
    polyconic development (Ill.), a 187–8
    projection, Gauss's (Ill.), a b 185
    projection, Mercator's (Ill.), a 186–7
    projection, perspective (Ill.), a 180–1
    projection, stereographic (Ill.), a 181–3
  PHYSICAL GEOGRAPHY, a 188–9
  PROGRESS OF DISCOVERY, a 157–76
    African explorations, b 163, b 168, a 171, a b 173
    American explorations, b 161–4, b 165, a 167, a 169, a 170, b 171, a 174
    Arabian explorations, a 159, a 160
    Asiatic explorations, a 166, a 168, a 173
    Australian explorations, a 170, a 174
    classical knowledge, b 157–9
    definitions, a 157
    Dutch explorations, a 165, b 166–7, a 168, a 175
    East Indian discoveries, b 163, a b 166, a 171
    English explorations, b 163–5, a 166, a 168, a 169–70, a 171–5
    French explorations, a 164, a 167, a b 169
    instruments of navigation, b 160, b 162, a b 167
    Italian travellers, b 159–60
    Mohammedan travellers, a 159, a 160
    Middle Ages, a 159–61
    navigation, a b 167

GEOGRAPHY, *continued*

- PROGRESS OF DISCOVERY
  - Northwest passage, b 164, a 165
  - Pacific explorations, a 163, a 165, b 166, a b 169, b 172, a 174
  - Phœnicians, a b 157
  - polar voyages, a 170, b 171, a b 172, a 174-5
  - Portuguese explorations, a 161, a 162, b 163, a 166, b 168
  - Russian explorations, b 170, b 172, a 173
  - Scandinavian explorations, b 159, a b 175
  - sea, physical geography of, b 175
  - Spanish discoveries, b 161, b 162-3, b 165
  - surveys and maps, a b 167, a 169, b 170, a 171, a 174

Geography (Abulfeda), I, a 61; (Moses of Chorene), XVI, a 890; (Strabo), XXII, b 610-12

Geography (Büsching), IV, a 512; (China), V, a b 576; (D'Anville), VI, b 722; (Edrisi), VII, b 581; (Johnston, A. K.), XIII, b 740-1; (Macedonian Empire), XV, b 142; (Malte-Brun), a 346; (Map), b 523; (Mela), b 841-2; (Mercator), XVI, b 34; (Numismatics), XVII, a 644; (Polo), XIX, b 422-3; (Ptolemy), XX, b 96-101; (Rennell), a b 410, a b 411, a b 412, a 413; (Ritter), b 585; (Varenius), XXIV, a b 76

——, Biblical (Robinson), XX, a b 623. See JERUSALEM, PALESTINE, etc.

——, Moslem (Mohammedanism), XVI, a-b 618; (Yemen), XXIV, a 775

Geoid surface (Surveying), XXII, b 744

Geok-tepe, town (Transcaspian), XXIII, a 544, a 545

Geological antiquity of sea areas (Atlantic Ocean), III, a 17-8; (Pacific Ocean), XVIII, a b 131

—— distribution (Biology), III, a 592; (Corals), VI, a b 329, b 336-7, b 340-1, a 343; of fishes (Ichthyology), XII, a 705-7; of ores (Iron), XIII, b 292, a b 293, a b 294

—— human remains (Anthropology), II, a 102-3; (Archæology), b 291, a 293, a 294-5

Geological record (Geology), X, a 190, a 282, a b 285-9; divisions of (Geology), a 287-8; gaps in (Geology), b 286-7, b 288-9

—— remains (Anthropology), II, a 102-3

—— Societies, XXII, b 236-7

—— survey, Austrian (Haidinger), XI, a b 334; (British (De La Beche), VII, b 35-6; United States (Surveys), XXII, b 937-8

GEOLOGY (Ill.), X, b 189-334

- COSMICAL ASPECTS, b 190-6
  - axial, b 192-4
  - centre of gravity, a 194
  - climate, b 194-6
  - interglacial periods, b 196
  - motions of the earth, b 192-6; orbital, a 193
  - solar system, a 191-2
- divisions of, b 190
- DYNAMICAL, a 214-58
  - atmospheric motions, b 234-7
  - causes of volcanic action, a 225-6
  - chemical action of rivers, a 243
  - depression, secular, b 227, b 228-30
  - destructive influences of air, a 235-6
  - distribution of volcanoes, a 225
  - earthquakes, b 226-7
  - epigene action, b 234-58
  - erosion, sea, b 252-4
  - eruptions of volcanoes, b 218-4
  - excavating power of rivers, b 244-5
  - fissures and explosions, a b 218
  - glaciers, a b 249-50
  - heat effects on rocks, b 230-2
  - hypogene action, b 214-34
  - ice, b 248-50
  - lakes, b 247-8
  - lava-streams, a b 216, b 219-23
  - life, effects of, a 256-8
  - man, influence of, b 257-8
  - motions of the sea, b 250-2
  - mud and water volcanoes, a 223-4
  - oceans, b 250-6
  - pressure and contraction of rocks, a 232-3
  - rain, effects of, b 237-9
  - reproductive influences of air, a 236-7; power of rivers, b 245-7; of the sea, a 255
  - rivers and brooks, b 241-7
  - rocks, changes in, a 230-4
  - sea, influence on climate, b 252
  - springs, b 240
  - structure of volcanoes, a 224-5
  - transporting power of rivers, b 243-7; of the sea, b 254-5
  - underground water, a 239-41
  - upheaval, b 227, a 228, b 229-30
  - volcanic action, a 217-26; products, b 215-7
  - volcanoes, b 214-26
  - water, a 237-48; effects on rocks, a 233-4

GEOLOGY, *continued*

- GEOGNOSY, b 196-214
  - atmosphere, b 196-7
  - crust of the earth, a 198-9
  - heat, interior, b 199-200
  - hypotheses of earth's interior, b 200-2
  - interior or nucleus of earth, a 199-202
  - minerals, rock-forming, a 203-4
  - oceans, a 197-8
  - rocks, clay, b 212
    - compound, massive, b 207-10; schistose or foliated, b 210-1
    - crystalline, simple, b 206-7
    - external characters, a 204-5
    - fragmental or plastic, a 211-4
    - gravel and sand, a 211
    - internal characters (Ill.), b 205-6
    - organic, b 212-3
    - volcanic, b 213-4
  - time, geological, a b 202
- INDEX, 333-4
- PALÆONTOLOGICAL, b 282-8
  - colonies, doctrine of, a b 286
  - fossils, b 282-8
  - preservation of organic remains, a 283-4
  - record, geological, b 286-8
  - relative age of fossils, a b 284
  - uses of fossils, b 284-6
- PHYSIOGRAPHICAL, a 329-33
  - contraction of crust, a 329-31
  - denudation, a 331-3
  - mountain chains, a 330-1
- scope of, b 189-90
- STRATIGRAPHICAL, a 288-329
  - archæan period, b 289-91
  - cambrian, a 291-3
  - carboniferous, b 306-11
    - base, a b 307
  - coal measures, b 309-10
  - continental Europe, archæan, a 290
    - cambrian, b 292-3
    - carboniferous, a b 310
    - cretaceous, a 318-20
    - devonian, b 302-3
    - eocene, a b 321
    - jurassic, a b 316
    - miocene, a 322-3
    - permian, b 311-2
    - pliocene, a 324
    - silurian, a 299-301
    - triassic, b 313

GEOLOGY, *continued*

- STRATIGRAPHICAL
  - cretaceous, a 317-9
  - devonian, b 301-3
  - eocene, a 320-1
  - Greenland, miocene, a b 323
  - jurassic, a 314-7
  - lias, b 314-5
  - limestone, carboniferous, b 307-9
  - miocene, b 321-3
  - North American archæan, a 290-1
    - cambrian, a 293
    - carboniferous, b 310-1
    - cretaceous, a b 319
    - devonian, a b 306
    - jurassic, b 316-7
    - post-tertiary, a 328-9
    - silurian, a 301
    - tertiary, a b 324
    - triassic, a 314
  - oolites, a 315-6
  - palæozoic period, a 291-312
  - permian, a 311-2
  - pleistocene or glacial, a 325-7
  - pliocene, b 323-4
  - principles of, a 288-9
  - quaternary or post-tertiary period, b 324-9
  - recent or human period, b 327-8
  - sandstone, old red, b 303-6
  - secondary or mesozoic period, a 312-9
  - silurian, lower, b 293-5; upper, b 295-301
  - succession table, b 289
  - tertiary or cainozoic period, b 319-24
  - triassic, a 312-4
- STRUCTURAL (Ill.), b 258-82
  - amorphous intrusive rocks, a 273-5
  - bedding of strata, b 259-60
  - chronology of strata, a 262
  - cleavage (Ill.), a 272
  - curvatures of rocks (Ill.), a 265-6
  - dip of rocks (Ill.), a 264-5
  - dislocations of rocks (Ill.), a 267-71
  - faults (Ill.), a 267-71
  - hade of faults (Ill.), a b 271
  - igneous rocks, a 273-8
  - joints (Ill.), b 262-4
  - marks on stratified rocks, a b 260
  - metamorphic rocks, b 278-80
  - mineral veins (Ill.), b 280-1
  - necks, a b 277
  - sheets (Ill.), a 275-6
  - stratification of rocks, b 258-62
  - superposition, order of, a 261-2

GEOLOGY, *continued*
  STRUCTURAL
    unconformability (Ill.), b 281-2
    veins and dykes (Ill.), a 276-7
    volcanic interbedded rock (Ill.), b 277-8

——. See Fossils, Paleontology
See names of various countries, districts and mountains for their respective geology.

Geology (Brocchi), IV, b 322; (Buch), a 370; (Buckland), b 377; (Coal) (Ill.), VI, b 46-7; (De La Beche), VII, b 35-6; (Deluc), b 48; (Distribution), a 239-40, b 244-8; (Dolomieu), a 300; (Élie de Beaumont), VIII, a 126; (Faujas de Saint Fond), IX, a b 47; (Foraminifera), b 324-41; (Glacier), X, a 559-60; (Hitchcock), XII, b 27; (Humboldt, A.), b 357; (Hutton), b 430-1; (Ichthyology), a 705-7, a 708-9; (Ichthyosaurus), a 734; (Jameson, R.), XIII, a 573; (Jukes), b 777-8; (Lyell), XV, a 103-4; (Maccuttoch, J.), b 134-5; (Maclure), a 166; (Mantell), a 510; (Marble), b 535-7; (Miller, Hugh), XVI, b 331, a 332; (Mining), a 460-2; (Murchison), XVII, a 57-8; (Petroleum), XVIII, b 727-8, b 733, b 886-7; (Phillips), a b 773; (Prairie), XIX, a 925; (Reptiles), XX, b 478-80; (Saussure), XXI, a 339; (Serpentine), a 715; (Smith, W.), XXII, b 188; (Werner), XXIV, a 530
Geometria ascribed to Boetius, III, b 744; (Numerals), XVII, a 642
—— *Organica* (Maclaurin), XV, a b 162, a 163
Geometriæ. De Practica (Pisanus), XIX, *a b* 134
Geometrical average (Statistics), XXII, b 482-3
—— depression (Glacier), X, b 559
—— determination of Parallax, XVIII, b 251-5
—— Optics, XVII, a 821-31; (Light) (Ill.), XIV, a 581, a b 584-608
—— properties of Bees' cells, III, a b 423
—— proportion and progression (Algebra), I, a 473-4
—— representation of colors (Eye), VIII, a b 721
—— shadow (Light), XIV, b 584-5
—— spiders (Arachnida), II, b 260
Geometridæ, family (Insects), XIII, b 157
Géométrie de l'Infini (Fontenelle), IX, b 319
Geometrina, moths (Butterflies and Moths) (Plate XXXI), IV, a 531
GEOMETRY, X, a 334-78
  ANALYTICAL, b 366-78
    conics, b 371-2
    coördinates, determining lines, b 366-8; point and line, a b 373
    curvature, elements of, b 372-3
    curves, b 377-8
    cylinders, cones and surfaces, a 375
    descriptive or metrical, b 368-9
    metrical theory of planes, b 369-71; of solid, b 374-5
    plane geometry, b 366-73
    quadric surfaces, a 376-7
    solid, b 373-8
    transformation of coördinates, b 375-6
  ELEMENTARY OR EUCLIDIAN, a 334-46
    areas of rectangles and squares, a 337-8
    axioms, a 334-5
    Euclid, Book I., b 335-7
      Book II., a 337-8
      Book III., a 338-9
      Book IV., b 339-40
      Book V., a 340-2
      Book VI., a 342-3
      Book XI., b 343-5
      Book XII., b 345-6
      Book XIII., a b 346
    circle, a 338-9
    inscribed and circumscribed circles, b 339-40
    lines and planes, relations of, b 343-5
    parallelopipeds, a b 345
    plane geometry, b 335-40, a 342-3
    pyramids, b 345-6
    progress of, a 334
    ratios and proportion, a 340-2
    similar figures, theory, a 342-3
    solid geometry, b 343-6
    triangles and intersecting right lines, b 335-7
  PROJECTIVE, b 346-66
    cones and curves of 2d order, a 354-7
    correspondence, b 350-3
    cross ratios and projection, b 348-50
    definitions and axioms, a 347-8
    diameters and axes of conics, b 358-60
    duality, principle of, a 353-4
    foci, a 362-3
    involution, a 360-1; determined by a conic on a line, a 362-3
    Pascal and Brianchon's theorem, a b 355, a 357
    pencil of conics, a b 363
    pole and polar, b 357-8
    quadric surfaces, a 364-5
    ruled quadric surfaces, b 363-4
    segments of a line, a b 348
    twisted cubics, b 365-6
  See MENSURATION, QUATERNIONS, SURVEYING, TRIGONOMETRY

—— (Apollonius), II, b 164-5; (Dürer), VII, b 482; (Dimensions), a b 210; (Gregory), XI, a 163; (Hachette, J. N. P.), *b* 321; (Hodograph), XII, a 44-6; (Hume), a b 367; (Infinitesimal Calculus), XIII, a 7, a 8; (Legendre), XIV, a 415; (Light) (Ill.), a 581, a b 584-608; (Maccullagh), XV, a 134; (Mascheroni), b 614; (Mathematical Drawing and Modelling), b 634-5; (Mathematics), b 636-7; (Measurement), b 665-75; (Möbius), XVI, b 563; (Plücker), XIX, a b 240, a b 241, a 242; (Porism), b 533-4; (Pythagoras), XX, a 145, a 146-9; (Quaternions), a 167-9; (Simpson), XXII, a 94; (Surface), a b 702, a b 707; (Thales), XXIII, a b 236
——, descriptive (Monge), XVI, a 765; (Projection), XIX, b 821-6; Egyptian (Thales), XXIII, a b 236; elliptical (Parallels), XVIII, b 259; Greek (Pappus), a 234-5: hyperbolic (Parallels), b 259
—— of indivisibles (Infinitesimal Calculus), XIII, b 7; modern analytical (Descartes), VII, *a b* 105-6
——, practical application of (Thales), XXIII, b 236, a 237
——, synthetic (Steiner), XXII, a b 559
—— *without Axioms* (Thompson, T. P.), XXIII, b 331
Geomori, class (Greece), XI, *a* 87
Geomyidæ, family (Mammalia), XV, b 421
Geomys, genus (Mammalia), XV, b 424; (Zoology, American), XXIV, b 923
Geonoma, palms (Horticulture), XII, b 276; (Palm), XVIII, a b 194
Geophilus, genus (Myriapoda), XVII, *a* 125, b 126
Georama, Globe, X, b 609
Geordie, lamp (Coal), VI, a 68
GEORGE I., England, X, b 378-9; (Butler, Bishop), IV, a 519; (Camisards), a 658; (England), VIII, a 317-8; Handel), XI, *b* 388; (Hanover), a 400; (Lauenburg), XIV, a 348; (London), a *b* 860; (Poor Laws), XIX, b 482; (Townshend), XXIII, *b* 523, *a* 524; (Walpole), XXIV, a *b* 356
GEORGE II., England, X, b 379-80; (Chesterfield), V, a 528, a *b* 529; (England), VIII, a 318-9; (Gay, J.), X, a 108; (George I.), b 378; (Granville, Earl), XI, b 47; (Hervey), a b 692; (Libraries), XIV, a 514; (London), b 860; (Poor Laws), XIX, a 482, a 483; (Pottery and Porcelain), a 661; (Universities), XXIII, a 903
GEORGE III., England, X, b 380-4
  aim of his reign, b 380-1
  American war, a 381-2
  children of, a 384
  period of French wars, a 383-4
  Shelburne and Pitt, a 382-3

—— (Aëronautics), I, a 172; (Arkwright), II, a 476; (Burke), IV, a b 483, a *b* 485, b 486, a 487, a 488; (Bute), a 517-8; (Cabinet), b 550, a 551; (Chatham), V, a 383; (Dog), VII, a 286; (England), VIII, b 319-26; (Franklin, B.), IX, a 628, *b* 629; (Fox, C. J.), *b* 437, *a* b 438, *a* b 440; (Gillray), X, b 535, *a* 536; (Grenville, G.), XI, a 166; (Hoppner), XII, b 162; (Lancaster, J.), XIV, b 258; (Libraries), *b* 514; (London), b 846, b 860; (Navy), XVII, b 291; (North, Lord), a b 567; (Parny), XVIII, b 324; (Pitt), XIX, b 145, b 146, b 147, a 148, b 149, a b 152, a 153, b 155, a b 156, a b 157, b 158; (Poor Laws), a b 482, a b 483; (Regent), XX, b 353; (United States), XXIII, *a* 790; (Whig), XXIV, *b* 893; (Wolcot), a 662; (Worcester), b 702
GEORGE IV., England, X, a 384-5; (Ambassador), I, a 578; (Archery), II, *b* 327, b 328; (Attwood), III, *b* 57; (Brougham), IV, b 338-40; (Burke), a 489; (Caroline), V, b 110-1; (England), VIII, a 326-7; (Finden), IX, b 168; (Grey, Earl), XI, b 170; (Libraries), XIV, b 514; (Lifeboat), a 575; (Moore), XVI, a 833: (Pitt), XIX, b 152; (Poor Laws), a 483; (Sheridan), XXI, b 836; (Tarleton), XXIII, a 923
—— V., king, Hanover, XI, *b* 400
—— II., king (Georgia), X, b 388
—— III., king (Georgia), X, *b* 388
—— IV., king (Georgia), X, b 388
—— VII., king (Georgia), X, b 388-9
—— XIII., king (Georgia), X, a 389
—— I., Greece (Ionian Islands), XIII, a 213
—— of Denmark, prince (Admiral), I, b 142, a 143; (Anne), II, *a* 56; (Arbuthnot), a 285; (Newton), XVII, b 458-9
—— I., duke (Saxe-Meiningen), XXI, a 364
—— of Saxony, duke (Political Economy), XIX, b 369; (Saxony), XXI, b 369

George Brankovitch I., despot (Servia), XXI, b 721
—— II., despot (Servia), XXI, b 721, a 723
GEORGE, Saint, X, a 386
—— of Antioch, admiral (Sicily), XXII, b 31
——, bishop of Arabs (Syriac Literature)), XXII, a 867, b 872, a 882, b 883
—— of Bē'elthan, patriarch (Syriac Literature), XXII, b 884
—— of Bēth Nēkē, author (Syriac Literature), XXII, a 884, note
GEORGE OF CAPPADOCIA, bishop, X, b 385–6; (George, St.), a 386
—— of Kaphraa, patriarch (Syriac Literature), XXII, b 886
—— dĕ-Maishan, bishop (Syriac Literature), XXII, b 886, note
—— of Martyropolis, bishop (Syriac Literature), XXII, a 884
—— of Mosul and Arbēl, expositor (Syriac Literature), XXII, b 893
GEORGE of Pisidia, poet, X, a b 386; (Greece), XI, b 129
—— of Sĕrūgh, bishop (Syriac Literature), XXII, a 872
GEORGE OF TREBIZOND, X, b 386; (Ptolemy), XX, *a* 96
——, David, fanatic (Davidists), VI, b 742
——, J. F. L., critic (Pentateuch), XVIII, b 516, a 519
——, Kara. See CZERNY GEORGE
George, Lake (New York), XVII, b 462
George Dandin, comedy (Moliere), XVI, a 654
—— Petrovich, patriot (Servia), XXI, b 721
George Sand, nom de plume. See DUDEVANT
George's river (Sydney), XXII, b 845
Georgetown (Ascension Is.), II, a 591
GEORGETOWN, D. C., X, b 386–7; (Columbia, Dist of), VI, a b 151; (Libraries), XIV, a 553; (Observatory), XVII, a 736; (Washington), XXIV, a b 403, b 405
GEORGETOWN, Guiana, X, a b 387; (Guiana), XI, b 221, *a* 222, a 223; (Libraries), XIV, b 552
—— (Prince Edward Island), XIX, *a* 760, a 761
—— (South Carolina), XXII, b 302
—— Wardā of Artēl, poet (Syriac Literature), XXII, b 900
George William, Brandenburg, elector (Prussia), XX, b 10
GEORGIA, kingdom, X, b 387–90
  description, b 387–8
  ethnology, a 389–90
  history, a 388–9
  language and literature, a 390
—— (Alp Arslan), I, b 526; (Imeritia), XII, b 753; (Jenghiz), XIII, a 633; (Persia), XVIII, a 647, a 648; (Tiflis), XXIII, *b* 411; annexation to Russia (Paul), XVIII, a 443; Persian expedition into, 1795 (Persia), a b 657; struggle for possession of, 1800 (Persia), a 659
GEORGIA, state (Map) (Plate III), X, b 390–4
  history, b 393–4
  industrial features, a 392–3
  physical features, b 390–1
  political and educational features, a b 393
  statistics, b 391
—— (Cotton), VI, b 428; (Intestacy), XIII, b 204; (Slavery), XXII, b 906, a b 907, a b 908, a 909; (Universities), XXIII, a 913, a b 953, b 960; colony (United States), b 777, *b* 778, b 785, b 787; history of (United States), b 792, a 800, b 801, b 809, b 811, b 821, b 826, a b 828, a 831; statistics (United States), b 853, b 855, b 856, b 857, b 858, a 859, *b* 860, *b* 864, a 867, b 868, *a* b 872, *a* 878; (Whitney), XXIV, *a* 897; works on (Stevens), XXII, a 928
——, Gulf (Washington), XXIV, b 406, a 408
Georgia Pitch-Pine, XIX, b 113
——, privateer (United States), XXIII, b 826
Georgian Bay St. Lawrence), XXI, a b 187
—— -Church (Greek Church), XI, a 138, b 140; Dictionaries, a 165. See Karthli Language
—— -islands (Tahiti), XXIII, a 27
Georgians, tribes (Caucasus), V, b 223–4; X, a 389
Georgicon, agricultural institute (Keszthely), XIV, b 56
Georgics, British (Grahame), XI, a 31
Georgics of Virgil (Addison), I, b 134; (Augustus), III, a 72; (Delille), VII, b 44, a 45; (Roman Literature), XX, a 742; (Virgil), XXIV, a *b* 268, b 269, b 270–2
Georgilas Limenitis, poet (Greece), XI, a 134
Georgina district (Queensland), XX, b 178
Georgius. See GEORGE
GEORGSWALDE, town, X, b 394
Geortcha, town. See KORITZA
Geotropism of plants (Physiology), XIX, b 66–7
Geotrupes stercorarius, beetle (Coleoptera) (Ill.), VI, a 119
Gephyræi, tribe (Ogyges), XVII, a 754
Gephyrea, order (Animal Kingdom), II, b 46, *a* 48; (Annelida) (Ill.), II, b 58, a 63–4, b 64; (Protozoa), XIX, b 877; (Worm), XXIV, b 714–5; sipunculoid (Polyzoa), XIX, a 444, b 445, a 446, b 452
Gepidæ, race (Goths), X, b 753; (Lombards), XIV, b 822
Gēr (Proselyte), XIX, a *b* 845
GERA, town, X, b 394; (Reuss-Schleiz), XX, a 508
—— Bond, compact, 1598 (Prussia), XX, b 9
GERACE or Gieraci, town, X, b 394–5
—— Siculo, town, X, a 395
Gerah, money (Shekel), XXI, a 825
Geraldines, family. See Desmond
Gérando. See DE GÉRANDO
Geraneia, mount (Megara), XV, a 837
Geraniaceæ, family (Botany), IV, b 115, a 129, b 136, b 137; (Geranium), X, a 395
GERANIUM, plant, X, a b 395; (Botany) (Ill.), IV, b 75, b 98, b 99, a b 109, *b* 122, a 124, b 130, *b* 142; (Horticulture), XII, b 258; (Insectivorous Plants), XIII, a 144
Geranomorphæ, birds (Crane) VI, b 484; (Ornithology), XVIII, a 39; (Sun-bittern), XXII, b 687
Geranosine (Coal Tar Products), XVIII, a 903
Gerard. See Pope NICHOLAS II.
GERARD of Cremona, translator, X, b 395; (Arabian Philosophy), II, b 236; (Ramusio), XX, b 231
——, Balthazar, assassin (William the Silent), XXIV, b 615
GÉRARD, Étienne Maurice, count, X, b 395–6; (Fortification), IX, a 404
GÉRARD, François, baron, painter, X, a b 396
GÉRARD, Jean Ignace Isidore, caricaturist, X, b 396; (Caricature), V, a 93
GERARD, John, botanist, X, b 396; (Potato, Sweet), XIX, a 615; *Herbal* of (Potato), b 611–2
GERARD, Peter, also Tenque or Thom, knight, X, b 395; (Saint John of Jerusalem), XXI, *b* 182
GÉRARD DE NERVAL, littérateur, X, a 397; (Gautier), b 105
—— de Riderfort or Bideford, master (Templars), XXIII, *a* 177
—— de Sabloneta, translator, X, b 395
—— of Soissons, bishop (Truce of God), XXIII, a 628
Gérard d'Euphrate (Romance), XX, b 669
Gerard of Roussillon (Provençal Literature), XIX, b 900, *a* 901
Gerardus Magnus. See GROOT, Gerhard
GERASA, city, X, a 397; (Galilee), b 28
Gerasenus, Nicomachus, novelist (Romance), XX, b 650
Gerau, deer (India), XII, b 780
GERBA, island, X, b 397
Gerbe, naturalist (Swan), XXII, b 769, note
Gerbe, fire (Pyrotechny), XX, b 142
GERBER, Ernst Ludwig, musician, X, b 397
——, Henry Nicolas, organist, X, b 397
Gerberga, abbess (Hrosvitha), XII, b 340
GERBERON, Gabriel, monk, X, b 397–8
Gerbert. See SILVESTER II., Pope
GERBERT, Martin, theologian, X, a 398
Gerbet, Olympe Philippe, bishop (Ozanam), XVIII, b 115
Gerbier des Jones, mountain (France), IX, b 445, a 446
Gerbille, genus (Mammalia), XV, a 421
Gerbillinæ, group (Mammalia), XV, a 421, a 424
Gerbrandus, Johannes a Leydis, historian (Mermaids), XVI, a 45
Gerdil, Giacinto Sigismondo, cardinal (Descartes), VII, a 111
Gère, river (Vienne), XXIV, b 240
Gerenis Tchai or Calbis, river (Asia Minor), II, a 619
Gergonne, mathematician (Curve), VI, a b 634; (Plücker), XIX, a b 240
Gergovia, town (Cæsar), IV, b 565
Gerhard, dukes. See GUELDERLAND
—— of Holstein, count (Schleswig - Holstein), XXI, a b 432
GERHARD, Friedrich Wilhelm Eduard, archæologist, X, a 398
——, George, physician (Typhus), XXIII, b 720
——, Hubert, sculptor (Sculpture), XXI, b 592
GERHARD, Johann, theologian, X, a b 398; (Dogmatic), VII, a 296, a 297; (Glassius), X, *a* 601; (Inspiration), XIII, a b 163
GERHARDT, Charles Frederic, chemist, X, b 398–9; (Chemistry), V, b 403, *a* 404
GERHARDT, PAUL, hymnodist, X, a 398; (Germany), a 474; (Hymns), XII, *b* 621–2
GÉRICAULT, Jean Louis André Théodore, painter, X, a b 399
Gerini, Giovanni, naturalist (Ornithology), XVIII, a 10 note
—— Niccolo di Pietro, painter, (Schools of Painting), XXI, b 454, b 462
GERIZIM, mount, X, b 399; (Israel), XIII, a b 429; (Samaritans), XXI, b 256
Gerlach, Leo, physician (Anatomy), I, b 717, b 760, *a* 761, b 770
Gerland, physicist (Electricity), VIII, a b 79, b 80
Gerlsdorfer Spitze, mountain (Carpathian Mountains), V, a 112
Germ, The, magazine (Rossetti), XX, b 881
Germ, definition of (Evolution), VIII, b 653
Germaine, George, lord (Thompson), XXIII, b 330
Germalus, district (Rome), XX, a 844, note
German Admiralty (Admiral), I, b 144

German Architecture, Gothic, II, b 377–8; modern, b 386

—— Army, II, b 519-25; X, b 419-20; (Dietetics), VII, b 175; (Military Law), XVI, b 311-2; (Vaccination), XXIV, a b 35

—— Arsenals, II, b 554. See Fortresses

—— art, X, b 424; (Cornelius), VI, a b 374; (Dürer), VII, b 478–83; (Engraving), VIII, a 393; (Fresco), IX, b 680, *a* 681; (Glass), X, b 600; (Jameson), XIII, a 572; (Metal-Work), XVI, a b 83; (Niello), XVII, a b 508; (Plate) (Ill.), XIX, a 195-6; (Pottery), a b 650, a 659-60; (Renaissance), XX, a 400-1; (Schools of Painting) (Ill.), XXI, a b 457, b 463, a b 465, a b 466, *a* 468; (Sculpture), b 590–3; (Wood-Carving) (Ill.), XXIV, b 682–3. See names of the particular arts

—— artillery, X, a 420; (Gunnery), XI, b 272, a b 273, *b* 279, b 280; field (Artillery), II, b 522, b 581; garrison, a 582; siege, a 582

GERMAN CATHOLICS, X, b 399-400

German Church Hymn Book (Luther), XV, a 79, b 84

—— Confederation or Bund, X, b 452-4, a b 456–8; (Metternich), XVI, b 208. See Confederation of the Rhine, North German Confederation

—— Drama. See Drama, German

—— common law (Canon Law), V, b 20

—— economists (Political Economy), XIX, b 376–7, b 400-3, b 404-8, b 415; (Protection), a b 941; (Socialism), XXII, b 221-7

—— emigration and settlers, X, a b 410; (New York), XVII, *a b* 472, a 473; (Pennsylvania), XVIII, b 509, a 510; (Russia), XXI, b 87, b 88, b 89, a b 91, a b 92, a 107; (Samara), b 254, note; (United States), XXIII, a *b* 874, a 875

—— Empire, VIII, b 166; X, a b 409, b 416–7, a 453, a b 455-6, a 460; (Alsace), I, b 560; (Austria), III, a 120, *b* 121; (Bavaria), a 393; (Bullion), IV, a 465; (Bunsen), a b 469; (Coronation), VI, a 380; (Diet), VII, b 173–4; (Europe), VIII, b 629, a 630; (Federal Government), IX, a 55; (Government), XI, a 17; (Hegel), b 547; (Italy), XIII, a 480; (Lorraine), XV, a 9; (Luther), b 75; (Prussia), XX, b 22; (Pufendorf), a b 105; (Veto), XXIV, b 224, a 225. See Austrian Empire, Emperor, Empire, and Holy Roman Empire

—— Fortification system (Plates V–VII, IX), IX, a 395-401

—— Harp, XI, a 438

—— historians and histories, X, *b* 478, a b 486–7; (Gfrörer), b 499; (Ranke), XX, a b 895; (Saxony), XXI, a 375; (Vossius), XXIV, b 320

Germania, history (Tacitus), XXIII, a b 25; (Trajan), b 535, note

GERMAN LANGUAGE, X, b 422-3, a 461–7; (Adelung), I, a 139; (Alphabet), a b 538, a 539; (Dictionaries), VII, a 156, b 162–3; (Europe), VIII, b 614-5; (Hungary), XII, b 385, a 388; (Lachmann), XIV, b 193; (Philology), XVIII, b 798, a b 799; literary standard of (Luther), XV, b 77

—— minuscule writing (Palæography), XVIII, a 165

—— Learned Societies, XXII, *b* 235, a *b* 236, *a b* 237, a b 238, *a* b 239, a b 240

German Literature, X, a 467–88; (Academy), I, a 72; (Eberhard), VII, a 534; (Hagen), XI, b 330; (Hardenberg), b 422; (Hoffmann), XII, a 47–8; (Hutten), b 428–9; (Jews), XIII, a b 692; (Klopstock), XIV, b 110, a 111; (Körner), a 142-3; (Lessing), a 479–82; (Lytton), XV, a b 123; (Reimarus), XX, b 365; (Renaissance), a b 400, b 401; (Richter, J. P.), b 561-2; (Shakespeare), XXI, a 804, a 807; mediæval (Pfeiffer), XVIII, a 739; Middle High (Hartmann von Aue), XI, b 446; old (Hildebrandslied), XI, b 727; patronage of (Goethe), X, a b 648; *Reviews* in France (Periodicals), XVIII, a 550

German Mass and Order of Worship for Wittenberg (Luther), XV, b 81

—— Measles, XV, a b 665

—— Medicine, XV, *b* 793, a b 809, b 819, b 821, a b 826

—— mounting for Telescopes, XXIII, a 160, a 163

—— Newspapers, X, b 424; XVII, a b 422, *a* b 423, a 439–40; (American Journalism), a 889

—— Ocean (Harbors and Docks), XI, b 407–8, a 410; (Holland), XII, b 61, a 62; (North Sea), XVII, b 576; (Tides), XXIII, a 398

GERMAN REFORMED CHURCH, American, XX, b 352; (Lutherans), XV, a 87; (Schlatter), XXI, a 907

—— Religions, X, a 421–2; old group, XX, 372, a b 373

GERMAN SILVER, X, b 401; (Cobalt), VI, b 76; (Copper), b 311, a 312; (Nickel), XVII, a 502

—— tribes, X, a 425–6, b 461–2; (Army), II, b 493; (Cæsar), IV, a b 565; (Hundred), XII, b 374; conversion of, X, a 429-30; (Boniface), IV, a 30; (Ireland), XIII, b 255

—— Universities, XXIII, a 889, a *b* 895, a b 896, b 897–8, a 900-2, b 902-5, a b 905; mediæval aspects of, XXIII, a b 899

GERMANICUS, Cæsar, general, X, a 400-1; (Germany), a 427; (Agrippina I.), I, a 372; (Britannicus), IV, b 319 20; (Tiberius), XXIII, b 357, *a* 358

Germanus. See Hermann

——, Byzantine generals (Jordanes), XIII, b 758

——, patriarch (Greek Church), XI, b 139

—— of Auxerre, saint, missionary (Ireland), XIII, a 253

GERMANY (Plate IV), X, b 401–89

- GEOGRAPHY AND STATISTICS, b 401–25
  - agriculture, b 404–6
  - animals, a b 406
  - army and navy, b 419-21
  - bibliography, b 424–5
  - boundaries, b 401
  - climate, a b 404
  - coal, a b 407
  - coasts and islands, b 401–2
  - commerce, a 415–6
  - communication, means of, a 413–4
  - density of population, b 410–2
  - educational features, a 423–4
  - finance, b 417–9
  - forests, a 407
  - government, b 416–7
  - industries, a b 412
  - iron, b 407-8
  - languages, b 422–3
  - migration, a b 410
  - minerals, b 406–8
  - mountain systems, b 402–3
  - population, b 408–12
  - posts and telegraphs, b 413–4
  - religion, a 421–2
  - shipping, a 414–5
  - surface and geology, a b 402
  - water systems, b 403-4
  - zollverein, a b 409
- HISTORY, a 425–61
  - absolutism, recent, b 456
  - ancient tribes, a 425–6
  - Carolingian dynasty, a 429–32
  - Charlemagne, a 430–1
  - Charles V., b 446–8
  - Christianity introduced, a 429–30
  - confederations, tribal, a 427–8
  - diet of Frankfort restored, a 456
  - encroachments of Louis XIV., b 450
  - effects of the Thirty years' war, a 449–50
  - Ferdinand II., b 448–50
  - feudalism, b 430, b 432, a 435
  - Franconian dynasty, b 436–9
  - Franco - Prussian war, b 459

GERMANY, *continued*

- HISTORY
  - Frankfort assembly, a 454-5
  - Frederick Barbarossa, b 439–40
    - II., b 440–1
    - IV., a b 445
  - German confederation or bund, b 452–8
  - Hapsburg dynasty, rise of, b 442–52
  - Henry I., emperor, a b 433
    - II., b 436
    - III., a b 437
    - IV., b 437–9
    - V., and Lothair the Saxon, a 439
  - hereditary Hapsburg line, b 444 *sq.*
  - Hohenstaufen dynasty, b 439–42
  - Hohenzollern empire, a 460-1
  - interregnum, a b 442
  - Louis I. and his sons, a 431–2
    - IV., a 443-4
  - Luxembourg dynasty, a b 444
  - Maria Theresa, empress, a b 451
  - Maximilian I., b 445–6
  - Merovingian kings, a 428–9
  - Napoleonic wars, a b 452
  - North German confederation, b 458–9
  - Otto I., b 433-5
    - II., b 435-6
    - III., a b 436
  - Reformation, the, a 446-9
  - religion, tribal, a b 426
  - revolution of 1848, b 453-5
  - Roman period, b 426–7
  - Saxon dynasty, b 432-6
  - Schleswig - Holstein war, b 457–8
  - state of Germany in 13th century, b 441–2
  - union, the, b 455–6
  - William I. of Prussia, b 457–61
- INDEX, 488–9
- LANGUAGE, a 461–7
  - ancient tribes and dialects, b 461–2
  - middle German, a 464–6
  - modern high German, a 466–7
  - name, origin of, a 461
  - old German, b 462–4
- LITERATURE, a 467–88
  - ancient poetry, a b 467
  - chivalry, age of, a 468–70
  - classical period, a 480–6
  - decadence, a 474–6
  - early middle age, b 467–8
  - Goethe, b 480–2

GERMANY, *continued*
  LITERATURE
    Göttingen school, a b 483
    later middle age, b 470-2
    latest period, a 486-8
    Lessing, a 479-80
    Reformation period, b 472-4
    revival period, a 476-80
    romantic movement, a 484-5
    Schiller, b 481
    "Sturm und Drang," a 480, a 483
    young Germany, b 487

—— (Annates), II, b 55; (Banking), III, a b 294; (Ballot), b 251; (Banks), a 291; (Bee), a 431; (Book), IV, b 36; (Calendar), a 601; (Coal), VI, b 53-5; (Concubinage), a 217; (Congress), a b 239; (Coöperation), a b 301; (Copyright), b 323; (Dahlmann), b 673; (Deaf and Dumb), VII, a 8, b 9-10; (Deism), a 34; (Duel), a 442, b 444; (Education), b 583, a 584, a 586, a b 587, a b 588; (Feudalism), IX, b 105, a 106, a 107, note; (Fire), a 202, note; (Folklore), a 313, a 314; (Forests), b 349, a b 350, a 352-3; (Fortification), a 411-12; (France), b 466, a 499, b 550-2; (Freemasonry), a b 660; (Friendly Societies), b 688-9; (Glass), X, b 581, a b 582, a b 583; (Geology), b 300-1, b 316, b 322; (Homœopathy), XII, a 131; (Howard), b 334; (Ichthyology), a 669, a 671; (Insanity), XIII, a 105, b 118; (Insurance), b 190; (International Law), a 198; (Investiture), b 207; (Iron), b 341; (Israel), a b 440; (Italy), a 482, a b 483; (Jesuits), b 666; (Jews), b 690-3; (Land), XIV, a b 262, a 265; (Lassalle), a b 321-2; (Leibnitz), b 418-9; (Libraries), a 513, b 525-6, b 547-9; (Lifeboat), a 577; (Liquor Laws), b 694, *b* 695; (Louis IV.), XV, b 18
—— (Mining), XVI, a 490; (Money), a b 764; (Mysticism), XVII, b 139-42; (Mythology), b 162, a 163; (National Debt), b 249-50, b 252, b 254; (Navy), b 299, a 300, b 308, a 309; (Numismatics), a b 676. See Coinage; (Observatories), b 732-3; (Opium), *a* 815; (Palmerston), XVIII, b 200-1; (Paper), a 22; (Paraffin), b 247; (Patents), a 363; (Peerage), b 471-2; (Periodicals), a 551-3; (Poland), XIX, a *b* 321, a 322; (Police), a b 356; (Popedom), a 517, a 518, a 519, a b 523; (Post-Office), b 599-600, a b 604; (Press Laws), b 732; (Prison Discipline), b 779-80; (Railway), XX, a 262; (Reformation), b 332, a 336, a 337-40, b 346-7, b 347-8; (Renaissance), a 400-1; (Salt) (Ill.), XXI, a 242; (Sedition), a 651; (Slavery), XXII, b 145; (Silk), a 72; (Sugar), a b 658, a *b* 659, *b* 661; (Tiberius), XXIII, *b* 356, a 357; (Treason), a b 559 notes, b 561 note; (Trent, Council of), b 578-80; (Veterinary Science), XXIV, a 215, a 216; (Veto), b 224, a 225; (Wine), b 263-4; (Witchcraft), a b 656; (Wool), a 697. See names of separate States in Germany
Germany, Rural and Domestic Life of (Howitt), XII, b 338
German Yeast, XXIV, a 770
Germar, German philosopher (Belief), III, a 461
Germ-cell (Embryology), VIII, b 150, a 153
Germen of flowers (Botany), IV, b 127
GERMERSHEIM, town, X, a 490
Germinal membrane (Embryology), VIII, b 150; vesicle (Botany), IV, b 132-3; discovery of (Embryology), VIII, a 153
Germination (Horticulture), XII, a 221, b 240; of mosses (Muscineæ), XVII, a 79; of spores (Reproduction), XX, a b 442. See Fecundation, Fertilization
Germ-layers (Reproduction), XX, a 433; sexual and asexual in Liverworts, XIV, b 724, a 725
Germ theory of disease (Homœopathy), XII, b 131; (Influenza), XIII, b 80; (Measles), XV, a 665; (Pathology), XVIII, a 408, b 410, b 411, b 413, b 416, b 417; (Schizomycetes), XXI, a b 417, a b 425; (Surgery), XXII, a 712-5, a 718, a 721, a 722; (Trematoda), XXIII, b 572-3, a b 574; (Typhus), b 718, a 723
Gernssheym, Peter de, printer. See Schoeffer
Gero of Brandenburg, margrave (Germany), X, a 434, a 435
GERONA, city, X, a b 490; province (Spain), XXII, b 312, a 313, b 360
Gerontius, general (Maximus), XV, b 652
Gerousia, senate (Lycurgus), XV, a 97. See Gerusia
Gerratting in Heraldry, XI, a 629
GERRHA, city, X, b 490; (Katíf), XIV, a b 17; (Persia), XVIII, b 600
—— (Lebanon), XIV, b 394
Gerrhus river (Scythia), XXI, b 602, note
Gerritz, Dirk, explorer (Polar Regions), XIX, b 341
Gerry, Elbridge, vice-president (United States), XXIII, a 796 note
GERS, department, X, b 490-1
Gersa, town. See GERASA
Gersau, district (Switzerland), XXII, a 832
Gersdorf, Katerine von (Zinzendorf), XXIV, a 827
Gersdorffite (Mineralogy) (Ill.), XVI, a 407
Gersen, John, Benedictine (Kempis), XIV, *a b* 34
Gershom Meor Haggolah, Rabbenu (Rashi), XX, a 297 note
GERSON, John, chancellor, X, a 491-2; (France), IX, b 570; (Hermeneutics), XI, b 667; (Immaculate Conception), XII, a 754; (Kempis), XIV, a b 34; (Mysticism), XVII, a 139; (Sarpi), XXI, b 326; (Scholasticism), b 448
GERSONIDES, Levi, philosopher, X, a b 492
Gersoppa Falls (Kánara), XIII, a 844; (Shimoga), XXI, a b 840
GERSTACKER, Friedrich, traveller, X, b 492-3
Gerstenberg, Heinrich Wilhelm von, author (Drama), VII, a 382
Gerstenhofer's pyrites burner (Furnace), IX, a 743
Gertrude of Wyoming (Campbell, Thomas), IV, a 668
Gerund, Friar, History of (Isla), XIII, b 397
Geruuda, town. See GERONA
Gerunds (Sanskrit), XXI, b 283-4
Gerusalemme Conquistata, poem (Tasso), XXIII, b 84
—— *Liberata* (Castello, B.), V, b 168; (Italy), XIII, b 520-1; (Tasso), XXIII, b 82-3, a b 84
Gérusia, council (Israel), XIII, a 430
Geruzez, Eugène, critic (France), IX, a 598
GERVAIS, Paul, palæontologist, X, a 493; (Birds), III, *a b* 633; (Ornithology), XVIII, a b 35; (Penguin), b 501
GERVAISE of Canterbury, monk, X, b 493; (Architecture), II, b 373; (Chronology), V, a 619; (England), VIII, b 278
GERVASE of Tilbury, historian, X, b 493; (Records), XX, *b* 325
GERVINUS, Georg Gottfried, historian, X, b 493-5; (German Catholics), a 400; (Germany), b 486, a 487, b 488; (Grillparzer), XI, b 175
Gery, Saint, bishop (Brussels), IV, a 365
Geryonia, genus (Hydrozoa) (Ill.), XII, *b* 596, b 597
Gesammtministerium (Saxony), XXI, a 375
Geschichte. See Chronicles, History
Geschichte der Chemie (Wenzel), XXIV, b 528
—— *der Deutschen Dichtung* (Gervinus), X, b 494
—— *der Deutschen Sprache* (Grimm), XI, a b 178, b 179
—— *Israels* (Israel), XIII, b 413-4, b 441
—— *der Kunst des Alterthums* (Winckelmann), XXIV, b 629
—— *der Menschheit, Philosophie der* (Germany), X, b 480
—— *der National-Oekonomik in Deutschland* (Political Economy), XIX, a 406
—— *der Philosophie* (Ast), II, b 642. See PHILOSOPHY
—— *der Schweizer* (Müller), XVII, *b* 22
—— *des Neuern Poesi* (Bouterwek), IV, a 162
—— *des Urchristenthums* (Gfrörer), X, b 499
—— *des Volkes Israel* (Hitzig), XII, b 30
Geschlecht or deficiency (Curve), VI, a b 640
Gesellschaft deutscher Naturforscher und Aerzte (Societies), XXII, b 232
GESENIUS, Friedrich Heinrich Wilhelm, orientalist, X, a b 495; (Hebrew Language and Literature), XI, b 537
Gesenke, range (Germany), X, b 403
Gesi, Giovanni Battista, composer (Music), XVII, a 100
Gesith, officer (Knighthood), XIV, b 112
GESNER or Gessner, Konrad, naturalist, X, b 495-6; (Bibliography), III, *a* 571, *a* 573; (Guinea-Fowl), XI, b 234; (Humming-Bird), XII, a 371; (Morphology), XVI, *a* 864; (Ornithology), XVIII, b 7, note, a 8; (Pencil), b 500; (Tody), XXIII, a 460 note; (Toucan), *a* 507; (Turkey), b 699, a 700; (Zoology), XXIV, a 843
GESNER, Johann Matthias, classicist, X, b 495; (Ernesti, J. A.), VIII, a 466
Gesnera, plant (Botany), IV, a 87
Gesneraceæ, order (Botany), IV, a 103, b 126
Gespenterbuch, ghost stories (Weber), XXIV, a b 495
Gessi Pasha, explorer (Nile), XVII, b 518, b 519
Gessler, tyrant (Tell), XXIII, *b* 171, *a* 172
Gessner, Konrad, painter, X, b 496
GESSNER, Salomon, poet, X, a b 496; (Germany), b, 477; (Pastoral), XVIII, a 353; (Switzerland), XXII, a b 836
Gesso relief work (Mural Decoration) (Ill.), XVII, b 53; (Sculpture), XXI, b 585, note, a 586, note; (Wood-Carving), XXIV, b 680, a 681, a b 683
Gesta Danovum (Saxo Grammaticus), XXI, a b 366
—— *Florentinorum* (Villani), XXIV, *b* 245
—— *de Maldizer* (Portugal), XIX, b 570
—— *Hungarorum* (Hungary), XII, b 390
—— *Pontificum Anglorum* (Malmesbury), XV, a b 339
—— *Regum Anglorum* (Malmesbury), XV, a *b* 339
GESTA ROMANORUM, X, b 496-7

Gestation (Camel), IV, a 651; (Cattle), V, b 214; (Dog), VII, b 281-2; (Elephant), VIII, a 117; (Horse), XII, b 184; (Ibex), a 641; (Longevity), XIV, b 868; (Reproduction), XX, a b 422; limits of (Medical Jurisprudence), XV, a 789
Gesture (Drama), VII, b 342-3
—— -language (Philology), XVIII, a 781, b 784
Gestures of Birds, III, b 668; (Birds of Paradise), a 676; (Snipe), XXII, *b* 211
Gesuati, monks (Glass), X, b 598
Gesuita Moderno (Gioberti), X, b 540, a 541; (Italy), XIII, a 526
GETA, Publius Septimus Antoninus, emperor, X, a 497
Getæ or Geti, tribe (Bessarabia), III, a 532; (Dacia), VI, b 668, *a* 669; (Goths), X, *a* b 753; (Persia), XVIII, b 581. See GOTHS
Getah muntah (Gutta Percha), XI, a 302
Geticis, De Rebus (Jordanes), XIII, a *b* 758-9
Getting under way (Seamanship), XXI, a b 627
Gettysburg, Battle of, 1863, III, a 383; Hancock, XXIII, a 838, a 839; (Reynolds), XX, b 908; (Sanitary Commission), XXI, b 901, a 903; (Sedgwick), b 915; (Stuart), XXII, b 931; (Sykes), b 941; (United States), XXIII, *a* 827; cemetery dedication (Lincoln), XIV, b 667-8
GEULINCX, Arnold, philosopher, X, a b 497; (Cartesianism), V, b 129; (Descartes), VII, b 109
Geum, plant (Botany), IV, b 107, b 109; (Horticulture), XII, b 258
Geusen Lieden Boecxken (Holland), XII, b 95
Geuzen, reformers (Holland), XII, b 95. See Gueux
Gévaudan, district (Camisards), IV, a 657
Gewandhaus concerts (Hiller), XI, b 732; (Mendelssohn), XVI, *a* b 12
GEX, town and district, X, b 497
Geyler, preacher. See GEILER
Geymüller, author (Raphael), XX, a b 293, *a* 295
Geyserite, mineral (Nebraska), XVII, b 317
GEYSERS (Ill.), X, b 497-9; (America), I, b 596; (Geology), X, a 224, b 240; (Iceland), XII, b 652; (Yellowstone Park), XXIV, a b 774, a 775
Geyza, duke (Hungary), XII, b 382
GEZER, city, X, a 499
Gezo, king (Dahomey), VI, b 675
GFRORER, August Friedrich, historian, X, a b 499
Ghadámes, oasis. See GADAMES
Ghaggar river (Ambálá), I, a 577; (Hissár), XII, a 4; (Sirsa), XXII, *a* 106
Ghakkars, race (India), XII, a b 830, a 832
Ghalcha dialects (Kâfiristân), XIII, b 831
Ghálib, courtier (Mansur), XV, *a* 508
—— or Mirza Asadullah Khan, poet (Hindustani Literature), XI, b 757
—— of Mecca, sheik (Arabia), II, *a b* 228
—— Turkish poet (Turkey), XXIII, a 699
Gambassi, Francesco di Domenico Lievi da, painter (Glass), X, *b* 597, a 598
Ghará river (Bháwalpur), III, b 544
Ghardaya, town. See GARDAIA
Gharm, town. See Harm
Ghásí Dás, religious teacher (Bilaspur), III, a 580
Ghassan, kingdom of (Arabia), II, *a* 223 a 224; (Mohammedanism), XVI, a 569, a 585, a 587
GHÁTS or Ghauts, mountains, X, b 499; (Cochin), VI, b 84; (Concan), *b* 212; (Deccan), VII, b 18; (India), XII, a 770, b 771-2, b 776; (Madras), XV, a *b* 185, b 186, a 188; (Mahrattas), b 291, a 293; (Travancore), XXIII, b 558; influence on climate (America), I, a 593; (Bombay), IV, *a* 20, a 21
Ghawárine, race (Palestine), XVIII, b 182
Ghawázee, dancers (Egypt), VII, *a* 630
Ghazál, Bahr-al-, river (Nile), XVII, *b* 519, a 520, a 521
Ghazals or ghazels, poems (Háfiz), XI, b 328, a 329; (Hindustani Literature), b 756-7; (Persia), XVIII, b 671; (Turkey), XXIII, b 697, a 698
GHÁZIÁBÁD, town, X, a 500
Ghâzi Fázil, poet (Turkey), XXIII, a 698
GHÁZIPUR, district, X, a 500; town, *a* 500
GHAZNI, city and kingdom (Ill.), X, b 500-2; (Afghânistân), I, *b* 204, b 206, b 207, a 208, b 210, b 211, b 214, a *b* 215, a 216; (Ghur), X, a b 509; (Herat), XI, a 639; dynasty of, X, b 501-2; (India), XII, b 831; (Mahmud), XV, b 288-90; (Samanid Dynasty), XXI, b 253-4
—— Mahmud, Abul Kasim, ruler, XV (Ghazni), X, b 501; (Ghur), b 509
Ghediz Tchai, river (Asia Minor), II, b 618
GHEE, butter, X, b 502; (Oils), XVII, b 765, *a* 768
GHEEL or Geel, town, X, b 502-3
Gheneh, town. See Kinè
GHENT, city (Map), X, a 503-5; (Artevelde), II, *b* 565; (Charles the Bold), V, a 368; (Charles V.), a 360; (Fortification), IX, a 395; (Guild), XI, a 231; (Libraries), XIV, a 531, a 551; (London), b 829; (Newspapers), XVII, b 441; (Universities), XXIII, a b 906; museum (Crayer), VI, b 491, a 492; pacification of, 1576 (Holland), XII, a 79; (John, Don), XIII, b 728; (Holland), XII, a 77
GHENT, Jodocus or Justus, painter, X, a b 505
GHERARDESCA, Ugolino Della, politician, X, b 505-6; (Pisa), XIX, a *b* 129
GHERIAH or Viziadrug, town, X, a 506
Gherkins, vegetable (Horticulture), XII, a 294
Ghermeli Tchai, river (Asia Minor), II, a 618
Gherstonofer furnace (Iron), XIII, b 345
Ghetaldus, Marinus, philosopher (Hydromechanics), XII, a 451
Ghéve Opium, XVII, a b 811, note
Gheyns, Matthias, van den, manufacturer (Bell), III, b 463, b 464, a 465
GHIBELLINES AND GUELFS, XI, a 217-8; (Castruccio Castracani), V, a 177; (Cino da Pistoia), b 686; (Dante), VI, b 713, b 714, a 715; (Eccelino), VII, a b 538; (Florence), IX, b 292; (Gherardesca), X, b 505; (Italy), XIII, a 483, a b 485, b 486, b 487; (Pavia), XVIII, a 450; (Pisa), XIX, *a* b 129; (Rome), XX, a 813, *a* 814, *a* 815, *b* 816, a 818; (Siena), XXII, a b 45
GHIBERTI, Lorenzo, sculptor, X, a b 506; (Finiguerra), IX, b 187; (Glass), X, *b* 597, note, a 598, a 599; (Metal-Work), XVI, b 81; (Schools of Painting), XXI, a 451, a b 452
Ghika, Gregory, voivode, Moldavia (Roumania), XXI, b 25
—— Scarlatŭ, hospodar (Roumania), XXI, b 23
GHILAN, province, X, b 506-7
Ghilgit, district. See GILGIT
Ghilzai, country and tribe (Afghânistân), I, a 206, *b* 210, a 212, a 215; etymology of (Persia), XVIII, a 651
Ghiorghia, town. See KORITSA
Ghiraldi, Luigi Lilio, physician (Calendar), IV, b 595
GHIRLANDAJO, Domenico del, painter, X, b 507-8; (Botticelli), IV, *a* 151; (Fresco), IX, a 678, a b 679; (Michel Angelo), XVI, b 237-8; (Schools of Painting) (Ill.), XXI, b 452, a 462, b 467
GHIRLANDAJO, Ridolfo, painter, X, b 508
"Ghirlandina," bell-tower (Modena), XVI, b 564
Ghislieri, Michele. See Pope Pius V.
Ghistele, Cornelis van, translator (Holland), XII, a b 95
Ghiyássuddín Ghúrí, sultan (Ghazni), X, *a* 502; (Ghúr), a b 509
—— Tughlak, sultan (India), XII, a 832
Ghizar, river (Gilgat), X, b 532, a 533
Ghizeh, ruins. See Gizeh (Architecture) (Ill.), II, a 337-8
Ghizhiga bay (Maritime Province), XV, b 554
Ghizni, town. See GHAZNI
Ghobar Numerals, XVII, a 642
Ghogho, town. See GOGO
Ghomdan, fortress (Sanaa), XXI, a 266
Ghor, country. See GHUR
Ghorband, river (Hindū Kūsh), XI, b 748
Ghori, town (Afghânistân), I, b 216, b 217
Ghost Micrometer, XVI, b 266
Ghost-mountains (Uruguay), XXIV, a 19
Ghosts, spectres (Apparitions), II, *b* 177, b 179-80; (Demonology), VII, a b 54; (Drama), b 340-1; (Glanvill), X, b 566; stories (Periander), XVIII, a 539 note; (Weber), XXIV, a b 495
Ghotra, kinship (Family), IX, *a* 20
Ghowr, valley (Arabia), II, b 205
Ghughè or Gugé, province (Tibet), XXIII, a 366, b 367
Ghulab Singh, ruler (Kashmir), XIV, b 15
Ghulām-i-Hamdānī, poet (Hindustani Literature), XI, b 757
Ghúlgúlah ruins (Bámián), III, *a* 265
GHUR, province, X, b 508-10; (Afghânistân), I, b 207, b 214; (Ghazni), X, b 501-2; dynasty (Herab), XI, a 639; (Málwá), XV, b 349
Ghuweir, plain (Galilee), X, *b* 27
Ghuznee, town. See GHAZNI
Ghuzz or Memlooks (Egypt), VII, b 658, b 659, a b 660, a b 661
——, tribe (Ghazni), X, a 502; (Merv), XVI, a 48, a 49; (Seljuks), XXI, a b 666, b 667; (Turks), XXIII, b 701, a b 702
Ghyphto-Kastro (Cithæron), V, a 694
Ghyrey, khan (Crimea), VI, b 519-20
Giacomini, physician (Surgery), XXII, *a* 725
Giacomo of Ulm, St. (Glass), X, a 600
Giafar, name. See Jaafar
Giallo-antico (Marble), XV, b 536
Gia Long, king of Annam (Tong-King), XXIII, *a* 460
Giama-Nu-chu, river (Tibet), XXIII, *b* 360, *a b* 362, b 363
GIAMBELLI or Gianibelli, Federigo, engineer, X, a 510
Giamda, town (Tibet), XXIII, b 363
Giangchi, town (Tibet), XXIII, b 364
GIANONNE, Pietro, historian, X, a b 510; (Vico), XXIV, a 229
GIANT, X, b 510-1; (Amat), I, a 575; (Monster), XVI, a 789; myths of (Gaelic), X, a 10
—— or sugar Pine, XIX, b 114
—— cells in dermoid tumor (Pathology), XVIII, a b 379; in granulations (Pathology) (Ill.), b 371-2; in repair (Pathology) (Ill.), b 371-2

Giant powder (Mining), XVI, a 465
GIANT'S CAUSEWAY, X, b 511; (Ireland), XIII, b 221–2
—— graves (Cromlech), VI, a 528
—— ring, cromlech (Down), VII, a 332
—— sconce, ruin (Londonderry), XIV, b 863–4
—— staircase (Venice), XXIV, a 166
Giard, Alfred Mathieu, anatomist (Tunicata), XXIII, b 647, b 658
GIARRE, town, X, b 511
GIAVENO, town, X, b 511
GIB, Adam, divine, X, b 511–2; (United Presbyterian Church), XXIII, a 776
Gibaros, race (Porto Rico), XIX, b 547
Gibbet Law (Guillotine), XI, b 233; (Halifax), a 344
GIBBON, Edward, historian, X, a 512–20
- ancestry, a 512
- authorship, early, a 515–6
- bibliography, b 519–20
- criticism of history, a b 519
  - personal, b 518–9
- Decline and Fall begun, b 516–7
- English society, b 514–5
- Lausanne, at school, b 513–4
  - settlement at, b 517–8
- militia service, b 515, a 516
- parliamentary career, a b 517
- religious experiences, b 513–4
- school days, b 512–4
- travels, b 515–6

—— (Byzantine Historians), IV, a b 545, b 546; (Christianity), V, b 602, b 604, b 605; (Damasus I.), VI, b 698; (English Literature), VIII, a 384; (Fox, C. J.), IX, b 439; (Giannone), X, b 510; (Gnosticism), b 628; (Greece), XI, b 95; (Halles), b 334; (History), XII, a 24, a 25, a 26; (Hymns), a 613; (Macaulay), XV, a 130; (Mohammedanism), XVI, a 584; (Pinkerton), XIX, *a* 116; (Pitt), b 151; (Plague), a 174; (Porson), XIX, a b 538; (Robertson), XX, *b* 616; (Thompson), XXIII, b 330; (Watson), XXIV, a 433
——, Edward, Sr., politician, X, a b 512, note, a *b* 513, *b* 514, a b 516; (Law, W.), XIV, b 369
——, John, author (Heraldry), XI, a 611, b 636
Gibbons (Anthropology), II, a 96; (Apé) (Ill.), a b 132, a 138, a 145, b 146
——, Edward, organist, X, *a* 520
——, Ellis, organist, X, a 520
GIBBONS, Grinling, woodcarver, X, a 520; (Carving), V, a 148; (Sculpture), XXI, a 587; (Wood-Carving), XXIV, b 681; (Wren), a 725
GIBBONS, Orlando, musician, X, a b 520; (Music), XVII, a 92; (Tallis), XXIII, a 39
——, Thomas, steamboatman (Vanderbilt), XXIV, a 875
Gibborim, bodyguard (David), VI, *b* 738, a 739
Gibbs, James, architect (Architecture), II, b 388
——, J. A. E., inventor. See Willcox and Gibbs
——, Josiah Willard, philologist (Diffusion), VII, b 186, a 191
Gibbsite (Mineralogy), XVI, a 404
Gibeah, town (Israel), XIII, b 412, *a* b 413
Gibelman, mountain (Manna), XV, b 500
GIBEON, town, X, b 520; (Tabernacle), XXIII, b 9; battle of, 1451 B.C. (Israel), XIII, b 410; brazen altar at (Chronicles), V, b 615
Gibloux, mountain (Freiburg), IX, b 670
GIBRALTAR, fortress and town (Ill.), X, b 520–3; (Bishop), III, b 685; (Ibn Batuta), XII, b 643; (Mohammedanism), XVI, a 596; (Prison Discipline), XIX, b 771; (Spain), XXII, *a* 307; straits of (Mediterranean Sea), XV, *a* 829, a b 830–1; current in (Atlantic Ocean), III, a 19
—— of the Antilles (Guadeloupe), XI, a 204
GIBSON, Edmund, bishop, X, b 523–4; (Atterbury), III, a 50; (Pamphlets), XVIII, a 210
——, John, binder (Bookbinding), IV, a 38
——, John, gardener (Horticulture), XII, a 270. See List of Contributors
GIBSON, John, sculptor, X, a 524–5; (Sculpture), XXI, b 587, note
——, Richard, painter (Dwarf), VII, b 490
——, Thomas, painter (Thornhill), XXIII, b 335
——, William, farrier (Veterinary Science), XXIV, b 214
GICHTEL, Johann Georg, mystic, X, a b 525
Gid, disease (Veterinary Science), XXIV, a b 223
Gidel, Charles Antoine, rhetorician (Greece), XI, b 133–4, a 136
GIDEON, judge, X, b 525–6; (Israel), XIII, a 412
Giebel, C. G., naturalist (Ornithology), XVIII, b 18, a 25
GIEN, town, X, a 526; (Loiret), XIV, *b* 818
Giens, peninsula (Hyéres), XII, a 600
Gier, river (Loire), XIV, b 816
Gieraci, town. See GERACE
Giesebrecht, Friedrich Wilhelm Benjamin von, historian (Rome), XX, *b* 802, b 824
Gieseckite (Mineralogy), XVI, a 436, b 443
GIESELER, Johann Karl Ludwig, historian, X, a b 526; (Gospels), b 747; (Church History), V, b 669
GIESSEN, town, X, b 526; (Academy), I, a 70
Giffard, theatre manager (Garrick), X, *b* 75
Giffard's injector (Hydromechanics), XII, b 465; (Steam-Engine) (Ill.), XXII, b 522
Giffen, Robert, statistician (England), VIII, *b* 233, a b 234; (Statistics), XXII, a b 480, b 483
Gifford, village (Knox), XIV, a 131 note
——, George, theologian (Independents), XII, b 762 note; (Witchcraft), XXIV, a 655
——, William, bishop of Winchester (Surrey), XXII, a 730
GIFFORD, William, critic, X, b 526–7; (Jonson), XIII, a 754, *a* 756; (Wolcot), XXIV, a 662
GIFT, X, a 527
—— of tongues (Corinthians), VI, a b 356
Gifts (Kindergarten), XIV, a 82
Gig, boat (Rowing), XXI, b 36, a 38
—— -mill (Wool), XXIV, b 696
Gigantolite (Mineralogy), XVI, a 436
Gigia, town. See GIJON
Gigli, Girolamo, antiquary (Catherine), V, *b* 202; (Siena), XXII, b 48–9
Gigliati, town (Numismatics), XVII, a 676
Giglio, island (Italy), XIII, a 450
Gihon, river (Oxus), XVIII, a 104, a 106
GIJON, town, X, a b 527; (Asturias), II, b 721, *a* 722; (Spain), XXII, b 307, b 316
Gila, river (Arizona), II, b 472
—— monster, reptile (Zoology), XXIV, b 924–5
Gilan, province. See GHILAN
GILBART, John William, banker, X, b 527; (Banking), III, a 273
Gilbert islands (Caroline Islands), V, b 111; (Micronesia), XVI, a 267–8; (Pacific Ocean), XVIII, b 132; (Polynesia), XIX, *b* 440
——, François Hilaire, farrier (Veterinary Science), XXIV, b 214
——, Sir Geoffrey, jurist (Brehon Law), IV, a 227
——, G. K., geologist (Surveys), XXII, b 937, a 938
GILBERT, Sir Humphrey, navigator, X, b 527–8; (Newfoundland), XVII, a 395; (Plymouth), XIX, b 249; (United States), XXIII, b 776
GILBERT, Nicolas Joseph Laurent, poet, X, a b 528
GILBERT or Gilberd, William, physician, X, b 528–9; (Electricity), VIII, b 4, a 5; (Electrometer), a 111, a 112; (Magnetism), XV, b 220, *b* 221, *a* b 222, a *b* 223, notes, a b 224, *a* 226, b 270, b 276, b 277 note; (Perpetual Motion), XVIII, b 566
——, de Lacy, knight (Templars), XXIII, b 176
—— of Moravia, bishop (Sutherland), XXII, a 765
GILBERT DE LA PORRÉE, theologian, X, a 529; (Scholasticism), XXI, b 441–2, *a* b 443, a 444; (Theism), XXIII, b 260
GILBERT of Sempringham, St., X, a b 529
Gilbert act concerning charities (England), VIII, b 229; (Poor Laws), XIX, a b 482
Gilbertine monks (Gilbert, St.), X, b 529; (Lincoln), XIV, a 663; (Monachism), XVI, b 735, a 742
Gilbert's integrals (Wave Theory), XXIV, b 467
—— Peak (United States), XXIII, a 847; (Utah), XXIV, b 24
—— Sound, discovery of (Polar Regions), XIX, a 329
Gilbertus Anglicus, physician (Medicine), XV, a 817
Gil Blas (Espinel, Vicente), VIII, a 484; (Isla), XIII, b 397; (Le Sage), XIV, b 472, b 473, a 474
Gilboa, mount (Galilee), X, *a* 26; (Palestine), XVIII, a 176; battle of, 1056 B.C. (Israel), XIII, b 414
Gilchrist, Harold, king. See Harold
——, John, orientalist (Hindustani Literature), XI, a b 758, a 759
GILDAS, historian, X, b 529–30; (Arthur), II, b 568, b 569; (Cave), V, a *b* 235; (Celtic Literature), b 273, *b* 284; (England), VIII, a 242, a 243; (English Language), b 349–50; (English Literature), a 364; (Hadrian, Wall of), XI, a 327; (Ireland), XIII, a 252, a 255
Gildebert, bishop (Hildebert), XI, a 727
GILDING, X, a 530–1; (Bookbinding), IV, a b 39; (Building), b 455; (Burmah), *a* 495; (Ghirlandajo, D.), X, a 508; (Mercury), XVI, b 37
GILDING AND CARVING, V, b 148
——, Electro-, VIII, a 110; (De la Rive), VII, b 37, a 38
GILEAD, district, X, a b 531; (Israel), XIII, b 411; (Mizpâh), XVI, b 555; (Moab), a 557, a b 558; (Palestine), XVIII, a 177, b 180
Gileki, race (Ghilan), X, a 507
Gileppe dam (Water-Supply) (Ill.), XXIV, b 427, *b* 428, a b 429
GILES, St., monk, X, b 531; (Fair), VIII, b 742
——, A., engineer (Harbors and Docks), XI, b 418, b 419
GILFILLAN, George, divine, X, b 531–2
GILGAL, towns, X, a b 532; (Kings), XIV, a 88, note
GILGIT, valley and State (Chart), X, b 532–4; range (Hindú Kúsh), XI, a b 748; town, X, b 533
Gilies, Captain, explorer (Polar Regions), XIX, b 330

Gill, lough (Sligo), XXII, a 169
Gill, Alexander, divine (Milton, John), XVI, b 336; (Phonetics), XVIII, a 825
——, David, astronomer (Micrometer), XVI, b 265; (Parallax), XVIII, a b 254–5, a 258. See List of Contributors
GILL, John, divine, X, b 534; (Baptists), III, b 306
Gilla Caomhan, poet (Celtic Literature), V, b 273
GILLESPIE, George, theologian, X, b 534–5
——, Patrick, reformer (Presbyterianism), XIX, a 703, b 706
GILLESPIE, Thomas, divine, X, a 535; (United Presbyterian Church), XXIII, b 776
Gillets's guillotine chaff-cutter (Agriculture), I, b 290
Gillett and Bland, bell-makers, Croydon (Bell), III, a 465
GILLIES, John, historian, X, a b 535; (Gaelic), a 13
Gilling-machine (Wool) (Ill.), XXIV, b 694–5
Gill lamellæ or plates (Mollusca) (Ill.), XVI, a b 714, a 716, a 718
Gillmore, Quincy Adams, general (Georgia), X, a 394. See List of Contributors
Gillolo, island. See JILOLO
Gillott, Joseph, manufacturer (Pen), XVIII, b 494
Gill-plume or ctenidia (Mollusca) (Ill.), XVI, b 658, a 659, b 661, a 664, b 669, b 670, b 679, a 680, a b 681, a 688, b 693, a 694, b 698, b 710, b 714–7
Gill-rakers (Ichthyology), XII, a b 694, b 702
GILLRAY, James, caricaturist, X, b 535–6; (Caricature), V, b 92; (Tooke), XXIII, a 474
Gills (Crustacea) (Ill.), VI, a b 566; (Cuttle-Fish) (Ill.), a b 650; (Ichthyology), XII, a b 673, b 693–6; (Sea-Horse) (Ill.), XXI, b 606
Gilly, William Stephen, canon (Waldenses), XXIV, a b 346
GILLYFLOWER, X, b 536; (Tisio), XXIII, a 437
Gilmerton, town (Edinburgh), VII, *a* 571
Gilolo, island. See JILOLO
GILPIN, Bernard, divine, X, b 536–7; (Airay), I, a *b* 381
GILPIN, William, author, X, b 537
——, William, governor (Colorado), VI, b 146
Gilsson, Einar, poet (Iceland), XII, b 658
Gilui river (Siberia), XXII, *a* 8
Gilyaks, race (Saghalin), XXI, b 155
Gimli, palace in Asgard, II, a 594
Gimp, fabric (Lace), XIV, a b 186
Gim-peg socket (Lapidary), XIV, a b 299
GIN, liquor, X, b 537–8; (Distillation), VII, a 230, b 231; (Whiskey), XXIV, a 573; *Acts* concerning (Walpole), a 357; (Whiskey), b 572–3
Gin or horse-whim (Mining), XVI, a 477
GINCKELL, Godart Van, general, X, a b 538
Gindely, Antoine, historian (Slavs), XXII, b 162
Ginestra, poem (Leopardi), XIV, b 465, a 466
Gingelly oil (Oils), XVII, a 765, b 767; (Sesame), XXI, b 725
GINGER, X, b 538–9
Gingerbread (Marne), XV, b 568
GINGHAM, fabric, X, a 539; (Guingamp), XI, a 235
Gingillino (Giusti), X, b 557
Gingko, tree (Arboriculture), II, b 280; (Nut), XVII, a 683; (Vegetable Kingdom), XXIV, b 142
Ginglymus or hinge joint (Anatomy), I, a b 731
GINGUENÉ, Pierre Louis, historian, X, a b 539
Ginning (Cotton), VI, b 428–9
GINSENG, X, b 539–40
Gintl, electrician (Telegraph), XXIII, a b 132
GIOBERTI, Vincenzo, philosopher, X, b 540–1; (Balbo), III, b 236; (Italy), XIII, b 497, a 498, a b 499, a 526; (Pius IX.), XIX, b 167, a 168
Giobertite (Mineralogy), XVI, a 414
Giocondo, Fra, architect (Venice), XXIV, b 167, b 185, a 186, a 187
Gioja, Flavio, navigator (Geography), X, b 160; (Map), XV, b 525
GIOJA, Melchior, economist, X, a b 541; (Political Economy), XIX, b 400
Giordani, Pietro, classicist (Italy), XIII, a 525
GIORDANO, Luca, painter, X, b 541–2
Giorgi, Antonio Agostino, linguist (Lhasa), XIV, b 496, b 502, a 503; (Tibet), XXIII, a 368 note
Giorgio of Gubbio. See Gubbio ware
—— Martino of Siena, Francesco di, painter (Siena), XXII, b 49; (Urbino), XXIV, a *b* 14, note
GIORGIONE, Giorgio Barbarelli, Il, painter, X, a 542–3; (Feltre), IX, b 61; (Titian), XXIII, *b* 441, *a* 443
Giornale de Letterati (Periodicals), XVIII, a 553
Giornico, battle of, 1478 (Uri), XXIV, a 16
Giorno, Del (Italy), XIII, b 522
Giostra, La (Politian), XIX, b 358
GIOTTINO, painter, X, a b 543
GIOTTO, painter, X, b 543–5; (Architecture), II, *b* 398, b 399; (Campanile), IV, a 666; (Cimabue), V, a b 680; (Dante), VI, a 713; (Fresco), IX, b 676, a b 677, *a* 678; (Gaddi), X, *a* 6–7; (Giottino), a 543; (Glass), *a* 597; (Padua), XVIII, a 136; (Pisano), XIX, *b* 131; (Schools of Painting) (Ill.), XXI, *a* 451, a b 452, a 468; his *Dante* (Wilde), XXIV, b 897
Giovanni, Don, opera (Don Juan), VII, b 309; (Lute), XV, a 72; (Mozart), XVII, a b 17; (Music), b 101, a b 106
Giovanni Bartoli, Matteo di, painter. See Matteo di Giovanni
—— da Bologna, sculptor (Sculpture), XXI, a b 596
GIOVINAZZO, town, X, b 545
Giovio, Paolo, historian. See JOVIUS
Gipps's land (Australia), III, b 99
GIPSIES, X, b 545–52
  bibliography, b 551–2
  character and aspects, b 550
  distribution, b 545
  etymological clues, b 445–6
  European migrations, a 545–6
  language, b 547–9
  literature, a b 549
  manners and customs, b 549–50
  theories of origin, a b 551
—— (Bázágars), III, b 397; (Dictionary), VII, b 163–4; (Herzegovina), XI, *b* 692; (Hungary), XII, b 379; (Jats), XIII, a 608; (Luristan), XV, a 70, note; (Montenegro), XVI, a 807; (North, Sir D.), XVII, b 567; (Roumania), XXI, b 22, a 25; (Russia), b 74, a 75, b 88; (Transylvania), XXIII, b 555
Gipsies' corn (Henbane), XI, b 580
Gipsy, The (Servia), XXI, a 723
Gipsy-Tent, XXIII, a 200
Gir, range (Kathiawar), XIV, a 17
GIRAFFE (Ill.), X, a 552–3. See Camelopard
Giralda, tower (Seville), XXI, b 742
Giraldes, Alfonso, poet (Portugal), XIX, a 571
GIRALDI, Giglio Gregorio, poet, X, a 553
GIRALDI, Giovanni Battista, novelist, X, a b 553; (Drama), VII, b 360
Giraldus Cambrensis (Barri), III, b 338–9; (England), VIII, b 278–9; (Ireland), XIII, b 248, a b 257, *a* 265
Girandole (Pyrotechny), XX, a 143
Girard, Albert, mathematician (Algebra), I, b 453–4; (Trigonometry), XXIII, b 597
——, Charles, naturalist (Surveys), XXII, *a* 936
GIRARD, Philippe Henri de, mechanician, X, b 553; (Linen Manufacture), XIV, b 670
GIRARD, Stephen, merchant, X, a 554
—— College (Lieber), XIV, b 567; (Philadelphia), XVIII, b 751, b 753; (Walter), XXIV, b 882
—— and De Laire process (Coal Tar Colors), XVIII, a b 902, b 903
—— de Rousillon, paladin. See *Girart*
Girard de Vienne (Romance), XX, b 667, a 668, b 669
GIRARDIN, Delphine Gay de, novelist, X, a b 554
——, Émile de, economist, *b.* 1802, *d.* 1881 (Carrel), V, a 118; X, a 554
GIRARDIN, Saint-Marc, politician, X, b 554
GIRARDON, François, sculptor, X, a 555
Girardow, village (Girard, P. H. d'), X, b 553
Girard turbine (Hydromechanics) (Ill.), XII, b 454, b 562–3
Girart de Roussillon or Girartz de Rossilho, romance (France), IX, b 561; (Provençal Literature), XIX, b 900–1; (Romance), XX, a b 669
Girasol, gem (Mineralogy), XVI, b 405
Giraud, explorer (Zaire), XXIV, *b* 801
——, Herbert, chemist (India), XII, b 881
Girder or beam (Bridges), IV, a 254, b 257–69; (Building) (Ill.), b 404, a 405, a b 432; auxiliary (Bridges), *a* 273; continuous (Bridges) (Ill.), a 267–9; deflection of, b 265–9; design of (Bridges), a b 265; iron (Bridges) (Ill.), a 306, a 307; various forms of (Bridges) (Ill.), a 286; Warren (Bridges), a 283, b 284–5; weight of (Bridges), a 265, a 269
GIRDLE, X, a b 555; (Costume), VI, b 411, b 412, b 413; sacred (Parsis), XVIII, b 330, a 331
Girdling trees (Horticulture), XII, a 219; (Teak), XXIII, a 111
GIRGEH or Girga, town, X, b 555; (Egypt), VII, b 672
GIRGENTI, city, X, b 555–6
Giri river (Sirmúr), XXII, b 105
Girin, town. See KIRIN
Girishk, fortress (Afghânistân), I, b 205, a 207, a 216
Girling, Mary Ann, prophetess (Shakers), XXI, b 773 note
Girls, education of (Women), XXIV, a 910–2; spinal curvature of (Surgery), XXII, b 728. See Women
Girls Playing, painting (Luini), XV, b 63
Gírna, river (Násik), XVII, a 243
Gírnar hills (Junágarh), XIII, a 783; (Káthiáwár), XIV, a 17; rock of (Inscriptions), XIII, b 126
GIRODET DE ROUSSY or Trioson Anne Louis, painter, X, a b 556
Giron, Francisco Hernandez, rebel (Peru), XVIII, a 691, b 693
——, Pedro Tellez. See OSUNA
GIRONDE, department and river, X, b 556
——, river (France), IX, b 446, b 457; (Garonne), X, a 75; (Pellagra), XVIII, a 487 note, a 488; (Wine), XXIV, b 636–7
"Gironde, Fury of the" (Théroigne de Méricourt), XXIII, a 314
Girondins, Histoire des (Lamartine), XIV, b 233, b 234

Girondists, party (Brissot), IV, a 314; (Condorcet), VI, a 226; (Corday D'Armans), a 345; (Danton), b 718, *a* 719; (France), IX, b 530, *a* b 531, *a b* 532, *a b* 533, a 534; (Marat), XV, b 535-6; (Napoleon), XVII, b 201; (Pétion de Villeneuve), XVIII, b 716; (Robespierre), XX, a b 618, a 619; (Roland), a b 641; (Vergniaud), XXIV, b 178-9
Girou de Buzareingues, Louis François Charles, physiologist (Sex), XXI, *a* b 758
Giroud's rheometer (Gas-Lighting), X, b 88
Girs, Ægidius, historian (Sweden), XXII, b 792
Girtin, Thomas, painter (Painting), XVIII, a 144; (Turner), XXIII, a 705, a 707
Girton college (Cambridge), IV, b 647
GIRVAN, town, X, b 556-7
Girwán, town (Bandá), III, a 267
Gisā or Gaiyāsā, monk (Syriac Literature), XXII, a b 892
Gisborough. See GUISBOROUGH
Giscala, town (Paul), XVIII, a 425
——. See John of Giscala
"Gishurst compound" (Hollyhock), XII, b 106
Gisilbert, duke (Lorraine), XV, *a* 7
Gisippus (Griffin), XI, a 175
Gislason, Konrad, philologist (Scandinavian Languages), XXI, b 384, *a* 385
Gisli's Saga (Iceland), XII, a 659
Gismondine (Mineralogy) (Ill.), XVI, a 442
GISORS, town, X, a 557
Gitā Govinda, drama (Hindustani Literature), XI, a 753; (Sanskrit), XXI, a 299
Gitchki, tribe (Kej), XIV, b 30
Gitiades of Sparta (Archæology), II, b 305
GITSCHIN, town, X, a 557
Giuliani, Veronica, nun (Stigmatization), XXII, b 577
Giulio Romano, painter (Marcantonio), XV, a 539
Giunta, Bartolommeo, printer (Manulius), XV, b 521
GIUNTA PISANO, painter, X, a 557; (Fresco), IX, b 676, a 677; (Schools of Painting), XXI, b 451, a 462. See Pisano
Giunti, Tommaso, printer (Ramusio), XX, a b 282
GIURGEVO, town, X, a 557
Giustendil, town. See KOSTENDIL
GIUSTI, Giuseppe, poet, X, b 557-8; (Italy), XIII, b 525-6
GIUSTINIANI, family, X, a b 558
——, Agostino, theologian, X, a b 558; (Henry VIII.), XI, a 591, b 593
——, Bernardo, historian, X, *a* 558
——, Geronimo, translator, X, b 558
——, Giovanni, translator, X, b 558
——, Leonardo, senator, X, a 558
——, Lorenzo, bishop, X, a 558
——, Orsatto, senator, X, b 558
——, Paolo, monk, X, a 558
——, Pietro, senator, X, a 558
——, Pompeio, soldier, X, b 558
——, Vincenzo, art collector, X, b 558
Giusto da Guanto, painter. See GHENT, Justus
GIVET, town, X, b 558
Giving Alms no Charity (Defoe), VII, a 26, a 29
GIVORS, town, X, b 558
Givre, efflorescence (Vanilla), XXIV, b 73, a 74
Gizeh, ruins of (Architecture) (Ill.), II, a 337-8; (Egypt), VII, b 668-70; (Pyramid), XX, *a* b 129, *a* b 130; sphinx of (Architecture) (Ill.), II, a 339
Gizio, valley of (Italy), XIII, b 447
Giz'ycki, Georg von, philosophic writer (Evolution), VIII, *b* 673, a 674
Gizzard (Hornbill), XII, a 174; in nautilus (Mollusca), XVI, b 701, b 702; in Worm, XXIV, b 715
Gjers's kiln (Iron) (Ill.), XIII, b 297-8; lift (Iron), b 308-9
Glabella of frontal bone (Anatomy), I, b 722
Glabrio, Manlius Acilius, consul (Cato), V, b 208; (Rome), XX, b 771
Glabrum, plant (Opium), XVII, b 810
Glacial deposits (Long Island), XIV, b 875, a b 876; (Livonia), a 730; (Luray), XV, b 68; (Quebec), XX, b 172; (Westmorland), XXIV, a 542; America (Geology), X, a b 328
—— motion (Geology), X, b 249-50; (Ice), XII, a 647
—— period (America, South), I, b 591; (Archæology), II, b 293-4; (Geology), X, b 311, a 325-7; (Lucerne), XV, a b 43; (Minnesota), XVI, b 498; (Nebraska), XVII, b 317-8; (New Hampshire), b 401; (New Jersey), a 406 note; (New York), a 465; (Northumberland), b 579; (Russia), XXI, b 81, a 82; (Scotland), b 544; (Sweden), XXII, a b 778, a 779; (Tobolsk), XXIII, b 457; (Turkestan), a 675, a 676; (Wisconsin), XXIV, b 649, b 650; causes of (Geology), X, b 194, a 195-6; flora of (Distribution), VII, a b 250; transportation (Geology), X, b 249-50
Glaciarium, hall (Southport), XXII, a 305
GLACIER (Ill.), X, b 558-62
    hypotheses of motion, a 561
    motions, a 560-2
    structural character, a 559-60
Glaciers (Agassiz), I, a 247, a 248; (Alps), b 555, b 556, a 558, *b* 559; Arctic (Atlantic Ocean), III, a 17; (California), IV, a 620; (Caucasus), V, *b* 220, b 223; (Cumberland), VI, a 616; (Ecuador), VII, b 559; (Finland), IX, b 188; (Forbes, J. D.), a b 344; (Geology), X, a 249-50; (Greenland), XI, b 148, *a* b 149; (Grisons), a 182; Himalayan, a 742; (Asia), II, b 601; (Iceberg), XII, b 649; (Iceland), b 651; (India), a 775; (Norway), XVII, b 592; (Nova Zembla), *b* 619-20; (Patagonia), XVIII, a 357; (Polar Regions), XIX, a b 336, a b 340; (Pyrenees), XX, a 132; (Rhone), a 542; (Siberia), XXII, b 8; (Spitzbergen), a 424; (Switzerland), b 815; (Syr-Daria), b 857, b 859; (Ural Mountains), XXIV, b 9
Glacier Veleta (Spain), XXII, b 308
Glacis, slope (Fortification), IX, *a* 372, *a b* 378, a 393
GLADBACH, towns, X, b 562
Gladhouse reservoir (Water-Supply) (Ill.), XXIV, 428
Gladiator, Borghese (Agasias), I, b 245
GLADIATORS, X, b 562-4; (Cæsar), IV, a 564; (Commodus), VI, b 185; (Games), X, a 60; (Rome), XX, a 834 note; (Slavery), XXII, b 140, *a* 143; war of (Rome), XX, a 781
GLADIOLUS, plant, X, a b 564; (Botany), IV, b 87, a 88, a 94; (Horticulture), XII, b 263-4
Gladsmuir, parish (Haddington), XI, a 324
Gladstone, town (Queensland), XX, a 178, b 181
——, John Hall, chemist (Chemistry), V, a 404, a 483, a 485, b 497; (Electrolysis), VIII, b 107; (Spectroscopy), XXII, b 394
——, William Ewart, statesman (Banking), III, *a* 282; (Cabinet), IV, b 550, a 551; (Church), V, b 663, b 664; (Cobden), VI, a b 81; (Elgin and Kincardine), VIII, a 124; (England), a b 328; (Farini, L. C.), IX, a 32; (Ferdinand II., Sicilies), a 70; (Free Trade), b 664; (Government), XI, b 13, note, a 16; (Greece), *b* 112; (Hawarden), a 476; (Helena), b 561 note; (Homer), XII, b 116 note; (Ionian Islands), XIII, a 213; (Newspapers), XVII, b 427, a 431; (Parliament), XVIII, b 315 note; (Poerio), XIX, b 268; (Post-Office), a 586, b 588, a 589; (Taxation), XXIII, a 93, a 95
Glagerite (Mineralogy), XVI, b 442
Glagolitic MSS. (Slavs), XXII, a 159, note, b 160
Glairin, organic matter (Mineral Waters), XVI, a 450, a 452, a b 454
Glaisher, James, astronomer (Aëronautics), I, a 174, a b 175, a 176-80, a 182, a 183, *b* 184, a 186, a b 187; (Climate), VI, a 4; his Rain gauge (Ill.), XX, a 269; his tables (Hygrometry), XII, b 605; (Tables), XXIII, b 11, *b* 18, *a b* 19. See List of Contributors
——, James W. L., mathematician (Infinitesimal Calculus), XIII, b 43, a 54; (Trigonometry), XXIII, b 608, *a* b 609. See List of Contributors
Glamaig, mount (Skye), XXII, a 135
GLAMORGAN, county, X, b 564-5; (Post-Office), XIX, b 589; cattle (Agriculture), I, b 345; coal measures (Geology), X, b 309
——, Edward Herbert, Earl of (Charles I.), V, a 353
Glance Coal, VI, b 43, a b 46; (Mineralogy), XVI, a 448. See Anthracite
GLANDERS, disease, X, b 565-6; (Elliotson), VIII, a 138; (Pathology), XVIII, b 416; (Veterinary Science), XXIV, b 216, b 218-9
Glands (Anatomy), I, *b* 739, a 744; (Botany) (Ill.), IV, b 80-1; (Digestive Organs), VII, a b 193, b 195-6, a b 197-8, b 201-2; (Horse), XII, *b* 183, b 184; (Ichthyology), b 693; (Malpighi), XV, b 340; (Mammalia), a b 351; (Nutrition), XVII, *b* 687-8, a 690-4; (Physiology), XIX, b 21-2; blood-vascular (Anatomy), I, a b 797; cells of (Histology), XII, a 18; of Dionæa (Insectivorous Plants), XIII, b 142-3; of Drosera (Insectivorous Plants), *b* 142; epithelial (Histology), XII, *b* 7; Harderian (Mammalia), XV, a 370; hypertrophied (Surgery), XXII, a b 722; of hypoderm (Leech), XIV, a 401; intercellular (Histology), XII, b 18; lymphatics in (Anatomy), I, a 797; mammary (Milk) (Ill.), XVI, b 314-5; Meibomian (Mammalia), XV, a 370; metabolism of (Nutrition), XVII, b 698-9; of Morren (Worm), XXIV, b 715; nerve influence on (Physiology), XIX, a 35; odoriferous (Mammalia), XV, a b 351, a 405, a 413, a 422; salivary (Mammalia), b 364-5; sublingual (Mammalia), b 364; submaxillary (Mammalia), b 364; subneural (Tunicata), XXIII, b 647-8, a b 650, b 654; syphilitic (Surgery), XXII, b 721; yolk- (Trematoda), XXIII, a 571; zygomatic (Mammalia), XV, b 364
Glandular epithelium (Anatomy), I, a 744; excretion of plants (Physiology), XIX, b 60; tumors (Pathology) (Ill.), XVIII, b 376, b 386-7
GLANVIL, Randulph de, jurist, X, a b 566
Glanville, Bartholomew de, friar (Encyclopædia), VIII, a 176

- GLANVILL, Joseph, theologian, X, b 566; (Apparitions), II, b 177, *a* 179, a 181; (Scepticism), XXI, b 399
- Glaphyra, queen (Juba II.), XIII, a 769
- Glareanus, Henricus Loritus, poet (Tell), XXIII, b 171
- Glareola, genus (Pratincole), XIX, b 679–80, note
- Glärnisch, mountain (Geology), X, b 267; (Glarus), b 566, a 567
- GLARUS, canton, X, b 566–7; (Switzerland), XXII, b 815, a b 816, a b 818, b 822, *a* 823, *a* 829, a 833
- ——, town (Switzerland), XXII, b 815, b 816; X, *a* b 567; (Zwingli), XXIV, a 872
- GLAS, John, mystic, X, b 567–8
- Glasenapp, astronomer (Parallax), XVIII, a 256
- GLASER, Christopher, chemist, X, b 568
- Gläserberg, mountain (Saxe-Weimar), XXI, a 365
- Glaserian fissure (Anatomy), I, a 774, *b* 783, a 784
- Glaserite, salt (Glaser), X, b 568; (Mineralogy), XVI, b 416
- Glasford, Abercromby, Lord, I, *a* 41
- GLASGOW (Plan), X, b 568–76
  - administration, b 571–3
  - commerce, a 571, a 575, b 576
  - growth, b 568
  - harbor, b 570–1
  - history, b 568–70
  - industries, b 575–6
  - physical regeneration, b 571–2
  - public structures, a b 573–5
  - schools and universities, b 573–5
  - water and gas service, a b 572–3
- —— (Aqueduct) (Ill.), II, a 196–8, b 200; (Commerce), VI, b 181; (Cotton), *b* 445, a *b* 446; (Filter), IX, b 146; (Fire), a b 206; (Harbors and Docks), (Plate X), XI, b 418; (Libraries), XIV, a 522, a 544; (Lotteries), XV, b 13; (Newspapers), XVII, a 434; (Observatory), b 730; (River Engineering), XX, a 594; (Savings Banks), XXI, a 343, a 345; (Scotland), a 551, *b* 553, a b 557, *a b* 558, a 559; banks, failure among, in 1857 (Banking), III, a 289; episcopate (Archbishop), II, a 324; (Scotland), XXI, *b* 504, *a* b 505
- —— and Southwestern Railway, XX, b 234, a 235
- —— University, XXIII, a 899, b 910; (Hamilton, Sir W.), XI, b 371, b 375; (Melville), XV, a b 852
- Glas Meal, mountain, IX, a 361
- GLASS (Plates V, VI) (Ill.), X, b 576–601
  - Alexandrian, a 580
  - Asiatic, a b 577, a b 580
- GLASS, *continued*
  - baryta and bottle (Ill.), a b 592–3
  - bibliography, b 595, a 601
  - Byzantine, b 579–80
  - classification, b 584–5
  - colored, a b 594
  - constitution of, b 583–5
  - crown, b 587–8
  - Egyptian, b 576–7
  - European history, b 580–3
  - flint or crystals, a b 591
  - furnaces (Plates V, VI) (Ill.), b 585–7
  - Greek, b 577
  - history, b 576–83
  - iridescence, b 594
  - mediæval, a b 582
  - melting-pots (Ill.), a b 585
  - opaque, b 594–5
  - optical, a b 593
  - PAINTING, a 596–601
    - cathedral of Florence, a 597–8
    - development of, a 596
    - enamelled glass, a b 600
    - Guglielmo di Marsillat, b 598
    - Italian art, b 596–9, a 601
    - modern art, b 600–1
    - technics, a 599–600
  - plate (Ill.), a 590–1
  - pressed, 591–2
  - recent centuries, b 582–3
  - Roman, a 578–9, b 581–2
  - sheet (Ill.), a 588–90
  - slag, strass and massive, a b 593–4
  - statistics, b 595
  - toughened, a b 595
  - tube and spun, b 593, a 594
  - Venetian, b 580–1
  - working, b 587–95
- —— (Acid), I, a 92; (Annealing), II, a b 57; (Austria), III, a b 105; (Baader), a 151; (Babylonia), a 165; (Barytes), a 350; (Elasticity), VII, b 690, a 691, b 699, *a b* 707; (Europe), VIII, b 621; (France), IX, b 460; (Maestricht), XV, a 197; (Meurthe-et-Moselle), XVI, a 213; (Meuse), a 214; (Mineralogy), a b 393; (New Jersey), XVII, b 406, note; (Patents), XVIII, b 882–3; (Phœnicia), b 817; Pittsburgh (Natural Gas), XVIII, a b 898; (Scotland), XXI, b 553; (Venice), XXIV, b 169–70; Roman (Architecture), II, b 368; (Inscriptions), XIII, b 136; varieties of (Building), IV, a 456
- ——, town (Gaboon), X, *a* 5
- —— -balancesprings (Watch) XXIV, b 417
- —— -blowing, X, a b 588–9; (Blow Pipe) (Ill.), III, b 729
- —— -bulb in thermometry (Heat), XI, a b 501
- —— -cutting, X, b 583, b 591, a 592; (Diamond), VII, b 144; (Ilhavo), XII, a 741
- Glasses, Franklin (Spectacles), XXII, a 387
- Glass-gall or Sandiver, X, b 587
- Glassites, sect. See GLAS, John
- GLASSIUS, Solomon, theologian, X, a 601
- Glass-hives (Bee), III, b 432
- —— -houses (Horticulture), XII, a 225–37
- ——, Light velocity in, XIV, a 612
- —— Mirrors, XVI, a 523–4
- ——, Müller's (Mineralogy), XVI, b 405
- ——, Muscovy (Mineralogy), XVI, b 430–1
- Glasson, town (Lancaster), XIV, a 256
- —— -painting. See Painting, Glass
- —— -plates, preparation of (Photography), XVIII, b 842
- ——, refraction of (Light), XIV, b 596, a 597; indices of (Optics), XVII, b 824
- —— rods, X, a 594; vibrations of (Acoustics), I, b 106
- —— -rope zoophytes (Corals), VI, b 329
- —— -Snake (Lizard), XIV, a b 471
- GLASTONBURY, town, X, b 601–2; (Somerset), XXII, a *b* 272, *a* 273; abbey, X, b 60–2; (Abbot), I, b 28, b 29; (Architecture), II, b 375; (England, Church of), VIII, a 332; (Grail), XI, b 32
- Glass tubes (Blowpipe), III, b 728; expansion of (Heat), XI, b 520, b 521
- GLATZ, town, X, b 602
- *Glaube, Der Alte und der Neue* (Strauss), XXII, a 621
- GLAUBER, Johann Rudolph, chemist, X, b 602; (Chemistry), V, b 398; (Alchemy), I, *b* 413
- Glauberite (Mineralogy) (Ill.), XVI, a 417; (Sodium), XXII, a 253
- GLAUBER'S SALT, X, b 602–3; (Mineralogy), XVI, b 417; (Sodium), XXII, a 254
- Glauce, myth (Fountain), IX, a 428
- GLAUCHAU, town, X, a 603
- Glaucia, Caius Servilius (Rome), XX, a b 777
- Glaucinic acid (Lichens), XIV, a 562
- Glaucodote (Mineralogy), XVI, b 406
- Glaucoma, disease (Blind), III, b 717; (Gräfe), XI, a 29; (Ophthalmology), XVII, a b 805, b 806
- Glauconite (Mineralogy), XVI, b 432; (Pacific Ocean), XVIII, b 125, a 126
- Glauconycteris, genus (Mammalia), XV, a 415
- Glaucophane (Mineralogy), XVI, a 436
- Glaucopis, goddess. See ATHENE
- Glaucous, Gull, XI, a 243
- GLAUCUS, myths, X, a b 603
- ——, son of Hippolochus, prince, X, b 603
- —— of Chios, sculptor (Archæology), II, a 304; (Scio), XXI, a 487
- —— son of Minos, prince, X, b 608
- —— Pontius, god, X, a 603
- —— Potnieus, god, X, b 603
- —— Sinus, gulf (Lycia), XV, b 94, a 95
- Glaze (Enamel), VIII, a b 167; (Pottery and Porcelain), XIX, b 618
- Glazebrook, physicist (Wave Theory), XXIV, a 463, b 484 note, b 485
- Glazed ware (Pottery and Porcelain) (Ill.), XIX, a b 618, b 620, a 621, a 623, b 635, b 637, b 651, b 653, *a* 654, b 658, b 663
- Glazier's cutting tools (Hand Tools), XI, b 392. See Glass-cutting
- Glazing (Building), IV, b 455–6; (Painting), XVIII, b 142, a 143; hot-bed (Horticulture), XII, a 231; plant houses (Horticulture), XII, a 226
- —— Gunpowder (Ill.), XI, b 286–7, a 293
- Glazy Iron, XIII, b 287, a 314
- GLEBE, X, b 603–4
- Glede, bird (Kite), XIV, b 105 note
- GLEE, song, X, a 604; (Horsley, W.), XII, b 213; (Music), XVII, a 95
- Gleek, game. See POKER
- Gleemen (Minstrel), XVI, a 502
- Gleicheniaceæ, family (Ferns), IX, a 92
- GLEIG, George, bishop, X, a b 604; (Encyclopædia), VIII, a *b* 182
- GLEIM, Johann Wilhelm Ludwig, poet, X, b 604; (Germany), *b* 477; (Halbertstadt), XI, b 339
- GLEIWITZ, town, X, b 604
- Glen, James, governor (Gordon), X, b 695
- Glenarm, town (Antrim), II, a *b* 125, a *b* 126
- Glencairn, Alexander Douglas, 5th earl of (Scotland), XXI, a 522, *a* b 523, a 527
- "Glencoe" (Horse), XII, b 207
- Glencoe valley (Argyllshire), II, *b* 439; massacre, 1692 (Scotland), XXI, a b 540; (Stair), XXII, b 462; (William III.), XXIV, b 611–2
- Glen Cove, bay (Long Island), XIV, a 876
- Glendale, battle, 1862 (United States), XXIII, a 826
- Glendalough, glen and lakes (Wicklow), XXIV, *a* b 588, *a* 589
- GLENDOWER, Owen, prince, X, b 604–5; (Henry IV. and V. England), XI, *b* 588, a 589; (Pembroke), XVIII, b 493
- Glenelg, river (Australia), III, b 93; (Victoria), XXIV, a 233
- —— Sound (Lighthouse), XIV, b 630
- Glen Esk (Scotland), XXI, b 547
- Glengariff grits, rock (Cork), VI, b 357
- Glenham, Sir Thomas, soldier (Carlisle), V, *b* 96
- Glen Isla (Scotland), XXI, b 547
- —— -lakes (Scotland), XXI, b 548
- —— Mama, battle of, 1000 (Ireland), XIII, a b 259

Glenmalure (Wicklow), XXIV, a 588
Glenmasan manuscript (Gaelic), X, b 12
Glenmore, valley (Inverness), XIII, a 205, b 206
Glens described (Scotland), XXI, a 547, a 548
Glen's Falls, town (Hudson River), XII, a 345
GLEYRE, Marc Charles Gabriel, painter, X, a 605-6
Gliadin (Gluten), X, b 620
Gli Animali Parlanti, allegory (Casti), V, b 169
Glides, vowel (Speech-Sounds), XXII, a 397-8
GLINKA, Fedor Nikolaevich, poet, X, a 606
GLINKA, Michael Ivanovich, composer, X, a b 606
GLINKA, Sergy Nikolaevich, historian, X, b 606
Glinska, Helen, grand duchess (Russia), XXI, b 100
Glinski, Michel, noble (Poland), XIX, b 302
Glioma, tumor (Anatomy), I, a 745; (Ophthalmology), XVII, b 806; (Pathology), XVIII, a 368
Glires, order (Crossbill), VI, b 542, note
Glisson, Francis (Anatomy), I, *b* 711; (Pathology), XVIII, b 379
GLOBE, map (Ill.), X, b 606-11
  curious, 16th to 18th century, a b 609
  earliest known, b 606-8
  flexible, b 610-1
  manufacture, a 610-1
  Mercator, a 608
  Mollineux, b 608-9
  Newtonian, a 611
  sixteenth century, a 607-609
  Ulpius, b 608
—— (Behem), III, *b* 439; (Mercator), XVI, b 34; map (Geography), X, a 179; first (Map) (Ill.), XV, a 524
——, insignia of royalty (Map), XV, a 524
Globe, newspaper (Sainte-Beuve), XXI, b 170
GLOBE-FISH (Ill.), X, a b 611
—— -flower (Botany), IV, b 118, a 121
—— -Theatre (London), XIV, b 841, b 845, *a* 858; (Shakespeare), XXI, a 797; (Theatre), XXIII, a 243 note
Globicephalus, cetacean genus (Mammalia), XV, a 376, a 403
Globicoxæ, division (Insects), XIII, b 155
Globigerina, genus (Foraminifera) (Ill.), IX, a b 331, a b 332-4, a b 339; (Protozoa), XIX, a 860; ooze (Atlantic Ocean), III, *a* 25; (Foraminifera), IX, b 336, a b 339, a 340; (Pacific Ocean) (Ill.), XVIII, a b 126, a 127, a b 128, a 129, a b 131
Globligerinidea, order (Protozoa) (Ill.), XIX, a 870, a 871
Globoids (Histology), XII, b 14
Globulin (Chemistry), V, b 502
Glochidium, larva (Mollusca) (Ill.), XVI, b 719, a 720
Glöckner, mountain (Saxe-Weimar), XXI, a 365
GLOGAU, town, X, b 611; siege of, by Henry V., emperor (Poland), XIX, a 299
Gloger, C. W. L., naturalist (Ornithology), XVIII, a 25, note, b 27
Glomeridæ, family (Myriapoda), XVII, b 124, a 125, a 126
Glommen, river (Norway), XVII, b 589
Glonoin, Glonoin oil (Nitroglycerin), XVII, a 534
Gloria in Excelsis (Doxology), VII, b 332; (Hymns), XII, b 613, a 624; (Missal), XVI, a 532, a 534, note; Sarum version (Liturgy), XIV, b 716
Gloria Patri (Doxology), VII, *b* 332
Glories of Mary, XV, b 598
Glory. See AUREOLA, Corona
GLOSS, GLOSSOGRAPHER, GLOSSARY, X, b 611-2
Glossa Ordinaria (Canon Law), V, b 19, a 21; (Gloss), X, *b* 612; (Walafrid Strabo), XXIV, a 341 note; (Hermeneutics), XI, b 667
Glossæ Marginales (Gloss), X, b 612
Glossaire Nautique (Dictionary), VII, b 157
Glossaries (Architecture), II, a 402-19; (Pahlaví), XVIII, b 139, b 140; (Seamanship), XXI, a 632-5; Cornish (Celtic (Literature), V, a 281, a 285; Irish (Celtic Literature), b 266, b 283; Shakespearean, XXI, b 805; (Dyce), VII, b 491-2; toxophilite (Archery), II, b 330-1
Glossarists. See Gloss-writers
Glossarium ad Scriptores (Ducange), VII, *b* 435
Glossary of Cormac (Ireland), XIII, a 252
Glossators. See Gloss-writers
Glossina morsitans, species (Tsetse Fly), XXIII, a 639
Glosso-labio-laryngeal paralysis, XVIII, a b 261
GLOSSOP, town, X, a 613
Glossophaga, genus (Mammalia), XV, b 419; (Vampire), XXIV, a 59
Glosso-pharyngeal nerve (Anatomy), I, *a* 775, a *b* 787; (Physiology), XIX, b 49
Glossophora, branch (Mollusca), XVI, a 662, a 710
Gloss-poems (Iceland), XII, b 657
—— -writers, legal (Bulgarus), IV, *a* 463; (Canon Law), V, b 19; (Irnerius), XIII, b 283; (Justinian I.), b 803; (Roman Law), XX, a b 735
Glottids, sounds (Speech-Sounds), XXII, b 396-7
Glottis, vocal cavern (Voice), XXIV, *b* 293, a 294, a 295, a b 296
GLOUCESTER, county (Plate VII), X, a 613-7; Canal, IV, *b* 694; Cheese, V, a b 395; (Dairy), VI, b 680
—— city (Ill.), X, *a* b 613, *a* *b* 615-7. See Cathedral, Gloucester
——, Dominican Convent of (Abbey), I, a 27
—— Hall (Oxford), XVIII, b 101, b 102
GLOUCESTER, Mass., town, X, a 617
——, Humfrey, duke of (England), VIII, b 288, a 297; (Henry VI., England), XI, *b* 589, a 590; (Oxford), XVIII, a 98
——, Robert, red earl of (Bristol), IV, b 314-5, a 317; (Normandy), XVII, b 558
——, Thomas of Woodstock, duke of (England), VIII, a *b* 287, b 290; (Lancaster), XIV, a 257; (Richard II.), XX, *a b* 556
GLOVE, X, a 617-8; (Costume), VI, a 402, a 410; (France), IX, a 460; (Grenoble), XI, b 165; (Isère), XIII, a 396; (Worcester), XXIV, b 702; shooting (Archery), II, a 329
—— -kid (Leather), XIV, b 389-90
GLOVER, Richard, poet, X, a 618
Glover's roll (Heraldry), XI, *b* 609-10; tower (Sulphur), XXII, a 670
Gloversville, town (Glove), X, a 618
Glover trade (Shakespeare), XXI, a 781; (Wood), XXIV, b 678
Glowerow'rem hill (Linlithgow), XIV, b 675
Glow-worm (Coleoptera) (Ill.), VI, a 115, a 120; (Insect), XIII, b 149; (Phosphorescence), XVIII, a b 827
Gloxinia, plant (Horticulture), XII, b 275
Gluchow, town. See GLUKHOFF
GLUCINUM or Beryllium, metal, X, a b 618; (Beryl), III, a 530; (Chemistry), V, a b 456, *b* 457; (Spectroscope), XXII, b 390
GLUCK, Christopher Willibald, composer, X, b 618-20; (Halévy), XI, a 342; (Harmonica), b 430; (Mozart), XVII, *b* 16-7; (Music), b 101-2; (Piccini), XIX, a 88; (Wagner), XXIV, *b* 335, *a* 336
GLUCKSTADT, town, X, a 620; ducal house (Schleswig-Holstein), XXI, b 433
GLUCOSE, X, a 620; (Adulteration), I, a 156; (Chemistry), V, a 490; (Diabetes), VII, b 127; (Digestive Organs), a 199; (Fermentation), IX, a 82, b 85; (Sugar), XXII, b 655, *a* 656-7; formation in plants of (Physiology), XIX, b 61, a 62
Glucosides (Chemistry), V, a 497; (Sugar), XXII, b 656; in plants (Physiology), XIX, a b 59, a 60
Glue (Gelatin), X, a 118, a b 119, a 120; Bouxwiller's (Adulteration), I, a 156; joiner's (Building), IV, *b* 437-8
GLUKHOFF or Gluchow, town, X, a 620; (Tchernigoff), XXIII, a 103
Glume, floral (Botany) (Ill.), IV, b 108, a 109, a 121; (Grasses), XI, a *b* 49, *a b* 50, *b* 51
Glumiferæ, order (Grasses), XI, a b 49, b 51
Gluteal nerve (Anatomy), I, a 763
GLUTEN or glutin, X, a b 620; (Gelatin), a 117; (Starch), XXII, *b* 473
GLUTTON or Wolverene (Ill.), X, b 620-1; (Mammalia), XV, b 447
GLYCAS, Michael, historian, X, b 621; (Byzantine Historians), IV, a 545
Glycera, genus (Annelida), II, *a* 59, a 64
Glyceria (Grasses) (Ill.), XI, b 50
Glycerides (Chemistry), V, a 497; (Glycerin), X, *b* 621-2; formation of (Physiology), XIX, a 59, a 60
GLYCERIN or Glycerol, X, b 621-4; (Chemistry), V, b 489; (Fermentation), IX, *a* 82; (Histology), XII, a 15; (Nutrition), XVII, b 699-700; (Oils), *a* b 761; (Soap), XXII, b 213; (Wurtz), XXIV, b 739
—— Soap, XXII, b 215
Glycerius, emperor (Nepos), XVII, b 354
Glyceryl nitrate (Mining), XVI, a 465
Glycocoll (Gelatin), X, a 118, a 119
Glycogen, organic product (Diabetes), VII, b 127; (Nutrition), XVII, *b* 699, *a b* 700, *a* b 701; (Pathology), XVIII, b 394; (Physiology), XIX, a b 15
Glycols (Chemistry), V, a 488, b 489; (Wurtz), XXIV, b 739
Glycosuria (Diabetes), VII, a b 127
Glycyrrhiza, plant (Liquorice), XIV, a 694
Glyder Fawr, mountain (Carnarvon), V, a 105
Glyn, knight of (Ireland), XIII, a 267
Glyndwr. See Glendower
Glyphs (Architecture), II, a 354
Glyptodon, fossil (Mammalia) (Ill.), XV, *a* 391, b 392; (Armadillo), II, a 478
Glyptothek of Munich (Ægina), I, a 164; (Archæology), II, b 315; (Kaulbach), XIV, b 18; (Munich), XVII, a b 31; (Schwanthaler), XXI, b 481, *a* 482
Gmelin, Christian, chemist (Ultramarine), XXIII, a 769
——, Johann Friedrich, naturalist (Ornithology), XVIII, a b 11
GMELIN, Johann Georg, naturalist, X, a 624
GMELIN, Leopold, chemist, X, a 624; (Prussic Acid), XX, b 28, a 29
GMELIN, Samuel Gottlieb, naturalist, X, a 624; (Persia), XVIII, b 634, a 635; (Rasht), XX, b 298
Gmelinite (Mineralogy) (Ill.), XVI, a 440
Gmina, a political unit (Poland), XIX, *a* b 323
GMUND, town, X, a b 624

Gmunden, town and lake (Salzkammergut), XXI, *a* 253
Gmünder See, temperature of (Lake), XIV, b 219
Gnadenthal or Neudietendorf, village (Saxe-Coburg-Gotha), XXI, a 363
Gnagpa, king (Tibet), XXIII, *b* 367
GNAT, insect, X, b 624-5; (Galls), X, b 41; (Insects), XIII, a 157; (Mosquito), XVI, a 894, note, a 895
Gnathobdellidæ, family (Leech), XIV, b 400, b 401, a 403, a b 405
Gnathopoda, group (Crustacea), VI, a b 578, b 585-9
Gnathostoma, division of Vertebrata, XXIV, a 198
Gnat-scale (Microscope) (Ill.), XVI, a–b 276
Gnedich, Nicholas Ivanovitch, poet (Russia), XXI, a 115
Gneiss, rock (America), I, a 590; (Ceylon), V, *a* 314; (Geology), X, b 210, b 278-80, b 289-90; (Granite), XI, b 44; (India), XII, a b 773, b 774; (Russia), XXI, b 81; (Sweden), XXII, *b* 777
GNESEN, town, X, a 625
Gnetaceæ, order (Vegetable Kingdom), XXIV, *b* 142, a b 143
Gnetum, genus (Botany) (Ill.), IV, b 91, a 92
Gnia-heuns, tribe (Laos), XIV, a 295
Gnomic poetry (Ethics), VIII, b 507
Gnomon, a chronograph (Geography), X, *a* b 158
Gnomon, commentary (Bengel), III, a 494
Gnomonics (Dialling) (Ill.), VI, a 132-40
Gnomons, numbers (Pythagoras), XX, a b 147, note
Gnostic art (Gems), X, a 126; books (Adam), I, b 127; (Heracleon), XI, a 607; (Thomas), XXIII, b 328, a 329
GNOSTICISM, X, a 625-8
  general scope and origin of, a 625
  inchoate, a 626
  influence on Christianity, b 628
  literature, b 628
  Oriental dualism, b 627
  systematizing, a 627
—— (Alexandrian School), I, a 440, b 441; (Angel), II, a 27; (Antinomians), b 114; (Archon), a 420; (Bardesanes), III, a 320; (Basilides), b 363; (Cain), IV, b 570; (Canon), V, *a* 8; (Carpocrates), a 117; (Christianity), a 601, *b* 603; (Colossians), VI, a *b* 148; (Docetæ), VII, *a* 269; (Ephesians, Epistle to the), VIII, b 412-3; (Evolution), a 659, b 663; (Fire), IX, b 301; (Heresy), XI, a 659; (Image Worship), XII, a 750; (Irenæus), XIII, b 279, a 280; (Jesus Christ), a 681; (Logos), XIV, a 814; (Magic), XV, a 204; (Mandæans), a 475-8; (Manichæism), a 491, b 492, a 493; (Marcion), a 541, a 542; (Mohammedanism), XVI, b 615 note, a b 616; (Monachism), b 725; (Millennium), a 329; (Neoplatonism), XVII, a b 344; (Origen), a b 866; (Pastoral Epistles), XVIII, a 356; (Paul), a 434; (Valentinus), XXIV, a 43, a b 45, note
GNU (Ill.), X, a b 629; (Antelope) (Ill.), II, b 90
Gnva-khri, king (Tibet), XXIII, b 366
Go, measure (Weights and Measures), XXIV, a 518
GOA, settlement, X, b 629-30; (Camoens), IV, b 660-1; (Gama), X, b 53; (India), XII, a b 836; (Xavier), XXIV, *a* b 753, *a* 754
Goaf or waste (Coal) (Ill.), VI, a 61, b 62
Goagnazes, Indians (Brazil), IV, a b 205
Goajira, territory (Venezuela), XXIV, b 152
Goálanda, town (Brahmaputra), IV, *b* 190
GOÁLPÁRA, district, X, b 630-1; town, a 631
GOA-POWDER, X, b 630
Goascoran, river (Honduras), XII, *b* 133
GOAT (Ill.), X, a 631-3; (Agriculture), I, a 354-5; (Arabia), II, b 211, a 212; (Austria), III, a 104; (Crete), VI, b 504; (Milk), XVI, a 316; (Turkey), XXIII, b 695; cult (Sacrifice), XXI, a 144; hair of (Mohair), XVI, a b 568; Mendesian sacred (Egypt), VII, b 621; skins of (Leather), XIV, a 381, b 388, *a* 389, *b* 391; wild (India), XII, b 780
—— Island (Newport), XVII, b 416
—— Island (Niagara), XVII, b 485, a 486; (St. Lawrence), XXI, a 189
Goatfell, mountain (Arran), II, *b* 549
Goat moth (Butterflies), IV, *b* 528
—— pepper (Cayenne Pepper), V, a 244
Goat's House, pass (Hissar), XII, a 5
GOATSUCKER, bird (Ill.), X, b 633-5; (Birds), III, b 619, b 627, a 643; (Ornithology), XVIII, b 50, a 51, note. See Caprimulgidæ
Gobat, Samuel, Bishop of Jerusalem, *b.* 1799, *d.* 1879 (Abyssinia), I, a b 63, *a* 65
Gobbs, embankments (Ceylon), V, a 313
GOBELIN, family, X, a b 635
——, Balthasar, pluralist, X, a 635
Gobelin tapestry (Carpet), V, a 113; (Textiles), XXIII, a 231
Gobelins, school (Le Brun), XIV, b 396
Gobelinus, copyist (Pius II.), XIX, b 163
Gobhila, sage (Sanskrit), XXI, b 291
GOBI, desert, X, b 635-6; (Asia), II, a 600; (Hwen T'sang), XII, b 434; (Oases), XVII, a 715; (Transbaikalia), XXIII, b 541, a 542; (Turkestan), a 673; (Siberia), XXII, a 7, a 8
Gobiidæ, family (Ichthyology), XII, a 729
Gobineau, Joseph Arthur, comte de, orientalist (Shi'ites), XXII, a 700, notes
Gobir, dialect (Houssa), XII, a 332
Gobius, genus (Ichthyology) (Ill.), XII, b 675, a 676, b 715
Goblet epithelial cells (Digestive Organs), VII, b 196-7
Goblin copper (Nickel), XVII, b 500, note
GOBY, fish (Ill.), X, b 636; (Lump-Sucker), XV, b 66
Goch, Johann von, theologian (Reformation), XX, *b* 337, note
God (Anthropomorphism), II, a b 109; (Apologetics), b 166-7; (A Priori), *b* 187; (Aristotle), b 458; (Baader), III, a b 151; (Butler), IV, a 521; (Campanella), a 665; (Celsus), V, b 257-8; (Clarke), b 709-10; (Cousin), VI, b 466; (Cudworth), a b 610; (Descartes), VII, b 106-7; (Eckhart), a b 557; (Eleatic School), VIII, a b 3; (Gassendi), X, b 96; (Kabbalah), XIII, a 820; (Leibnitz), XIV, a b 423; (Metaphysic), XVI, a 97, a 99, b 104, b 106, b 107; (Mysticism), XVII, a b 138, a b 140; (Origen), a b 866, a 867; (Philo), XVIII, a b 775; (Stoics), XXII, b 598. See Jehovah. RELIGIONS, THEISM, THEOLOGY
——, Aquinas's proof of (Scholasticism), XXI, a 446; fatherhood of (Theism), XXIII, b 258; idea of (Theism), b 264, a b 268; (Theology), b 281, a 291; (Theosophy), a 298-9; immanence of (Schleiermacher), XXI, a b 429; Kant's idea of, XIII, b 863; (Metaphysic), XVI, a b 90; in the Koran (Mohammedanism), a 620, b 621; kingdom of (Theology), XXIII, *b* 296; Mohammedan conceptions of (Arabian Philosophy), II, *a* b 233, b 236; Malebranche on knowledge of (Cartesianism), V, b 130-1; and man in religion (Theology), XXIII, b 292; names of (Religions), XX, *a* b 373, notes, a 374, *a* b 375, a *b* 376, a 377; (Theism), XXIII, b 254; New Testament presentation of (Theism), b 258; personality first discussed (Scepticism), XXI, a 397; philosophical necessity of (Cartesianism), V, a 126-9; relation to ancients (Israel), XIII, a b 409; relation of existence to (Schelling), XXI, a 410; wrath of (Theism), XXIII, b 267
God in History (Bunsen), IV, a 470
——, *Proof for Existence of* (Kant), XIII, a 857, a 859
Godâla, race (Gætulia), X, b 14
GODALMING, town, X, b 636; (Surrey), XXII, *b* 729
Godard brothers, balloonists (Aëronautics), I, a b 174, a 175, a b 180
GODÁVARI or Godavery, district, X, a 637
GODÁVARI, river, X, b 636-7; (Ahmadnagar), I, b 375; (Bombay), IV, b 20; (India), XII, a 772, b 794; (Madras), XV, a b 185, b 186, b 190
Goddard, Colonel (Hastings), XI, b 459
Godefroy, Denis, Jacques and Theodore. See GOTHOFRED
Godeffroy Museum (Hamburg), XI, a 363
Godegiselus, king (Genseric), X, a 143
Goderich, Lord. See RIPON
Godescalc, monk (France), IX, a 475
Godfather, godmother. See SPONSOR
Godfrey of Bouillon, IV, b 155-6; (Crusades), VI, b 551, a 552, *a b* 553; (France), IX, a 475; (Matilda), XV, a 639
—— of Louvain, the Bearded (Brabant), IV, a 169
——, Sir Edmondbury, courtier (Oates), XVII, b 716, a 717
——, Thomas, inventor (Navigation), XVII, b 264 note (Sextant), XXI, a 761
—— of Upper Lorraine and Tuscany, duke (Stephen IX.), XXII, b 560
—— and Howson, furnace (Iron), XIII, a b 333
Godhavn, village (Greenland), XI, b 151, b 152
Godin, Louis, mathematician (Peru), XVIII, b 688
Godiva, Lady, heroine (Coventry), VI, b 470
Godjam, province (Abyssinia), I, a 62, b 63, b 65, a 66
Godmanchester, borough (Huntingdon), XII, b 413, a b 414
Godolphin, John, admiralty judge (Sea Laws), XXI, b 611
GODOLPHIN, Sidney, earl of, statesman, X, a 637-8; (Bolingbroke), IV, b 6, *a* b 7; (Clarke), V, a 709; (Oxford, Earl of), XVIII, b 103; (Sacheverell), XXI, b 139; (Swift), XXII, b 801, a 802; (Walpole), XXIV, a 356
"Godolphin Arabian" (Horse), XII, *b* 186, a b 187, b 188
Godoy, Manuel de, Duke of Alcudia, Prince of the Peace, I, a b 417; (Charles IV., of Spain), V, *b* 363; (Ferdinand VII.), IX, a 73; (Jovellanos), XIII, b 765; (Moratin), XVI, b 835; (Portugal), XIX, *b* 565, *a* 566; (Spain), XXII, *b* 356, *a b* 357, *a* 358. See ALCUDIA
Godparents. See SPONSOR

Godred the Black, king of Man, XV, *a* 461; (Scotland), XXI, b 505, b 506
——, Crovan or Mananach, king of Dublin (Hebrides), XI, a 542; (Ireland), XIII, b 260; (Man), XV, a 461
Godron, Domenique Alexandre, naturalist (Hybridism), XII, *a* 442
Gods, Of the (Protagoras), XIX, a 847
Gods, myths of the (Mythology), XVII, a 153–63
God's Gift College (Dulwich), VII, b 449
Godthaab, village (Greenland), XI, b 151, b 152
Godunoff, Boris, czar (Russia), XXI, b 101–3, b 111
Godwin, Francis, theologian, X, a 638
Godwin, Mary Wollstonecraft, novelist, X, a 638–9
Godwin, William, novelist, X, *b* 638, *a* 639–40; (Brown, C. B.), IV, a 345; (Chaucer), V, b 389; (Ethics), VIII, b 535, a 536 note; (Lytton), XV, b 123; (Mulready), XVII, a 25 note; (Political Economy), XIX, a b 384; (Shelley), XXI, b 827, *a* b 828
Godwin-Austen, Robert Alfred C. (Anthropology), II, a 102
Godwine, earl of Wessex, X, b 640–1; (Edward III.), VII, *b* 591–2; (England), VIII, a b 260, *a* b 261; (Harold I. and II.), XI, *a* *b* 434
Godwit, bird, X, a 642
Godwyn, Morgan, divine (Slavery), XXII, a 908
Goedeke, Karl, critic (Goethe), X, a b 656
Góedel, people (Ireland), XIII, b 249, a 250, a 251, note, *a* b 252, b 257, b 259, note, a 260
Goeje, M. J. de, philologist (Gipsies), X, a 546, *a* 551. See List of Contributors.
Goeree Inlet (Holland), XII, a 63, a 66
Goërius olens, beetle (Coleoptera), VI, b 118
Goes or Ter Goes, town, X, a b 642
——, Benedict, Jesuit (China), V, a 547; (Geography), X, b 163; (Kâfiristân), XIII, b 830
Goes, Hugo van der, painter, X, b 642–3
——, Jan van der, poet (Antonides), II, a 122; (Holland), XII, b 98–9
Gœthals, Henry, theologian (Scholasticism), XXI, b 447
Goethe, Johann Wolfgang von, poet, X, a 643–56
  autobiography, a 654
  bibliography, a b 656
  campaigns, a b 651
  childhood, a b 643
  closing years, a 655–6
  Faust, a b 653, a 655
  Frankfort, a 643–4, b 645, b 647, a 648
  Italy, a b 650
  journeys, a *b* 647–8, a 649, a b 650
  Leipsic university, b 643–4
  Napoleon, a 653
Goethe, Johann Wolfgang von, *continued*
  Schiller, b 651–3
  science, a 650, b 653–4
  Strasburg, b 644–5
  Weimer, first residence, a 648–9
    second residence, a 651–5
  Wetzlar and *Werther*, a 646–7
—— (Æsthetics), I, a 198; (Amalia), b 573; (Anatomy), a 718; (Arnim), II, a 545; (Cartesianism), V, a 137; (Cotta), VI, b 426, a 427; (Dante), a b 716; (Diderot), VII, b 169; (Diez), b 185–6; (Drama), *a b* 382; (Drouais), b 408; (Eckermann), a 556; (Education), a 587, a 588; (Embryology), VIII, a 152; (Euripides), a 596; (Evolution), b 655; (Fable), a 734; (Faustus), IX, a b 49; (Foscolo, Ugo), b 416; (Frankfort), b 622; (Freemasonry), a 660; (Germany), X, a b 480–2, *b* 483, a 487; (Grillparzer), XI, a b 175; (Helena), b 561–2; (Herder), *b* 650, a 651; (Illuminati), XII, b 745; (Jung), XIII, b 783, a 784
—— (Laocoon), XIV, a 293; (Lavater), a 352; (Marat), XV, a 534; (Marionettes), b 553; (Marlowe), b 563, a 564; (Mendelssohn), XVI, b 10, b 11; (Mengs), b 14; (Mephistopheles), a 34; (Mirabeau), b 520; (Morphology), a 863, a b 865, a b 866, a 868, b 871; (Oken), XVII, *a* 772, *a b* 773; (Sainte-Beuve), XXI, b 170, b 173; (Saxe-Weimar), *b* 365, note; (Schiller), *a b* 414; (Schopenhauer), a 471, a 475; (Tegnér), XXIII, a 118; (Variation and Selection), XXIV, a 84, b 90; (Weimar), *a b* 519; (Zoology), b 840, b 846; imitators of (Germany), X, b 483–4
Goethe, Life of (Lewes), XIV, a 491
Goetz, Hermann, composer, X, b 656
Goezman, Louis Valentin, magistrate (Beaumarchais), III, b 404
Gofio, food (Canary Islands), IV, a 703
"Go-frees" (Post-Office), XIX, a 602
Gog, legend, X, b 656–7
—— or Gyges, king (Lydia), XV, a 101
—— and Magog (Polo), XIX, b 422
——, effigies (Geoffrey of Monmouth), X, a 155
Gogari, river. See Gogra
Gogmagog hills (Cambridge), IV, b 647
Gogo or Ghoghá, town, X, a 657; (Ahmadábád), I, *a* 375
Gogol, Nikolai Vasilievich, novelist, X, a 657–8; (Russia), XXI, b 115, a b 116
Gogra or Gogari, river (Gonda), X, a 685; (Nepāl), XVII, b 349; (N. W. Provinces), *a* 586, *a* 587; (Oudh), XVIII, a 75; (Sitápur), XXII, *a* 110
Gohad, state (Dholpur), VII, *a* 127
Gohak, town (Belgám), III, b 413
"Gohanna" (Horse), XII, a 188
Gohar el Káïd, Abu-l-Hoseyn, general (Egypt), VII, a b 651
Gohier, Louis Jérôme, director (Napoleon I.), XVII, b 208, a b 209
Goidelic romances (Celtic Literature), V, b 278–9
Goidelica (Celtic Literature), V, b 283
Goidels or Gaels, race (Ireland), XIII, b 249, a 250, a 251, note, *a* b 252, b 257, b 259, note, a 260; (Pembroke), XVIII, a 493; (Scotland), XXI, b 495, b 502, b 507
Going barrel mechanism (Watch), XXIV, b 415
—— ratchet (Harrison), XI, a 442
Goito, village, X, a 658
Goitre, disease, X, a 658–9; (Cretinism), VI, b 506–7; (Mercury), XVI, b 39; (Pathology), XVIII, b 392, a b 393, a 394 note
Go-Kinai, provinces (Japan), XIII, a b 579
Gök Irmak, river (Asia Minor), II, a 618
Göklen, tribe (Turks), XXIII, a 703
Gök Su, river (Asia Minor), II, a 619; (Cilicia), V, b 678
Goktcha lake (Transcaucasia), XXIII, *b* 546, b 547
Golad, clan (Lithuanians), XIV, a 708
Golan, district (Bashan), III, b 353, a 354
Golborne, John, engineer (Glasgow), X, b 570–1
Golconda, kingdom (Hindustani Literature), XI, b 756; (India), XII, a 833, *b* 834, b 838
Golconda, city, X, a 659; (Hyderabad), XII, *a* 445
—— mines (Diamond), VII, b 141; (India), XII, a 805; (Mineralogy), XVI, b 396
Gold, metal (Ill.), X, a 659–70
  alloys, b 668–9
  amalgamation, a 665–6
  ancient metallurgy, a 659, b 666
  assay, a 669–70
  brittle and pure gold, b 667–8
  chlorination, a 666
  distribution, a 660–2
  dressing vein-ore (Ill.), b 664–5
  placer mining (Ill.), a 663–4
  properties, a 659–60
  proportion in deposits, b 662–3
  refining, b 666–7, a b 668
  statistics, b 662
  toughening, b 667–8
—— (Achín), I, b 90; (Africa), a 222, a 226; (Alchemy), *a* b 410, a 411, b 413; (America), a 597; (Assam), II, b 629; (Austria), III, b 104, a 105; (Ballads), b 245; (Bambouk), b 264; (Bolivia), IV, a b 13; (Borneo), a 51; (Brazil), a 202; (Bromine), b 326; (Bullion), a 464–5; (California), a 621; (Canada), a 686, b 687; (Chemistry), V, a b 458–9, a 465; (China), a 567; (Chutiá Nágpur), a *b* 671, a 672; (Colombia), VI, b 133; (Colorado), a b 146; (Columbia, British), b 151, a b 152; (Columbus), b 156, b 157; (Costa Rica), b 398; (Cuba), b 601
—— (Elasticity), VII, b 690, b 691, b 708, a b 709; (England), VIII, b 207–8; (Finance), IX, b 163; (Germany), X, b 408; (Georgia), a 392; (Gold Coast), a b 673; (Guiana), XI, b 221, a b 224, b 225–6; (Hayti), a b 486; (Ireland), XIII, b 223–4; (Japan), a b 582; (Malay Peninsula), XV, a 324; (Masaya), a 614
—— (Mexico), XVI, b 907–9; (Mineralogy) (Ill.), b 358, *b* 363, a 365, a 385, b 387, a 388, a b 398, b 408, b 409, a 410; (Mining), b 487, a 489–94; (Money), a 750; (Montana), a b 800; (Mural Decoration), XVII, b 53; (Nertchinsk), b 361; (New Brunswick), a 383; (New Mexico), *b* 410; (New South Wales), b 419; (New Zealand), a b 481; (Nicaragua), b 491; (North Carolina), a 574, a 575; (Nova Scotia), b 616; (Nubia), a 626; (Numismatics), b 661, b 677; (Oregon), a b 846; (Queensland), XX, b 179; (Russia), XXI, b 93; (Shwe-gyeng), a 889; (Siberia), XXII, a 9; (Tasmania), XXIII, b 79, a 80; (Texas), b 221; (Turkestan), *b* 679; (United States), b 830; (Ural Mountains) XXIV, a 8, *a* 10; (Venezuela), *a* 152; (Victoria), b 233–4, a 236; (Western Australia), b 535; (Yeniseisk), a b 779, b 780
——, action of light on (Photography), XVIII, b 852
—— alloys (Assaying), II, *b* 633; (Platinum), XIX, b 202
Goldast, Melchior Haiminsfeld, historian, X, b 671–2
Goldbeating, X, a 670; (Hammer), XI, a 380
Goldberg, town, X, a 672; school (Trotzendorff), XXIII, a 626
Gold chloride (Photography), XVIII, b 836; cloth (Textiles), XXIII, a 228.
Gold Coast, X, a 672–3; (Africa), I, a 241; (Dahomey), VI, a b 674; (Mining), XVI, a 491; (Ivory Coast), XIII, a 535
—— coinage (Adulteration), I, a 160; (United States), XXIII, b 881; British (Mint), XVI, a b 505
—— cyanide (Prussic Acid), XX, b 28
—— discoveries (Cairnes), IV, a 571; (California), *a* 616; (Commerce), VI, a b 184

Gold filling (Dentistry), VII, a b 86
—— imports (India), XII, b 796–7
—— mines (Auckland), III, b 59; (Australia), *b* 94, a 95, b 99; California, IV, a 621–2; (America), I, a b 628; (Celebes), V, a 250, *a* 252; (Chili), *b* 540; (China), V, b 553; (India), XII, a b 804; (Khotan), XIV, a b 69; (Lanark), b 251; (Leadville), b 379; (Lhasa), b 500; (Melbourne), XV, a 847; (Mozambique), XVII, b 13, a 14; (Queensland), XX, a b 179; (Siam), XXI, b 890; (Siberia), XXII, a 15, b 17; (Siphanto), *a* 103; (South Carolina), a 302; (South Australia), b 298; (Sumatra), a 672; (Thasos), XXIII, a 240; (Tomsk), a b 467; (Transbaikalia), a 543; (Transvaal), b 550, a 552; (Transylvania), a 555; (Washington), XXIV, a b 407; (Yakutsk), *b* 761, *a* 763; (Zacatecas), b 799
—— mining, rise of (United States), XXIII, b 863, *a* 864; ore (Selenium and Tellurium), XXI, a b 664
—— ornaments (Archæology), II, b 296, a 297, a 306
—— Pens, XVIII, a b 494; (Mineralogy), XVI, a 399; plate (Adulteration), I, a b 160; plating (Iron), XIII, b 367
—— rings, Egyptian (Weights and Measures), XXIV, a 514, b 515
Gold and silver product (United States), XXIII, b 867–8, b 870; relative values of (Numismatics), XVII, b 646; (Weights and Measures), XXIV, b 509
—— thread (Textiles), XXIII, a 228
Golden age (Anthropology), II, a b 107
—— apples (Hesperides), XI, a b 695
Golden Ass (Apuleius), II, a b 188, a 189; (Romance), XX, b 652
—— *Book of the Capitol* (Italy), XIII, b 477
GOLDEN BULL, X, b 673–4; (Charles IV.), V, a 358; (Frankfort), IX, a b 623; (Germany), X, a 444; (Hungary), XII, b 382, a 385; (Nuremberg), XVII, b 682
—— calf, legend of (Jew, Wandering), XIII, a 685
—— Candlestick, IV, a 710
—— Chersonese or Aurea Chersonesus or Chryse Chersonesus (Malay Peninsula), XV, a 326; (Ptolemy), XX, a 100
—— or Kin dynasty (China), V, b 545, b 561–2
—— Eagle (Ill.), VII, a b 510
"*Golden Epistles*" (Guevara), XI, b 220
GOLDEN EYE, duck, X, b 674–5; (Morillon), XVI, b 850
—— Fleece of Colchis (Chemistry), V, a 398; (Argonauts), II, a b 437; (Jason), XIII, b 606; (Medea), XV, a 787
—— Fleece, order of knighthood (Bruges), IV, b 355; (Ghent), X, a 504; (Holland), XII, a 76; (Knighthood), XIV, a 123; (Lille), a 649; (Spain), XXII, b 318
—— Gate (Constantinople), VI, b 270 note
—— Gate, San Francisco (California), IV, *b* 617; (United States), XXIII, a 857
Golden Grove, prayer manual (Taylor), XXIII, *b* 100
—— Hind, ship (Drake), VII, a 338; (Geography), X, a b 165
—— Horde (Mongols), XVI, a 773, b 774, a 775; (Russia), XXI, *a* 99, a 100; (Uralsk), XXIV, a 11
—— Horn, harbor (Byzantium), IV, b 546; (Constantinople), VI, b 269; (Maritime Province), XV, a 556; (Vladivostock), XXIV, b 291
—— House (Nero), XVII, a 359, b 360; (Rome), XX, b 828, a 850, notes
—— Khan (Mongols), XVI, *a* 771
—— or Borromean League (Switzerland), XXII, a 830
Golden Legend (English Bible), VIII, b 343 note, a 347 note; (English Literature), a 369; (Longfellow), XIV, a 872, b 873; (Voragine), XXIV, *b* 317, note; Caxton's (Philadelphia), XVIII, a 754
—— legends (Ethnography), VIII, a 548
—— Mole, XVI, a 632 note; (Mammalia) (Ill.), XV, a b 409, *b* 424
—— mosque (Gaur), X, b 103, a 104
—— number (Astronomy), II, a 653; (Calendar), IV, b 594, *a* b 596–7; how found (Calendar), b 599–601
—— Oriole, bird (Icterus), XII, b 735
—— Plover, XIX, a b 239
—— *Poems* (Mo'allakát), XVI, b 559
—— queen, flower (Mignonette), XVI, b 301
GOLDEN ROSE, X, a 675
—— Rule (Confucius), VI, a b 234; negative (Ethics), VIII, a 527 note; (Ethnography), b 548
—— syrup (Sugar), XXII, a 661
Golden Targe, The (Dunbar), VII, *a* 460
—— Tent (Mongols), XVI, a 773; Vale or Vein (Limerick), XIV, b 655; (Ireland), XIII, b 224
Goldene Aue, valley (Nordhausen), XVII, b 548; (Saxony), XXI, b 375
GOLDFINCH, bird, X, a b 675; (Siskin), XXII, a 107
GOLDFISH (Ill.), X, b 675; (Ichthyology), XII, *a* b 703
Goldfussia, plant (Botany), IV, b 80, b 130
GOLD HILL, town, X, b 675–6; (Nevada), XVII, a 378
Golding, Arthur, poet (Shakespeare), XXI, a 778
GOLDINGEN, town, X, a 676
GOLD LACE, X, a b 671
—— -Medal boiler (Horticulture) (Ill.), XII, a b 234, a 235
—— mountain (Sumatra), XXII, b 671
GOLDONI, Carlo, dramatist, X, a b 676; (Drama), VII, a 361, *a* b 362; (Italy), XIII, a 523; (Moratin), XVI, b 835
GOLDSCHMIDT, Hermann, painter, X, b 676
——, Johann, divine. See AURIFABER
——, Meyer Aron, journalist (Denmark), VII, a 82
Goldsinny, fish (Wrasse), XXIV, *a* 722
Goldsmid, Sir Frederic J., general (Persia), XVIII, b 629, b 630, b 659 note, a 665
GOLDSMITH, Oliver, author, X, b 676–80; (Cumberland, R.), VI, b 621, *a* 622; (Drama), VII, b 378; (Edgeworth, R. L.), b 568; (English Literature), VIII, a b 382, a 384; (Marivaux), XV, b 558; *Life of* (Forster, J.), IX, b 369
"Goldsmith's Maid" (Horse), XII, *a b* 209
Goldsmiths (Banking), III, b 272, a 273; (Finance), IX, a 158
Goldsmith's Company, VI, b 199, a 200; (Adulteration), I, a *b* 160; (Mint), XVI, b 506
GOLDSTUCKER, Theodor, orientalist, X, b 680
Gold-Thori (Iceland), XII, a 659
Goldwell, James, bishop, statue (Costume), VI, a 409
Gold Wire, XXIV, *a* 648
Goletta, port (Tunis), XXIII, b 660, a b 661, a 662
GOLF, Goff or Gouff, game, X, b 680–3
Goliardic poetry (Renaissance), XX, a b 395
Golias Episcopus (Map), XV, b 530
Goliath, giant (David), VI, b 736, a 737
Golilla, collar (Velazquez), XXIV, a 146 note
Golitzin, Vasilii, statesman (Russia), XXI, *a* 105
GOLIUS, Jacobus, orientalist, X, b 683; (Apollonius), II, b 164
Golkonda. See Golconda
Gollenberg, mountain (Köslin), XIV, a 144
GOLLNOW, town, X, b 683
GOLNITZ or Göllnitz, town, X, b 683
Golo river (Corsica), VI, a 389
Golovinschtchina, town (Penza), XVIII, b 525
GOLOVNIN, Vasily Mikhailòvich, admiral, X, b 683
Golspie, burgh (Sutherland), XXII, a 764, *a* 765
Goltsy, bald summits (Siberia), XXII, b 7, b 11
GOLTZ, Bogumil, satirist, X, a 684
——, Kolmar von der, Baron, soldier (War), XXIV, a 374, b 378, a b 383
——, Friedrich L., biologist (Physiology), XIX, b 47, a 48; (Touch), XXIII, b 511
——, Von der, captain (Heinse), XI, b 560
GOLTZIUS, Hendrik, painter, X, a b 684
Golunda, genus (Mouse), XVII, b 11
Golzermühle, mills (Grimma), XI, a 180
Gomal, river (Afghânistân), I, b 206
Gomara, district. See KAFFA
Gomarists, party (Barneveldt), III, b 327; (Grotius), XI, b 194
GOMARUS or Gomar, Francis, theologian, X, b 684; (Dort, Synod of), VII, a 324; (Holland), XII, b 81
Gomates, pseudo-Smerdis (Cambyses), IV, a 649
Gombe, city (Soudan), XXII, b 292
Gomberville, Le Roy de, novelist (Romance), XX, a 676
Gombroon, town (Bender-Abassi), III, a 481; (Ormus), XVII, b 882; (Persia), XVIII, b 649, b 655; ware (Pottery and Porcelain), XIX, b 640
Gomel, town (Homel), XII, b 111
GOMER, Biblical name, X, b 684–5; (Hosea), XII, *a* 310; (Lydia), XV, a 101
Gomera island (Canary Islands), IV, *b* 702, b 706
Gomez, Diogo, navigator (Geography), X, a 161
——, Antonio Enriquez, dramatist. See ENRIQUEZ GOMEZ
Gomme, G. L., historian (London), XIV, b 852
Gomorrah, destruction of (Dead Sea), VII, a *b* 4–5
Gompa, town (Niger), XVII, b 510
Gompers, Samuel, economist (Workingmen, U. S.), XXIV, b 919, a 921
Gompertz' law of mortality (Annuities), II, b 76–7
Gomphi, pass (Thessaly), XXIII, b 319
Gomphina, insects (Dragonfly), VII, b 333, a 334, a b 336
Gomuti (Fibres, Textile), IX, a 116
Gonads (Mollusca), XVI, a 656, a 657, a 658, a 659, a 682, a 683, b 685, a 686, b 688, a b 707, a 708, b 710, b 719. See Generative Organs
Gonaive, gulf and island (Hayti), XI, a 485
Gonaives, town (Hayti), XI, a 485
Gonangia (Hydrozoa), XII, b 594, b 595
Goncharoff, Ivan A., novelist (Russia), XXI, a 116
GONDA, district, X, a 685; town, a 685
GONDAR or Guendar, town, X, a b 685; (Abyssinia), I, *b* 63
Gondar-arbeb, measure (Liberia), XIV, a 508
Gondebald, king, Burgundy (Duel), VII, b 441
Gondemar, bishop (Montserrat), XVI, a 824

Gondibert, tragedy (Davenant), VI, *b* 735
Gondokoro, town. See ISMAILIA
Gondola, boat (Venice), XXIV, b 170
——, Giovanni, poet (Gundulitsch), XI, b 246
Gondomar, ambassador (Buckingham, Duke of), IV, *a* 375
Gondophares, king (Persia), XVIII, b 613-4; (Thomas), XXIII, b 328
Gonds, tribe (Bilaspur), III, a b 580; (Dance), VI, b 703, a 704; (Funeral Rites), IX, a b 724; (Gondwána), X, b 685, a 686; (India), XII, a b 816, *a* 818; (Lalitpur), XIV, *b* 226
GONDWÁNA, district, X, b 685-6; mountains (India), XII, b 774-5
Gonepteryx, genus (Butterflies), IV, b 529
Gonfalonier, title (Farnese), IX, a 33; (Italy), XIII, a 487; (Rome), XX, b 810, a 811, b 819
GONG, instrument of torture, X, a 686; (Bronze), IV, a 330
Gongo Soco, mine (Brazil), IV, a 202
GONGORA Y ARGOTE, Luis de, poet, X, a b 686; (Spain), XXII, *a* b 371; school (Gracian), XI, a 25
Goniatite shales (Geology), X, b 302
Gonidia (Botany) (Ill.), IV, a b 96, b 145; (Fungus), IX, b 733-4; (Lichens) (Ill.), XIV, a *b* 555, a 559-61; (Parasitism), XVIII, a 273
Gonidial grooves, Anemone (Corals), VI, a 328
Gonidimia (Lichens), XIV, *b* 559
Gonimia (Lichens), XIV, *b* 559
GONIOMETER, X, b 686-7; (Light), XIV, b 590; (Mineralogy) (Ill.), XVI, b 375-6; (Optics), XVII, a 824
Goniophyllum (Corals), VI, a b 338, a 339, a b 340, a 341
Gonium (Protozoa) (Ill.), XIX, b 880, b 882
Gonophors (Hydrozoa), XII, *a* 587
Gonorhynchidæ, fishes (Ichthyology), XII, a 732
Gonorrhœa, disease (Surgery), XXII, a b 721
Gonostoma, fish (Ichthyology), XII, a 723
Gonozooids of doliolum (Tunicata), XXIII, b 654
Gonsalvez, Joam, explorer (Fernandez, A.), IX, a 87
Gonsalvi, Ercole, cardinal. See CONSALVI
Gonsalvo de Cordova, general. See GONZALO FERNANDEZ Y AGUILAR
Gonyleptides, genus (Arachnida), II, b 243, a 244, b 245
GONZAGA or Gonzugue, Italian family, X, a 687; (Guastalla), XI, b 211
——, Anna, princess-Palatine, X, a 687
——, Carlo I., duke of Nevers, X, a 687
——, Carlo IV., last duke of Mantua, X, a 687
——, Ercole de, cardinal (Trent, Council of), XXIII, b 583, b 584, a 585, a 586; (Veronese), XXIV, b 187
——, Ferdinand I. of Guastella, duke, X, a 687
——, Frederick I., duke, X, a 687
——, Frederick II., duke, X, a 687; (Pippi), XIX, a 122
——, Giovanni Francesco I., marquis, X, a 687
——, Giovanni Francesco II., duke, X, a 687
——, Ludovico I., duke, X, a 687
——, Ludovico II., marquis, X, a 687; (Mantegna), XV, a 509
——, Ludovico III., the Turk, X, a 687
GONZAGA, Thomaz Antonio, poet, X, b 687
——, Vincenzo I., duke, X, 687; (Crichton), VI, *a* 511; (Rubens), XXI, a b 47; (Tasso), XXIII, b 84
Gonzago, Ferrante, governor (Farnese), IX, a 33
Gonzales, Diego, poet (Spain), XXII, b 374
——, Fernan of Castile, count (Spain), XXII, *b* 326, a b 328, b 367
——, Sebastian, pirate (Noákhálí), XVII, a 538
GONZALO DE BERCEO, poet, X, b 687-8; (Spain), XXII, *b* 367
GONZALO FERNANDEZ Y AGUILAR or Gonsalvo de Cordova, the Great Captain, X, a b 688; (Army), II, a 536
Gonzalvi or Gondisalvus, Dominigo, archdeacon (Scholasticism), XXI, a 444
Gooch's link-motion (Steam-Engine) (Ill.), XXII, a 526
Good, The (Æsthetics), I, a 192, b 193, *a* 194, b 195, a 196, a 199; (Ethics), VIII, a 506-7; (Hutcheson), XII, a 424, a b 425; (Jouffroy), XIII, b 764; (Neoplatonism), XVII, a 345; (Psychology), XX, a 90; (Schleiermacher), XXI, b 430; (Scholasticism) a 447; (Socrates), XXII, b 249, b 250, a 251; (Stoics), b 596-7; (Xenocrates), XXIV, a 755
GOOD, John Mason, author, X, b 688
Good bye (Salutations), XXI, b 249
Goode, George Brown, naturalist (Pisciculture), XIX, b 138; (Sword-Fish), XXII, b 843; (Smithsonian), a 915, *a* 916
Goodeniaceæ, plants (New South Wales), XVII, b 420
Goode's spinner (Rope), XX, b 867
GOOD-FRIDAY, fast, X, b 688-9
Good Hope, cape. See Cape of Good Hope
Goodman's Fields, theatre (Garrick), X, *b* 75
Good-natured Man, play (Goldsmith), X, b 678, a 679
Goodness. See Good
Goodness, How one may be Conscious of Progress in (Plutarch), XIX, a 245
Goodramgate (York), XXIV, b 787
GOODRICH, Samuel Griswold, book-maker, X, b 689; (Hawthorne), XI, *a* 480; (Trumbull), XXIII, b 944; (Willis), XXIV, *b* 900
Goods, technical term (Brewing), IV, a 245
Good Samaritan (Rembrandt), XX, a 388
"Good Shepherd" (Gospels), X, b 743-4
GOODSIR, John, anatomist, X, b 689-90; (Anatomy), I, *b* 717, *a* 718, *b* 740, a 744, a 748, a b 750, b 772, a 782; (Crustacea), VI, b 571, b 572
Goodsiria, genus of Tunicata, XXIII, a 657
Goodsir's dental groove (Digestive Organs), VII, a 204
Goods traffic, railway (England), VIII, b 215; (Railway), XX, a 237-9
Good Templars, order (Temperance), XXIII, a *b* 175
Good-will (American Journalism), XVII, b 890
Goodwin sands (Kent Co.), XIV, b 38
——, Ichabod, governor (United States), XXIII, a 822
GOODWIN, Thomas, divine, X, b 690-1; (Independents), XII, b 764, a 765, a 766
Goodwood races (Horse), XII, *a* b 206, a 207
Good Words, magazine (Macleod), XV, b 164-5
Good works, maxims for (Monachism), XVI, a 730
Goodwyn, Henry, mathematician (Tables), XXIII, b 12, a 13
Goodyear, Charles, inventor, *b.* 1800, *d.* 1860 (Globe), X, a 611; (Patents), XVIII, b 882; (United States), XXIII, a 817
Googe, Barnabe, poet (Agriculture), I, b 264; (Pastoral), XVIII, b 350
Googul, drug (Myrrh), XVII, a 129
Gooiland, district (Holland), XII, *a* 65, note, a 70
Goojarat, district (Gujrát), XI, a b 242
Goojranwala, district. See Gujranwala
GOOLE, town, X, a 691
Goorgaon, district. See GURGAON
Goorkas or Goorkhas, race (China), V, a 565; (Garwhal), X, b 72; (Hastings), XI, b 461-2; (Hindur), b 749; (India), XII, b 844, a 850; (Lhasa), XIV, b 497; (Nepāl), XVII, *a b* 350, *b* 351, b 352, *b* 353
Goorkha knife (Sword), XXII, a 841
Goosander, bird (Merganser), XVI, a 40
GOOSE, bird, X, a 691-3; (Acclimatization), I, a 82; (Birds), III, a 617, a 630, b 633, b 634; (Hybridism), XII, a b 441, note; (Lincoln), XIV, b 661; (Poultry), XIX, b 667; (Zoology, American), XXIV, b 924
—— bay (Labrador), XIV, a 176
GOOSEBERRY, plant, X, a 693-4; (Botany) (Ill.), IV, b 102, b 130, b 134, *a* 135, *a* 138; (Horticulture), XII, a b 281
Goosefoot, plant (Botany) (Ill.), IV, a 114
Goose Land (Nova Zembla), XVII, b 619, a b 620
Goose-skin (Anatomy). I, a 789; (Copal), VI, a 304
Goossens on caterpillars (Butterflies and Moths), IV, a 528
Gopatha-brahmana (Sanskrit), XXI, b 293, note
Gopher, rodent (Zoology, American), XXIV, b 923. See Geomys
GOPHER, tortoise, X, a 694
Goplo lake (Poland), XIX, a 319
GOPPINGEN, town, X, a 694
Gopura, pyramid (Combaconum), VI, a 160
Gorah, musical instrument (Hottentots), XII, b 324
GORAKHPUR, district, X, a b 694; city, b 694
GORAMY or Gouramy, fish (Ill.), X, b 694; (Ichthyology), XII, b 729
Göran Persson, courtier (Sweden), XXII, b 786
Gorboduc, tragedy (Drama), VII, a 370
Gorchans, poems (Celtic Literature), V, b 275
GORCUM or Gorkum, town, X, b 694-5
Gordian, emperors. See Gordianus
—— knot (Alexander the Great), I, a 426; (Gordium), X, a 695
GORDIANUS or Gordian, Marcus Antonius Africanus, emperor, X, a 695; (Philostratus), XVIII, a 810
—— II., Marcus Antonius Africanus, emperor, X, a 695
—— III., Marcus Antonius Pius, emperor, X, a 695; (Calpurnius), IV, b 630; (Persia), XVIII, a 619
GORDIUM, town, X, a 695
Gordius, genus (Nematoidea), XVII, b 333, a b 334, note; (Parasitism), XVIII, a b 264
—— of Phrygia, king (Gordium), X, a 695
GORDON, Alexander, antiquarian, X, b 695; (Alexander VI.), I, a b 431, b 433; (Antoninus, Wall of), II, *a* 123
——, Andrew, physicist (Electricity), VIII, a b 6
——, Bernard, physician (Medicine), XV, a 817; (Phrenology), XVIII, b 857
——, Catherine, beauty (Byron), IV, *a* b 538, b 539; (Scotland), XXI, b 518
——, Charles George, general, *b.* 1833, *d.* 1885 (China), V, a 552, b 556; (Egypt), VII, b 665; (Nile), XVII, a 519, a 520; (Sepulchre), XXI, a 705, note; (Shanghai), a 809; (Slavery), XXII, b 152

- GORDON, George, Lord, politician, X, b 695-6; trial of (Erskine, Baron), VIII, a 469; (Kenyon), XIV, a 47
- GORDON, Sir John Watson, painter, X, a b 696
- GORDON, Patrick, general, X, b 696
- Gordon's formula (Strength of Materials), XXII, b 638-9
- ——, L., fuel tables (Iron), XIII, a b 348
- —— process, R. Manners (Photography), XVIII, a 840
- Gore, balloon (Aëronautics), I, b 186
- GORE, Catharine Grace, novelist, X, b 696-7; (Wentworth), XXIV, a 891
- ——, Christopher, governor (Libraries), XIV, a 534
- ——, George, scientist (Chemistry), V, b 425, a b 427; (Electrolysis), VIII, b 102, b 103
- Gore-Booth, Sir Henry, explorer (Polar Regions), XIX, a 337
- GOREE, island, X, a b 697; (Senegambia), XXI, b 693, *a b* 694, a 695; town (Senegal), XXI, b 692, *a* 693
- *Gore ot Uma*, comedy (Griboyedoff), XI, b 173; (Russia), XXI, b 115
- Gore's railway (Electricity), VIII, b 55
- Gorey, town (Wexford), XXIV, *a* 550
- Görgei, Arthur, general (Austria), III, *b* 119, a 120; (Hungary), XII, b 386, *a b* 387, a 388, b 389
- Gorges, Sir Ferdinando, proprietor (Lucan), XV, a 38, a 39; (Maine), b 303; (New Hampshire), XVII, a 403
- Gorget (Costume), VI, *b* 413
- Gorge tackle (Angling), II, *a* b 33
- GORGIAS of Leontini, rhetorician, X, b 697; (Greece), XI, a 127; (Rhetoric), XX, b 523; (Scepticism), XXI, *a* 396; (Sicily), XXII, a b 22; (Sophists), b 277, a b 278, *a* b 281, a *b* 283; (Zeno), XXIV, b 817
- *Gorgias* (Plato), XIX, b 207, b 208, b 214-5, b 217
- GORGON, myth, X, b 697-8; (Perseus), XVIII, a 572
- Gorgona, island (Italy), XIII, a 450
- Gorgonidæ, family (Actinozoa), I, b 120, a 121; (Corals), VI, a 342, a 343
- Gorgonzola cheese (Italy), XIII, b 461
- Gorham controversy (Pusey), XX, *a* b 123; (Stanley), XXII, b 470
- GORI, town, X, b 698; (Transcaucasia), XXIII, b 547
- Gorilla (Ape) (Ill.), II, a b 131, a 132, b 137, b 138, *a* 139, a 140, *a* b 141, *a b* 142, *a* b 143, *a* 144, a 145; (Hanno), XI, a 398; (Negro), XVII, a 326 note; comparative view of (Anthropology), II, b 95-6
- Goritsa or Ghiorghia, town. See KORITSA
- Gorkhas, Gorkhalis or Gúrkhas, race. See Goorkas
- Gorkum, town. See GORCUM
- ——, General van, engineer (Surveying), XXII, b 746-7
- GORLITZ, town, X, b 698-9
- Gorm the Old, king (Denmark), VII, a 74
- Gormara, country (Kaffa), XIII, a 825
- Gormflaith, queen (Ireland), XIII, b 259, and note
- Gormogones, secret society (Freemasonry), IX, b 658
- Gorni-Mahlé, locality, (Shumla), XXI, *a* 888
- Gornu or Ngornu, town (Bornu), IV, a 55
- Gorob-lagodatsk, mountains (Ural Mountains), XXIV, a 8
- Gorordische, mines (Lugansk), XV, a 62
- Gorodishtche, town (Penza), XVIII, b 525
- Gorods, districts (Moscow), XVI, b 883
- Gorokhovaya, street (St. Petersburg), XXI, a b 201
- Gorontalo, department and bay (Celebes), V, *b* 251, a 252
- GORRES, Joseph Johann, controversialist, X, a b 699; (Newspapers), XVII, b 439
- Gorrichategui, bishop (Peru), XVIII, b 689
- Gorse. See FURZE
- Gorsedd or assembly (Eisteddfod), VII, a b 686, note, a 687
- Gort, village (Galway), X, b 51, *a* 52
- Gortho, town. See CORINTH
- GORTSCHAKOFF, Mikhail Dimitrievich, general, X, a 700
- ——, Petr Dimitrievich, general, X, b 699-700
- GORTYNA or Gortyn, city, X, a 700; (Crete), VI, a 505; (Numismatics), XVII, b 648, a 661
- GORZ or Görtz, district, X, a 700-1; town, b 700-1
- ——, George Heinrik, baron von (Charles XII.), V, *b* 365
- ——, Johann Eustach, count of Schlitz (Goethe), X, b 647, b 648
- Gosain Than, mountain (Nepal), XVII, b 349
- Goschen, George Joachim, debt-collector (Arbitrage), II, b 273; (Banking), III, a 290; (Egypt), VII, b 682
- Goschenen, town (Uri), XXIV, a 16
- GOS-HAWK, bird, X, a 701; (Falconry), IX, b 11, *a* b 12
- GOSHEN, district, X, a b 701; (Rameses), XX, b 277
- Gosia, Martinus, jurist (Bulgarus), IV, a 463
- GOSLAR, town, X, b 701
- Goslarite (Mineralogy), XVI, a 418
- GOSLICKI, Wawrzyniec, bishop, X, b 701-2
- Gosnold, Bartholomew, explorer (Smith), XXII, b 184, *a* 185; (United States), XXIII, a 777
- *Gospel* of Bartholomew, III, a 348. See BARTHOLOMEW
- —— *The Fourth*, X, a 728-47; (Lücke), XV, b 59; (Nonnus), XVII, a b 547; (John, Epistles of), XIII, b 718. See JOHN, Gospel of St.
- ——, *Hebrew*, X, b 727-8; (Apocrypha), II, b 161. See *Hebrews, Gospel of the*
- —— *of Judas* (Gnosticism), X, a 627
- Gospel and Law (Lutherans), XV, a 86
- ——, Pauline statement of the (Paul), XVIII, a 435 *sq.*
- —— *According to Peter*, XVIII, a 710. See PETER
- GOSPELS, X, a 702-49
  - FOURTH GOSPEL, a 728-47
    - analysis of, b 738-47
    - Apostolic fathers, a b 730
    - authorship, a 728-9
    - Bethesda pool, a 741
    - criticism, history of, a 749
    - disciples, call of, b 738
    - Epistles of John, comparison with, a 737-8
    - evidence, external, a 728-33
    - evidence, internal, b 733-8
    - faith doctrine, b 741-2
    - Galilean journey, b 740-1
    - "Good shepherd" parable, b 743-4
    - Ignatius, evidence of, a 731
    - irony of, a 743
    - Jacob's well, dialogue at, a b 740
    - Justin Martyr, evidence of, b 730, b 731-2
    - light doctrine, a b 743
    - Logos of Justin and Philo, a 732-3
    - miracles of, b 738-9, b 744
    - Papias, evidence of, b 729
    - Peter's confession, a b 742
    - Polycarp, evidence of, a b 731
    - resurrection, b 746-7
    - revision hypothesis, b 728-9
    - Spirit, doctrine of the, b 744-6
    - Synoptic narrative compared, b 733-6
    - Temple prediction, a b 739
    - water doctrine of, b 739-40, b 742-3
  - SYNOPTICAL GOSPELS, a 702-28, b 747-9
    - Apostolic fathers, evidence of the, a 724-5
    - criticism, history of, b 747-9
    - date of the, b 722-3
    - Epistles, quotations in the canonical, b 723-4
    - evidence, external, b 723-8
    - evidence, internal, a 702-23
    - Hebrews, Gospel of the, b 727-8
    - Justin Martyr, evidence of, b 726-7
- GOSPELS, *continued*
  - SYNOPTICAL GOSPELS
    - language of the original tradition, a 721-2
    - Luke, introductory part, a 720-1
    - Luke, omissions of, a b 708
    - Luke, his peculiar additions to the tradition, b 716-7
    - Luke, peculiarities of, 718-21
    - Luke, style of, b 717-8
    - Mark and Luke, their common additions to the tradition, b 708-9
    - Mark, originality of, a b 702
    - Mark, his peculiar additions to the tradition, b 712-4
    - Matthew and Luke, their common additions to the tradition, a 709-12
    - Matthew and Mark, their common additions to the tradition, a 707-8
    - Matthew, his peculiar additions to the tradition, b 714-6
    - original sources, b 702-4
    - Papias, evidence of, a 725-6
    - tradition, nature of the triple, b 704-7
    - tradition, triple, a 702-7
    - translation hypothesis, a b 722
    - See APOCRYPHA and BIBLE

- —— (Baur), III, a *b* 388, a 389; (Bible), b 555-6; (Jesus Christ), XIII, b 667, a 669, a 670-1, a b 672 notes, a 674, a 681; (Tatian), XXIII, b 87, a 88; (Syriac Literature), XXII, a b 864, b 865
- ——, harmony of (Jesus Christ), XIII, a 683
- *Gospels of Juvencus* (Celtic Literature), V, a 273
- ——, manuscripts of (Cividale), V, a 696; (Rossano), XX, a 878; Irish (Palæography), XVIII, a b 162; Lindisfarne (English Bible), VIII, a 342; (Palæography) (Ill.), XVIII, *b* 162, a 163; Venetian St. Mark's (Paper), a 222; Vercelli (Palæography), a 157. See Codex
- ——, paraphrases of (Clarke), V, b 708; primitive forms of (Canon), V, *a b* 8, a 9; swearing by (Oath), XVII, b 719, *a* 720
- *Gospel Sonnets*, R. Erskine (Hymns), XII, a b 628
- ——, *Trnov* (Slavs), XXII, b 158
- GOSPORT, England, town, X, b 749; (Hampshire), XI, a *b* 385
- —— Navy Yard, New Hampshire (Portsmouth), XIX, a 551
- Gossamer, web of spiders (Arachnida), II, a 260

Gossan, ore (Mineralogy), XVI, a 386; (Mining), (Ill.), a 462
GOSSART, Jan, painter, X, b 749-50
Gosse, Philip Henry, naturalist (Aquarium), II, *a* 190; (Tody), XXIII, b 460
——, W. C., explorations of (Australia), III, a 93
GOSSELIES, town, X, b 750
Gosset, ——, engineer (Rhone), XX, a 542, note
Gosson, Stephen, poet (Bowls), IV, a 163; (English Literature), VIII, b 372, a 374; (Lodge), XIV, *b* 774
Gossypium, plant (Cotton), VI, b 427, *a b* 428, a 430
Gostinoy Dvor (Moscow), XVI, b 885, b 887, a 888
Gostling, John, singer (Purcell), XX, *a* 119
Goszczynski, Severin, poet (Poland), XIX, *a* 316
Göta or Goths, people (Sweden), XXII, *b* 782, *b* 783, *a* 784. See GOTHS
Göta Elf or river (Sweden), XXII, b 774, a 775, a 777
Götaland (Sweden), XXII, a *b* 774, *b* 777
Gotama, Buddha. See Gautama
Gotarzes, king, Parthia (Persia), XVIII, a b 612-3
Götchebes, people (Turks), XXIII, b 703
Goteschalcus. See GOTTSCHALK
GOTHA, town (Plan X), X, b 750-1; (Observatory) XVII, b 732-3; town and duchy (Libraries), XIV, b 526; (Saxe - Coburg - Gotha), XXI, *a b* 363
Gothenburg or Göteborg, province (Sweden), XXII, a b 777, a 778, b 780
GOTHENBURG, city, X, a 751-2; (Liquor Laws), XIV, b 694, a 696; (Sweden), XXII, a 776, a 780
Gothic Architecture (Plates XVIII-XX), II, b 369-72, b 373-82, a 387; (England), VIII, a 279; (Fine Arts), IX, *a* 178; (Venice), XXIV, a 161, b 166, b 167
—— language, X, a 752, a 757-9; (Alphabet), I, a 539; (Dictionaries), VII, b 161-2; (English Language), VIII, a 350; (Scandinavian Languages), XXI, a 383; manuscripts (Palæography), XVIII, a 152
—— League, Stockholm (Tegnér), XXIII, a 118
—— mountain (Colorado), VI, b 145
—— Society (Geijer), X, b 155; (Sweden), XXII, b 795
—— type (Typography), XXIII, a 738, b 740
Gothi Minores, people (Jordanes), XIII, a 750
Gōthite, ore (Iron), XIII, a 293; (Mineralogy) (Ill.), XVI, b 403, a 438
Gothland, island. See Gotland
GOTHOFRED, family, X, a b 752
GOTHS, X, b 752-9
  Alaric, age of, b 754-5
  establishment of monarchies, a 755-6
  language, a 757-9
    grammatical observations, a 758-9
  literature, b 756, b 757
  name, b 752-3
  people, a 753-4
  Roman empire, a 754-6
  Theodoric age of the Great, b 755-6
—— (Alaric), I, a b 392; (Arius), II, b 472; (Athens), III, *b* 10; (Constantinople), VI, *a* 270; (Denmark), VII, a 74; (Germany), X, a b 427; (Greece), XI, b 98, *b* 100; (Heruli), b 691; (Image Worship), XII, b 752; (Italy), XIII, a 478; (Jordanes), a b 758-9; (Narses), XVII, a b 239-40; (Ravenna), XX, b 309, a 310; (Rome), b 793, a 795, a b 797-8, a b 800; (Ulfilas), XXIII, b 766-7; (Valens), XXIV, *b* 41, *a* 42. See Getæ, Göta, Ostrogoths, Visigoths
Goth's Battle Song (Dahlstjerna), VI, a 674
Goths in Italy (Poole), XIX, a 476
Gotland or Gothland, island (Denmark), VII, a 74; (Scandinavian Languages) XXI, a 388; (Sea Laws), a b 612; (Sweden), XXII, *b* 775, a b 776, b 777, a 778, b 780, b 785, b 786, b 787; militia (Army), II, b 538
Goto islands (Japan), XIII, a 578, a 580
Gott, John, electrician (Telegraph), XXIII, b 126
Götterdämmerung, opera (Wagner), XXIV, a 335, a 336, a 337
Gottesfreunde, society (Mysticism), XVII, b 140-1. See Friends of God
Gotteshausbund, league (Grisons), XI, *b* 182; (Switzerland), XXII, a 827
Gottfried of Lorraine, duke (Germany), X, *b* 437; (Henry III., Emperor), XI, b 594
—— of Fontaines, theologian (Scholasticism), XXI, b 447
—— of Ghemen, printer (Denmark), VII, *a* 79
GOTTFRIED of Strasburg, poet, X, a b 759; (Germany), a 464, a 469, a 470
——, Johann, sculptor (Sculpture), XXI, a 593
Gotthard tunnel. See St. Gotthard
Gottheil, Richard J. H., orientalist (Syriac Literature), XXII, a 899 note
Gotthelf, Jeremias. See Bitzius
Göttin, camp (Leopold I.), XIV, a 468
GOTTINGEN, town (Plan), X, b 759-60; (Michaelis), XVI, a b 236; (Observatory), XVII, a 733
—— school (German Literature), X, a b 483
—— University, XXIII, b 903, a b 905, a 906; X, b 759-60; (Coleridge), VI, a 123; (Cotta, J. F.), VI, b 426; (Hanover), XI, b 399, a 400; (Libraries), XIV, b 526, a 548
Göttingische gelehrte Anzeigen (Periodicals), XVIII, b 551
Gottorp chateau (Schleswig), XXI, b 431, a 432
——, dukes of (Dithmarschen), VII, b 252-3; (Schleswig - Holstein), XXI, *b* 433
—— Globe, X, b 609
GOTTSCHALK, Fulgentius, theologian, X, a b 760; (Hincmar), XI, *a* 747; (Pelagius), XVIII, b 483; (Predestination), XIX, b 689
Gottschall, Rudolph, poet (Germany), X, a b 487, a b 488
GOTTSCHED, Johann Christoph, critic, X, b 760-1; (Drama), VII, a b 381; (Gellert), X, b 120; (Germany), b 476, *a* b 477; (Lessing), XIV, a 479; (Switzerland), XXII, a 836
Gottskalksson, Odd, translator (Iceland), XII, *b* 662
GOTZ, Johann Nikolaus, poet, X, a b 761; (Germany), *b* 477
Gotzelin, monk (Swithun, St.), XXII, b 813, b 814
Götz von Berlichingen (Drama), VII, a 379, *a* 382; (Germany), X, *a* 481; (Goethe), *a* b 645, *b* 646
GOUDA, town, XI, a 3
GOUDIMEL, Claude, composer, XI, a b 3; (Music), XVII, b 91, b 92
Gougenot, Louis, abbé (Greuze), XI, b 168
GOUGH, Hugh Gough, viscount, XI, b 3-4; (India), XII, *b* 847
GOUGH, Richard, antiquary, XI, b 4
GOUJET, Claude Pierre, author, XI, b 4
GOUJON, Jean, sculptor, XI, b 4-5; (Sculpture), XXI, *b* 589, b 590 note
Goulburn, river (New South Wales), XVII, b 418
GOULD, Augustus Addison, conchologist, XI, a b 5
——, Benjamin Apthorp, astronomer (Photometry), XVIII, a 855; (Sanitary Commission), XXI, a 905; (Telescopic Work), XXIII, b 932, a 933
——, Jay, Erie Ring of (United States), XXIII, a 832
——, John, naturalist, *b.* 1804, *d.* 1881 (Tapaculo), XXIII, a 54; (Toucan), a 570; (Trogon), a 621; (Gare-Fowl), X, b 71; (Humming-Bird), XII, b 372, note, a 373; (Ornithology), XVIII, b 15-6, a 22, b 30, note; (Zosterops), XXIV, b 863 note
Gour, city. See GAUR
Goura, bird (Pigeon), XIX, a 94
Gouramy, fish. See GORAMY
GOURD, plant, XI, b 5-6; (Botany) (Ill.), IV, a 76, b 84, a 124, b 125, a 138; (Horticulture), XII, b 294-5
Gourdon cup and tray (Plate), XIX, b 193-4
GOURGAUD, Gaspard, Baron, general, XI, b 6
Gourgues, Dominique de, commander (Florida), IX, a 298
Gourlay boiler (Steam-Engine), XXII, b 521
Gournay, town (Seine Inférieure), XXI, a 657
——, Jean Claude Marie Vincent, Sieur de (Political Economy), XIX, *b* 372, a 374; (Quesnay), XX, a 183
——, Marie le Jars, Demoiselle de (Montaigne), XVI, a b 797
Gourred-Oul-Ayn, prophetess (Babi), III, b 156, a 157
GOUT, disease, XI, b 6-9
  history, b 6-7
  pathology, b 7-8
  symptomatology, a 7
  treatment, b 8-9
—— (Colchicum), VI, a 114; (Dietetics), VII, b 178, a b 179; (Insanity), XIII, b 107, a 108, a 115; (Pathology), XVIII, a b 397; rheumatic (Rheumatism), XX, b 532
Gouttes d'eau, gem (Topaz), XXIII, b 474
Gouty kidney (Pathology), XVIII, b 397
GOUVION SAINT CYR, Laurent, Marquis de, XI, a b 9
Gouwe, Ter, town. See GOUDA
Govea, Andrew, scholar (Buchanan, George), IV, *b* 370
Governing, Precepts for (Plutarch), XIX, a 247
GOVERNMENT, XI, b 9-20
  divisions of topic, a 10
  English system, b 12-3, a 14
  extension of state functions, b 17-9
  federal, a b 19
  feudalism, a 12
  forms of, a 11-5
  France, a 14
  Greek, a b 11
  judicature, a 15
  laissez-faire theory, b 16-7
  laws, relation to, b 14
  limits of state functions, b 15-7
  local, b 19
  moral coercion, b 18
  origin of, a 10-1
  Roman, b 11-2
  social theories, b 9
  sphere of, a 15-20
  state and church, a 16
  United States, b 13-4
—— (Bentham), III, a 498; (China), V, b 579-81; (Fénelon), IX, a 65; (Feudalism), b 105-7; (Fiji Islands), a 138; (Finance), a 150; (Free Trade), *b* 661; (Friendly Islands), b 684; (Holland), XII, a 75, a b 76, b 82-3; (Hooker, R.), a 156; (Hottentots), b 324-5; (Hungary), a b 381, a b 388; (India), a 807-15; (Jersey), XIII, b 645-6; (Lao-tsze), XIV, b 296, a 297; (Law), a 355; (Locke), a b 760, a b 762-3; (Malta), XV, b 343; (Mecklenburg), b 785-6; (Machi-

Government, *continued* avelli), a 150-2; (Mencius), XVI, a b 9; (Merv), a 48; (Mexico), b 227; (Micronesia), a b 267; (Mohammedanism), b 611, a 614; (Political Economy), XIX, b 414, note; (Plato), b 219-20; (Protection), b 926, a 933; (Roumania), XXI, a 24, a 25; (Say), b 376; (Tahiti), XXIII, a 29
——, Aztec (Mexico), XVI, a b 218; communal (Pueblo Indians), XX, a 889; Federal, IX, a 55; Frankish primitive (Salic Law), XXI, a 224; Heroic Age (Homer), XII, a 115; Hindu (Rájá), XX, a b 271; Libraries, XIV, a 517, a 526, b 534-5; life Insurance, XIII, a b 188; municipal, XVII, a 33-7; rise and effects of (Political Economy), XIX, b 367-9, a 373; savage (Ethnography), VIII, a b 545; security for circulating notes (Banking), III, b 282; Smith on (Political Economy), XIX, a 332; Statistics, XXII, b 431-2; Taxation, XXIII, b 91. See Constitution, Jurisprudence, Political Science, State and references under Social and Society
——, the administration (England), VIII, b 236, a 268
Governor, provincial (Province), XIX, b 910, *a b* 911
Governor-General (India), XII, *a* b 850, a b 851; Dutch (Indian Archipelago), XII, a b 858, b 859-60
Governors (Mechanics), XV, b 778-9; differential (Mechanics), b 778-9
——, automatic (Windmill), XXIV, a b 631
——, driving clock (Telescope) (Ill.), XXIII, b 169-70
——, in Gas Lighting (Ill.), X, b 86-7; consumer's, a b 88
——, steam (Steam-Engine) (Ill.), XXII, a 529-34; equilibrium, b 529; Watts's (Ill.), a 494, a 529
Governor's Island, Boston Harbor (Winthrop), XXIV, a 904
Govind Rái, Singh (Punjab), XX, a 117
Gowan, plant. See DAISY
Gowdie, Isobel, witch (Apparitions), II, b 179
Gower, promontory (Glamorgan), X, a 565
—— street (London), XIV, b 861
——, Francis Leveson, Earl. See ELLESMERE
——, Henry, bishop (Pembroke), XVIII, b 493; (St. David's), XXI, a b 169
GOWER, John, poet, XI, a b 20; (English Literature), VIII, a 368; (Heraldry), XI, b 634
Gower's refining process (Oils), XVII, a 764
—— transmitter (Telephone), XXIII, a 140
Gowhatty, town. See GAUHATI
Gowk, fool (April), II, a 187
Gownagh, Lough (Longford), XIV, a 874
Gown, university (Costume), VI, b 410
Gowrie, Carse of, district (Perth), XVIII, b 678, a b 679; (Scotland), XXI, a 547, b 556
——, John Ruthven, earl of, conspirator (Scotland), XXI, b 531
——, William Ruthven, earl of (Scotland), XXI, a *b* 529
GOYA, town, XI, b 20
GOYANNA, city, XI, b 20
GOYA Y LUCIENTES, Francisco, painter, XI, b 20-1; (Caricature), V, a 93; (Schools of Painting), XXI, a 460, a 464
GOYAZ, town, XI, b 21; province (Brazil), IV, *a b* 201, *a* b 202, b 204, b 207, b 210, *b* 212; Cordillera Grande of (Brazil), b 199, *b* 200
GOYEN, Jan Josephszoon van, painter, XI, b 21-2
Goyim or Gutium, country (Babylonia), III, a 159, b 160
Goyt, river (Derby), VII, a 93
Gozan, district (Mesopotamia), XVI, b 52; river (Baghdad), III, *b* 199
Gozbert, duke of Franconia (Kilian, St.), XIV, b 75
Gózihr, prince (Persia), XVIII, a 618
GOZLAN, Leon, novelist, XI, a b 22
Gozo, island (Malta), XV, *a* b 342, *a* 343, *a* b 344, *a* b 345, a 346
—— stone ornament (Architecture) (Ill.), II, b 336
Gozzerd, herdsman (Goose), X, b 691 note
GOZZI, Carlo, Count, dramatist, XI, b 22; (Drama), VII, b 362
GOZZI, Gasparo, Count, critic, XI, b 22; (Italy), XIII, b 522
GOZZOLI, Benozzo, painter, XI, a b 23; (Architecture), II, *b* 398; (Fresco), IX, a b 679; (Schools of Painting), XXI, b 452, a 462
Graaf, Regnier de, physician (Anatomy), I, *a* 712; (Embryology), VIII, b 151; (Reproduction), XX, b 425
Graafian follicle (Reproduction), XX, b 419, *b* 425
Graaf-stock, tool (Bushmen), IV, a 513
Graah, Willem August, explorer (Greenland), XI, b 148, b 153; (Polar Regions), XIX, a 332
Graal. See GRAIL
Grabbe, Christian Dietrich, dramatist (Germany), X, b 487
GRABE, Johann Ernst, divine, XI, b 23
GRABOW, town, XI, b 23; (Stettin), XXII, b 571
Grabowski, Michael, poet (Poland), XIX, a 316
Grabusa, isle (Crete), VI, b 504
Gracchus, family, XI, b 23-4; (Agrarian Laws), I, a b 258; (Rome), XX, b 775-6, a 778, *a* 785; (Scipio), XXI, a *b* 489; innovations of (Tribune), XXIII, a b 593; policy of (Slavery), XXII, a 141
——, Cornelia, matron, XI, b 23
——, Gaius, tribune, XI, a 24; (Drusus), VII, b 420-1
——, Tiberius Sempronius I., general, XI, b 23; (Hannibal), b 396; (Rome), XX, b 767, b 769
——, Tiberius Sempronius II., general, XI, b 23-4; (Spain), XXII, a 321
——, Tiberius Sempronius III., quæstor, XI, a 24
Grace, Augustinian view of (Predestination), XIX, a 689; doctrine of (Jesuits), XIII, b 660, *b* 664; (Melanchthon), XV, a b 843; (Molina), XVI, a b 653; in Pauline theology (Paul), XVIII, a 435; in Pelagian theology, a 483
GRACES, goddesses, XI, a 24; sacrifices to the (Paros), XVIII, b 325. See Charites
Graces, draped (Bupalus), IV, a 475
GRACIÁN, Baltazar, writer, XI, a 25; (Spain), XXII, a 374
Gracias, department (Honduras), XII, b 134, *a* 135
Graciosa, island (Azores), III, b 147, a 149
—— (Canary Islands), IV, a b 706
GRACKLE, bird (Ill.), XI, b 24-5
Gracula, genus (Grackle) (Ill.), XI, b 24
Grade in natural history defined (Zoology), XXIV, a 850
Gradenigo, Pietro, doge (Venice), XXIV, *a* 155, a 165
Gradibus, Matthew De, physician (Anatomy), I, a 707
Gradient (Roads and Streets), XX, a 598
——, hydraulic (Hydromechanics), XII, b 487, b 508-9
Gradirhäuser (Salt) (Ill.), XXI, a b 243
GRADISCA, town, XI, a 25
Gradual or *Graduale*, service book (Grail), XI, b 32, a 33; (Liturgy), XIV, a 716; (Missal), XVI, b 531, a 533
GRADUATION of instruments, XI, a 25-8
  copying, a 27-8
  machines (Ill.), a 27-8
  original method, b 25
  Troughton's method, a 26

—— apparatus (Galvanometer), X, a b 46; of circle (Ptolemy), XX, b 92; of thermometers (Heat), XI, b 503-5, b 507-8, b 509, b 512-4
Graduation houses (Salt) (Ill.), XXI, a b 243
Gradus ad Parnassum (Clementi), V, b 720
Grææ, myths (Hesperides), XI, b 695; (Perseus), XVIII, a 572
Graebe, chemist (Dyeing), VII, a 494
Græcæ Linguæ Thesaurus (Stephen's), XXII, b 562, *a* 563
Græcia Magna, XI, a b 28. See Magna Græcia
Græco-Bactrian conquests (India), XII, b 826, b 827
—— -Indian coins (Numismatics), XVII, a b 679
—— -Italic language (Greece), XI, a b 113, b 115, a b 116
—— Latin MSS. (Palæography), XVIII, b 157; uncial MSS. (Palæography), a 152, a 153
—— -Roman coins (Numismatics), XVII, a b 648; history (India), XII, b 826-7; literature (Greece), XI, b 128-9; Plate (Ill.), XIX, b 191, a 192-3; (Pottery and Porcelain), b 635-7
Græcostasis, platform (Rome) (Plate VII), XX, a b 835-6
Graena Springs (Guadix), XI, b 204
Graetz, H., historian (Jews), XIII, b 692
GRÆVIUS or Grafe, Johann George, philologist, XI, b 28; (Bentley), III, *b* 499
Graf, title (Count, Countess), VI, a 455
——, K. H., philologist (Chronicles), V, a 615, *a* 616; (Pentateuch), XVIII, b 519, note, b 523, a 524; (Sa'di), XXI, *b* 151
GRAFE, Albrecht von, oculist, XI, a 29
GRAFE, Heinrich, educationist, XI, a 29
GRAFE, Karl Ferdinand von, surgeon, XI, a b 29
Gräfenberg, medical establishment (Freiwaldau), IX, a 674; (Hydropathy), XII, a b 575
Graffigny, Françoise d'Issembourg d'Happoncourt, writer (Helvetius), XI, *b* 573; (Voltaire), XXIV, a 308
Graffiti (Palæógraphy) (Ill.), XVIII, a 147, b 158
Grafigny. See Graffigny
GRAFRATH, town, XI, b 29
Graft-Hybridism, XII, b 441; (Horticulture), a 218
Grafting (Currants), VI, a 631; (Horticulture) (Ill.), XII, b 217-8, b 241-2; (Potato), XIX, a b 613
——, animal (Hunter), XII, b 402; dermal (Surgery), XXII, a 716, a 718
—— ropes (Seamanship), XXI, b 621
Grafting-wax (Horticulture), XII, b 242
Grafton, town of West Virginia, XXIV, *a* b 547
——, Augustus Henry Fitzroy, duke of (Junius), XIII, a 785; (Gray, Thomas), XI, b 70
——, Richard (English Bible), VIII, b 345, a b 346
GRAGNANO, town, XI, b 29
Graham. See MONTROSE
——, George, inventor (Graduation), XI, b 25
GRAHAM, Sir James George Robert, statesman, XI, b 29; (Admiralty), I, a 143, a 144; (Dockyards), VII, a 276; (Mazzini), XV, a 662; (Post-Office), XIX, a 585

Graham, Sir John de, soldier (Wallace), XXIV, b 347, a 348
——, John of Claverhouse, Viscount Dundee, VII, b 463-4; (Scotland), XXI, *b* 538, a b 539; (Stair), XXII, a 462
——, Patrick (Archbishop), II, a 324; (St. Andrews), XXI, b 166
——, Sir Robert, assassin (James I., Scotland), XIII, b 565; (Scotland), XXI, *b* 515
GRAHAM, Thomas, chemist, XI, a 30-1; (Baking), III, b 219; (Chemistry), V, b '416, b 418, b 437, a 471; (Diffusion), VII, b 186, *b* 188-9; (Mint), XVI, b 503
GRAHAME, James, poet, XI, a 31
Graham Islands (Queen Charlotte Islands), XX, *b* 176-7
Graham's Act, Scotland (Parish), XVIII, a 303
Graham's escapement (Watch), XXIV, a 418
—— or Grim dyke (Antoninus, Wall of), II, b 122; (Scotland), XXI, b 493
Graham's Magazine Philadelphia (Periodicals), XVIII, a 555
Graham's shoal (Mediterranean Sea), XV, b 829, note
GRAHAM'S TOWN, XI, a b 31; (Cape Colony), V, a 39, a 41, a 42, b 43, *a* 44
Graian Alps, I, b 546, a 549
Graikoi, people (Greece), XI, a 73, b 81, a 84, b 88
GRAIL or Grayle, the Holy, XI, b 31-3; (English Literature), VIII, a b 364; stories (Romance), XX, a 660-1, b 661-2, a *b* 665
Grailing, process (Comb), VI, a 160
Grain, cereals (Buffalo), IV, a 397; (Canada), b 685, *b* 686, *a b* 687; (Chicago), V, a 531; (Denmark), VII, a 71; (Fiars Prices), IX, b 114-5; (Finance), a 161; (France), b 458, b 464; (Odessa) XVII, a *b* 746; (New York), a b 899; (Russia), XXI, b 84; (United States), XXIII, *b* 877, a b 878; counties, list of (England), VIII, *a b* 203; crops (Agriculture), I, b 304, b 314-20; elevators (Lifts), XIV, b 577. See CORN LAWS
Grain Coast (Africa), I, a 241
—— elevators (Lifts), XIV, b 577
——, weight (Weights and Measures), XXIV, b 518
Graine or eggs (Silk), XXII, b 64
Graining (Building), IV, a b 458; (Gunpowder), XI, b 286; (Leather), XIV, a 387; (Soap), XXII, b 214
GRAINS OF PARADISE, seeds, XI, a b 33; (Pepper), XVIII, a 528
Grain Tin, XXIII, a 428
Graisivaudan, valley (Isère), XIII, a 396
Grallæ, order of birds (Ornithology), XVIII, b 49, a 50
Grallatores, birds (Ornithology), XVIII, b 34, a 35, a 42
Grallon Meur, king (Quimper), XX, b 187, a 188
GRAM or Chick-pea, XI, b 33-4
——, Johan, historian (Denmark), VII, b 79
Gramineæ, group (Botany), IV, b 131; (Grasses), XI, *a* 48, a 50, a *b* 51, *a* b 53
GRAMMAR, XI, a 34-9
  acquisition of language, a b 39
  adverbial element, a b 37
  Aryan group, b 35-8
  English, b 33
  history, a 39
  inflections, b 36-8
  methods, b 34
  roots and suffixes, Aryan, b 35-6
  scope and divisions, a b 34
  unallied languages, a 35
  verb, b 37-8
——, Arabic, II, a 214, a 232; (Mohammedanism), XVI, b 617; (Semitic Languages), XXI, b 684
——, Aramaic, II, b 269, a b 270
——, Armenian, II, a 482
——, Aryan or Indo-Germanic, XI, b 35-6; (Hindustani), a b 750, notes, a b 751, a 752, a 753, note; (Philology), XVIII, a b 803. See Sanskrit
——, Bantu. See Bantu and Zulu-Kaffre
——, Basque, III, b 366
——, Chinese, V, a 570-3
——, comparative, XI, b 34-5, a 38; (Bopp), IV, b 44; (Grimm), XI, b 178-9. See Aryan
——, Corean, VI, b 348
——, Dutch (Holland), XII, b 92, a 93
——, general (Anthropology), II, b 104-5; (Category), V, a 195; (Logic), XIV, b 811; (Philology), XVIII, b 784, a 785; (Stoics), XXII, a 595
——, Gothic, X, a 758-9
——, Greek, XI, a 113-7; (Homer), XII, a b 117; (Lascaris), XIV, b 319
——, Hebrew, XI, a 532-3; (Jonah), XIII, a 748; (Kimhi), XIV, a 80; (Semitic Languages), XXI, *a* 678; (Talmud), XXIII, a 41, a 43
——, Hieroglyphic, XI, a 709, b 720-1; (Alphabet), I, b 533
——, Hindustani, XI, b 750-2
——, Japanese, XIII, b 595-6
——, Javanese, XIII, b 618
——, Latin (Lilye), XIV, b 650; (Perizonius), XVIII, a 559; (Priscian), XIX, a 763-5; old (Romance Languages), XX, a b 682. See Latin Language, XIV, a 327-43
——, Mongolian, XVI, b 777-8
——, Pahlavi, XVIII, b 140
——, Pali, XVIII, b 187, a b 188, b 189, a 190
——, Phœnician (Semitic Languages), XXI, b 78-9
——, Polish, XIX, a 315, a 317
——, Romani (Gipsies), X, a 548-9, a 551
——, Sanskrit, XXI, b 287, a 306-7
——, Semitic, XXI, a b 673, *a b* 674, b 675-6
——, Siamese, XXI, a b 895
——, Slavonic, XXII, a b 157
——, Somali, XXII, b 269
——, Tamil, XXIII, b 47-8
——, Tibetan, XXIII, b 368-9
——, Turkish, XXIII, a b 704
——, Zulu-Kaffre, XIII, *b* 829-30; XXIV, b 866-7. See Bantu
See Dialects, Grammars, Inflection, Language, and specific titles of languages and of treatises on grammar
Grammarians (Arabia), II, a 232; (Syriac Literature), XXII, a 894, *a* b 897, a 899; Byzantine (Greece), XI, b 130-1; mediæval (Hebrew Language and Literature), XI, a *b* 536; modern (Greece), a b 132, a b 133, b 136; Roman (Servius), XXI, b 724-5
Grammars, Ælfric's Saxon, I, b 164; Aramaic, II, a b 270; Bopp's comparative, IV, *b* 44, a 45; Bulgarian (Slavs), XXII, b 158; Czech (Bohemia), III, b 748; (Slavs), XXII, a 161, a 163; Danish (Scandinavian Languages), XXI, b 389, a b 390; general (Philology), XVIII, b 794, a b 795, note, a b 798, a 799, b 801 notes; Grimm's German, XI, b 178-9; Hebrew, b 537; Hieroglyphic, a 723; Icelandic (Scandinavian Languages), XXI, *b* 384, b 385; Japanese, XIII, b 595; Jonah's Hebrew, a 748; Kimhi's Hebrew, XIV, a 80; Lascaris's Greek, a b 319; Latin, b 343; Magyar (Hungary), XII, a 390; Moses of Chorene, Armenian, XVI, b 890; Norwegian (Scandinavian Languages), XXI, b 384, b 390; Persian, XVIII, a 667 note, a 668 note; Polish (Slavs), XXII, a 160; Siamese, XXI, a b 895; Slovak (Slavs), XXII, a 163; Slovenish (Slavs), *b* 159; Somalese, b 269; Swedish (Scandinavian Languages), *a* 388, a 389; Tamil, XXIII, a b 48, a 49; Tibetan (Tibet), a b 368; Welsh (Celtic Literature), V, a b 273; Wendish (Slavs), XXII, *b* 163. See GRAMMAR, Grammarians, Language
Grammar schools (England), VIII, a 304; (London), XIV, a b 844
Grammatica Græca (Lascaris), XIV, b 319
Grammatici. See Grammarians
Grammatite (Mineralogy), XVI, b 435
Grammatophora, genus (Lizard), XIV, a 743
Gramme, weight (France), IX, b 464; (Measurement), XV, *a* 675; (Weights and Measures), XXIV, b 517-8
Gramme's ring (Lighting, Electric), XIV, a 638; machine (Electricity), VIII, a b 12; (Electro-Metallurgy), a 109
GRAMMONT, town, XI, b 39
——, Antoine Agênor Alfred, duke of (France), IX, b 551
——, order of. See GRANDIMONTANES
GRAMONT, Philibert, Count de, XI, b 39-40; *Memoirs* (Hamilton), XI, a 370
Grampian hills (Forfar), IX, a *b* 361, a 362; (Kincardine), XIV, b 80; (Perth), XVIII, a b 678, b 679; (Scotland), XXI, b 545, *b* 547; battle of the, 84 A.D. (Scotland), a 493
Grampound, borough (Russel), XXI, *a* 70
GRAMPUS, cetacean, XI, a 40; (Mammalia) (Ill.), XV, b 402, a 403
GRAN, city, XI, b 40
——, tree (Fir), IX, a 194
GRANADA, province, XI, b 40-1; (Innocent VIII.), XIII, a 92; (John, Don), b 727; (Spain), XXII, a b 311, b 312, *b* 314, a 315, b 316, *b* 318, b 320
GRANADA, city of Spain (Plan), XI, a b 41; (Alhambra), I, a 503; (Ferdinand V., Castile), IX, a 72; Moorish (Spain), XXII, b 332, a 334
GRANADA, city, Central America, XI, b 41-2; (Nicaragua), XVII, *a* 493
Granada, Guerra de (Mendoza), XVI, *a* 14
——, *Guerras Civiles de* (Abencerrages), I, b 39
GRANADA, Luis de, preacher, XI, a 42; (Spain), XXII, b 373
GRANADILLA, plant, XI, a 42; (Passionflower), XVIII, a 348
Granard, town (Longford), XIV, a *b* 874
Gran Canaria, island. See Grand Canary
GRAN CHACO, region, XI, a b 42; (Paraguay), XVIII, b 247 note
Grancin, dye. See Garancin
Gran consiglio, burgher assembly (Italy), XIII, b 482
Grand lake (New Brunswick), XVII, b 382
—— lake (Newfoundland), XVII, a b 392
—— river (Grand Rapids), XI, a 43; (Michigan), XVI, b 247
—— river (Prince Edward Island), XIX, a 759
—— river, Colorado (United States), XXIII, b 846, *a* 847; (Utah), XXIV, b 24
Grand Alliance, 1689, I, a 515; 1701 (England), VIII, b 316; (John V., Portugal), XIII, a 725; (Spain), XXII, b 349; (William III.), XXIV, b 611
—— Bassam, village (Gold Coast), X, b 672
—— Bassin, lake (Mauritius), XV, b 646
—— Bey Isle (St. Malo), XXI, b 195

Grand Bézique, game, III, b 540–1
—— Canary, island (Canary Islands), IV, *b* 702, *a* b 703, *b* 704, a 706; (Wine), XXIV, a 640
—— Cañon (Colorado River), VI, a 147; (Geology), X, b 245; (United States), XXIII, *b* 849, *a* 850
—— in Yellowstone Park, XXIV, b 773
—— Cayman, island (Jamaica), XIII, b 558
—— Colombier, mountain (Jura), XIII, b 791
GRAND'COMBE, town, XI, b 42
Grand Combin, mountain (Alps), I, b 545, b 549
—— Council, Venice, 1172 (Italy), XIII, a 490
—— Credo, mountain (Jura), XIII, a b 791
—— Duke Diamond, VII, a 144
Grande Chartreuse, mountain (Gray, Thomas), XI, a 70; (Isère), XIII, a 396
Grande Chronique (Chastelain), V, *b* 377
—— *Duchesse de Gerolstein*, opera (Offenbach), XVII, a 753
Grande Montagne, mountains (Rodriguez), XX, b 634
—— Rivière (Mauritius), XV, b 646
—— Ronde, river (Oregon), XVII, a 846, b 847
Grandes Vosges, mountains (Vosges), XXIV, *a* 319
Grand Étang, lake (Grenada), XI, b 164
Grande Terre, island (Guadeloupe), XI, *b* 203
Grandeur et Décadence des Romains (Montesquieu), XVI, b 809, b 811
GRAND HAVEN, Michigan, XI, b 42
Grandi, Ercole, painter (Schools of Painting), XXI, b 455, a 463, note
—— Guido, mathematician (Camaldulians), IV, b 638
Grandidier, Alfred, naturalist (Lemur), XIV, b 440, b 441, a 442, a 443; (Madagascar), XV, b 168, a b 176
Grandier, Urban, martyr (Loudun), XV, a 17
GRANDIMONTANES or Grammontines, order, XI, b 42–3; (Monachism), XVI, a 735, b 741
Grand Island (Niagara), XVII, b 485
—— Jury, XIII, a 794, note, a b 795, note; (Criminal Law), VI, a 521
Grand-Lieu, lake (France), IX, b 446; (Loire-Inférieure), XIV, b 817
—— master, duties of (Templars), XXIII, a b 179
—— Morin, river (Marne), XV, a 568; (Seine-et-Marne), XXI, b 655, a 656
Grandon, painter (Greuze), XI, b 168
Grand Opera House (Paris), XVIII, b 281–2
—— Pianofortes (Ill.), XIX, b 79, a 81, *a* b 82, a b 83, a b 84, a 85
GRAND RAPIDS, Michigan, XI, a 43
"Grand Remonstrance" (Charles I.), V, a 352; (England), VIII, b 311; (Hampden), XI, *b* 383
—— scherif, official (Caliph), IV, b 626
—— Seneschal, official (Provence), XIX, b 903, a 904
Grands Jours, court (Pasquier), XVIII, a 346
Grandsom mountain (Chartreuse), V, b 376
Grandson, town. See GRANSON
Grandville, pseudonym. See GÉRARD
Grandy's relief expedition (Congo), VI, a 236, b 237
Grane, port (Arabia), II, a 205
Granelleschi society (Gozzi), XI, b 22
GRANET, François Marius, painter, XI, a b 43
Grange (Abbey), I, b 27; (Architecture), II, b 408
Grangemouth, district (Coal), VI, a 51; town (Borrowstounness), IV, b 58
Granicci, Francesco, painter (Ghirlandajo), X, a *b* 508
Granicus, river (Asia Minor), II, b 618; battle of, 334 B.C. (Alexander the Great), I, a 426, b 427; (Greece), XI, a 94; (Macedonian Empire), XV, a 141
Granida (Holland), XII, a 97; (Hooft), a b 150
Granier de Cassagnac, Paul Adolphe Marie Prosper de, journalist (Duel), VII, b 443
Granilla, dye (Cochineal), VI, b 89
GRANITE, rock, XI, b 43–5; (Aberdeen), I, a 45; (Banffshire), III, b 269; (Building), IV, b 419, a 424; (California), a 623; (Cornwall), VI, a 376, a 377; (Geology) (Ill.), X, b 205, a 208; (Himalaya), XI, *b* 739; (Mineralogy), XVI, b 384; (New Hampshire), XVII, b 401; (Rome), XX, b 826; (Ural Mountains), XXIV, b 8, a 9; (Western Australia), *a* b 535; (Westmorland), a 544; decomposition of (Geology), X, b 238; formation of (Geology), a *b* 231, a 232, b 234; graphic, XI, a 44; (Mineralogy), XVI, b 383, b 437; joints (Geology) (Ill.), X, b 263; metamorphism of (Geology), a 279, a 280; veins (Geology), a b 276
Granitic bosses (Geology), X, a 273–4
Granitite, mineral, XI, a 44
GRAN MICHELE or Grammichele, town, XI, a 45
Granovski, Timofei Nikolaivitch, historian (Russia), XXI, b 116
Gran Piedra, mountain (Cuba), VI, a 601
—— Sasso d' Italia, mountain (Italy), XIII, a b 447; (Terramo), XXIII, b 200
GRANSON, Grandson or Grandsee, town, XI, b 45; battle of, 1476 (Army), II, b 494; (Switzerland), XXII, a *b* 826
Grant, Sir Alexander, author (Psychology), XX, a 77 note. See List of Contributors
GRANT, Anne, authoress, XI, b 45
GRANT, Sir Francis, portrait painter, XI, b 45–6
——, James, editor (Newspapers), XVII, b 429, a b 431, note, b 433
——, James, colonel (Tennessee), XXIII, b 194
GRANT, Sir James Hope, general, XI, a b 46
——, Robert, astronomer (Telescope), XXIII, a 146
——, Sir Robert, poet (Hymns), XII, b 629
GRANT, Ulysses Simpson, president, XXIII, *a* 825, *b* 826, a b 827, a b 828, a 830, b 832, b 836, b 837–8; (Battle), III, b 644, a 645; (Greeley), XI, a 145; (Johnson, A.), XIII, a 730; (Lee, R. E.), XIV, a 400; (Lincoln), a 667, *b* 668; (Rawlins), XX, a 896; (Republican Party), a b 907; (Smith), XXII, a 911; (Stanton), *a* 920; (Sumner), b 677; (Thomas), XXIII, *b* 938, a 939; (Washburn), XXIV, a 886; (West Point), a 892
Granta, river (Cambridge), IV, b 644, a 645
Grantchester, village (Cambridge), IV, a 645, a 647
Granth, Adi (Hindūstānī), XI, a 751; (Hindustani Literature), a 753, *a b* 754; (Punjab), XX, b 116, *a* 117
Grantha alphabet (Tamils), XXIII, a 47
GRANTHAM, town, XI, b 46
—— motor (Tramway), XXIII, a 540
Grantia (Sponges), XXII, b 429, b 437, a 439, b 440, a *b* 441
Grantina (Sponges), XXII, b 438–9
Grant Routier de la Mer (Sea Laws), XXI, b 611
Granular conjunctivitis, disease (Ophthalmology), XVII, b 802
—— contracted kidney (Pathology), XVIII, b 396–7
Granulation (Gunpowder) (Ill.), XI, b 291–3, b 294
—— (Pathology), XVIII, b 410; repair by (Ill.), 368–70
—— of Iron, XIII, a 357
—— of surfaces (Jewellery), XIII, b 687
Granules of cerebrum (Anatomy), I, b 770, *a* 771; of protoplasm (Protozoa), XIX, b 875
Granulite rock (Geology), X, b 211; (Sweden), XXII, b 777
Granuloma, disease (Leprosy), XIV, a 470; (Pathology), XVIII, b 414, a 415, b 416
Granulose (Starch), XXII, a 473
GRANVELLA, Antoine Perrenot, Cardinal de, XI, b 46–7; (Besançon), III, a 531; (Holland), XII, a *b* 77; (William the Silent), XXIV, b 614
——, Nicholas Perrenot de chancellor, XI, b 46
GRANVILLE, town, XI, a 47; (Manche), XV, *b* 466
GRANVILLE, John Carteret, earl, statesman, XI, a b 47; (George II.), X, a b 380; (Walpole), XXIV, a *b* 356
——, Richard de (Neath), XVII, *b* 315
Grao, El, or Villanueva Grao, port (Valencia), XXIV, *a* 40
Grape (Botany), IV, b 134, *a* 135, a 138; (Ceylon), V, a 315; (Egypt), VII, a 616; (Horticulture), XII, b 227–8, b 287–9; (New Mexico), XVII, b 411; (Raisins), XX, b 270–1; (Vine) (Ill.), XXIV, b 254–9; diseases of (Murrain), XVII, a 67; (Vine), XXIV, b 256–9; growing in Portugal (Wine), a b 640; houses (Horticulture) (Ill.), XII, b 227–8; calendar for, a *b* 306–7; juice (Tartaric Acid), XXIII, a 75; composition of (Wine), XXIV, a b 634; Oil from Seeds, XVII, a 765, a 767. See VINE, WINE
Grape-shot (Artillery), II, b 575
—— sugar, XXII, *b* 655, b 656; (Adulteration), I, a 156; (Alcohol), a 416; (Botany), IV, a 78; (Brewing), b 238, b 242
Graphic analysis of link motion (Steam-Engine), XXII, a 526–7; determination of co-ordinates (Surveying), XXII, a b 743; finding of steam distribution (Steam-Engine), a 524–5; formulæ (Chemistry), V, b 409, a b 410, b 476; finding of girder-deflections (Bridges) (Ill.), IV, a 267; representation (Diagrams), VII, b 128–9; (Mechanics), XV, b 693; of Tides, XXIII, a b 394, a b 401; solution of crank effort (Steam-Engine), XXII, a 534–6; of governor-motion (Steam-Engine), a 530
Graphic Granite, XI, a 44; (Mineralogy), XVI, b 383, b 437
Graphidei, tribe (Lichens), XIV, b 561, a 565, b 566
Graphite, mineral (Carbon) V, *a b* 77; (Germany), X, b 407; (Diamond), VII, b 141, b 142; (Gunpowder), XI, b 293; (Iron), XIII, b 295; (Mineralogy) (Ill.), XVI, a 366, a 386, a 388, a 392, b 393, a 397; (Mining), b 491; (Plumbago), XIX, a b 242; in commercial iron (Iron), XIII, a b 287; Laurentian (Geology), X, b 290; utilizing (Pencil), XVIII, b 500
Graphitic oxides (Carbon), V, *a b* 77
Graphitoidal silicon (Chemistry), V, a 452
Graphiurus, genus (Mammalia), XV, b 423
GRAPHOTYPE, XI, b 47–8
Grapnel, balloon (Aëronautics), I, b 186–7
Grapsus, genus (Crustacea), VI, a 563, b 566, b 567, b 578

Graptolite, fossil (Geology), X, *b* 293; (Hydrozoa), XII, b 599
Graser, B., antiquary (Ship), XXI, a 843, b 845
Graslin, ethnologist (Iberians), XII, a 640
GRASLITZ, town, XI, a 48
Grass (Dairy), VI, b 677, a 678; lawn (Horticulture), XII, a b 254. See GRASSES
——, Spanish. See ESPARTO
—— church market (London), XIV, a 837
GRASSE, town, XI, a 48; arrondissement (Alpes), I, *b* 527
GRASSES (Ill.), XI, a 48–53
  classification (Ill.), b 51 3
  distribution, a 53
  inflorescence (Ill.), a 49–50
  reproductive system (Ill.), b 50–1
  structure (Ill.), a 48–51

—— (Agriculture), I, a 329–34; (Botany) (Ill.), IV, a b 84, *b* 93, a b 98, a 102, a 106, b 108, *b* 110; (Hampshire), XI, a 385; (Kansas), XIII, b 852; (Nebraska), XVII, a 317; (Prairie), XIX, a b 925; (Queensland), XX, b 180; effect on (Irrigation), XIII, a b 374; flowers in (Botany) (Ill.), IV, b 113, a 121, b 122, a 123, b 124, b 125, b 131, b 137, b 142, a 143; water (Reed), XX, a 332
Grasse-Tilly, François Joseph Paul, Marquis de, admiral (France), IX, a 524; (United States), XXIII, *a* 793
GRASSHOPPER, XI, b 53–4; (Ant), II, a 86; (Homestead), XII, b 126, a 127; (Locust), XIV, a 772, a b 773; fishing (Angling), II, b 38; subterranean (Mammoth Cave), XV, a 457
—— locomotives (Steam-Engine), XXII, a 923
—— Warbler, bird, XXIV, b 387; (Westmorland), b 543
Grassi, Orazio, astronomer (Galileo), X, b 30
Grass land (Irrigation), XIII, a b 373, a 374, a 378–9, a 380
Grassmann, Hermann Günther, mathematician (Geometry), X, a 334, a 335, b 337, b 346; (Quaternions), XX, b 169–70
——, Robert, mathematician (Electricity), VIII, a 11; (Logic), XIV, *b* 810, note
Grass Valley, town (California), IV, b 625; (Gold), X, a 662, a 666
—— writing (China), V, b 569
Grates, domestic (Smoke Abatement), XXII, a b 191; underfed (Smoke Abatement), b 189
GRATIANUS or Gratian, Augustus, emperor, XI, a 54; (Ausonius), III, a 88; (Theodosius I.), XXIII, a b 277, a 278; (Valentinian I. and II.), XXIV, *b* 42, a 43
GRATIANUS, Franciscus, canonist, XI, a b 54; (Canon Law), V, b 17, a 18, *a* 19; (Popedom), XIX, b 513; (Universities), XXIII, a b 888
——, Johannes, priest (Gregory VI. and VII.), XI, *b* 157
Graticulation (Surveying), XXII, b 750–51
Gratings (Light), XIV, a 612–3; theory of (Wave Theory), XXIV, b 460–3, b 465
Gratiolet, Louis Pierre, naturalist (Brachiopoda), IV, a 170, a *b* 172, *a b* 174
GRATIUS FALISCUS, poet, XI, b 54
GRATTAN, Henry, orator, XI, b 54–7
  education, b 54–5
  English Parliament, a b 56
  Irish Parliament, a 55–6
  oratory of, b 56–7

—— (Flood), IX, b 287, a 288; (Ireland), XIII, *a* 276, a 277; (Plunket), XIX, a 243
GRATZ or Graz, town (Plan), XI, a 57–8; (Libraries), XIV, a 549; (Styria), XXII, b 646; (Universities), XXIII, b 907
GRAUDENZ, town, XI, a 58
Grauer Bund or league (Grisons), XI, *b* 182, a 183; (Switzerland), XXII, b 827
GRAUN, Carl Heinrich, composer, XI, a 58
Graunt, John, publicist (London), XIV, *b* 829; (Statistics), XXII, a 479
Grave, The, poem (Blair), III, b 697; illustrations of (Blake), a 700
Grave of Confucius, VI, a 233
—— diggers (Catacombs), V, a 187
Gravel (Filter), IX, a 149; (Geology), X, a 211–2; cones (Glacier), a b 559
——, disease (Dietetics), VII, b 179; (Pathology), XVIII, b 397; (Vesical Diseases), XXIV, a 205
GRAVELINES, town, XI, b 53; battle of, 1558 (Egmont), VII, b 606
Gravelotte, Battle of, 1870, III, a 385; (War), XXIV, *a* 368, b 382, a 383
Graves (Mycenæ), XVII, a 122
—— *of Ottensen*, Rückert (Ottensen), XVIII, b 72
——, Robert James, physician (Medicine), XV, a 826
Gravesande, Willem Jacob, van's, mathematician (Musschenbroek), XVII, b 116; (Perpetual Motion), XVIII, b 565–6
GRAVESEND, town, England, XI, b 58; (Kent), XIV, b 40
——, town, New York (Long Island), XIV, b 876
Graves's disease (Goitre), X, b 658–9; (Pathology), XVIII, b 393
Grave-stones, ancient (Ross), XX, b 877
Gravid Uterus, W. Hunter (Anatomy), I, b 715; (Hunter, J.), XII, a 403; (Hunter, W.), a 408; (Strange), XXII, a 617
Gravimeter (Hydrometer), XII, b 570
GRAVINA, city, XI, b 58
GRAVINA, Giovanni Vincenzo, jurist, XI, b 58; (Metastasio), XVI, b 108; (Vico), XXIV, a 229
Graving docks (Harbors and Docks) (Plate X, XII), XI, b 416, a b 420-1
Gravitating Furnaces, IX, a 743
GRAVITATION, XI, a 59–68
  attraction, a b 59
  centre of gravity, a b 62
  falling body, b 59–62
  hodograph, a 64
  lunar motion, b 67–8
  planetary orbits, b 63–8
  problem of three bodies, a 65–7
  projectile trajectory, b 61–2
  two masses, b 62
  universal, b 62–7
  variation, lunar, b 67–8

—— (Adhesion), I, a 140; (Astronomy), II, b 660, a 682–3; (Attraction), III, a 56–9; (Hooke), XII, b 153; (Huygens), a b 432; (Light), XIV, a 583; (Meteorology), XVI, b 151–2
——, J. Clerk Maxwell on (Physical Sciences), XIX, b 6; discovery of law of (Newton), XVII, a 453–6; influence on plant growth of (Physiology), XIX, a 65, b 66–7; Kepler's view of (Astronomy), II, b 658; law of (Law), XIV, a 356; (Mechanics), XV, a b 716
—— theory (Glacier), X, b 561; (Molecule), XVI, b 632; vortex theory of (Atom), III, a 41–2
Gravitational determination of solar Parallax, XVIII, b 250–1
—— machines (Perpetual Motion) (Ill.), XVIII, a b 565
Gravitation dissociation theory (Sun), XXII, a 684
Gravity (Mechanics), XV, a 688, a 709, a 737; centre of (Mechanics), a b 737; (Archimedes), II, a 333; corrections (Barometer), III, a b 333; escapement (Clocks) (Ill.), VI, b 19, a 20–2, b 27, b 29, b 30; governor (Steam-Engine), XXII, *b* 529, a 530; law of (Galileo), X, *a* 29, b 32; lunar deflection of (Tides), XXIII, a b 380; theory of (Descartes), VII, a 108
——, specific, measurement of (Balance), III, b 225; (Hydrometer), XII, a 568–74; Table of, 574
Gravosa, port (Ragusa), XX, a 228
Grawitz, P. (Parasitism), XVIII, b 272, a 273 note
GRAY, town, XI, a 68
——, master of, courtier (Scotland), XXI, b 529, a 530
——, Asa, botanist, *b.* 1810, *d.* 1888 (Distribution), VII, a b 249, a 251; (Morphology), XVI, b 871; (Surveys), XXII, *a* b 936 (Torrey), XXIII, b 481
GRAY, David, poet, XI, a 69
——, Dorothy (Gray, T.), XI, a 70, a 71, note
——, Edward Whitaker, naturalist (Pianoforte), XIX, b 82
——, Elisha, electrician (Telegraph), XXIII, a 134; (Telephone), a b 139, *a* b 142
—— George Robert, ornithologist (Kakapo), XIII, b 834; (Ornithology), XVIII, a b 18, a 20; (Woodpecker), XXIV, a 687
—— and Hardwicke (Ornithology), XVIII, b 15
——, John, friar (Stigmatization), XXII, a 578
GRAY, John Edward, naturalist, XI, a 69–70; (Echinodermata), VII, a 545, b 555; (Ornithology), XVIII, b 15; (Reptiles), XX, b 448, b 451, a b 452, a b 453, note, a b 454
——, J. M'Farlane, engineer (Steam-Engine), XXII, b 526, a 533 note
——, Peter, mathematician (Annuities), II, a 66, note, a 67, a 68, a 71, a 76; (Tables), XXIII, b 17, a 18
——, Robert, explorer (United States), XXIII, b 806; (Washington), XXIV, a 408
——, Robert, naturalist (Ornithology), XVIII, b 22
——, S., botanist (Gray, J. E.), XI, a 69
——, Stephen, physicist (Electricity), VIII, b 5–6
——, S. F., botanist (Gray, J. E.), XI, a 69
——, Thomas, physicist (Seismometer), XXI, a b 659, note, b 660
GRAY, Thomas, poet, XI, a 70–1; (Horace), XII, b 164; (Mason), XV, a 617; (Walpole), XXIV, *b* 354
"Graybeards" (Pottery and Porcelain) (Ill.), XIX, b 650, a 651
Gray cast Iron, XIII, b 287, b 290
—— hen (Grouse), XI, a 198
GRAYLING, fish, XI, a b 71; (Angling), II, a b 38; (Ichthyology), XII, b 703, a 732; (Manistee), XV, b 497; (Salmonidæ), XXI, a 232, b 234, note, a 236
Graylock or Saddle mountain (United States), XXIII, b 842
Gray matter of cerebrum (Anatomy), I, b 760; (Physiology), XIX, b 46–9; excitability of (Physiology), a b 32, a 33
—— nuns (Montreal), XVI, a 821
—— Plover, XIX, a b 239
—— Poplar, XIX, b 525
—— powder (Mercury), XVI, a 39, a 40
Gray's Inn (Inns of Court), XIII, b 93–4, *a b* 95, a 97; (Libraries), XIV, a 516; Garden (London), b 858
—— Peak (United States), XXIII, a 846
Gray's, Peter, mortality tables (Insurance), XIII, a 177, a 179

Gray's process (Logarithms), XIV, b 786
Gray-sour (Bleaching), III, a 709
Gray's saddle boiler (Horticulture) (Ill.), XII, a 234
Graz, town. See Gratz; (Libraries), XIV, a 549
Grazalema, town, XI, b 71
Graziani, Guido, painter (Guido), XI, b 229
Grazing (Agriculture), I, a 331-2; (Land), XIV, a 271; (New South Wales), XVII, a 420; counties, list of (England), VIII, a b 203
—— Monks (Monachism), XVI, b 727
Grazzini, Anton Francesco, author, XI, b 71; (Italy), XIII, b 520
Grease, horse disease (Jenner), XIII, a 634; (Vaccination), XXIV, b 28, *b* 29
Great agate of Sainte Chapelle (Cameo), IV, a b 653
—— Barrier Reef (Queensland), XX, a 178, a 179
—— Basin (United States), XXIII, a b 848, a *b* 855; (Utah), XXIV, a *b* 24, a 25; forests (United States), XXIII, a b 862
—— Basses Lighthouse, XIV, b 621
—— Bed of Ware (Hertford), XI, a 690
Great Bible (English Bible), VIII, b 345, b 346, a b 347
"Great Britain," steamship (Brunel), IV, a 357; (Shipbuilding), XXI, b 852
Great Britain, country, defined (England), VIII, a 303, note; (Bridges), IV, a 254; (Calendar), a 601; (Calico-Printing), b 606, a 607; (Coffee), VI, a b 101; (Coleoptera), b 116; (Commerce), a b 181, b 182-3; (Declaration of Paris), VII, b 20-1; (Distribution), b 234; (Fire), IX, b 202; (Forests), b 349, *a* b 350-1; (Gold), X, a b 660-1; (Homœopathy), XII, a b 131; (Italy), XIII, a 467, b 496, a 500; (Libraries), XIV, a 514-23, b 542-6; (Liquor Laws), b 694, *a* b 695, a b 696; (National Debt), XVII, a b 252, *b* 253, *a b* 254; (Silk), XXII, a b 71, a b 72; (State, Great Officers of), b 475-7; (Wool), XXIV, a b 688
——, arms of (Heraldry), XI, a b 613-4; commerce (Leather), XIV, a b 391; (United States), XXIII, b 806-7
Great Britain, Geological Survey of (Phillips), XVIII, b 772
——, tenures in (Land), XIV, a 264-6, a 267-71; Veterinary Schools in, XXIV, a b 215; wealth of (United States), XXIII, a 831
Great Britain and Ireland, title, XI, b 71-2; statistics (Coal), VI, b 73-4; Mining, XVI, a b 489; (Newspapers), XVII, a b 431 See British Islands, England and United Kingdom
—— Central Valley (California), IV, b 617-8, b 624
—— Charter. See Magna Charta
—— circle projections (Geography), X, b 186; sailing (Navigation), XVII, b 273-5
—— Council, Venetian (Nobility), XVII, a b 541; (Venice), XXIV, *b* 154, a 155, a 156
—— Countess (Matilda), XV, a 639
"—— Eastern," steamship (Brunel), IV, a b 357; (Russell, J. S.), XXI, b 72; (Seamanship), a 617; (Shipbuilding), b 852-3
—— Eastern Railway, XX, b 234, a 235, b 256, b 260
—— emerald bird (Birds of Paradise), III, a 675, a 676
—— Fish river (Cape Colony), V, b 38, a b 40, a 41; spoliation (Kaffraria), XIII, b 826-7
—— Friend of God (Nicholas of Basel), XVII, a b 499
—— Glen (Scotland), XXI, *a* 545, b 546, a 547, b 548
"—— Harry," ship (Navy), XVII, a 289
Greathead, Henry, boatbuilder (Lifeboat), XIV, a b 575
Great Hoggarty Diamond (Thackeray), XXIII, b 232
—— Lake (Cambodia), IV, *a* b 641
—— Lake (Tasmania), XXIII, a 79
—— Lama (Lhasa), XIV, b 498, b 499, a b 500
"—— *Law of Pennsylvania*" (Penn), XVIII, a 506
—— *Learning* (China), V, *b* 574
"—— Lyric" (Poetry), XIX, b 281-2
—— Marlowe, borough (Buckingham), IV, b 373, a 374
—— Mogul (Clive), VI, b 9-11. See Mughal empire (India), XII, b 832-5
—— North Mountains (United States), XXIII, b 844
—— Northern Diver, VII, a 254
—— Northern Railway, XX, b 234, a 235, a 237, *a* 245, b 247, b 252-3, a b 255, b 256; Tunnel (Ill.), XXIII, a b 665
—— Northern Railway, Ireland (Railway), XX, a 233, b 234, a 235, 253
—— Owl moth (Butterflies), IV, a 531
Great Passion (Dürer), VII, b 480, a b 481
Great Peconic Bay (Long Island), XIV, a 876
—— Plain of the Columbia (Washington), XXIV, a 407
"—— Privilege" (Holland), XII, a b 76, a 80
Greatrakes, Valentine, physician (Magnetism, Animal), XV, b 279-80; (More, Henry), XVI, b 841
Great Russians, race (Russia), XXI, a b 86-7, a b 88
"—— St. Michael," ship (Scotland), XXI, b 518
—— Salt Desert (Khorásán), XIV *b* 68
—— Salt Lake (America), I, a 592; (Lake), XIV, b 222; (Salt Lake City), XXI, a 247, note; (Utah), XXIV, b 24
—— Seal, XXI, a b 614; (Chancellor), V, a 337
—— South Bay (Long Island), XIV, a 876
—— Southern and Western Railway, XX, a 233, b 234, a 235, 253
—— Synagogue, XXII, a 851
—— Tcheremshan river (Samara), XXI, b 254
"—— Thing," assembly (Sweden), XXII, *a* 783
—— Valley (Pennsylvania), XVIII, b 509, b 512; (United States), XXIII, b 844, *a* b 845
—— Vehicle, doctrine (Lāmāism), XIV, a 227-8
—— Wallachia, principality (Vlachs), XXIV, b 289
—— Wash valley (United States), XXIII, b 849
"—— Western," steamship (Bristol), IV, b 316; (Brunel), a 357; (Shipbuilding), XXI, b 852, a 862
—— Western Railway, XX, b 231-2, a 233, b 234, a 235, b 241, a 245, a b 250, b 252, *a b* 253, a 255, b 256
Greaves, residuum (Oils), XVII, b 764
Greaves, John, antiquary, XI, a 72
Grebayadoff, M., envoy (Persia), XVIII, b 660
Grebe, bird (Ill.), XI, a 72-3; (Ornithology), XVIII, a 49
Grebelians, sect (Mennonites), XVI, a 16
Grebo Dictionary, VII, b 167
Grechetto, Il, painter (Castiglione, G. B.), V, a 170
Grecian Archipelago, II, a 334
Grecian. See Greek
Greco, El, or Domenico Theotocopuli, painter, XI, a 73
——, Giacchino, Il Calabrese (Chess), V, a 522
Greece (Plates I, II), XI, a 73-137
  Geography and Statistics, a 73-81
    agricultural products, b 78-9
    boundaries, ancient and modern, a b 73
    character, national, a b 76
    climate, a 75
    education, a b 78
    financial features, b 80-1
    geology, b 74
    government, a b 77
    industrial system, b 78-80
    inhabitants, b 75-7
    natural history, a b 75
    physical features, b 73
    religion, b 78
  History, a 81-112
    Alexander the Great, a 94-5, a 96
    Asiatic Hellas, primitive, b 82
Greece, *continued*
  History
    Athenian hegemony, b 90-1
    Attica, early, a 86-8
    Bulgarian wars, b 103, a 106
    Byzantine empire, b 95-6, a 102-8
    character of later Greeks, b 92, a 98, b 101
    Christianity, primitive, b 98
    Clisthenes, age of, a 88
    colonization, b 85-6
    Comneni, a 105-6
    Constantine the Great, a 99-100
    Constantinople as new capital, b 99
    constitution, mediæval, a 104
    Crusades, b 105-6
    eighteenth century, b 108-9
    eighth century, condition of Greece at opening of, a 101-2
    games, a 85, b 88
    Gothic invasions, b 98
    iconoclastic period, b 102
    Ionic revolt from Persia, b 88-90
    Justinian to Heraclius, a 100-1
    kingdom of Greece, a b 112
    Latin Byzantine empire, a 107
    legislation, ancient, b 84, a b 87, a 88
    Macedonian period, later, b 96-7
    Mahometan conquest, a 108-11
    migrations to Asia, b 83
    migrations in Greece, a 83
    nationality, modern, b 104, a 108, a b 110
    oligarchies, early, a b 85
    organization, primitive, b 83-4
    original races, b 81
    Ottoman government, a 109-11
    Peloponnesian war, b 91-3
    Persian invasions, a 89 90
    Philip of Macedon, b 93-4
    Pisistratus, b 87-8
    pre-historic, a 81-4
    Roman period, a 97-8
    Russians, rise of, b 103-4
    Saracen wars, a 103
    Sparta, early, b 84-5
    Spartan hegemony, b 92
    Theban hegemony, a 93
    tyrannies, b 85
    Venetian wars, b 108
    war of independence, b 111-2

GREECE, *continued*
  INDEX, 136-7
  LANGUAGE, b 112-21
    Æolic, b 117-8
    Attic, a 120
    changes of structure, b 115, a b 116
    compound stems, a b 114
    Doric, b 118-9
    Græco-Italic, a 113-5
    historic Greek, a 117-21
    Indo-Germanic parent language, a 113, a b 115
    inflections, b 114-5, a 116-7
    Ionic, b 119-20
    later Greek, a 121
    mediæval, b 106
    phonetic laws, b 115-7
    qualities of, b 120-1
    roots and stems, b 113-4
  LITERATURE, b 121-36
    Alexandrian Hellenism, a 128
    Attic prose, a 126-7
    authorities, b 436
    Byzantine literature, b 129-31
    decadence, classic period, b 127
    dialects, a 122
    drama, a 125-6
    elegy, classic, b 123
    fall of Constantinople, a 133
    Homeric, b 122-3
    literary language of moderns, b 131-2
    lyric, classical, b 124-5
    mediæval, b 106
    modern, b 131-6
    oratory, Attic, a 137
    poems, modern, b 134-5
    pre-Homeric, a b 122
    prose, modern, b 134, a b 136
    renaissance before the fall of Constantinople, b 132
    Roman period, b 128-9

——, ancient (Agrarian Laws), I, b 256; (Agriculture), b 260-1; (Alexander the Great), a 425; (Amphictyony), a 677*-9; (Crete), VI, a b 505, a 506; (Demosthenes), VII, a b 60; (Education), a 582; (Embroidery), VIII, b 148; (Federal Government), IX, a 55; (Festivals), b 100-1; (Fig), a 135; (Finance), b 150-1; (Fine Arts), a b 185, a b 186, a b 187; (Fire), *b* 199-200; (Flag), b 241; (Flamininus), a b 251-2; (Fortification), a 389; (Fountain), a 428; (Free Trade), a 662; (Funeral Rites), b 724, a b 725
—— (Goths), X, a 755; (Glass), b 577; (Homer), XII, b 114-5; (Insanity), XIII, b 116; (Libraries), XIV, b 509-10, a 552; (Magic), XV, b 202-4; (Miletus), XVI, b 306; (Mirror), a 525; (Piracy), XIX, a 126; (Religions), XX, 372, a *b* 383; (Sumptuary Laws), XXII, b 677; (Torture), XXIII, a 491
——, ancient, alliances in (Rome), XX, b 767, b 770; Armies of, II, a 491-2; Asiatic influence (Asia), b 610; congress of (Pericles), XVIII, b 542-3; decline of (Isocrates), XIII, b 399, b 400
Greece, Description of (Pausanias), XVIII, b 447, b 448 *sq.*
——, *History of* (Grote), XI, b 190, a b 191; (Thirlwall), XXIII, b 326, a 327
——, Roman power in, XX, a 771-3
——, modern (Finlay, G.), IX, a b 192; (Greek Church), XI, b 140-1; (Ionian Islands), XIII, b 211, a 213; (Jews), a 696; (Maurer), XV, a 643; (Mining), XVI, a 491; (National Debt), XVII, a b 253; (Newspapers), a 443; (Nicholas I.), b 498; (Periodicals), XVIII, b 554; (Press Laws), XIX, b 732; (Silk), XXII, a b 71; (Venice), XXIV, a 159
——, boundaries of (Turkey), XXIII, a 694; British attack on (Palmerston), XVIII, a 200; commerce, 18th century (Turkey), XXIII, b 688
Greeff, naturalist (Protozoa), XIX, b 865
Greek Accent, I, a b 77, a 78; (Sanskrit), XXI, a b 285
—— Alphabet, I, 528, a 534, b 535-6; (A), a 10; (E), VII, a 508; (H), XI, a 317; (Hieroglyphics), a 710; (I), XII, a b 636; (S), XXI, a 128-9; (T), XXIII, b 5; (U), a 762; (X), XXIV, a 751-2; (Z), a 799
—— Altar (Ill.), I, b 561-2
—— Anchors, II, a 6
—— Aqueducts, II, a b 191
—— Arms and Armor, II, b 485-6
—— Anthology, II, b 91-3; (Jacobs), XIII, a 549
—— Archæology (Plate VI.), II, b 300-22; (Bronsted), IV, a b 328; (Olympia), XVII, b 788-92
GREEK ARCHITECTURE (Plates VIII-XIII), II, a 352-62, b 388-9; (Atticus Herodes), III, a 54; (Hittorff), XII, a 30; (Terra-Cotta) (Ill.), XXIII, a b 210
—— art (Amazons), I, a b 576; (Drawing), VII, a b 387, a 389; (Enamelling), VIII, b 167; (Etruria), *a b* 562, *a b* 563, *a b* 564, *b* 565, *a b* 566-7; (Fine Arts), IX, a 185-7; (Ganymede), X, b 65-6; (Gems) (Plate I), a *b* 122, a 123, a 124-5; (Mosaics) (Ill.), XVI, b 877; (Mural Decoration), XVII, b 45-7; (Phidias), XVIII, b 747-8; (Punjab), XX, a 116; (Sculpture), XXI, b 585-6, b 593, *b* 598; (Terra-Cotta) (Ill.), XXIII, b 207-10; (Wood-Carving), XXIV, b 679-80; record of (Pausanias), XVIII, b 448, note. See Greek Archæology
—— Asceticism, II, b 591
—— Astrology, II, a 647
—— Astronomy, II, a 652-4
—— Ballot, III, b 251
—— Baths, III, b 375
—— Bronze, IV, b 331-2
—— cartography (Map), XV, a 523-4
—— Cavalry, V, a 228
—— Chariots, V, *a* 348
GREEK CHURCH, XI, a 137-42
    controversies and schisms, internal, b 138-9
    creeds, a 141-2
    monasticism, a 142
    national churches, a 140-1
    patriarchates, b 137-8
    rise of, a b 137
    Roman conflict, a 139-40
    statistics, a 142
    worship, a 142

—— (Austria), III, b 102, *a* 103; (Bishop), a 684; (Canon), V, a b 11, a b 12, a 13, a 15; (Catechisms), b 191; (Celibacy), b 254; (Costume), VI, a b 410; (Dogmatic), VII, a 295; (Eucharist), VIII, b 573; (Europe), b 625, a 626; (Fasting), IX, a 43; (Festivals), b 102-3; (Gennadius), X, *b* 138; (Good-Friday), b 688, a 689; (Greece), XI, b 77-8, a 100, b 101, b 102, b 105, a 109, a b 110; (Hierarchy), b 707; (Holy Water), XII, a 109; (Hymns), a 613-5; (Image Worship), b 749, b 750-1, a b 752; (Immaculate Conception), b 754; (Innocent VI.), XIII, b 91; (Italy), b 468; (John VII., emperor), a 724; (Marriage), XV, a 576; (Melchites), b 847; (Millennium), XVI, b 328, a 329; (Mysteries), XVII, b 133; (Penance), XVIII, b 497, b 498; (Photius), a b 833; (Pilgrimage), XIX, a 104; (Purgatory), XX, a 121; (Russia), XXI, b 89; liturgy of (Lection), XIV, a *b* 398
—— civilization (Political Economy), XIX, b 361-3
—— Clubs, VI, b 38, a b 39
—— coins (Mint), XVI, a 504; (Money), b 750, a 751; (Numismatics), XVII, a 643, *a* b 644, a b 646-51
—— Colonies, VI, a b 142; (Ethiopia), VIII, a 538; (Græcia, Magna), XI, a b 28; (Illyria), XII, a 748; (Libya), XIV, b 555; (Messina), XVI, a 62; (Palestine), XVIII, a 181, a 182; (Pontus), XIX, a 474; (Spain), XXII, a 319-20
—— Costume (Ill.), VI, b 400-2
—— Cross, VI, b 539
—— Dances, VI, b 704
—— dials (Dialling), VII, a b 132
—— Dictionaries, VII, a 158-9; (Guarino, Favorinus), XI, a 211; (Sophocles), XXII, a 917; (Stephens), b 562, a 563
—— Dogs, VII, b 282
—— domination in Mesopotamia, XVI, a 56
—— Drama, VII, b 339, a 341, a 342, a 349-54; (Act), I, b 113; (Æschylus), a b 188; (Euripides), VIII, a 591-6; (Ion), XIII, a 209; (Music), XVII, a 87; (Sophocles), XXII, a 285-7; (Theatre), XXIII, b 240-2; modern, VII, b 362
—— empire. See Byzantine Empire, Eastern Empire
—— Eschatology, VIII, a 474
—— family (Roman Law), XX, a 690
—— finance (National Debt), XVII, b 249
GREEK FIRE, XI, b 142; (Artillery), II, b 572; (Gunpowder), XI, a 283; (Joinville), XIII, b 744; (Mohammedanism), XVI, a 597
—— flute (Transverse Flute), XXIII, b 552
—— galleys (Ship), XXI, b 842-4
—— games, X, *b* 57-9; (Nero), XVII, b 359, a 360
—— Genealogy, X, b 128, note
—— grammarians (Grammar), XI, b 34, a 39
—— Helmet, XI, b 568-9
—— historians and histories, XI, a b 126, a 129; (Diodorus), VII, b 213-4; (Goldsmith), X, *a* 679; (Grote), XI, b 190, *a* b 191, b 192; (Hellanicus), b 566; (Herodotus), b 677-8; (Thirlwall), XXIII, b 326, a 327; (Thucydides), a 344-5; (Vossius), XXIV, b 320; (Xenophon), a 757; modern, XI, a 136
—— hospitality (Hospitium), XII, b 321
—— Hymns, XII, a b 612
—— independence, modern (Byron), IV, b 542; (Canning), b 715; (Dalling), VI, a 688; (Ionian Islands), XIII, a 213; (Metternich), XVI, a b 210; (Russia), XXI, a 110; war (Albania), III, a b 396; (Dundonald), VII, a 467; (Egypt), a 664; (Hydra), XII, b 446; (Samos), XXI, b 262; (Syra), XXII, a 852; (Turkey), XXIII, b 690-1; (Wellington), XXIV, a 526
—— influence (Apocrypha), II, a b 159; (Himalaya), XI, b 745; (Italy), XIII, a 454; (Jupiter), a b 789, a b 790; (Latin Language), XIV, b 329-30, a b 331-2; (Mesopotamia), XVI, a 56
Greek Inscriptions, XIII, a 127-30; (Homer), XII, b 115; (Lycia), XV, b 95; (Mausolus), a 650; (Pottery and Porcelain), XIX, a b 628-9; Arcadian (Greece), XI, *b* 118; Argolic (Greece), *b* 119; Elean (Greece), b 118; (Boeckh), III, a 740; (Evemerus), VIII, b 644; (Numismatics), XVII, b 648-9; Attic (Greece), XI, a b 120; Corinthian (Greece), *a* 119; Cyprian (Greece), b 118; Laconian (Greece), XI, *a* 119; Lebio-

Greek Inscriptions, *continued*
Æolic (Greece), *b* 117; Locrian (Greece), a 119; Troad (Greece), a 120; (Halicarnassus), XI, a 343; (Mysia), XVII, b 130; (Palmyra), XVIII, a b 203, note, b 204, a 206, note, a 207; (Phrygia), b 864, note, a 866 note
—— Jewellery (Plate XI), XIII, *b* 687; (Filigree), IX, a *b* 143, *a* b 144
—— Lamps (Ill.), XIV, b 247-9
GREEK LANGUAGE, XI, b 112-21; (Europe), VIII, a 614; (Grammar), XI, a 36-8; (Homer), XII, a b 117; (Lucian), XV, b 44-5; (Philology), XVIII, a 798, a b 799, note; (Phrygia), a 864, note; compared with Latin, XIV, b 333-4; pronunciation of (Ascham), II, b 592; (Smith, Sir T.), XXII, *a* 188; study of (Bentley), III, a 499-501; (Boccaccio), a 734; (Education), VII, b 583, a 585; (Lilye), XIV, b 65; (More, Sir T.), XVI, a 842; (Porson), XIX, a 538-9; (Reformation), XX, b 335-6; (Reuchlin), b 503, a 504; (Ruhnken), XXI, b 63, a 64; (Wyttenbach), XXIV, a 750-1; introduced in England (Cheke), V, *a* 396; (Erasmus), VIII, b 454; (Grocyn), XI, a 183; revival of (Gaza), X, a b 112; (Renaissance), XX, a 393-7; translations into (Boethius), III, b 744; translations from (Mohammedanism), XVI, a 618; (Syriac Literature), XXII, a b 871, a 875, b 882, a b 883, b 884, b 898
—— language, modern (Greece), XI, b 104, b 106, a 132
GREEK LITERATURE, XI, b 121-36; (Isæus), XIII, a 386-8; (Isocrates), b 398–404; (Manutius), XV, a 520-1; (Mure), XVII, a 60; editions (Bibliography), III, b 567, note; (Fabricius), VIII, a 737; (Hobbes), XII, b 41; (Manutius), XV, a 520; (Sylburg), XXII, b 848. See Greek Rhetoric and Romance
—— manufacture of Iron, XIII, b 296
—— manuscripts (Hyperides), XII, a 632; (Palæography), XVIII, b 149-55; (Papyrus), a 236
—— mathematics (Algebra), I, a b 451, b 456; (Geometry), X, a 341, b 345; (Infinitesimal Calculus), XIII, a 7; (Mathematics), XV, b 636; (Ptolemy), XX, b 93; (Thales), XXIII, a 236-7
—— Medicine, XV, a 809–12; (Pathology), XVIII, a 385; (Surgery), XXII, a 707, a 708–9; (Veterinary Science), XXIV, a 213
—— mercenaries (Persia), XVIII, b 586, a 588, b 589, note, a 592
—— Metal-work, XVI, a b 78, b 79
—— minuscules (Palæography), XVIII, b 153-5; (Typography), XXIII, b 739
—— mirrors (Metal-Work), XVI, a 80
—— Mosaics (Ill.), XVI, b 877
—— mouldings (Building) (Ill.), IV, a 423, b 436
—— Music, XVII, b 85-6, b 106, b 108
—— Mythology, XVII, a 160-2, a b 164-5; (Adam), I, b 126-7; (Deluge), VII, a 50; (Proserpine), XIX, a b 846
Greek New Testament (Alford, Henry), I, b 445, a 446; (Bengel), III, b 493; (Bible), b 560; (Erasmus), VIII, a 458; (Stephens), XXII, *a* 562; (Tischendorf), XXIII, b 436; (Wetstein), XXIV, b 548, *a* 549
—— notation (Numerals), XVII, b 640, a b 641
—— oratory (Demosthenes), VII, a b 64; (Lysias), XV, a 120. See Oratory
—— pastorals (Theocritus), XXIII, a b 272
—— Philosophy, XVIII, a b 805; (Æsthetics), I, b 193–5; (Alchemy), b 407–8; (Clemens Alexandrinus), V, a 717; (Eclectic), VII, a 558; (Eleatic School), VIII, a b 3–4; (Epicurus), b 420-1; (Ethics), b 507–18; (Lucian), XV, b 44, a 45, b 46; (Parmenides), XVIII, a 321; (Plato), XIX, b 206–23; (Pythagoras), XX, b 144–6; (Socrates), XXII, b 248–51; (Stoics), a 590-1; (Theism), XXIII, b 257–8; (Zeno), XXIV, a 817–8; *History of* (Brandis), IV, a b 194
—— politics, ancient (Government), XI, *a* b 11, b 15; (Isæus), XIII, a 386; (Isocrates), b 399–400, a b 401, a b 403
—— Priests, XIX, a b 744, b 745
—— printing in England (Typography), XXIII, b 739–40
—— reckoning (Calendar), IV, *b* 589, a 590, b 592-3; (Chronology), V, a b 617-8
—— religion (Apotheosis), II, a 175; (Apparitions), a 177; (Inscriptions), XIII, a 129; (Lustration), XV, a b 71; (Pilgrimage), XIX, a b 100; (Religions), XX, 372, a *b* 383; (Sacrifice), XXI, *a* 142, b 143, *a* b 144, *a b* 145, a *b* 146 note; (Taboo), XXIII, b 22, a 23; (Theism), b 257; (Zeus), XXIV, a b 821. See APOLLO, ARTEMIS, and names of other deities
—— Revolution. See Greek Independence
—— Rhetoric, XX, a 523–8; (Isæus), XIII, a b 387; (Lysias), XV, b 119-20
—— Rings, XX, a 575, a 576
—— Romance, XX, b 649-52; (Heliodorus), XI, b 564
—— Romanists or United Greeks (Roman Catholic Church), XX, b 646; (Russia), XXI, b 89
—— roofs (Tiles), XXIII, a b 414
—— short-hand (Palæography), XVIII, a b 168
—— Slavery, XXII, a 138–9
—— society (Euripides), VIII, a b 591
—— superstitions (Demonology), VII, b 53, b 54, a 56. See Greek Religion
—— Sword (Ill.), XXII, b 839, a 840
—— temples. See Greek Architecture
—— Theatres (Ill.), XXIII, a 241-2
—— Tonsure, XXIII, b 472
—— weaving (Textiles) (Ill.), XXIII, a b 224, b 225, note
—— Weights and Measures, XXIV, a b 510, a b 513, a 515-6
—— Wines, XXIV, *a* 636, a 644
—— writing (Palæography), XVIII, a 147–55, b 169
Greeks, ancient (Brewing), IV, a 236; (Cyprus), VI, b 660–1; (Dorians), VII, b 317–8; (History), XII, a b 22–3, a b 26; (Hunting), b 408–9; (International Law), XIII, a 197; (Marseilles), XV, b 580; (Sicily), XXII, b 19, a *b* 20–6, a 27, a 28; (Wax Figures), XXIV, a 486; Asiatic, wars with Persia, XVIII, a 578, a 582-6; character of, under Roman Empire (Greece), XI, b 95, *a* b 98; congress of (Pericles), XVIII, b 542-3
——, *Hortatory Address to* (Clemens Alexandrinus), V, a 715
——, modern (Constantinople), VI, a 275; (Fallmerayer), IX, b 16; (Greece), XI, *b* 75, a b 76, a 78; (Italy), XIII, a 478, b 479; (Mohammedanism), XVI, a 584, a 595, a 602, a 603, a 609; (Slavs), XXII, a 154; (Ural Mountains), XXIV, b 9; character of (Greece), XI, a b 76
GREELEY, Horace, journalist, XI, a 143–5; (Lincoln, A.), XIV, b 666; (Newspapers), XVII, a 446; (Protection), XIX, a 938, b 940; (United States), XXIII, a 833; (Weed, T.), XXIV, *a* 889; his presidential campaign, (Republican Party), XX, a 907
Greely, Adolphus W., explorer (Polar Regions), XIX, b 338, *a* 339; (Signal Service), XXII, a 903; (Surveys), b 940
Green, Ashbel, minister (Witherspoon), XXIV, a 907
——, Benjamin, editor (Newspapers), XVII, *b* 444
——, Charles (Aëronautics), I, *a b* 173, b 174, a 176, *b* 181, a 182
——, George (Electricity), VIII, *a* 15, b 22, a 23, a 24, b 27–8, b 30, a b 33
—— John C., merchant (Princeton), XIX, b 761
——, John Richard, historian (Shakespeare), XXI, a 776
——, Noble T., inventor (Steam-Engine), XXII, b 921, a 922
——, Cadbury and Richards, manufacturers (Button), IV, b 533
Greenbacks, currency (United States), XXIII, a 824; in California (Money), XVI, a 757
Green Bay (Wisconsin), XXIV, b 649, a *b* 650, b 651
GREEN BAY, town, XI, b 145; (Wisconsin), XXIV, a 652
Green-bone, fish (Gar-Fish), X, b 72
Green charge (Gunpowder), XI, a 290
—— colors (Barytes), III, a 350; (Chromium), V, a 613; (Copper), VI, *a* 312; (Dyeing), VII, a b 500; (Pigments), XIX, b 96; aniline (Coal Tar Colors), XVIII, a 904
—— crop fallow (Agriculture), I, b 300-2
GREENE, Maurice, composer, XI, b 145
GREENE, Nathanael, general, XI, a 146; (United States), XXIII, b 792; his widow (Whitney), XXIV, a 897
GREENE, Robert, dramatist, XI, a 146-8; (Drama), VII, a b 371; (Harvey, Gabriel), XI, a 448; (Pastoral) XVIII, b 351; (Shakespeare), XXI, a 785, b 791, a b 794-5, *a b* 798
——, Thomas, clerk (Shakespeare), XXI, a 780
Green earth (Holland), XII, b 64
Greener's bullet (Gunmaking), XI, a 250
GREENFINCH, bird, XI, a 148
Green Hellebore, XI, b 566, note, a 567
GREENHEART, tree, XI, a 148; wood (Harbors and Docks), a 414, b 415
Greenhouse (Heating), XI, a 529; (Horticulture) (Ill.), XII, a 225–37; calendar (Horticulture), a 303–8; plants (Horticulture), a 270–8; roof, construction (Horticulture), b 225 note, a 226
Green humming bird (Tody), XXIII, a 460
—— Ivory, XIII, a 532
GREENLAND or Grönland, XI, a 148–53
    climate, b 150
    geology, b 149–50
    government, b 151–2
    history, a 153
    ice covering, b 148–9
    limits of, a 148
    natural history, b 150–1
    trade features, a 152

—— (America), I, b 588, b 601, b 619–20; (Birds), III, b 637, a b 653; (Demonology), VII, a b 56; (Egede), b 603; (Eider), a 685; (Funeral Rites), IX, b 724, a 725; (Meteorology), XVI, b 144, a 145, b 159, b 162, a 163; (Seal), XXI, a b 609, a 610
——, climate of (Geology), X, a *b* 195; coast subsidence (Geology), X, b 228

Greenland Dictionaries, VII, b 167
—— discovery of (Geography), X, *b* 159; (Iceland), XII, a 660
—— dove (Guillemot), XI, a 233
——, exploration of (Polar Regions), XIX, a b 336, a b 338
—— fishing (Whale), XXIV, a 556
—— flora (Distribution), VII, a b 250
——, fossil plants of (Geology), X, a 319
——, Geology of, X, a b 323; (Polar Regions), XIX, b 340
—— iceberg (Polar Regions), XIX, a 340
——, poetry of (Iceland), XII, b 657
—— right Whale (Ill.), XXIV, a b 552, a 553, b 554, b 555, a b 556
—— *Sagas* (Iceland), XII, a 660
—— sea (Norwegian Sea), XVII, a 607
—— Shark (Ill.), XXI, b 814; (Ichthyology), XII, a 724
——, Emma Jane, artist (Encaustic Painting), VIII, a 171
Greenlaw, town (Berwickshire), III, b 529, a 530
GREENLEAF, Simon, jurist, XI, b 153
Green Mountain Boys (United States), XXIII, a 836; (Warner), XXIV, a 884
—— Mountains (America), I, a 596; (Appalachian Mountains), II, *b* 175; (New Hampshire), XVII, a 400; (Quebec), XX, b 171; (United States), XXIII, a b 842, a 843; (Vermont), XXIV, b 180, a 181
—— muds (Pacific Ocean), XVIII, a 126, a 128
GREENOCK, town (Plan), XI, b 153-5; (Scotland), XXI, a 551, b 558, a 559
Greenockite, mineral (Cadmium), IV, a 558, a 559; (Mineralogy) (Ill.), XVI, b 408
GREENOUGH, Horatio, sculptor, XI, a 155
——, John J., inventor (Sewing Machines), XXI, a 918
Greenovite (Mineralogy), XVI, a 444
Green Passion (Dürer), VII, b 480
—— Park (London), XIV, a 831, a 833, a 850
—— Pond Mountains (United States), XXIII, a 843
—— rays (Light), XIV, b 605, a b 606
—— river (Colorado River), VI, a 149; (Wyoming), XXIV, b 748
—— river (Kentucky), XIV, *b* 43; (Mammoth Cave), XV, a 457
Greensand, upper cretaceous (Geology), X, b 317
Green's economizer (Steam-Engine), XXII, b 522
—— formula (Magnetism), XV, b 259; reflection formula (Wave Theory), XXIV, a b 484, note
—— theorem (Hydromechanics), XII, a 458, a b 462, a 467; (Infinitesimal Calculus), XIII, a b 63
GREENSHANK, bird, XI, a 155
Green sickness (Dietetics), VII, a 179
Greenside (Edinburgh), VII, a 574
—— mines (Westmorland), XXIV, a 544
Green sparrow (Tody), XXIII, a 460
Green-stick fracture (Surgery), XXII, a 716
Greenstone (Geology), X, b 209, b 274
Green Tea, XXIII, *a* 106, a *b* 107, a 109
—— Tobacco, XXIII, *b* 451
—— turtle (Tortoise) (Ill.), XXIII, a 487, b 488
Greenville, county and town (South Carolina), XXII, *b* 301, b 302
Greenwell, canon, antiquarian (Pottery and Porcelain), XIX, a 620
GREENWICH, town, XI, b 155-6; (Clocks), VI, b 16, a 17, b 19, a 26; (London), XIV, *a* 827, b 829, *a* b 830, *a b* 831, a b 842, b 843, a 845; (Meteorology), XVI, a 139, b 149
—— Hospital, XII, b 319; (London), XIV, a 827; (Seamen Laws), XXI, a 635, a b 637
—— Naval College (Dockyards), VII, a 273, note
—— Royal Observatory, XVII, a 730; (Clocks), VI, a 15, b 16, a 17, b 19, a 26; (Flamsteed), IX, a 253; (Meteorology), XVI, b 166, b 175, a 180, b 182, b 185, b 191; (Telescope) (Ill.), XXIII, a b 161, b 170; (Time), a 421; (Transit Circle), b 547, *a* 548, b 549
——, John Campbell, duke of (Argyll), II, b 438, a 439
Greenwood cemetery (Brooklyn), IV, b 334
——, John, dentist (Washington), XXIV, b 411 note
——, John, theologian (Independents), XII, a b 762, note
——, Thomas, historian (Popedom), XIX, a 525
Greetings (Salutations), XXI, b 247-9
Greg, William Rathbone, essayist (Gaskell), X, a 95
Gregale, wind (Malta), XV, b 342; (Meteorology), XVI, b 154
Gregarina, genus (Protozoa) (Ill.), XIX, b 858, *a* 859, b 860, b 877, a b 878, b 879, b 889
Gregarinidæ, group (Animal Kingdom), II, *a* 46; (Parasitism), XVIII, a 263
Gregarinidea, sub-class (Protozoa) (Ill.), XIX, a b 877-8, *b* 879
GRÉGOIRE, Henri, bishop, XI, a b 156; (Slavery), XXII, *b* 148
Gregor, William, chemist (Titanium), XXIII, a 437
Gregoras, Nicephorus (Byzantine Historians), IV, a b 545
Gregorian Calendar, IV, b 591, *a* 594, b 595, a b 596, a 597, b 599-601; Table, 598; (Sacro-Bosco), XXI, b 148
—— chant (Plain Song), XIX, b 179, *a* 180
Gregorian Code (Justinian I.), XIII, a 802; (Roman Law), XX, *a b* 731
—— Hymns, XII, a b 616
—— Music, XVII, b 87, a 92
Gregorian Sacramentaries (Liturgy), XIV, b 714, b 715
—— Telescope (Ill.), XXIII, b 157
Gregorio da Spoleti, scholar (Ariosto), II, a b 442
Gregorius of Corinth, grammarian (Greece), XI, b 130
——, Mar, patriarch (Thomas), XXIII, a 329
Gregorovius, Ferdinand, historian (Alexander VI.), I, b 433; (Rome), XX, *b* 802, a 805, a 809, b 824
GREGORY I. the Great, pope, XI, b 156-7; (Abbot), I, a 28; (Benedict, St.), III, *a* 481; (Clergy), V, b 722, a 723; (English Literature), VIII, a 360; (Golden Rose), X, a 675; (Image Worship), XII, *a* 751; (Italy), XIII, b 478; (Libraries), XIV, a 511, a 512; (Litany), a 702; (Livy), a 732; (Missal), XVI, b 532; (Monachism), a b 733; (Popedom), XIX, a b 508, b 523; (Purgatory), XX, a 121; (Rome), *a* 801; (Sicily), XXII, a b 28
GREGORY II., pope, XI, b 157; (Image Worship), XII, a b 751; (Italy), XIII, b 478; (Leo III., Emperor), XIV, *b* 453; (Popedom), XIX, a 509, a 524; (Rome), XX, b 801, b 803
GREGORY III., pope, XI, b 157; (Popedom), XIX, a 509, a 524
GREGORY IV., pope, XI, b 157
GREGORY V., pope, XI, b 157; (Excommunication), VIII, b 699; (Popedom), XIX, a 512, a 524; (Rome), XX, b 807
GREGORY VI., pope, XI, b 157; (Popedom), XIX, a 512, a 524
GREGORY VII., pope, Hildebrand, XI, b 157-9; (Berengarius), III, *b* 505-6; (Celibacy), V, *a* 255; (England), VIII, b 262, b 266; (Germany), X, a *b* 438; (Henry IV., Emperor), XI, b 595; (Investiture), XIII, b 207; (Italy), a b 481, a 482; (Lollards), XIV, *b* 819; (Monachism), XVI, a 735; (Popedom), XIX, a b 513, note, a 524; (Robert Guiscard), XX, b 612; (Roman Catholic Church), b 644; (Rome), b 808-9; (Spain), XXII, b 330; (Urban II.), XXIV, b 12; (Waldenses), *a* 344
—— VIII., antipope (Gelasius II.), X, a 117
GREGORY VIII., pope, XI, a 159
GREGORY IX., pope, XI, a 159; (Crusades), VI, b 556-7; (Edmund, St.), VII, *a* 580; (Enzio), VIII, a b 404; (Frederick II.), IX, b 643, *a* 644; (Greek Church), XI, b 139; (Inquisition), XIII, *a* b 99; (Italy), b 485; (Popedom), XIX, b 513, a 515, b 524; (Rome), XX, a b 813-4; (Universities), XXIII, a 891, a b 894; *Decretals of* (Canon Law), V, b 18, *a* b 19, a 21
GREGORY X., pope, XI, a 159; (Celestines), V, b 253; (Conclave), VI, a b 213; (Germany), X, b 442; (Polo), XIX, b 418; (Popedom), a b 515, b 524
GREGORY XI., pope, XI, a b 159; (Baldus), III, b 238; (Catherine), V, b 201-2; (Popedom), XIX, b 516, b 524; (Rome), XX, *a* b 820; (Wycliffe), XXIV, b 745
GREGORY XII., pope, XI, b 159; (Popedom), XIX, b 516, b 524; (Recanati), XX, b 322; (Rome), a 822; (Universities), XXIII, a 893
GREGORY XIII., pope, XI, b 159; (Calendar), IV, b 591, b 595; (Camaldulians), b 638; (Carmelites), V, b 103; (Carnival), a 109; (John, Don), XIII, a 728; (Popedom), XIX, a 519, b 524; (Portugal), b 562; (Ursulines), XXIV, a 19; (Zuccaro), *a* 865
GREGORY XIV., pope, XI, b 159; (Jesuits), XIII, b 663, *b* 664
GREGORY XV., pope, XI, a 160; (Caste), V, b 166; (Jesuits), XIII, a 662; (Popedom), XIX, a 520, b 524; (Propaganda), a b 831
GREGORY XVI., pope, XI, a 160; (Lamennais), XIV, *b* 240; (Pius IX.), XIX, b 166
GREGORY, St., the Illuminator, XI, a b 160; (Armenia), II, a 480, a b 481, a 482; (Etchmiadzin), VIII, *a* 500
—— of Cappadocia (Athanasius), II, b 725, a 726
—— of Cyprus, abbot (Syriac Literature), XXII, b 868
—— of Heimburg. See Heimburg
GREGORY, St., of Nazianzus, XI, b 160-1; (Canon), V, b 11; (Fathers of the Church), IX, b 44, a 45; (Hymns), XII, *a* 614; (Julian), XIII, a b 779; (Limbus), XIV, a 653; translations from (Syriac Literature), XXII, *b* 883, note
GREGORY, St., of Nyssa, XI, b 161-2; (Nemesius), XVII, a 341; (Pilgrimage), XIX, a 103
GREGORY, St., Thaumaturgus, XI, a b 162; (Creeds), VI, a 495; *Epistle* of (Penance), XVIII, b 496
GREGORY, St., of Tours, historian, XI, b 162-3; (Chronology), V, a 619; (Church History), a 668; (Irenæus), XIII, a *b* 279; (Mary), XV, a 599; (Seven Sleepers), XXI, *b* 730; (Ursula, St.), XXIV, b 17
—— of Kashkar, catholicus (Syriac Literature), XXII, b 879

Gregory, Caspar René, scholar (Tischendorf), XXIII, b 436 note
——, Sir Charles Hutton, engineer (Celano), V, a 249; (Railway), XX, a 247
GREGORY, David, wizard, XI, a 163
GREGORY, David 2d, mathematician, XI, a 163
GREGORY, Duncan Farquharson, mathematician, XI, b 163–4; (Boole), IV, b 42; (Trigonometry), XXIII, a b 607
GREGORY, James, mathematician, XI, a 163; (Infinitesimal Calculus), XIII, a 20; (Squaring the Circle), XXII, b 452–3; (Telescope), XXIII, b 148; (Trigonometry), b 597
GREGORY, James, physician, XI, b 163
GREGORY, John, physician, XI, a b 163
GREGORY, Olinthus, mathematician, XI, a 164; (Tables), XXIII, a 16
GREGORY, William, chemist, XI, b 163; (Magnetism), XV, b 280
Gregory's series (Trigonometry), XXIII, b 607
Gregúss, Augustus, poet (Hungary), XII, a b 393, note, a 395
GREIFENBERG, town, XI, a 164
GREIFENHAGEN, town, XI, a 164
Greiffenklau, Richard von, archbishop (Treves), XXIII, a 588
GREIFSWALD, town, XI, a b 164; (Pomerania), XIX, b 457; University of, XXIII, b 897
Greillade in Catalan forge (Iron), XIII, a 345
Greisen (Granite), XI, b 44
GREIZ or Greitz, town, XI, b 164; (Reuss), XX, a 508
Grellmann, philologist (Gipsies), X, b 547, b 549, a b 551
GRENADA, island, XI, b 164–5
Grenadine, fabric (Muslin), XVII, a 116
Grenadines, islands (Grenada), XI, a 165
Grenelle, Artesian well at, II, b 564
Grenfell, explorer (Zaire), XXIV, *b* 802, a 803
GRENOBLE, town (Plan), XI, a 165–6; (Isère), XIII, *a* 396; Bibliothéque de (Globe), X, a 609; (Universities), XXIII, b 894
Grentismenil, Hugh de, baron (Hinckley), XI, b 746
GRENVILLE, George, premier, XI, a 166; (Burke), IV, b 483, a 484, a 485, a 490; (Bute), a 518; (Cabinet), a b 550; (Chatham), V, b 383; (England), VIII, b 319-20; (Franklin, B.), IX, b 627, b 628; (Pitt), XIX, b 152; (United States), XXIII, *a* b 785, a 7[illegible]; (Wedderburn), XXIV, a b 502
——, Sir John, pirate (Scilly Islands), XXI, a 487
——, Thomas, statesman (Panizzi), XVIII, a 216
GRENVILLE, William Wyndham, lord, XI, b 166; (Grey, Earl), XI, b 170; (Pitt), XIX, b 155, *a* 157, a 158; (Slavery), XXII, *a* 148
Gresham, Sir John, lord mayor (London), XIV, a 857
GRESHAM, Sir Thomas, merchant, XI, b 166-7
—— college (Bull, John), IV, b 463; (London), XIV, *a* 845
Gresham's law (Money), XVI, a 757
Gresik, town. See Grisee
GRESSET, Jean Baptiste, poet, XI, b 167
Greswell, Edward, historian (Chronology), V, a 625
Gretchen, inamorata (Goethe), X, b 643
GRÉTRY, André Ernest Modeste, composer, XI, b 167–8
Gretti the Strong. *Sagas of* (Iceland), XII, b 659
GREUZE, Jean Baptiste, painter, XI, a 168-9; (Diderot), VII, b 169; (Houdon), XII, *b* 328
Grevenmacher (Luxemberg), XV, *a* 89
Greville, Sir Fulke, Lord Brooke (Warwick), XXIV, b 401
GREVILLE, Charles Cavendish Fulke, diarist, XI, a b 169; (Pianoforte), XIX, *b* 81; *Memoirs of* (Campbell), IV, b 669 note, a 670 note
Grevin, Jacques, poet (Drama), VII, a b 366, notes
Grévy, François Jules Pole, president (France), IX, b 552, a *b* 553
GREW, Nehemiah, naturalist, XI, b 169; (Anatomy), I, a 713; (Botany), IV, *a* 72 3
Grey, Arthur, lord-deputy (Ireland), XIII, b 270–1
GREY, Charles, earl, XI, b 169-72; (Brougham), IV, b 338, a *b* 340, a *b* 341; (Palmerston), XVIII, a 198; (Parliament), *b* 314; (Smith), XXII, a 188; (Spencer), a b 406; (William IV.), XXIV, b 612-3
——, Sir Charles, general, XI, *b* 169
——, Sir George, secretary (Prison Discipline), XIX, b 771, a 772
GREY, Lady Jane, XI, a 172–3; (Ascham), II, b 592; (England), VIII, b 303; (Foxe, J.), IX, b 443
——, Lady Mary (Gresham), XI, a 167
——, Sir Ralph, traitor (Knighthood), XIV, b 126
——, Reginald de, Earl of Ruthin (Glendower), X, a 605
——, Wilson, explorer (Western Australia), XXIV, *a* 537
Grey, color. See Gray
Grey Friars Abbey, I, a b 27
Grey-hen (Blackcock), III, b 694
Greyhound (Dog) (Ill.), VII, b 284–5; (Coursing), VI, b 457, *a* 458; (Hunting), XII, a 409
Grey lag Goose, X, a *b* 691
Greyling, fish. See GRAYLING
Greylock, peak (Massachusetts), XV, a 618
GREYTOWN, Nicaragua, XI, a 173; (Canal), IV, *b* 701; (Nicaragua), XVII, b 490
Greywacke, rock (Geology) (Ill.), X, a 206, a 212
Gribble, animal (Crustacea), VI, a 583
Gribeauval, Jean B. Vaquette de, artillerist (Army), II, b 495; (Artillery), *b* 575
GRIBOYEDOFF, Alex. Sergueevich, dramatist, XI, a b 173; (Moscow), XVI, b 886; (Russia), XXI, b 115
Gridiron (Harbors and Docks), XI, b 420
—— pendulum (Clocks), VI, a 16
—— valves (Steam-Engine), XXII. b 527
Grief (Insanity), XIII, a 111
GRIESBACH, Johann Jakob, philologist, XI, b 173–4; (Bible), III, b 560
Grieseltstock, mountain (Schwyz), XXI, a 486
Griessmayer, chemist (Hops), XII, a b 161
Gries's reagent (Nitrogen), XVII, a 534
GRIFFIN, myth, XI, a 174; (Cherubim), V, a 510
GRIFFIN, Gerald, novelist, XI, b 174–5
Griffin's furnace (Chemistry), V, b 472
Griffith, Sir Richard, geologist (Ireland), XIII, b 229, a 230, a 248
——, Ralph, publisher (Periodicals), XVIII, b 546, note
—— ap Cynan, prince, Wales, (Eisteddfod), VII, a 686
Griffon, bird (Vulture), XXIV, *a* 323
Grig, king (Scotland), XXI, b 500
Grignan, Françoise Marguerite, Madame de (Sévigné), XXI, b 736, *b* 737, *a b* 738, a *b* 739, a 740
Grihya-sūtras, domestic rules (Brahmanism), IV, a 184; (Sanskrit), XXI, a 288, *a* 290, a b 291, b 292
Grijalva, Juan de, navigator (Cortes), VI, b 390
Grille (Architecture), II, b 408; Eleanor- (Metal Work) (Ill.), XVI, b 82
GRILLPARZER, Franz, dramatist, XI, a 175–6; (Germany), X, a 485
Grilse, growth stage (Salmonidæ), XXI, b 235
Grimaldi, family (Monaco), XVI, a 744
——, F. M., mathematician (Astronomy), II, a 659
Grimaldi, Geronimo, Marquis de, statesman (Spain), XXII, *b* 354; (Aranda), II, b 270; (Aranjuez), a 271
GRIMALDI, Giovanni Francesco, painter, XI, a 176
——, Joseph, clown (Pantomime), XVIII, b 220
——, Stacey, antiquary (Genealogy), X, a 130, note
Grimani, Marino, doge (Venice), XXIV, a 158
Grimké, Angelina Emily, abolitionist (Weld), XXIV, b 889
——, Sarah Moore, abolitionist (Weld), XXIV, b 889
GRIMM, Friedrich Melchior, Baron von, XI, a b 176; (Diderot), VII, b 169, a 170; (France), IX, a 590; (Sainte-Beuve), XXI, b 173
GRIMM, Jacob Ludwig Carl, philologist, XI, a 177–9; (Celtic Literature), V, b 260; (Dictionary), VII, a b 156, *a* 157; (Germany), X, a 461; (Philology), XVIII, b 794–5; (Slavs), XXII, a 157
GRIMM, Wilhelm Carl, philologist, XI, b 179–80; (Grimm, J. L. C.), *a b* 177, *a* 178; (Homer), XII, b 123
—— brothers, philologists (Folk-lore), IX, a 313, a 314; (Germany), X, b 485
GRIMMA, town, XI, a 180
Grimmelshausen, H. J., Christoph von, novelist, (Germany), X, b 475
Grimmia, mosses (Muscineæ), XVII, b 76, a 77, b 79, a 80
Grimm's Household Tales, XXIII, b 32
Grimm's law (B), III, a 150; (D), VI, a 667; (Grimm), XI, a 179
Grimnismal (Edda), VII, b 564
GRIMSBY, Great, town, XI, a b 180; (Fisheries), IX, b 217–8, a *b* 223, a 224; (Harbors and Docks) (Plate XI), XI, b 419
Grimsel, mountain (Switzerland), XXII, b 815; pass (Alps), I, a 550
Grimthorpe, lord. See Beckett
GRINDAL, Edmund, archbishop, XI, b 180; (Foxe, J.), IX, b 443
Grindall, William, teacher (Ascham), II, *b* 592
Grindelwald, glacier (Switzerland), XXII, b 815
Grinding (Copper), VI, a 311; (Cutlery), VI, a 648; (Screw), XXI, a b 579; malt (Brewing), IV, b 244; tanning materials (Leather), XIV, b 382
—— mill (Agriculture), I, b 290
GRINDSTONE, XI, b 180–1; (Michigan), XVI, a 248
Gringo, Harry, pseudonym (Wise), XXIV, b 906
GRINGOIRE or Gringon, Pierre, poet, XI, b 181; (France), IX, b 573
Gringonneur, Jacquemin, painter (Cards), V, a 88
Grinnell, Iowa, town (United States), XXIII, b 858 note
—— Arctic expedition (Kane), XIII, a 847; (Polar Regions), XIX, b 334
Griphosaurus. See Gryphosaurus
Gripper, cable (Tramway) (Ill.), XXIII, a b 540
Griqualand, East, district (Kaffraria), XIII, a b 826
GRIQUALAND, WEST, province, XI, b 181–2; (Africa), I, a 242; (Cape Colony), V, b 37, b 38, b 39, *b* 42; (Diamond), VII, b 142

Griquas, race (Cape Colony), V, b 42; (Orange River Free State), XVII, *b* 837
Grisee, town (Java), XIII, a 617
Griseldis, tales of (Romance), XX, a 676
Gris Nez, promontory (Pas de Calais), XVIII, b 344
Grisonia, genus (Mammalia), XV, a 447
GRISONS or Graubünden canton, XI, a 182–3; (Switzerland), XXII, a b 814, b 815, a b 816, a b 818, a 819, b 832, a 833
Grisopolis, town. See PARMA
Grist-tax (Italy), XIII, a 476
Griswold, Rufus W., author (American Literature), I, a 630; (Poe), XIX, b 267, a 268
Grits, rocks (Cork), VI, b 357, a 358
GRIVEGNEE, town, XI, a 183
Grizzly Bear, III, *b* 398, a 399
—— Peak (Colorado), VI, b 145
Groat, coin (Mint), XVI, b 505; (Numismatics), XVII, a 673, a 674
Groat's-worth of Wit (Greene), XI, b 146, a 147, a 148
Grocer's Company, VI, a 199, a 200
Grochowo, battle of, 1831 (Warsaw), XXIV, b 397
Grochowski, Stanislaus, poet (Poland), XIX, a 312
GROCYN, William, scholar, XI, a b 183; (English Literature), VIII, b 369; (More, Thomas), XVI, a 842
GRODNO, province and town, XI, b 183; (Russia), XXI, a 76, a b 87, a 88
GROEN VAN PRINSTERER, Wilhelm, historian, XI, b 183–4
Groined roofs (Architecture), II, b 374, a 375, a 378; vaulting (Architecture), a 409; work (Architecture), b 408–9
Grolier, Jean, bibliophile (Book-Binding), IV, b 37
Gromia, genus (Foraminifera) (Ill.), IX, b 326, a 327; (Protozoa), XIX, a 860
Gromiidea, order (Protozoa) (Ill.), XIX, a b 868
Gröndal, Benedikt, poet (Iceland), XII, b 658
Grond wet, law (Transvaal), XXIII, *a* 552
Grongar Hill (Dyer), VII, a 502
Groneman, H. J. H., astronomer (Aurora), III, *a* 86
GRONINGEN, town, XI, a 184; (Holland), XII, a 64, *a* 66, a 67, b 69, a b 71, a 81; province (Holland), *a* 62, a 63, *a* b 64, a 65, *a* 66, *a* b 67, a 68, a b 69, a 70, b 76, b 79, *a* 87
GRONOVIUS, Jakob, humanist, XI, b 184
GRONOVIUS, Johann Friedrich, humanist, XI, b 184–5
——, Johann Friedrich, naturalist (Linnæus), XIV, b 679, a 680
Grooming horses, XII, a 197–9; (Veterinary Science), XXIV, b 217–8
Groot, Albert. See ALBERTUS MAGNUS
GROOT, Gerhard, mystic, XI, a b 185; (Mysticism), XVII, *a* 141
Groote Eylandt islands (Carpentaria), V, a 112
—— Kerk (Hague), XI, a 333
—— Market (Gouda), XI, a 3
Grooved rail (Tramway) (Ill.), XXIII, a b 538, a b 539
—— surfaces, colors of (Light), XIV, a 614
Grooving metals, effect of (Strength of Materials) (Ill.), XXII, b 631–2
GROS, Antoine Jean, painter, XI, b 185–6; (Charlet), V, a 372
Grosart, Alexander Balloch, divine (Spenser), XXII, b 407, *a* 408, *b* 410
GROSBEAK, bird, XI, a b 186; nest of (Birds), III, a b 669; sociable (Weaver-Bird), XXIV, a 489
Gros bois, instrument (Oboe), XVII, a b 726
GROSE, Francis, antiquary, XI, b 186–7
Grose-Farm, park (Sydney), XXII, b 846
Grosetto, coin (Numismatics), XVII, b 675
Gross Aletsch, glacier (Switzerland), XXII, b 815
Grossbeeren, battle of, 1813 (Napoleon I.), XVII, b 226
Gross Cophta, play (Goethe), X, a 651
Grosse Isle (Quebec), XX, a 174
Grosse Margot, poem (Villon), XXIV, a 251
GROSSENHAIN, town, XI, a 187
Grosser Beerberg, mountain (Saxe-Coburg), XXI, a 363; (Thuringia), XXIII, a 353
Grosser Kalm, mountain (Saxe-Weimar), XXI, b 364
GROSSETESTE, Robert, bishop, XI, a 187–8; (England), VIII, b 284–5; (England, Church of), b 334; (English Literature), b 365, a 366; (Scholasticism), XXI, b 444, b 445
GROSSETO, town, XI, b 188
Gross Glockner, mountain (Alps), I, a 546, b 553
Grossi, Niccolò, artist (Metal-Work) (Ill.), XVI, b 81
GROSSI, Tommaso, poet, XI, b 188–9
Grossularite, mineral (Garnet), X, *a* 74
Gross Venediger, mountain (Alps), I, a 546, b 553
GROSSWARDEIN, city, XI, a 189
Gros Veneur, myth (Jew, Wandering), XIII, a 685
Grosvenor Gallery (Rosa), XX, b 870; (Schools of Painting), XXI, *a* 466
——, Sir Robert (Heraldry), XI, b 611
Gros Ventres, tribes (Indians), XII, a b 872
GROTE, George, historian, XI, a 189–92
    early literary schemes, a b 190
GROTE, *continued*
    educational period, a b 189
    Harriet Lewen, wife, b 192–3
    history writing, a b 191
    institutions, a b 192
    last works, a 192
    parliamentary period, a 191
—— (Aristotle), II, b 449, a b 450, a b 453 note, a 454 note, b 459; (Ballot), III, b 249, note; (Category), V, a 195; (Comte), VI, b 206, a 207; (Hesiod), XI, b 694; (Homer), XII, a b 121, *a* 122, a 125; (Mill, John Stuart), XVI, a 322, a 323, a b 325; (Persia), XVIII, b 592, b 593, b 617; (Slavery), XXII, *a* 138; (Thirlwall), XXIII, a b 326; (Thucydides), a 345, a 347; (Usury), XXIV, b 22; criticism of (Sophists), XXII, b 281–4
——, Harriet Lewen, XI, b 189, *a b* 190, *b* 191, *b* 192–3
GROTEFEND, Georg Friedrich, philologist, XI, a b 193; (Alphabet), I, a 531; (Chronology), V, a 617; (Persia), XVIII, b 667
Grotesque in arts (Arabesque), II, *a* 204; (Feltre), IX, b 61. See CARICATURE
GROTIUS, Hugo, jurist, XI, b 193–6
    estimate of, b 195–6
    exile period, a 195
    imprisonment, b 194
    official life, b 193–4
    youth, b 193
    Mary, b 193, b 194, a 195
—— (Anthology), II, b 93; (Canticles), V, b 30; (Contraband), VI, a 285; (Ethics), VIII, a 525; (Gentili), X, b 144, a 145; (Holland), XII, a *b* 81, b 96, b 98; (International Law), XIII, a b 197, b 199, b 200; (Milton, John), XVI, a 339; (Pocock), XIX, b 265; (Pufendorf), XX, a b 105; (Vico), XXIV, b 228, *b* 229
GROTON, Conn, XI, a 196; Heights (New London), XVII, a 409
Grotta dei Colombi (Cave), V, b 234
Grotta del Cane (Agnano), I, a 253; (Cave), V, a 231
GROTTAGLIE, town, XI, a 196
Grotthuss, hypothesis of (Electrolysis), VIII, b 106
Grotto of Baradla (Agtelek), I, b 372; of Posilipo (Crypt), VI, a 591; of Pythagoras (Architecture), II, a 363
Grottoes (Capri), V, b 69; (Egypt), VII, b 670, a b 672, a 673, b 677; (Lourdes), XV, *a* 26; (Macao), b 125–6; sacred (Temple), XXIII, b 181; of St. John, Syracuse (Catacombs) (Ill.), V, b 187–8
Grouchy, Emmanuel, marquis de, marshal (France), IX, a 544; (Napoleon), XVII, a 231
Grough nitre (Gunpowder), XI, a 285, b 288
Ground, Bosse's etching, preparation (Engraving), VIII, b 394
——, sinking of the (Europe), VIII, b 598–9
Ground-hog, woodchuck or marmot (Mammalia), XV, b 408
—— -Ice, XII, b 646
—— -Log, XIV, a 777
GROUND NUT or peanut, XI, b 196; (Gambia), X, *b* 54; oil (Oils), XVII, a 765, a 766, a 767
Ground Rent, XX, a 415
Grounds, joiner's (Building) (Ill.), IV, b 440
GROUNDSEL, plant, XI, b 196–7
Ground-Snakes, XXII, b 199–200, a 203
—— -swell (Geology), X, b 251–2, a 253; (Labrador), XIV, a 176
—— -tissue of plants (Histology), XII, a b 21
—— water (Hygiene), XII, b 601
GROUSE, bird (Ill.), XI, a 197–8; (Birds), III, a 634, a 641, a 655, b 656; (Shooting), XXI, b 873; (Sweden), XXII, b 779; North American (Instinct), XIII, b 164
GROUSE, SAND, bird, XXI, b 270–1; (Ornithology), XVIII, a 50, note
Grout, cereal (Agriculture), I, b 265
Grouting walls (Building), IV, b 413
Grouven, A., chemist (Paraffin), XVIII, b 245
GROVE, sanctuary, XI, b 198
Grover & Baker, inventors (Sewing Machines), XXI, a b 755, b 918, a b 919, b 920
Grove's batteries (Electricity), VIII, b 13, a 14, a b 82, a 88
Growan stone (Pottery and Porcelain), XIX, b 662
Growse, F. S., orientalist (Hindustani Literature), XI, *b* 755
Growth (Biology), III, a 588; animal (Nutrition), XVII, b 705; of plants (Physiology), XIX, b 64–9; from egg (Zoology), XXIV, b 855
Growth of Popery (Marvell), XV, b 595
Gruamons, sculptor (Pistoia), XIX, a 141
Grubb, Sir Howard, optician (Telescope), XXIII, b 152, a b 155, b 158, a 161, b 170; his ghost Micrometer, XVI, b 266; Micrometer (Ill.), a b 253, a 257–8; object-glasses (Telescope), XXIII, *b* 153, a b 154; mounting (Telescope), a 160, a b 161, *a b* 164, b 165–6, b 169; siderostatic telescope (Ill.), b 167–8
Grubbers and grubbing (Agriculture) (Ill.), I, a 278, b 280, b 282, a b 301, a b 302
Grubenmann brothers, engineers (Bridges), IV, a 300, b 301
Gruber, Jacob, preacher (Taney), XXIII, a 921
GRUBER, Johann Gottfried, encyclopædist, XI, b 198–9; (Encyclopædia), VIII, b 185

Grub-mthah-sel-kyi-mé-lon, Scripture (Tibet), XXIII, a 366
Grudie river (Sutherland), XXII, a 764
Grueber, John, Jesuit, traveller (Lhasa), XIV, a 502
Gruel, illusionary food (Oat), XVII, a 716
Grues, group of birds (Ornithology), XVIII, b 49
Gruet, Jacques, martyr (Geneva), X, a 134
Gruffyd ab Cynan, king (Celtic Literature), V, b 276, *a* 277
—— ap Llywelyn, king (Harold II.), XI, *b* 434, a 435
—— ab yr Ynad Coch, poet (Celtic Literature), V, a 278
Grugru-nut (Nuts), XVII, b 683
Gruinard bay (Scotland), XXI, a 544
Grumbling Hive (Mandeville), XV, *b* 479
Grummet-strop (Seamanship) (Ill.), XXI, b 620, a 621
GRUN, Anastasius, or Auersperg, poet, XI, a 199; (Germany), X, a 488
GRUN, Hans Baldung, painter, XI, a b 199; (Engraving), VIII, b 389-90
Grunauite (Mineralogy), XVI, a b 407
GRUNBERG or Gruneberg, town, XI, b 199
Grundlov of Eidsvold, constitution (Norway), XVII, a 597
Gründmoräne (Geology), X, a b 250, a 326
Grundriss der Naturphilosophie (Oken), XVII, b 771
GRUNDTVIG, Nikolai Frederik Severin, poet, XI, b 199-200; (Denmark), VII, a 81
—— Svend, mythologist, XI, a 200
Grundzüge der Historik (Gervinus), X, a 494
Grunerite (Mineralogy), XVI, 436
Grüner's fuel table (Iron), XIII, a 325
Grünewald, battle of, 1410 (Poland), XIX, a 301
GRUNEWALD, Mathias, painter, XI, a b 200
Gruppe, Jan, critic (Tibullus), XXIII, *b* 372, a 373
Grus, genus (Crane), VI, *a b* 484
Grusen, metal (Fortification), IX, *b* 400
Grusians, tribes (Caucasus), V, a 224
Gruson, *Grosses Einmaleins* (Tables), XXIII, a 12
GRUTER or Gruytère, Jan, critic, XI, b 200
Gruyer, biographer (Raphael), XX, a 290 note, a 295
GRUYÈRE, district, XI, b 200; (Freiburg), IX, *b* 670, *a* 671; Cheese, V, a 395
Gryfe, river (Renfrew), XX, *a* 407
Gryll Grange (Peacock), XVIII, b 455, a 456
Grylli, gems (Caricature), V, b 91
Gryllidæ, group (Insects), XIII, b 159
Gryllotalpa vulgaris, cricket (Wheat) (Ill.), XXIV, b 564
Gryllus (Plutarch), XIX, b 246
GRYNÆUS, or Gryner, Johann Jakob, theologian, XI, b 200-1; (Buxtorf), IV, *a* 535
GRYNÆUS, Simon, reformer, XI, a 201; (Ptolemy), XX, a 96
Gryphi (Reptiles), XX, a 449
GRYPHIUS, Andreas, poet, XI, a b 201; (Drama), VII, b 380-1; (Germany), X, a 475
——, Sebastian, printer (Rabelais), XX, a 201
Gryphon. See Griffin, Griffon
Gryphosaurus, fossil (Birds), III, b 631; (Ornithology), XVIII, b 37
Gsen-rábs, god (Tibet), XXIII, a 366
Gtsangma klu hbum dkar-po, sutra (Tibet), XXIII, a b 366
GUACHARO, bird, XI, b 201-2
Guacin, drug (Guaco), XI, a 202
GUACO or Guao, plant, XI, a b 202
GUADALAJARA, province, XI, b 202-3; (Spain), XXII, b 312
GUADALAJARA, or Guadalaxara, Mexico, town, XI, a b 203; (Mexico), XVI, a 910
GUADALAJARA, Spain, city, X, a 203; (Libraries), XIV, b 554
Guadalaviar or Turia, river (Valencia), XXIV, a *b* 39
Guadalcanal or Guadalcanar, island (Solomon Islands), XXII, b 265, note, a b 266, a 267
Guadalete, battle of, 711 (Jerez de la Frontera), XIII, a 640
Guadalhorce pass (Spain), XXII, b 308
Guadalquivir, river (Andalusia), II, b 11; (Huelva), XII, *b* 347; (Jaen), XIII, a 551; (Seville), XXI, b 740, a 741; (Spain), XXII, *a* 307, a b 308, *a* b 309, a 310, a b 311, *b* 313, a 315, a 319
Guadalupe mountains (Texas), XXIII, a b 221, a 222; river (Texas), b 220
Guadalupe, Our Lady of, shrine (Mexico), XVI, a 217, b 230
—— Hidalgo. See Treaty of
Guadalvin river (Ronda), XX, b 862
Guadancal. See Guadalcanal
Guadarrama mountains (Segovia), XXI, b 653
GUADELOUPE, island, XI, b 203-4; (Barbados), III, b 310, *a* 311; (France), IX, a 465; (West Indies), XXIV, b 538, b 539; (Yellow Fever), b 771
Gua de Malves, Jean Paulde, scientist (Encyclopædia), VIII, a 180
Guadet, Marguerite Elie, orator (Robespierre), XX, a 618
Guadiana river (Estremadura), VIII, *b* 497, a 498; (Portugal), XIX, b 551; (Spain), XXII, b 308, *b* 309
——, town. See DURANGO
Guadianamenor, river (Granada), XI, b 40
Guadiaro, river (Malaga), XV, a 318
GUADIX, town, XI, b 204
GUADUAS, town, XI, b 204
Guahan, island (Ladrone), XIV, *b* 200
Guaiacene, drug (Guaiacum), XI, a 205
Guaiacol, drug (Guaiacum), XI, a 205; (Tar), XXIII, a 63
GUAIACUM, tree, XI, b 204-5
Guaira, town. See La Guaira
Guaishi, Nihon history (Japan), XIII, a 597
Guajara peak (Canary Islands), IV, a 705
Guajiros, tribe (Lake Dwellings), XIV, a b 223
Gualan, town (Guatemala), XI, a 214
Gualandi, Michelangelo, author (Robbia), XX, a 607 note
GUALDO TADINO, town, XI, b 205
GUALEGUAY, town, XI, a 206; river, a 206
GUALEGUAYCHU, city, XI, a 206
Gualillos, pass (Andes), II, b 17
Gualtier, Philip, poet (Scylla and Charybdis), XXI, a 601
GUAN, bird, XI, a 206
—— language (Gold Coast), X, a 673
GUANACO, animal, XI, a b 206; (Alpaca), I, *a* 526; (Bolivia), IV, *b* 12-3; (Llama) (Ill.), XIV, b 745, a 746
Guanahani, island (West Indies), XXIV, a 538. See San Salvador
Guanaja, island (Honduras), XII, a 133, a 134, a 136
Guanajuatite (Mineralogy), XVI, a 410
GUANAJUATO, city, XI, b 206; silver mines (Mexico), XVI, a 225, note; state (Mexico), a 223, b 907, b 908, b 909
Guañape, island and town (Peru), XVIII, b 684, a 688
Guancabelica, town (Huancavelica), XII, a 341
Guanches, people (Canary Islands), IV, a 703; (Embalming), VIII, b 146
Guango river (Africa), I, b 227
Guanine, alkaloid (Guano), XI, b 207
GUANO, XI, b 206-9; (Africa), I, b 241; (Agriculture), b 271, a 306, a 308, a b 309, a b 314, b 318; (Bolivia), IV, a 14; (Callao), a 627; (Chincha Islands), V, a 584-5; (Horticulture), XII, b 238; (Humboldt, A.), b 357; (Java), XIII, b 613; (Manure), XV, *a* 519; (Mexico), XVI, a 910; (Nitrogen), XVII, a 531; (Peru), XVIII, b 684, a 688, b 692; beds (Geology), X, b 257; Native (Sewerage), XXI, b 747
Guanuco, town (Huanuco), XII, a 341
Guap, island (Caroline Islands), V, a 111
Guapey, river (Bolivia), IV, a 12, b 14
GUARANA, plant, XI, a 209
Guarani Indians (America), I, b 603, a 610, a b 616; (Argentine Rep.), II, b 430, *a* 431; (Dictionaries), VII, a 168; (Indians), XII, b 864 notes, b 865, b 868-9; (Paraguay), XVIII, b 248, note
Guaranine, drug (Guarana), XI, a 209
GUARANTEE or guaranty, XI, b 209; (Partnership), XVIII, a 336; of contracts (Roman Law), XX, a *b* 719. See WARRANTY
Guarapo, liquor (Brewing), IV, b 236
GUARATINGUETA, town, XI, b 209
Guarayos tribe. (Indians), XII, b 864 note, b 869
Guard-cells, stomata (Histology), XII, *b* 19
GUARDI, Francesco, painter, XI, b 209-10
Guardian (Infant), XIII, a b 4; (Insanity), a 119; (Will), XXIV, b 604; (Women), b 674, b 675
Guardian (Addison), I, b 136; (Steele), XXII, b 555
Guardian Angels, II, b 26
—— in chivalry (Knighthood), XIV, a 116
—— of the Kingdom (Wallace), XXIV, b 347, a 348
Guardians, poor (Parish), XVIII, b 302; (Poor Laws), XIX, a b 488
Guardianship in jùs civile (Roman Law), XX, a 706-7; in jus naturale (Roman Law), b 725, b 732
Guardiola, General, president (Honduras), XII, a 136
Guard-ring accumulator (Electricity) (Ill.), VIII, b 32
Guards Memorial (London), XIV, b 849
GUARIENTO, painter, XI, a 210
Guarini, Camillo Guarino, architect (Turin), XXIII, *b* 670, a 671
GUARINI, Giovanni Battista, dramatist, XI, a 210-1; (Drama), VII, b 360, a 362; (Pastoral), XVIII, b 350
GUARINO of Verona, classicist, XI, a 211
GUARINO, lexicographer, XI, a 211
Guarnerius, jurist. See IRNERIUS
Guasco, Ottaviano da, author (Cantemir), V, a 26
GUASTALLA, town, XI, a b 211; province (Parma), XVIII, a b 320
——, duchess of (Bonaparte), IV, b 27; duchy of (Gonzaga), X, *a* 687
GUATEMALA, republic (Plate III.), XI, b 211-4; (America), I, a 623, b 626; (Caste), V, a 163; (Comayagua), VI, a 159; (Costa Rica), a 399; (Dance), a 704; (Railway), XX, a 263
—— gum (India-Rubber), XII, a 876, a b 879
——, Le Nueva, city, XI, b 214
Guatemozin, emperor (Mexico), XVI, b 227, b 230

Guatteria, tree (Lancewood), XIV, b 259-60
Guatusos Indians (Costa Rica), VI, a 398
GUAVA, fruit, XI, b 214-15
Guaviare, river (Colombia), VI, a 138; (Orinoco), XVII, a b 868
Guayacan, tree (Forests), IX, b 357
Guayado, songs (Portugal), XIX, a 570
GUAYAQUIL, town, XI, a b 215; (Acclimatization), I, *b* 84; (Dampier), VI, a b 701; (Ecuador), VII, a 561, a *b* 562, *a* 563; (India-Rubber), XII, b 878; (Quito), XX, b 195
——, river (Ecuador), VII, b 560, *b* 561
Guayaquillite (Mineralogy), XVI, b 447
Guaycurus race (Indians), XII, a 869
Guayrá Falls (Brazil), IV, a 199, a 200
——, river and port (Carácas), V, a 72, a 73
——, La, district (Paraguay), XVIII, a b 249
GUAYRA, La, town, XI, b 215
Guaza, drug (Hemp), XI, a 579
Guazuma ulmifolia (Botany) (Ill.), IV, *a* 118
Gubbi'n Gundi, river (Niger), XVII, b 510
GUBBIO, town, XI, b 215; ware (Pottery and Porcelain) (Ill.), XIX, a b 645, a b 646
——, Angioletto da, painter, (Glass), X, a 598
GUBEN, town, XI, a 216
Guberliusk, mountains (Ural Mountains), XXIV, b 8
Gubernatione Dei, De (Salvian), XXI, b 250, *a* b 251
Gūbōs, convent (Syriac Literature), XXII, a b 892, note
Gudalur. See CUDDALOR
Gudarz-ibn-Gio, king (Kurdistan), XIV, a 160, note
Gudbrand, bishop (Iceland), XII, b 662
—— Laagen (Norway), XVII, b 589
Gudbrandsson, Thorlak, poet (Iceland), XII, b 658
Gudenaa, river (Denmark), VII, b 70
Gudensberg, Giso, count of (Hesse), XI, a 696
Gudermann, mathematician (Tables), XXIII, b 18, a 19; (Trigonometry), b 603, a 604; *Theorie* of (Logarithms), XIV, a 784
GUDGEON, fish, XI, a 216; (Angling), II, a b 40; (Ichthyology), XII, a 731
Gudrun, myth (Nibelungenlied), XVII, *a* 488
Gudrun, poem (Germany), X, b 469
Guebwiller, town. See GEBWEILLER
Guejarite (Mineralogy) (Ill.), XVI, b 410
GUELDERLAND, duchy, XI, a 216-7; province, a 217; (Holland), XII, a *b* 64, *a* 65, a 66, *a* b 67, a 68, a b 69, *a* b 70, a b 71, a 73, a 75, b 76, b 78, b 79, b 81, a 87
GUELDER ROSE, tree, XI, a 217
GUELDERS, town, XI, a 217
—— fowl (Poultry), XIX, b 665
Guelf or Welf VI., Bavaria, duke (Germany), X, *b* 439
GUELFS, XI, a 217-8; (Cino da Pistoia), V, b 686; (Dante), VI, a b 713, b 714-5; (Florence), IX, b 292; (Gherardesca), X, b 505; (Italy), XIII, a 483, a b 485, b 486, b 487; (Pisa), XIX *a* b 129; (Rimini), XX, *a* 571; (Rome), a b 814, *a* 815, a b 816, a 817, a 818; (Siena), XXII, a b 45
GUELPH, town, XI, a 218
——, family (Hanover), XI, b 399
Guénaù de Montbeillard, Philibert, naturalist (Ornithology), XVIII, a 10
Guendar, town. See GONDAR
Guenhumara or Guinevere of Round Table (Romance), XX, *a* b 659, b 662, *a* 663, a 665
Guerara, Antonio de, bishop (Spain), XXII, b 373
Guérard, Benjamin Edme Charles, antiquary (Slavery), XXII. *a* 145, b 153
Guercino, painter. See BARBIERI
——, Da Cento, painter. See CENTO
GUÉRET, town, XI, a 218
GUERICKE, Otto von, physicist, XI, a 218; (Air-Pump), I, b 380, note; (Electricity), VIII, a b 5; (Pneumatics), XIX, b 257
Guérin, Eugénie de, XI, b 218
GUÉRIN, Georges Maurice de, poet, XI, b 218
GUÉRIN, Jean Baptiste Paulin, painter, XI, b 218-9
GUÉRIN, Pierre Narcisse, painter, XI, a b 219; (Delacroix), VII, *a* 36
Guerin or *Garin de Montglane* (Romance), XX, a 666, b 667-8
GUERNSEY, island, XI, b 219-20; (Agriculture), I, *b* 366, *a* 367; (Alderney), a 419; (Channel Islands), V, *a b* 340, *a* b 341; (Climate), VI, *b* 6; (Presbyterianism), XIX, b 705
Guerra, cardinal (Cenci), V, a *b* 289
——, Aureliano Fernandez, author (Spain), XXII, *a* 376
Guerra, Arte di (Machiavelli), XV, b 151
Guerra de Granada (Mendoza), XVI, a 14
Guerras de Granada (Romance), XX, b 675; (Spain), XXII, a 372
GUERRAZZI, Francesco Domenico, novelist, XI, a 220; (Italy), XIII, a 526
Guerre des Dieux, poem (Parny), XVIII, b 324
GUERRERO, town, XI, a 220; state (Mexico), XVI, a 223, a b 909, b 911
——, archbishop (Trent, Council of), XXIII, b 583, a 584
——, Vincente, dictator (Santa Ana), XXI, a 905
Guerrière, capture of the (Hull), XXIII, b 838
Guerriero, painter. See GUARIÈNTO
Guesclin. See DU GUESCLIN
Guess, George, alphabet-maker (Cherokees), V, a 509
Guest, ancient entertainment (Hospitium), XII, b 321
——, Charlotte, antiquary (Celtic Literature), V, *b* 276, b 278, b 285; (Romance), XX, b 665
——, Edwin, antiquary (England), VIII, a b 243, note; (London), XIV, a 850 note, *a* 852, a 853; (Middlesex), XVI, a 293
Guest-flies (Galls), X, b 42
Guétin bridge (Bridges) (Ill.), IV, b 294, a 295
Gueux, Les, party (Egmont), VII, b 606; (Holland), XII, *b* 77, a 78
GUEVARA, Antonio de, chronicler, XI, b 220; (Lyly), XV, b 105-6; his *Diall of Princes* (North, Sir T.), XVII, b 568
——, Luis Velez de, dramatist, XI, b 220
Guevei, species (Antelope), II, a 90
Gugaira, district (Montgomery), XVI, b 815
Gugè plateau (Himalaya), XI, b 737, b 739, a 742
Gugler war, 1374-5 (Switzerland), XXII, b 823
GUGLIELMI, musicians, XI, b 220
——, Pietro, musician, XI, b 220
Guglielmini, Domenico, scientist (Crystallography), VI, a 595; (Hydromechanics), XII, *a* b 452; (Morgagni), XVI, a 848
Guhlab Singh, ruler (Kashmir), XIV, *b* 15
GUIANA (Map), XI, b 220-6
    British, a 221-3
    Dutch, a 223-5
    French, a 225-6
    general boundaries, a 221
    history, a 221, b 224, a 226
    literature, a 223, a 225, b 226
—— (Forests), IX, b 357; (Mining), XVI, a b 493; (Raleigh), XX, b 275-6; (Vanilla), XXIV, a 74
——, British, XI, a 221-3; (Libraries), XIV, b 552; (Patents), XVIII, a 362
——, French, XI, a 225-6; (Brazil), IV, a b 208; (France), IX, a 465
——, Cedar of, V, b 248; current (Atlantic Ocean), III, b 18; gum (India-Rubber), XII, b 877; harbors of (Yellow Fever), XXIV, b 771, *a* 773; races (Indians), XII, b 868; sub-region (Distribution), VII, a 238
Guia Narrows (Patagonia), XVIII, a 357
Guibal's fan (Coal) (Ill.), VI, a b 66; (Tunnelling), XXIII, b 663
GUIBERT or Wibert, antipope, XI, b 226-7. See Clement III., Antipope
GUIBERT of Nogent, theologian, XI, b 226; (Apparitions), II, a 179
GUICCIARDINI, Francesco, historian, XI, a 227-8; (Italy), XIII, a b 519; (Machiavelli), XV, a *b* 152, a 153; (Medici), b 798, a b 799, a 800
——, Luigi, traveller (Typography), XXIII, b 732, b 734
Guiccioli, Teresa Gamba, countess (Byron), IV, a 538, *a* 540, a b 542, b 543, a 544
Guichard of Beaulieu, poet (English Literature), VIII, b 363
Guida Spirituale (Molinos), XVI, b 653, a 654
Guide of the Perplexed (Maimonides), XV, b 298-9
Guide-pulleys (Coal), VI, a b 70
—— rope, balloon (Aëronautics), I, b 174
Guides or conductors (Coal), VI, b 69; (Mechanism), XV, b 775
Guide to Sinners (Granada, Luis de), XI, a 42
GUIDI, Carlo Alessandro, poet, XI, b 228
——, Ignazio, orientalist (Semitic Languages), XXI, b 675, note; (Syriac Literature), XXII, b 894, note
GUIDICCIONI, Giovanni, poet, XI, b 228; (Jesuits), XIII, *b* 663
GUIDO of Arezzo, composer, XI, b 228-9; (Hucbald), XII, *a* 343; (Music), XVII, b 87; (Pianoforte), XIX, a b 73, *a* 74
—— delle Colonne, poet (Italy), XIII, b 509; (Romance), XX, b 654-a *b* 655
—— Reni, painter. See RENI
GUIDO of Siena, painter, XI, b 229; (Schools of Painting), XXI, b 451, a 462
Guidon (Flag), IX, a 243
GUIENNE, province, XI, b 229; (Aquitania), II, b 203
Guiers-Mort, river (Chartreuse), V, *b* 376
Guiffrey, Georges, author (Marot), XV, a 571 note
Guignes, Christian Louis Joseph, orientalist, XI, a 230
GUIGNES, Joseph de, orientalist, XI, b 229-30; (Huns), XII, *b* 397; (Turks), XXIII, b 700 note, a 701, b 704
Guignet's green (Borax), IV, a 46
Guigo, prior of Chartreuse (Carthusians), V, a b 143
Gui-hua-tcheng, town. See KUKU KHOTO
Guija, lake (Guatemala), XI, b 212
GUILD, XI, a 230-2
    classical, b 230-1
    definition, a b 230
    peace, a 231
    social, b 231
    trade, a 232
——, butchers' (Abattoir), I, a 13; of calendars (Bristol), IV, a 317; of goldsmiths

Guild, *continued* (Palmyra), XVIII, b 204; Hallamshire (Cutlery), VI, a 647; of the Holy Cross (Birmingham), III, a 679; (Stratford), XXII, a 619; meistersänger (Music), XVII, a 91; merchants' (Preston), XIX, *b* 738; of St. Ann at Knoll (Shakespeare), XXI, a 781; silversmiths' (Plate), XIX, a 198; weavers' (Bruges), IV, b 355. See Guilds
——, Reuben A., librarian (Bibliography), III, a 574
GUILDFORD, town, XI, b 232
——, Frederick North, Lord, Chancellor, V, a 337
——, Earls. See MAITLAND, NORTH
Guildhall (Crypt), VI, b 592; (London), XIV, *a* 829, b 843, a 856, b 859; (Steelyard Merchants), XXII, a b 556; (Worcester), XXIV, b 702; library, London (Libraries), XIV, b 515
Guilds (Aberdeen), I, b 43; (Adulteration), a 152; (Belgium), III, a 365; (Borough), IV. *a* b 56; (Company), VI, a 197, b 198–200; (Free Trade), IX, a 668; (Friendly Societies), *b* 685; (Labor), XIV, a 174; (London), a b 828, a 845; (Lübeck), XV, a b 35; (Municipality), XVII, a b 36; (Novgorod), b 622; (Paris), XVIII, b 294; (Paul), b 429; (Political Economy), XIX, a 366; (Wages), XXIV, a 331
——, artists' (Pianoforte), XIX, a b 86; Florentine (Dante), VI, b 713, a 714; German trade (Steinway), XXII, b 926; glovers' (Glove), X, b 617; literary (Holland), XII, b 94–5
——, mediæval (Apprentice), II, b 185, a 186; (Castes), V, b 162; (Rome), XX, a b 802, a 813, b 814, a 817, a 821; (Universities), XXIII, a 887, b 888, *a* 889; (Venice), XXIV, a b 168
——, poets' (Germany), X, a 471
——, Roman (Club), VI, a 39; (Mercury), XVI, a b 36; (Roman Law), XX, b 692, note
Guilford, borough (Surrey), XXII, *b* 729, *a* 730
—— Court House, battle of, 1781 (Tarleton), XXIII, a 923; (United States), b 792
Guillaume Tell, opera (Rossini), XX, a 884
Guillem de la Barra (Provençal Literature), XIX, a 901
GUILLEMOT, bird, XI, b 232–3; (Egg), VII, a b 604
Guilletué, lake (Chili), V, a 536
GUILLOTINE, XI, a 233–4; (Scotland), XXI, a 529
——, Joseph Ignace, physician, XI, b 233, a 234
Guilt, Greek idea of (Lustration), XV, a b 71
Guilt and Sorrow, poem (Wordsworth), XXIV, b 704, note
GUIMARAES, city, XI, a 234
Guimet, Jean Baptiste, chemist (Ultramarine), XXIII, a 769
Guinand, Pierre Louis, optician (Glass), X, a b 593; (Telescope), XXIII, *b* 150
GUINEA, territory, XI, a b 234; (Africa), I, b 223, a b 225, b 230, *b* 235, b 240–1; (Negro), XVII, b 325, a 327; (Ordeal), a 843; discovery of (Geography), X, a 161
——, Lower (Forests), IX, b 359; current (Atlantic Ocean), III, b 19
GUINEA-FOWL, XI, b 234–5; (Africa), I, b 232; (Poultry), XIX, a 667; (Turkey), XXIII, a 699
—— Goat, X, a 633
—— grains (Grains of Paradise), XI, a 33; (Pepper), XVIII, a 528
—— grass (Jamaica), XIII, a b 559; (Millet), XVI, b 333
—— pepper (Cayenne Pepper), V, b 243–4; (Horticulture), XII, a 292
Guinea-pig (Cavy), V, a 241; (Breeds), IV, b 220; (Mammalia), XV, b 421, a 422, a 426; epilepsy in (Zoology), XXIV, b 857
—— rods, money (Brass), IV, a 197
—— worm (Nematoidea), XVII, b 334; (Parasitism), XVIII, b 275
Guinean avifauna (Birds), III, a b 658
Guinegate, battle of, 1479 (France), IX, a 488
Guinevere or Guenhumara of Round Table (Romance), XX, *a* b 659, *b* 662, *a* 663, a 665
GUINGAMP, town, XI, a 235
Guinicelli, Guido, poet (Compass), VI, b 202; (Italy), XIII, b 511
Guinness, Benjamin Lee, baronet (Dublin), VII, a *b* 432
Guinotte's steam-engine (Mining), XVI, b 480
Guipure Lace, XIV, a 190
GUIPUZCOA, province, XI, a b 235; (Spain), XXII, b 312
Guiraca, bird (Grosbeak), XI, b 186
Guiraut de Borneil, poet (Provençal Literature), XIX, b 899, a b 900
Guiria, town (Venezuela), XXIV, a 152
Guirlande de Julie (Rambouillet), XX, b 276–7
Guiron le Courtois (Romance), XX, *b* 664, b 665
GUISBOROUGH, town, XI, b 235
Guiscard, Marquis de, assassin (Oxford, Earl of), XVIII, a 104
——, Robert, duke of Calabria (Basilica), III, b 360; (Crusades), VI, b 550, b 551; (Ionian Islands), XIII, a 212; (Italy), b 481
GUISE, town, XI, b 235
GUISE, House of, XI, b 235–7; (France), IX, b 491, *b* 493, *a* b 494, b 495, *a b* 496; (Montmorency), XVI, a 818; (Philip II.), XVIII, a b 759
——, Charles, cardinal of, XI, b 236
——, Charles, duke of, XI, b 236–7
——, Francis, duke of, XI, a b 236; (Coligni), VI, *a* 127; (Henry II., France), XI, *b* 597
——, Henry I., duke of, XI, b 236; (Bastille), III, b 371; (Coligni), VI, a b 127; (Paris), XVIII, a 297
——, Henry II., duke of, XI, a 237
——, Henry III., duke of (France), IX, b 495
——, Louis, cardinal of, XI, a b 236
Guisoni, Fermo, painter (Pippi), XIX, b 122
GUITAR, musical instrument, XI, a b 237; (Lyre), XV, a 115; (Lute), a 72
Guiton, Jean, mayor (Rochelle), XX, b 628, a 629
Guittone d'Arezzo, poet (Italy), XIII, b 511, a 512
GUIZOT, François Pierre Guillaume, historian, XI, b 237–41
  administration of, b 239–41
  Charles X., reign of, b 238–9
  empire, a 238
  Louis XVIII., reign of, a 238
  Louis Philippe, reign of, a 239–41
  private life, a b 241
  youth, b 237
—— (Comte), VI, a 206; (Cousin), b 463, a b 465; (France), IX, a *b* 546, *a b* 547, b 598; (Hamilton, A.), XI, a 369, a 370; (Palmerston), XVIII, b 199; (Peel), a b 467, b 468; (Relics), XX, a 369; (Thiers), XXIII, *a* 324, b 325
Guizotia oleifera, plant, XVII, a b 767
Gujarat, district, See GUZERAT
Gujáráthi, language (Guzerat), XI, a 308
GUJRANWALA, district, XI, b 241–2; (Punjab), XX, b 112, a 115; town, XI, a 242
GUJRAT or Goojarat, district, XI, a b 242; (Bombay), IV, a 20, *a* b 21, a 22, *a* b 23; (Punjab), XX, b 112, a b 115; town, XI, b 242; battle of, 1849 (Punjab), XX, b 118
Gula, river (Norway), XVII, b 589
Gúláb Singh, maharajah (Gilgit), X, *b* 534; (Punjab), XX, *a* 118
Gular plates (Ichthyology), XII, a 686; sac (Bustard), IV, b 515
Gula-thing, district (Norway), XVII, b 598–9, a 600
Guldin, Paul, mathematician (Infinitesimal Calculus), XIII, b 60; (Mensuration), XVI, b 32; (Pappus), XVIII, b 234
Gules (Heraldry), XI, b 615, b 616
Gulf Stream (Atlantic Ocean), III, b 18, note, a 19, a b 20, a 24; (England), VIII, *b* 196; (Geology), X, a 196, notes, a 251, b 252; (Meteorology), XVI, b 142; (Norwegian Sea), XVII, b 607; (Nova Zembla), a b 620; (Pacific Ocean), XVIII, a 128; (Sea Water), XXI, a 645; (West Indies), XXIV, *b* 538
—— -weed (Algæ), I, b 449; (Atlantic Ocean), III, b 24
Gulhak, village (Teheran), XXIII, b 118
Gulistán or *Rose-garden*, Sa'di's (Persia), XVIII, b 671; (Sa'di), XXI, a *b* 151
GULL, bird, XI, b 242–3; (Birds), III, b 615, b 622, *b* 627, b 632, a b 633, b 667, b 668, b 669, a 670; (Ornithology), XVIII, a 49
Gullet (Digestive Organs), VII, a 194
Gulliver, physiologist (Anatomy), I, b 741–2
Gulliver's Travels (Sheridan), XXI, b 832; (Swift), XXII, b 804–5
Gullogherboy mountain (Sligo), XXII, a 169
Gully-traps (Sewerage)(Ill.), XXI, a 752
Gulmore Fort (Donegal), VII, b 314
Gulo, genus (Mammalia), XV, b 447
Gulta, shrine (Jeypore), XIII, b 699, note
Gulu, islands (Caroline Islands), V, a 111
GUM, XI, b 243–4; (Amber), I, a 580; (Botany), IV, a 78; (Resins), XX, b 487, b 488. See Gums
Gumælius, Gustav Vilhelm, novelist (Sweden), XXII, b 795
Gumal Pass (Punjab), XX, a 116
Gum animé, II, a 49; (Copal), VI, a 304
Gum Arabic, XI, b 243; (Acacia), I, b 66; (Histology), XII, a 14, a b 18
Gumaram Khokh, mountain (Caucasus), V, *b* 220
Gum Benjamin (Benzoin), III, b 501
——, British (Dextrine), VII, a b 126
Gum-boil (Dentistry), VII, a b 85
Gümbel, Carl W., geologist (Geology), X, a 290, b 318
GUMBINNEN, town, XI, b 244
GUMBO, plant, XI, b 244–5
Gum, Kauri (New Zealand), XVII, b 482
—— -lac insulators (Electricity), VIII, a 10
Gummata, soft tumors (Pathology), XVIII, a 415; (Surgery), XXII, b 721
Gummatous degeneration of protoplasm (Pathology), XVIII, a 399
Gummic acid (Gum), XI, b 243
Gummite, metal (Mineralogy), XVI, a 404
Gumnetai, troops (Army), II, a 491
GUMRI, town, XI, a 245
Gums (Frankincense), IX, b 624–6; (Histology), XII, a 14; aromatic (Incense), b 756, a 757; density of (Hydrometer), a b 574
Gum Senegal (Acacia), I, b 66

Gumti, river (Jaunpur), XIII, *a* b 610; (Lucknow), XV, b 50, *a* 51; (Oudh), XVIII, a 75; (Sháhjahánpur), XXI, *b* 771; (Sultánpur), XXII, a b 671
Gum trees (Eucalyptus), VIII, b 570-1
——, whaler's (Mammalia), XV, a 398
Gun, monster (Bijapur), III, a 579
Gun-barrel drains (Building), IV, b 418
—— -barrels, browning (Bronze), IV, a 331
Gunboats (Anchor), II, b 6; (Gunnery), XI, a 281
Gun-bollard-head, platform, (Whale), XXIV, *a* 555
—— -boring (Machine Tools) (Ill.), XV, a 157
—— carriage (Fortification), IX, a b 398; (Gunnery), XI, b 277-8, b 280-1; floating (Navy), XVII, b 295
GUN COTTON, XI, a 245-6; (Blasting), III, a b 702, *a* 703; (Chemistry), V, a 490; (Collodion), VI, a 134; (Mining), XVI, *a* 465, b 481; (Torpedo), XXIII, b 477-8
Gundebald, king (Clotilda), VI, a 37
Gunderic, Vandal king (Burgundy), IV, b 478; (Vandals), XXIV, *a* 65
Günderode, Caroline von (Arnim), II, a 545
Gundibald, king (Burgundy), IV, b 478-9
Gundicar, chief (Burgundy), IV, b 478
Gundlingiana (Periodicals), XVIII, b 551
Gundobada, Lex (Roman Law), XX, b 731; (Salic Law), XXI, a 226
GUNDULITSCH or Gundulic, Ivan, poet, XI, b 246; (Servia), XXI, *a* 723
Gungoh, town. See Gangoh
Gun-harpoon (Whale), XXIV, a 555, b 557
Gunhild, wife of Eric Bloodaxe (Norway), XVII, a 600
Gunib, mountain (Caucasus), V, b 221
Gunibald, king, Burgundian (Boetius), III, a 744
Gunja. See BHANG
GUNMAKING (Ill.) (Plate IV), XI, b 246-63
  breech-loading sporting guns (Ill.), a 248-9
  construction (Ill.), a 255-9
  conversion of cannon (Ill.), a b 257
  designing, a 259-63
  early hand guns (Ill.), b 246-7
  gas checks, a 263
  loading, systems of (Ill.), b 257-9
  machine guns (Ill.), a 253-4
  magazine guns, b 252
  military rifles (Ill.), b 249-52
  ordnance (Ill.), a 254-63
  pistols, b 252
  powder, efficiency of, b 259-60
  projectiles for rifled cannon, a b 263
  rifles, hand (Ill.), a 249-52
  rifling, a 261-3
GUNMAKING, *continued*
  small arms, a 246-53
  sporting guns (Ill.), a 247-9
  steel cannon, a b 257
Gunnar, myth (Nibelungenlied), XVII, *a* 488
Gunner (Navy), XVII, a 302, a 303
Gunnera Chilensis, plant (Juan Fernandez), XIII, b 767
Gunnerus, Johan Ernst, bishop and botanist (Norway), XVII, a 604
GUNNERY (Plates V, VI), XI, b 263-81
  armor piercing (Ill.), a 274-5
  attack, guns of (Ill.), b 276-7
  bibliography, b 281
  Boulenge chronograph (Ill.), b 266-7
  carriages (Ill.), b 277-8
  comparative velocities, a 268
  crusher gauge (Ill.), a 266
  defence guns, a 276
  drift, a 270-1
  early ordnance, b 272
  hydraulic gear (Plate VI.), b 278-9
  loading, a 279-81
  loss of velocity, a 269-70
  point-blank, a 264
  projectiles (Ill.), a 271-2
  rifled ordnance (Ill.), a 273-4
  shell, armor-piercing, b 272
  smooth-bores (Ill.), b 271
  theories, a b 264
  trajectory in vacuo, b 268
  velocity instruments (Ill.), a 265-8
  Watkin's chronograph (Ill.), b 267; his map system, b 275-6
—— (Robins), XX, b 622; works on, XI, b 281; (Tartaglia), XXIII, a b 74. See RANGEFINDER, SIGHTING
Gunnison, river (United States), XXIII, b 846, a 847
——, J. W., explorer (Pacific Railroads), XIX, b 913
Gunnlaug, poet (Iceland), XII, b 657, a 658
Gunnlaug and Hrafn (Iceland), XII, b 659
GUNNY, fabric, XI, b 281-2; bags (India), XII, a 798, b 802; (Jute), XIII, *b* 810-11
Gunong Agong, mountain (Indian Archipelago), XII, b 855
—— Api, island and volcano (Banda Islands), III, *b* 267
—— Bubu, mountains (Malay Peninsula), XV, b 323
—— Inas, mountain (Malay Peninsula), XV, b 323
—— Pedjudan, hill (Madura), XV, b 194
—— Rajah, mountain (Malay Peninsula), XV, b 323
—— Sabella, mountain (Bachian), III, b 170
—— Tebur river (Borneo), IV, b 50, a 51
—— Ulu Tumulang mountain (Malay Peninsula), XV, b 323
GUNPOWDER (Ill.), XI, a 282-95
  bibliography, a 295
  charcoal, a 285-6
  composition, b 284-5
  explosiveness, a 286-7
  fired powder, a 287-8
  granulation, b 286
  Greek fire, a 283
  heavy ordnance, b 293-4
  history, a 282-4
  introduction into Europe, b 283
  preparation and purification, b 288-9
  proof, b 294
  saltpetre, a 285
  sulphur, a 286
  MANUFACTURE (Ill.), b 289-95
    breaking down (Ill.), a 291
    dusting (Ill.), a 293
    finishing (Ill.), b 293
    glazing (Ill.), a 293
    granulating (Ill.), b 291-2
    mixing (Ill.), a 290-1
    milling or incorporation (Ill.), a 290-1
    pressing (Ill.), a b 291
—— (Algeciras), I, a 496; (Ammunition), a 652; (Arms), II, a b 488; (Artillery), b 572, a 573; (Blasting), III, a 703; (Gunmaking), XI, a 255, a b 259-60; (Lavoisier), XIV, a 354; (Mining), XVI, b 464, a 465, a 481; (Nitrogen), XVII, *b* 531; (Potassium), XIX, b 608
—— plot, 1605 (Fawkes), IX, a 51-2; (Habington), XI, a 321; (James I.), XIII, b 568; (Jesuits), a 660; (Jonson), a 753
GUNS, town, XI, b 295
——, construction of (Strength of Materials), XXII, b 639; field (Bronze), IV, b 330; leather (Artillery), II, b 573; naval (Navy), XVII, a b 299; of position (Gunnery), XI, a 277; proportion of troops to (Artillery), II, a 581; Prussian needle-, XI, a b 248, a 250; (Dreyse), VII, a 406; rifled (Ill.), XI, a 249, a 261-2, a 273; (Ammunition), I, b 652; (Hydromechanics), XII, a 476-7; sporting (Ill.), XI, a 247-9; (Shooting), XXI, b 871-2, a 873. See Artillery, Cannon, Ordnance
Gunshot wounds (Hunter, J.), XII, b 401, b 404; (Pathology), XVIII, a 400; (Surgery), XXII, b 710, a 711, a 727
Gun-Sights (Ill.), XXII, a 52-4. See RANGEFINDER
—— -stocks, XI, a 252; turning (Patents), XVIII, b 879, a 880
GUNTER, Edmund, mathematician, XI, b 295-6; (Navigation), XVII, *b* 261, a 263; (Trigonometry), XXIII, b 597
Gunthalmund, Vandal king, XXIV, b 65
Gunther, king of Burgundy, myth (Nibelungenlied), XVII, a *b* 488, a 489
Günther, archbishop, Cologne (Nicholas I.), XVII, b 496, a 497
——, Albert Charles Lewis Gotthilf, naturalist (Amphibia), I, a 658, a 676; (Chameleon), V, a 332; (Reptiles), XX, a 450 note, a 453, a *b* 454; (Snakes), XXII, a 202. See List of Contributors
GUNTHER, Johann Christian, poet, XI, a 296; (Germany), X, a 476
Gunther, William, publicist (Post-Office), XIX, a 601
Günther of Schwartzbourg, emperor (Charles IV.), V, a 358
Günthers, counts (Schwarzburg - Sondershausen), XXI, a 483
GUNTOOR, town, XI, a 296; (Circar), V, *a* 638
Guntur, volcano (Java), XIII, a 611, note
Gunungagung, volcano (Bali), III, a 243
Guotodin, district (Celtic Literature), V, *a* b 262
Guppy, surgeon (Solomon Islands), XXII, b 265, a 267
Gupta dynasty (India), XII, a b 829, note; (Inscriptions), XIII, b 126; coins of (Numismatics), XVII, b 679
Gura Peak, mountain (Sarâwak), XXI, b 321
Gurágué language (Semitic Languages), XXI, b 688
Gurans, tribe (Kurdistan), XIV, a b 158, notes, a 159, a 160, note, a 161. See Gurians
GURDÁSPUR, district, XI, a b 296; (Punjab), XX, b 112, b 114
Gurdon's Assington farms (Agriculture), I, b 369
Gur-Emir, tomb (Samarkand), XXI, b 259
GURGÁON, district, XI, b 296-9; (Punjab), XX, b 114
Gurgoyle. See Gargoyle
Gurhwal, district. See GARHWAL
Guria, province (Transcaucasia), XXIII, *b* 545
Gurians, tribes (Caucasus), V, a 224
Gurieff, town (Uralsk), XXIV, a 11
Gurin or Bosco, town (Ticino), XXIII, b 373
Gur or Kor Khan (Prester John), XIX, *b* 735, *a* 736
Gúrkhás, race. See Goorkhas
Gurla, river (Albania), I, a 396
Gurma, tribe (Soudan), XXII, a 292
GURNALL, William, devotionalist, XI, a 297
GURNARD, fish (Ill.), XI, a b 297; (Ichthyology), XII, b 728
Gurney, Elizabeth. See FRY
——, Joseph John, philanthropist (Quakers), XX, a 156, b 159
——, Thomas, reporter (Shorthand), XXI, b 876
——, W. B., reporter (Shorthand), XXI, a 880
Guru, priest (Caste), V, b 165 note; (Hindustani Literature), XI, a b 754; (Punjab), XX, b 116-7

Gurungs, race (Nepāl), XVII, a b 350
Gury, Jean Pierre, casuist (Liguori), XIV, b 641, b 642, a 643, a 646
Gushri Khan, Mongol chief (Tibet), XXIII, a 368
Gusinoye lake (Transbaikalia), XXIII, b 542
Gusmão, Alexandre de, inquisitor (Portugal), XIX, a 572
Gussub, grain (Bornu), IV, a 54
Gustatory nerve (Anatomy), I, b 774, a 775, a b 787. See TASTE
Gustavia, town (St. Bartholomew), XXI, b 167
Gustavian literary period (Sweden), XXII, b 794-5
GUSTAVUS I., Vasa, Sweden, XI, b 297-8; (Sweden), XXII, b 785-6
GUSTAVUS II., Adolphus, XI, a 298-9; (Artillery), II, *a* b 574; (Austria), III, b 109; (Cavalry), V, b 228; (Christina), a 610; (Finland), IX, b 190; (France), a b 501, a 502; (Germany), X, a b 449; (Hymns), XII, a 621; (Jönköping), XIII, a 751; (Oxenstierna), XVIII, a 96; (Sweden), XXII, a 787, *b* 792, b 793; (Tilly), XXIII, b 417; (Wallenstein), XXIV, *b* 349, *a* 350; (Weissenfels), b 519, note; horoscope of (Astrology), II, a 649
GUSTAVUS III., Sweden, XI, b 299; (Ankarström), II, a 53; (Finland), IX, b 190; (Kellgren), XIV, *a* 31; (Russia), XXI, a 108; (Sweden), XXII, b 781, b 789–90, *b* 794
GUSTAVUS IV., Sweden, XI, b 299; (Charles XIII.), V, a 366; (Sweden), XXII, a b 790
GUSTAVUS ADOLPHUS UNION, XI, b 299-300
GUSTROW, town, XI, a 300
Gut, fishing- (Silk), XXII, b 63-4. See Tackle, fishing
GUTENBURG, John, printer, XI, a 300–1; (Fust), IX, a *b* 750; (Typography), XXIII, b 727, a b 728, b 730, *a b* 731, *a b* 732, *a b* 733, *a b* 734, *a* 736
Guthorm, myth (Nibelungenlied), XVII, *a* 488
Guthrie, Henry, divine (Presbyterianism), XIX, b 702
—— Samuel, physician (Chloroform), V, a 591
GUTHRIE, Thomas, philanthropist, XI, a 301
Guthrum, king (Alfred the Great), I, a b 447; (England), VIII, b 256
Gutierrez, Peruvian war minister (Lima), XIV, b 651
——, Garcia, dramatist (Spain), XXII, b 375
Gutin or Kankar, stone (India), XII, b 775, a 805
Gutschmid, A., von, orientalist (Thomas), XXIII, b 328, a 329. See List of Contributors
GUTSMUTHS, Johann Christoph Friedrich, teacher, XI, b 301; (Ritter), XX, a b 585
GUTTA PERCHA, XI, b 301–3; (Botany), IV, a 77, a 78; (Chemistry), V, b 502
—— -susu, gum (India-Rubber), XII, a 880
Guttera, genus (Guinea Fowl), XI, b 234
Gutters (Building) (Ill.), IV, a b 450; (Roads and Streets), XX, a 604; construction of (Irrigation), (Ill.), XIII, b 375–7
Guttes, the (Heraldry) (Ill.), XI, a 622
Gutti, town (Bállari), III, a 248
Guttones, race (Goths), X, a b 753
Guttural (Hieroglyphics), XI, b 714; Dutch (Holland), XII, a 89–90; vowels (Ural Altaic), XXIV, a 7. See Glottids
—— pouches (Horse), XII, a b 184
Gútú, tribe (Kúrdistán), XIV, a 160
Gutueff island (St. Petersburg), XXI, a b 200
GUTZKOW, Karl, novelist, XI, b 303–4; (Germany), X, b 487
GUTZLAFF, Karl Friedrich August, missionary, XI, b 304; (Siam), XXI, *b* 896
Guy, Henry, politician (Pulteney), XX, a 109
GUY, Thomas, philanthropist, XI, b 304; (Tamworth), XXIII, *b* 49
——, W. A., statistician, XXII, a *b* 480
—— of Brionne, rebel (Normandy), XVII, b 556
—— de Chauliac, physician (Surgery), XXII, a 710
—— of Faucigny Genevois, bishop (Geneva), X, b 133
—— of Lusignan, king of Jerusalem (Crusades), VI, a 554; (Templars), XXIII, *a b* 177
—— of Namur, patriot (France), IX, b 480
—— de Vico, cardinal (Portugal), XIX, a 556
GUY OF WARWICK, romance, XI, b 304–5; (Romance), XX, a *b* 674, b 675; (Warwick), XXIV, b 401
Guyandotte, river (West Virginia), XXIV, a b 546
Guyard's process of analysis (Iron), XIII, a 295
Guy-cliffe or Gib-cliffe, manor (Shakespeare), XXI, a 775
GUYON or Guion, Jeanne Marie Bouvières de la Mothe, mystic, XI, a 305–7
——, Louis, critic (Rabelais), XX, *b* 202
Guyot, mountains (America), I, b 595; (Appalachian Mountains), II, *b* 175
——, Arnold Henry, physicist, *b.* 1807, *d.* 1884 (United States), XXIII, b 841 note
—— de Provins trouvère (France), IX, b 565; (Romance), XX, b 660, b 662
Guy's Hospital, London (Hospital), XII, a b 315, a 316
GUYTON DE MORVEAU, Louis Bernard, chemist, XI, a b 307; (Chemistry), V, a 402, b 403
Guzarati Dictionaries, VII, a 166
Guzel-Hissar, town (Aidin), I, a 377
GUZERAT or Gujarát, district, XI, b 307-8; (India), XII, a 779, b 780, a 787, a 797, a b 802, b 810; acquisition of (India), a b 842, b 843; jewellery (India), b 801
Guzla (Mérimée), XVI, b 41
Guzman, Spanish family. See Sidonia, dukes of
——, Alonzo Perez de, duke (Gibraltar), X, a 523; (Tarifa), XXIII, a 71
——, Eleanor de, beauty (Spain), XXII, a b 334
——, Enrique de, proprietor (Canary Islands), IV, b 702
——, Luiza de, duchess of Braganza and regent (Portugal), XIX, a *b* 563, a 564
Guzman Blanco, state and colony (Venezuela), XXIV, a b 152
GUZMICS, Izidor, theologian, XI, a 308; (Hungary), XII, a 393
Gvadanyi, Joseph, humorist (Hungary), XII, a 392
Gwa, river (Burmah, British), IV, b 499
Gwaen, river (Pembroke), XVIII, a 492
Gwalari, pass (India), XII, b 770
Gwalchmai, poet (Celtic Literature), V, a 277
GWALIOR, state, XI, a 308–9; town, a 309; (Hastings), b 459; (Magic Square), XV, b 216
Gwalther, Rudolph, chronicler (Winkelreid), XXIV, a 645
Gwan-king, town (China), V, a 552
Gwato, town (Benin), III, a 495
Gwenap mine (Adit), I, b 140
GWILT, Joseph, architect, XI, a b 309; (Architecture), II, b 371
Gwilym Ddu, poet (Celtic Literature), V, a 278
Gwinner, philosopher (Schopenhauer), XXI, b 477, a 479
Gwyddel, tribe (Celtic Literature), V, *a* b 261; Ffichti, tribe (Celtic Literature), a *b* 261, a 262
Gwydyon, enchanter (Celtic Literature), V, b 279
Gwynedd, Vestiges of the Gael in (Ireland), XIII, a b 252
Gwyneddigion Society (Eisteddfod), VII, b 686
GWYNIAD, fish, XI, b 309
Gwynn, John, publicist (London), XIV, a 861
Gwynne, Nell, courtesan (Dryden), VII, a b 423; (Tenison), XXIII, b 191
Gwynvardd Brycheiniog, poet (Celtic Literature), V, *b* 277
Gya, district. See GAYA
Gya-la-Sindong, town (Tibet), XXIII, *a* 362
Guyamtso, Sangje, ruler (Lhasa)), XIV, a b 502
Gyangtse-jong, town (Tibet), XXIII, b 361
GYARMAT, towns, XI, b 309
GYARMATHA, town, XI, b 309
Gyarmathi, Samuel, grammarian (Hungary), XII, b 389
Gyarung tribes (Tibet), XXIII, *a* 365
GYERGYO - SZENT - MIKLOS, town, XI, a 310
Gygæan lake (Lydia), XV, *a* 100
GYGES, king, Lydia, XI, a 310; (Babylonia), III, *a* 163; (Ionia), XIII, a 211; (Phrygia), XVIII, a 865; (Smyrna), XXII, a 196
——, myth (Briareus), IV, b 247
Gygis, genus (Tern), XXIII, b 206
Gyle of beer (Brewing), IV, *b* 245-6
Gy'faginning (Edda), VII, *a* 564
Gylippus, general (Greece), XI, a b 92; (Sparta), XXII, b 384; (Syracuse), a 854
GYLLEMBOURG - EHRENSVARD, Thomasine Kristine, baroness, novelist, XI, a b 310; (Heiberg), b 554-5
Gyllenborg, Gustaf Frederik, poet (Creutz), VI, a 508; (Sweden), XXII, a 794
Gymnasia, schools (Austria), III, *a* 103; (Examinations), VIII, b 681; (Germany), X, *b* 423; (Hamburg), XI, a 362; (Hungary), XII, a 380; (Italy), XIII, a 471; (Prussia), XX, b 21–2; (Russia), XXI, *b* 78
Gymnasiarchs, officers (Gymnasium), XI, b 310
GYMNASIUM, Greek, XI, b 310–11; (Athens), III, a 9; (Elis), VIII, a 131; (Olympia), XVII, b 788
—— zum Grauen Kloster (Busching), IV, a 512
GYMNASTICS, XI, a 311–3; (Dance), VI, b 705; (Gutsmuth), XI, b 301
Gymnite (Mineralogy), XVI, a 432
Gymnoaceæ, order (Vegetable Kingdom), XXIV, *a* b 139
Gymnobelideus, genus (Phalanger), XVIII, a 743
Gymnoblastea - anthomedusæ, order (Hydrozoa) (Ill.), XII, b 580, b 586, b 593, b 594–5, b 597, b 599
Gymnocaulus, genus (Polyzoa), XIX, b 450, b 452
Gymnocerata, division of sub-order (Hemiptera), XI, b 576; (Insects), XIII, b 159
Gymnodinida, family (Protozoa), XIX, b 884
Gymnodinium, genus (Protozoa) (Ill.), XIX, *b* 883, b 884
Gymnodontes, group (Ichthyology), XII, b 720, b 733
Gymnoglaux, genus (Birds), III, b 650
Gymnogramma, genus (Ferns), IX, b 89; (Horticulture), XII, *a* b 277
Gymnolæma, order (Polyzoa), XIX, a 446, a 447, a 448, a b 452, *a* 454, *a* 455
Gymnomyxa, grade (Protozoa), XIX, b 855, b 856, a 859, a *b* 860, a 861–76

Gymnopædes, order (Ornithology), XVIII, b 41

Gymnophthalmidæ, family (Lizard), XIV, b 739

Gymnosomata, order (Mollusca), XVI, a 691

Gymnospermæ, class of plants (Biology), III, b 601; (Botany), IV, b 127, b 131, *b* 132–4, *b* 139, b 140, *b* 141, b 142; (Vegetable Kingdom), XXIV, b 142–3, a b 143

Gymnotidæ, family (Ichthyology), XII, *a* 712, a 733

Gymnotus, genus (Eel), VII, b 601; (Ichthyology), XII, a b 687, a 708, a 733; electricus (Electricity), VIII, a b 9

Gymnura, genus (Mammalia), XV, b 356

Gymnurinæ, sub-family (Mammalia), XV, a b 406, b 409

Gympie, town (Queensland), XX, a 178, b 179, note, a 181

Gynæcium, organ (Botany) (Ill.), IV, *b* 113, b 114, b 127–9; (Grasses), XI, b 50–1

Gynæcocracy, paradisaical government (Ethnography), VIII, b 543–4. See Women

GYNÆCOLOGY in medicine, XI, a 313; (Insanity), XIII, b 107, b 108–9, b 115. See Women, diseases of

Gynandrous flower (Orchids), XVII, a b 840

Gyne, river (Burmah, British), IV, a 500

Gynerium, genus (Horticulture), XII, b 258

Gynophore or the caphore of flowers (Botany) (Ill.), IV, b 114; of Passionflower, XVIII, b 347, a 348

GYOMA, town, XI, a 313

GYONGYOS, town, XI, a 313

GYONGYOSI, István, poet, XI, b 313; (Hungary), XII, b 391

Gyor, town. See RAAB

Gypætus, genus (Lämmergeyer), XIV, a b 244, note

Gypagus, genus (Vulture), XXIV, *a* 322

Gypogeranus, genus (Birds), III, a *b* 618

Gyps, family (Birds), III, a *b* 618; (Vulture), XXIV, a 323

Gypsies. See Gipsies

Gypsophila, plants (Horticulture), XII, a 255, b 258

GYPSUM, XI, b 313–4; (Agriculture), I, a 313; (Alabaster), b 389; (Alcohol), a 416; (Chili), V, a541; (Geology), X, b 203, a 207; (Horticulture), XII, b 238; (Lime), XIV, b 654; (Michigan), XVI, a 248; (Mineralogy) (Ill.), a 375, a 380, b 383, a 385, b 386, b 392, *a b* 394, b 417; (Westmorland), XXIV, a 542, a 544; country (Texas), XXIII, a 220, b 221; quarries (Mining) (Ill.), XVI, b 474–a 475, b 492

Gypsy, The (Servia), XXI, a 723

Gyraldus, poet. See GIRALDI

Gyration, radius of (Mechanics), XV, a 741

Gyrencephala, division (Mammalia), XV, a 451

Gyrfalcon, bird (Falcon), IX, b 4

Gyri, convolutions (Mammalia), XV, b 369

Gyrinidæ, family (Coleoptera) (Ill.), VI, b 114, b 116, b 117, a 118

Gyrocoris, genus (Protozoa) (Ill.), XIX, b 885, b 887

Gyrodactylidæ, family (Trematoda) (Ill.), XXIII, a b 573, a 574

Gyrolite (Mineralogy), XVI, a 387, a 439

Gyron, the (Heraldry), XI, a 621

Gyrophorei, genus (Lichens), XIV, a 563, a 565

GYROSCOPE, toy (Ill.), XI, a 314–6; (Foucault), IX, a 420

Gyroscopic pendulums (Mechanics), XV, a b 746

Gyrostat (Gyroscope) (Ill.), XI, a b 316

Gyrovagi, vagrant ascetics (Monachism), XVI, a 727, a 730

Gyrus fornicatus, species (Anatomy), I, b 777; (Physiology), XIX, a 46

Gysbert, Japix, poet (Holland), XII, a 88

Gysbreght van Aemstel (Holland), XII, a 98

GYTHIUM, town, XI, b 316–7; (Weights and Measures), XXIV, a 513

Gyttja, deposit (Sweden), XXII, b 778

GYULA, town, XI, b 317

Gyulai, Paul, poet (Hungary), XII, b 393

Gzhat, river (Smolensk), XXII, a 193

Gzhatsk, town (Smolensk), XXII, a 193

H, letter, XI, a b 317

Haar or Haarstrang, hills (Westphalia), XXIV, a 545

Haardt or Kalmit plateau (Germany), X, a 403

Haarfager. See HAROLD I. of Norway

HAARLEM, town (Plan), XI, b 317–8; (Holland), XII, a 62, a 67, b 69, a 70, a 71, a 75, b 78; (Typography), XXIII, a b 732, a 733, b 734, a 735; siege of, 1572–3, XI, b 318; (Holland), XII, b 78

—— lake, XI, b 318–9; (Holland), XII, a 64; commune of, XI, b 318–9

Haarlemsche Courant (Newspapers), XVII, b 441, note

Haarlingen, town. See HARLINGEN

Haas, Spring- (Jerboa), XIII, a 637

Haase, physician of 18th century (Anatomy), I, a *b* 715

Habai, islands (Friendly Islands), IX, *a* 684

HABAKKUK, prophet, XI, a 319–20

Habbabli, Nathan, rabbi (Talmud), XXIII, b 42 note

HABEAS CORPUS, writ, XI, a 320–1; (Antwerp), II, a 127; (Pitt), XIX, b 153, a 155; (United States), XXIII, a 798; (Warrant), XXIV, a 392; (Writ), b 728, b 729, b 730; suspension of (Taney), XXIII, a 922; (United States), b 823, a 825, b 832

Habere facias possessionem (Writ), XXIV, b 731–2

Habert, Isaac, theologian (Jansenism), XIII, a b 576

Habib ibn Aus et-Tai, poet. See ABU TEMAN

HABINGTON, William, poet, XI, a b 321

Habit (Cannibalism), IV, b 713–4; (Instinct), XIII, a 164, b 165–6; formation of (Maine de Biran), XV, a 305

Habr Gerhaji race (Somali), XXII, a b 269

Habroptila, genus (Moor Hen), XVI, a 835

HACHETTE, Jean Nicolas Pierre, mathematician, XI, b 321; (Hydromechanics), XII, a 454

——, Jeanne, heroine (Beauvais), III, b 410

HACHETTE, Louis Christophe François, publisher, XI, b 321–2

Hachi-ishi, town. See NIKKO

Hachure, shading (Surveying), XXII, a b 746

Haciendas, mining (Mexico), XVI, b 900, b 902

Hack, the (Horse), XII, b 194–5

HACKBERRY, tree, XI, a 322

Hackles, artificial flies (Angling) (Ill.), II, b 34–5, note, a 36, b 40–1

Hackmatack, tree (Larch), XIV, *a* b 312; (United States), XXIII, a 861

Hackney, parish (London), XIV, *b* 829, a b 830, a 832, a b 842, a 861

Hackney coaches (Carriage), V, b 119; (London), XIV, *b* 832

Hacks in Brickmaking, IV, b 250

Hackworth's valve gear (Steam-Engine) (Ill.), XXII, b 526, *a* 527

HACO or Hakon I., king of Norway, Haarfagersen, XI, a 322; (Norway), XVII, a 600

—— II., king of Norway (Harold II.), XI, b 433; (Norway), XVII, a b 600

HACO V., Sverrison, king of Norway, XI, a b 322; (Norway), XVII, b 602; (Scotland), XXI, a *b* 507; (Snorro Sturluson), XXII, *a b* 212

—— VI., Magnusson, king (Norway), XVII, a 603

Haco, Earl, founder of Hladja line

Ha-Cohen, David, rabbi. See DAVID

HADAD, god, XI, b 322

Hadadezer, king (David), VI, a b 739

Hadadrimmon, god (Hadad), XI, *b* 322

Ha-Dani. See ELDAD BEN MALCHI

Hada Kawatsu, dramatist (Drama), VII, a 348

Hadchich, Yovan or Milosh Svetich, author (Servia), XXI, b 723

Haddarshan Mosheh, rabbi (Talmud), XXIII, b 42 note

Haddayyan, Mosheh ben Maimum. See MAIMONIDES

HADDINGTON or East Lothian, county, XI, b 322–4; town, a b 324; (Knox), XIV, a 131 note. See LOTHIAN

HADDOCK, fish, XI, b 324; (Fisheries), IX, a 213, *b* 216, *a* 229; (Ichthyology), XII, a 730

Hade of fault (Geology) (Ill.), X, b 267, *a* 268, a b 271

Haden, Seymour, critic (Rembrandt), XX, b 389, *a* 390

Hadendoa, people (Suakin), XXII, b 647

HADERSLEBEN, town, XI, b 324

Hades (Babylonia), III, b 167; (Eschatology), VIII, *a b* 474, note; (Mythology), XVII, a 161, b 164, a b 165; (Pluto), XIX, *a* b 247, note. See Elysium, Gehenna, Hell, Limbus, Paradise, Purgatory, Tartarus

Hadhaz, towns. See HAJDU

Hadhr (Mesopotamia), XVI, a 53

Hádi or Musa, caliph (Haroun al Raschid), XI, *a* 436, note; (Mohammedanism), XVI, a b 603

Hadikat-ulhakíkat of Saná'í (Persia), XVIII, a 671; (Saná'í), XXI, *a* 267

Hadith, traditions (Háfiz), XI, b 328; (Mohammedanism), XVI, b 587, a 588, b 616

Hadji, encyclopædist. See HAJJI KHALFA

Hadleigh, town (Suffolk), XXII, b 654

Hadley, Massachusetts, town (Schools), XXI, a 908

——, John, inventor (Sextant), XXI, a b 761, notes; (Telescope), XXIII, b 148–9; his octant (Navigation), XVII, b 264; his quadrant (Navigation), XVII, b 266; (Newton), b 452

Hadorph, Johan, antiquary (Scandinavian Languages), XXI, a 388

Hadramaut, district (Arabia), II, a b 207, *a* 214, b 217, a b 218, a 221, b 222, a b 227, b 229; (Makallâ), XV, b 313–4; (Yemen), XXIV, a b 775, a 776, a *b* 777

Hadria, town. See ATRI

Hadrian. See ADRIAN

—— I., pope, I, b 150; (Rome), XX, b 803, *a* 804

—— II., pope, I, b 150; (Hincmar), XI, a b 747; (Popedom), XIX, b 511, a 524

—— III., pope, I, b 150

—— IV., I, b 150; (Abbot) b 128; (Arnold of Brescia), II, b 546; (England), VIII, a 278; (Episcopacy), b 435; (Ireland), XIII, b 264, b 268; (Italy), b 483; (Popedom), XIX, b 514, b 524; (Rome), XX, a 811

Hadrian V., I, a 151
—— VI., pope, I, a 151; (Alcantara, Knights of), a 406; (Charles V., Emperor), V, b 358; (Jovius), XIII, a 766; (Luther), XV, b 78; (Utrecht), XXIV, a 27
—— of Canterbury, abbot (Aldhelm), I, b 419
HADRIAN, Publius Ælius, emperor, XI, b 324–6; (Antinous), II, a 115; (Athens), III, a 4, *b* 9; (Aurelius), b 75; (Favorinus), IX, b 50, a 51; (Gabii), X, a 4; (Greece), XI, a 98; (Palmyra), XVIII, b 203; (Roman Law), XX, b 715, a b 722, a b 723, a 724, a 725; (Rome), b 790, *a b* 791, b 793, *a* 794, b 795 note; (Trajan), XXIII, a 537; (York), XXIV, b 789; coins of (Numismatics), XVII, b 671; reign of (Roman Literature), XX, a b 746
HADRIAN, WALL OF (Map), XI, a 326–7; (Caledonia), IV, b 588, *a* 589; (Scotland), XXI, b 493, *b* 494
Hadrianopolis (Boli), IV, a 6; (Thrace), XXIII, *b* 339. See ADRIANOPLE
Hadriàn's villa (Tivoli), XXIII, a 449
Hadrosauridæ, family (Reptiles), XX, a 456 note; (Zoology, American), XXIV, b 925
HADRUMETUM, city, XI, b 327
Hadwiga, princess (Embroidery), VIII, a 149
Hæckel, Ernst Heinrich, biologist (Abiogenesis), I, *b* 51; (Anatomy), b 717, a 718, *a* 740; (Animal Kingdom), II, *b* 45, a *b* 46; (Arthropoda), b 566, b 567; (Cœlentera), VI, *b* 98; (Embryology), VIII, b 150, a 154, b 155; (Hydrozoa), XII, a 580, b 584, b 589, a b 590, *a* 593, *b* 595, a b 596, *b* 597, *b* 599, b 600; (Morphology), XVI, b 865, b 866, b 867, a b 868, a b 869, a b 870, a b 871, a 872, a 873; (Ornithology), XVIII, a b 38 note, b 46, note; (Parasitism), a 263, b 273, b 274 note; (Pessimism), a 703; (Protozoa), XIX, b 853, b 859, b 860, *b* 861, b 889, *a b* 891; (Reproduction), XX, b 423, a b 434, *a* 435; (Sponges), XXII, a 427, a b 428, b 437, b 444; (Variation), XXIV, b 86, a 89; (Zoology), a 849–50
Hæc Quæ, edict (Tribonian), XXIII, a 590
Hædo, Diego de, historian (Cervantes), V, a 302, b 303, *a b* 304
Hæmadynamic experiments (Vascular System), XXIV, a 116–7
Hæmatin, coloring matter (Logwood), XIV, *a* 815
Hæmatite, mineral (Cumberland), VI, b 617; (Geology), X, a b 204, b 207; (Haddington), XI, a 323; (Iron), XIII, a b 304; (Mineralogy), XVI, a 385, a b 387, a 388, b 401; (Mining), a 461, a 491; (Pennsylvania), XVIII, b 512; brown (Iron), XIII, a b 292–3; ores (United States), XXIII, b 866, *a* 867; red (Iron), XIII, b 291, *a* b 292, a 293; reduction of (Iron), a 345
—— Steel Company (Barrow-in-Furness), III, *a* 341
Hæmatoblastic function and the thyroid (Pathology), XVIII, b 393
Hæmatoblasts (Pathology) (Ill.), XVIII, b 375, a b 376, b 377; in cysts (Pathology) (Ill.), b 370, a 371, a 375; degradation of (Pathology), b 383
Hæmatoma, tumors (Ear), VII, a 514
Hæmatopinus, genus (Louse), XV, b 26
Hæmatopus, genus (Oystercatcher), XVIII, b 114, note, a 115
Hæmatoxylin, coloring matter (Logwood), XIV, *a* 815
Hæmaturia, endemic disease (Parasitism), XVIII, a 276
Hæmentaria, genus (Leech), XIV, a 405
Hæmocyanin, coloring matter (Mollusca), XVI, a 704
Hæmoglobin (Anatomy), I, b 741, a 742; (Annelida), II, a b 59; (Chemistry), V, b 502; (Iron, Therapeutics of), XIII, a b 369–70; (Mollusca), XVI, b 685; (Nemertines), XVII, a 337, b 338; (Polyzoa), XIX, a 447; (Respiration), XX, b 497, a 498, *a* b 499
Hæmon, hero (Antigone), II, b 112
Hæmophilia, disease (Pathology), XVIII, b 382
Hæmopis, genus (Leech), XIV, a 405
Hæmorrhages (Ophthalmology), XVII, a 806, a 807; (Purpura), XX, *b* 122; capillary (Pathology), XVIII, b 382; cerebral (Apoplexy), II, a b 169; treatment of (Surgery), XXII, a b 715, b 723
Hæmorrhagic Small-pox, XXII, b 173
HÆMORRHOIDS or piles, XI, b 327–8; (Surgery), XXII, a 719
Hæmus, mountains. See BALKANS
Haen's assay (Copper), VI, b 312
Hæretico comburendo (Writ), XXIV, b 730
Haffs, lagoons (Baltic), III, a 254; (Germany), X, a 402, a 404
Háfidh li-deeni-lláh Abd el-Meg-eed, caliph (Egypt), VII, b 652
HÁFIZ, Mohammed Shems-ed-Deen, poet, XI, a 328–9; (Goethe), X, b 654; (Persia), XVIII, b 671; (Shi'ites), XXII, b 699
Hafīzuddīn Ahmad, author (Hindustan Literature), XI, *a* 758
Hafnereck mountain (Alps), I, a b 554
Hafsites, dynasty (Tunis), XXIII, *a* 661
Haft Dast, palace (Ispahán), XIII, a 404
Haft Paikar, poem (Nizámí), XVII, *a* b 536
Hagar, the Egyptian (Abraham), I, b 54; (Ishmael), XIII, b 396; (Mecca), XV, a *b* 679, a b 680, a 681
Hagarites, family (Ishmael), XIII, b 396
HAGEDORN, Friedrich von, poet, XI, b 329; (Germany), X, b 476
HAGEN, town, XI, b 329–30
—— myth (Nibelungenlied), XVII, b 488, a b 489
HAGEN, Friedrich Heinrich von der, antiquarian, XI, a 330; (Dragon-Fly), VII, *b* 336
HAGENAU, city, XI, a 330
—— Pine, XIX, a 112
HAGENBACH, Karl Rudolf, historian, XI, a b 330; (Church History), V, b 669, a 670
——, Peter von, governor (Charles the Bold), V, a b 368; (Switzerland), XXII, *b* 825, a 826; (Tell), XXIII, a 172
Hagenia, plant (Kousso), XIV, a b 146
Hager's table of phosphoric acid (Phosphorus), XVIII, b 831
HAGERSTOWN, Maryland, XI, b 330
HAG-FISH, XI, b 330; (Ichthyology), XII, b 733
Haggada (Hebrew Language and Literature), XI, b 535; (Hermeneutics), a 664; (Midrash), XVI, a 297, a 298; (Mishnah), b 526, b 527–8; (Talmud), XXIII, *b* 41. See *Agada.*
—— *shel Pesah* (Midrash), XVI, b 298
HAGGAI, prophet, XI, b 330–2; (Israel), XIII, a 428
Haghe, Louis, artist (Lithography), XIV, *a* 707
Hagiographa (Bible), III, b 549; (Canon), V, b 4, a b 5, *b* 6–7; (Targum), XXIII, b 68, a b 70
Hagiolatry (Abyssinia), I, a 63; (Afghânistân), a 213. See Saints, worship of
HAGUE, The, city (Plan), XI, b 332–3; (Holland), XII, a 67, a 70, b 74; (Libraries), XIV, a 531; (Police), XIX, a 357; league of (France), IX, b 508; *view of* (Goyen), XI, a 22
——, La, cape (Manche), XV, a b 466
——, Arnold, geologist (Surveys), XXII, a b 937, a 938
——, James D., geologist (Mining), XVI, b 492; (Surveys), XXII, a 937
Ha Ha Bay (Quebec), XX, a 172
HAHN, August, theologian, XI, b 333
HAHN, Johann Georg von, traveller, XI, b 333; (Tales), XXIII, a 33
——, J. S., physician (Hydropathy), XII, *a* 575, a 578
——, Theophilus, ethnologist (Hottentots), XII, b 323, a b 325, note, *a b* 326; (Mythology), XVII, a b 154
——, Ulrich, or Udalricus Gallus, printer (Typography), XXIII, a 729, a 738
Hähnel, Ernst Julius, sculptor (Sculpture), XXI, a 593
HAHNEMANN, Samuel Christian Friedrich, physician, XI, b 333–4; (Homœopathy), XII, b 129; (Medicine), XV, b 823–4
Hahn-Hahn, Ida, countess (Germany), X, b 487
Haiáthalah, people (Afghânistân) I, *b* 218; (Oxus), XVIII, a 105
Haibak, town (Afghânistân), I, b 217, a 219
Hai-ching, city (Manchuria), XV, a b 473
Haidar shaikh, king (Persia), XVIII, b 645
Haidarábád. See HYDERABAD
Haidar 'Ali. See HYDER ALI
Haidarî, Muhammed Haidarbakhsh (Hindustani Literature), XI, a 757, *a* 758
Haidas, tribe (Queen Charlotte Islands), XX, a 177
Haider Shehaab, emir (Druses), VII, a 420
Haidhausen, suburb (Munich), XVII, a b 30
HAIDINGER, Wilhelm von, mineralogist, XI, a 334; (Crystallography), VI, a 597, a b 598, a 599; (Mineralogy), XVI, b 384, a 387
Haidingerite (Mineralogy), XVI, a 421
Haidinger's brushes, XI, a 334; dichroiscope (Mineralogy) (Ill.), XVI, b 390
Haifa, town (Carmel), V, b 102; (Palestine), XVIII, a 176, a 178
Hai Gaon, rabbi (Mishnah), XVI, b 529
Haihai dynasty (Bilaspur), III, a 581
Haik, mythical chief (Armenia), II, a 480
Haikan language (Armenian Language), II, a 482
Haikh, country. See ARMENIA
Hai-Kow, port (Hainan), XI, a 335
Hail (Geology), X, a 249; (Meteorology), XVI, b 136, a 137; fall of (Mechanics), XV, a b 712
Hail Columbia (American Literature), I, b 633
HAILES, Sir David Dalrymple, lord, historian, XI, b 334; (Stair), XXII, a 463
Hail-storms (Insurance), XIII, a 168; (Natal), XVII, b 246; (Sweden), XXII, b 777
Haimburg, town. See HAINBURG
Haime, Jules, naturalist (Corals), VI, a 333, a b 340
Hain, Ludwig, Bibliographer, III, a 566; (Encyclopædia), VIII, b 185
HAINAN, island, XI, b 334–5; (China), V, a 556; avifauna of (Birds), III, a 661
HAINAU, town, XI, b 335
HAINAULT, province, XI, b 335–6; (Coal), VI, a 52; house of (Holland), XII, b 75
—— Scythe, XXI, a 602
Hainbund, brotherhood (Germany), X, a b 483; (Hölty), XII, *b* 107

HAINBURG or Haimburg, town, XI, a 336; (Carnutum), V, a 110
Haine, river (Hainault), XI, a 336
Haines, river (Africa), I, b 228
HAINICHEN, town, XI, b 336
Hai-phong, port (Tong-King), XXIII, a 468
HAIR, XI, b 336–7; (Anatomy), I, b 788–9; (Anthropology), II, b 98; (Ape), a 138; Camel's, IV, a 651; (Costume), VI, b 404, a *b* 413, b 414, a 416, a *b* 417, b 420, b 421, a b 422; (Goat), X, *a* b 632; (Indians), XII, a 863, b 864, note; (Mammalia), XV, b 350–1; (Mammoth), a 455; (Negro), XVII, a 326 note; of the dead (Proserpine), XIX, a 846, note; of dermoid cysts (Pathology) (Ill.), XVIII, a 379; disorders of (Skin Diseases), XXII, *b* 129, a 132; nature of (Skeleton), a b 115; tufted (Kaffraria), XIII, b 828; unshorn (Nazarite), XVII, b 312; vibrissal (Touch), XXIII, a 509
Hairbell, plant. See HAREBELL
—— -cells of ear (Anatomy), I, b 784, b 785, *a* 786
Hair-dressing (Arabia), II, b 219; (Solomon Islands), XXII, a 266; mediæval (Ireland), XIII, a b 263; Papuan (Polynesia), XIX, a b 436; Siamese, XXI, b 893. See COSTUME, Peruke, Toilet, WIG
—— dyes (Bleaching), III, a 715; (Henna), XI, b 583
—— Hygrometer, XII, a 604
—— -moss or polytrichum (Botany) (Ill.), IV, a 127, b 146, a 147
—— -pins (Lew-Chew Islands), XIV, b 489; Greek (Costume), VI, b 401
Hairs, plant- (Botany) (Ill.), IV, a 80–1, b 83, b 130; (Histology), XII, a 20
Hair-salt (Mineralogy), XVI, a 418
HAIR-TAIL, fish, XI, a 337
Hair-worms (Nematoidea), XVII, b 334
"Hairy Kuriles" (Ainos), I, b 378
Haiscin, town. See GAISSIN
Haisingkalns, plateau (Livonia), XIV, a 730
Haiti, island. See HAYTI
Hajdú-Böszörmény, town, XI, a 337
—— -Dorog, town, XI, a 337
—— -Hadház, town, XI, a 337
—— -Nanas, town, XI, a 337
—— -Szoboszlo, town, XI, a 337
HAJDUK, towns, XI, a 337
Haje, viper (Asp), II, b 624
Hajeepoor, town. See HAJIPUR
Hajek, Thaddeus, chronicler (Slavs), XXII, *a* 161
Hájí-ábád, village (Persepolis), XVIII, a 570, a b 571
Háíí-bey, town (Odessa), XVII, b 745, b 746
HÁJIPUR, town, XI, b 337
Hajj, pilgrims (Caravan), V, a b 75; (Mecca), XV, a 677, a 681–2
Hajjáj ben Yúsuf, general (Mohammedanism), XVI, a 592, a b 594, a b 595, a *b* 596, b 612
Hajji Baba, Morièr's (Persia), XVIII, b 640, b 660
Hajjigak, passes (Afghânistân), I, a 205, b 216; (Hindú Kúsh), XI, *a* 748, *a* 749
Hajji - Ibrahim (Persia), XVIII, a 656, b 658, a 661
HAJJI-KHALFA, encyclopædist, XI, b 337–8; (Tabarí), XXIII, a 9; (Turkey), a 699
Hajji Mirza Aghási, wazir (Persia), XVIII, b 661, a 663
Hajún, place of burial (Mecca), XV, b 677
Hakam II., Andalusia (Mansur), XV, b 507
HAKE, fish, XI, a 338; (Ichthyology), XII, a 730
HAKIM or Hakem, caliph, XI, a 338; (Crusades), VI, a 550; (Druses), VII, a 418; (Egypt), b 651
—— al-Mokanna, prophet. See MOKANNA
—— Mohammed Farídeddín 'Abdalláh, poet. See RUDAGI
—— Saná'i, poet. See SANÁ'I
Hakko or Haho, river (Togoland), XXIII, b 460
HAKLUYT, Richard, geographer, XI, a 338-9; (Cabot), IV, a b 553; (Geography), X, a b 164; society, XI, a 339; *Voyages of* (Harriot), b 440
HAKODADI or Hakodate, town, XI, a 339; (Japan), XIII, a 587, *b* 589
Hakon, kings and earls. See HACO
Hakoné, lake (Japan), XIII, a 582; pass of (Japan), b 583
Hakor, king (Egypt), VII, *a* 645
Hakpen megaliths (Avebury), III, b 125
HAL, town, XI, a 339
Hálá, mountains (Baluchistan), III, b 260; (Bombay), IV, a 20; (Cutch Gundava), VI, a 646; (India), XII, a 770
HALA or Halla, town, XI, a b 339
Halacha or *Halakhah* (Hermeneutics), XI, a b 664; (Midrash), XVI, b 297, note, a 298; (Mishnah), a b 526, a 528; (Talmud), XXIII, *b* 41
Halakhic literature (Rābān), XX, a 198
Halary or Asté, Jean, musician (Ophicleide), XVII, *a* 801
HALAS, town, XI, b 339; lake, XI, b 339
Halation of light (Photography), XVIII, b 840
Halbeath, district (Coal), VI, *b* 51
HALBERSTADT, town, XI, b 339
HALBERT or Halbard, weapon, XI, a 340
Halbsuter of Lucerne, poet (Winkelried), XXIV, *a* 645
Halcyon days (Kingfisher), XIV, a 84
Halcyonidæ, family (Kingfisher), XIV, a 84
Halcyornis toliapicus, fossil (Kingfisher), XIV, b 84
HALDANE, James Alexander, evangelist, XI, a 340; (Scotland), XXI, *a* 563
HALDANE, Robert, evangelist, XI, a b 340; (Scotland), XXI, *a* 563
Haldeman, Samuel Stehman, author, *b.* 1812, *d.* 1880 (Surveys), XXII, b 935
Haldimand House (Quebec), XX, b 171
Hale, Adam de la, musician (Music), XVII, a 90
——, Horatio, ethnologist (Polynesia), XIX, a 436 note
——, John P., senator, *b.* 1806, *d.* 1873 (Toombs), XXIII, a 943
HALE, Sir Matthew, jurist, XI, b 340–1; (Poor Laws), XIX, b 483, a 485; (Witchcraft), XXIV, b 654
——, Nathan, patriot, *b.* 1755, *d.* 1776 (Tallmadge), XXIII, a 919
Haleb, town. See ALEPPO
Halek, Vitezslav, poet (Slavs), XXII, *a* 162
Hales, Alexander of, theologian, I, b 429; (Bacon), III, *a* 189; (Scholasticism), XXI, b 444–5
HALES, Stephen, inventor, XI, b 341; (Chemistry), V, a 400; (Gas-Lighting), X, b 79; (Physiology), XIX, a b 53, a 54; (Vascular System), XXIV, b 105
Halesian plain (Troad), XXIII, a 615
Halesowen, town (Worcester), XXIV, *a* 701
Halet, rite (Dervish), VII, a 99
Halevi. See Judas Levita
HALÉVY, Jacques François Fromental, musician, XI, b 341–2; (Cherubini), V, a 511
——, Joseph, orientalist (Semitic Languages), XXI, 682 note, a 683, a 686 note; (Yemen), XXIV, a *b* 777
Half-apes (Mammalia), XV, b 451
Half-beak, fish (Gar-Fish), X, b 72
Halfdan the Black, king (Norway), XVII, b 599
Half-hitch, knot (Seamanship), XXI, a 618
Halflang sheep (Agriculture), I, b 349
"Half Moon," ship (Hudson), XII, *b* 346
Half-pay (Navy), XVII, b 306–7
Half-Quarter Day (May), XV, b 654
Halga Ród (Cædmon), IV, b 560–1
Halhead or Halhed, H., author (Sheridan), XXI, *a* 834
Haliacmon or Vistritza, river (Macedonia), XV, *a* 138
Haliaetus, genus (Eagle), VII, *a* 510
HALIBURTON, Thomas Chandler, humorist, XI, a b 342
Halibut, fish. See HOLIBUT
HALICARNASSUS, city, XI, b 342–3; (Caria), V, *a* 91; (Herodotus), XI, a 676, a 677; (Numismatics), XVII, b 664
Halichœrus, genus (Mammalia), XV, a b 450; (Seal), XXI, a 608
Halichondridæ, family (Sponges), XXII, b 439
Halicore, genus (Dugong), VII, a b 446; (Mammalia), XV, a b 393–4; distribution of (Mammalia), XV, b 376
Halicz, town. See GALITCH
Haliday, A. H., naturalist (Hymenoptera), XII, a 611, b 612
Halides. See Haloid Acids
Halidome, sacred object (Oath), XVII, a 720
Halidon Hill, battle of, 1333 (Scotland), XXI, b 511
Halldorsen, Bjorn, lexicographer (Scandinavian Languages), XXI, a 385
Halieutica, poem (Oppian), XVII, a *b* 820
HALIFAX, city (Plan), XI, a 343–4; (York), XXIV, b 587, *a* 586
HALIFAX, Nova Scotia, XI, a b 344; (Newspapers), XVII, b 447; (Nova Scotia), *a* 616, *a* 618
HALIFAX, Charles Montague, earl of, XI, b 344–5; (Addison), I, a 134, a b 135; (Newton), XVII, *b* 457; (Prior), XIX, b 762
——, George Dunk Montague, 2d earl of, statesman, (Cumberland), VI, *a* 621; (Wilkes), XXIV, *b* 598
HALIFAX, George Saville, marquis of, XI, b 345–6
—— -gibbet (Guillotine), XI, b 233
Haliotidæ, family (Mollusca), XVI, b 668
Haliotis, ear-shell (Mollusca) (Ill.), XVI, a 668, a 671
Haliphysema, genus (Protozoa) (Ill.), XIX, b 868, a 869
Halisarca, genus (Sponges), XXII, b 437, a 439, b 444, a 445
Halisarcidæ, family (Sponges), XXII, a 439
Halisarcina, order (Sponges), XXII, a *b* 437, a 439, b 442
Halite, mineral (Geology), X, a 204; (Mineralogy) (Ill.), XVI, a 400
Halitherium, fossil (Mammalia), XV, a 393, *b* 394–5
Halkyn tunnel, Wales (Mining), XVI, a 479
HALL, Swabian town, XI, b 346
HALL, Tyrolese town, XI, b 346
——, Adam, engineer (Steam-Engine), XXII, a b 923
——, Asaph, astronomer (Telescopic Work), XXIII, a b 936; (Tides), b 405
HALL, Basil, traveller, XI, b 346–7
HALL, Charles Francis, explorer, XI, a b 347; (Geography), X, a 175; (Polar Regions), XIX, a 335
——, Chester Moor, inventor (Telescope), XXIII, a 149-50, note
HALL or Halle, Edward, historian, XI, b 347

Hall, Fitz-Edward, orientalist (India), XII, b 828 note
HALL, James, American journalist, XI, b 347–8; (Periodicals), XVIII, a 555
——, Sir James, physicist (Geology), X, a b 230, a b 232; (Hall, Basil), XI, b 346; (Sainte-Claire-Deville), XXI a 175
——, James, American geologist (Petroleum), XVIII, a 729; (Surveys), XXII, b 935, *a* 936, a 937, a 938
——, John, physician (Shakespeare), XXI, b 778, *b* 801, *a* 802
——, John H., inventor (Patents), XVIII, a 880
HALL, Joseph, bishop, XI, a b 348; (English Literature), VIII, a 376; (Horse), XII, b 203; (Lipsius), XIV, b 692; (Milton, John), XVI, a 341
HALL, Marshall, physician, XI, b 348-9; (Drowning), VII, b 410-11; (Hibernation), XI, *b* 703, *a* 704, a 705
——, Maxwell, astronomer (Parallax), XVIII, b 254
HALL, Robert, preacher, XI, a 349-51; (Edgeworth), VII, a 568; (Gregory, O.), XI, a 164; (Macaulay), XV, a 127
Hallam, Arthur Henry, XI, a 351
HALLAM, Henry, historian, XI, a 351-2; (Charter), V, b 374; (Chrysostom), b 661; (Grotius), XI, b 195, a 196; (Habeas Corpus), b 320, a 321; (Knighthood), XIV, b 113, a b 114; (Shakespeare), XXI, a 780; (Tithes), XXIII, a 439
Halland, län or district (Halmstead), XI, b 355; (Sweden), XXII, b 775, b 779, b 780, *b* 784, a b 786, b 787, *a* 788
Hallauer, engineer (Steam-Engine), XXII, a 507, b 508
HALLE an der Saale, city (Plan), XI, b 352-3; town (Education), VII, a 586; school (German Literature), X, b 477
——, *Against the New Idol at* (Luther), XV, b 77
—— University, XI, a 353; XXIII, b 902-3, a b 905; (Gesenius), X, a 495; (Hengstenberg), XI, b 582; (Hoffmann, F.), XII, b 48; (Michaelis), XVI, a b 236; (Schleiermacher), XXI, b 427, a 428; (Thomasius), XXIII, b 329
HALLECK, Fitz-Greene, poet, XI, b 353
HALLECK, Henry Wager, general, XI, b 353–4; (Smith), XXII, *a* 911; (Stanton), b 919; (Thomas), XXIII, b 938; (United States), a 838
Halleflinta, rock (Sweden), XXII, *b* 777
Hallel, songs (Psalms), XX, a 34, b 36, a 37; *Great* (Jesus Christ), XIII, b 678; (Plain Song), XIX, a 180
Hallelujah, Withers (Hymns), XII, *b* 626
Hallenberg, Jonas, historian (Sweden), XXII, a 796
HALLER, Albrecht von, physician, XI, a 354; (Anatomy), I, b 713, b 714, a b 715; (Embryology), VIII, b 151; (Encyclopædia), b 181; (Evolution), b 652, note, a *b* 653; (Germany), X, b 476; (Hunter, W.), XII, a 408; (Medicine), XV, a b 822; (Surgery), XXII, a 711; (Switzerland), a 836; (Zoology), XXIV, *b* 854
——, Gottlieb Emmanuel, historian, XI, b 354; (Switzerland), XXII, b 837
Hallesche Jahrbücher (Ruge), XXI, a b 62
Hallevi, Abraham b. David, historian (Rabad), XX, a 198
HALLEY, Edmund, astronomer, XI, b 354–5; (Algebra), I, b 452; (Annuities), II, b 70; (Apollonius), *b* 164; (Astronomy), a 655, b 659, b 660, b 696, b 697, a 717; (Auroras), III, a b 79; (Compass), VI, a 201; (Conic Sections), a 242; (Geography), X, 167; (Meteorology), XVI, b 168–9, a b 171; (Navigation), XVII, b 262, a 264, b 265; (Newton), b 453–6; (Parallax), XVIII, b 251; (Serenus), XXI, *a b* 707; (Thermometer), XXIII, b 308
Halley's Comet, VI, b 173; (Astronomy), II, b 663, a 712
—— Diving-bell, VII, b 255–6
Hallfred, poet (Iceland), XII, b 657, a 658, b 659
Hallgrimsson. Jónas, author (Scandinavian Languages), XXI, *a* 385
Halliday, Joseph, inventor (Ophicleide), XVII, b 800
Halligen islands (Schleswig-Holstein), XXI, b 432
Halliwell-Philips, James Orchard, critic, *b.* 1820, *d.* 1889 (Shakespeare), XXI, a 791, b 792, b 803, *a* b 804, *a b* 805, *b* 806, a b 807
Hall-marks on silver (Plate), XIX, a 198
Hall of Abencerrages (Alhambra), I, b 503
—— of Columns, El-Karnak (Egypt), VII, b 640
—— of Justice (Alhambra), I, a 504
—— of the Shields (Alhambra), I, a 504
—— of a Thousand Pillars, palace (Madura), XV, a 194
—— of the Two Sisters (Alhambra), I, b 503
Hallomys, genus (Mouse), XVII, a 12
Hallopoda, sub-order (Zoology), XXIV, b 925; (Reptiles), XX, b 456 note
Halloren, people (Halle), XI, a 353
Hallowell, E. D., naturalist (Surveys), XXII, *a* 936
HALLOWEVEN or Hallowe'en, XI, b 355
Halloween (Burns), IV, a 506, b 507
Hallowmas. See ALL-SAINTS' DAY
Halloysite (Mineralogy), XVI, b 442
Halls, academic (College), VI, a 129; mediæval (Architecture), II, b 409
Hall's island (Frobisher), IX, *a* 693
—— pulsometer (Steam-Engine) (Ill.), XXII, b 541–2
Hallucination (Insanity), XIII, b 111-12; (Lycanthropy), XV, a 93; (Psychology), XX, *a* 63, a b 64, note
HALLUIN, town, XI, b 355
Hallum, Robert, bishop (Brasses), IV, b 197
Hallux, toe (Anatomy), I, a 728, b 738; (Ape), II, a b 130, a b 131, a b 132, b 137, b 143, a 144; (Birds), III, b 627; (Opossum), XVII, a 819
Hallwyl, lake (Switzerland), XXII, a 815
Halm, Frederick, pseudonym (Germany), X, b 487
Halma, Nicolas, abbé (Ptolemy), XX, a 92, a *b* 96
Halmahera, island. See JILOLO
HALMSTAD, town, XI, b 355; (Sweden), XXII, a 776, a 777
HALO, light ring (Ill.), XI, b 355–7; (Light), XIV, a 602
Halobates (Insects), XIII, a 148, a 160
Halogen compounds of phosphorus (Chemistry), V, b 447, b 449–50; group of elements (Bromine), IV, b 325; oxides (Chemistry), V, b 427–31; salts (Chemistry), V, a 421; (Iodine), XIII, b 208, a 209; (Mineralogy) (Ill.), XVI, a 399–400
Halogens (Chemistry), V, a 424–31; quantitative analysis (Chemistry), b 474
Haloid acid (Chemistry), V, a 426–7; ethers (Chemistry), b 479, a 490–1; gold compounds (Chemistry), b 458-9; mercury compounds (Chemistry), *a* 457; silver compounds (Chemistry), b 458
Haloids, alkaline metal (Chemistry), V, b 454, *b* 455; magnesium group of (Chemistry), *b* 456
Halosauridæ, family (Ichthyology), XII, a 723, a 733
HALS, Dirk, painter, XI, b 357; (Heda), a b 544
HALS, Frans, painter, XI, a b 357; (Brouwer), IV, a 345; (Helst), XI, *b* 572; (Ostade), XVIII, a b 61
——, Frans 2d, painter, XI, b 357
HALSTEAD, town, XI, b 357
Halteres of Diptera (Insects), XIII, b 156
Haltica, genus (Turnip-Fly), XXIII, a b 710
Halticidæ, family (Coleoptera), VI, a 115, a 121; (Insects), XIII, b 156
Haly Ali ibn el 'Abbas, physician (Medicine), XV, a 815; (Surgery), XXII, b 709
Halyburton, Andrew, publicist (Scotland), XXI, b 566
HALYBURTON, Thomas, divine, XI, b 357–8
Halys or Kizil Irmak, river (Asia Minor), II, b 617, a 618; (Cappadocia), V, b 67; (Pontus), XIX, *b* 473
Halysitidæ, family (Corals), VI, a b 337
HAM, town and castle, XI, a b 358; (Napoleon III.), XVII, b 233–4
HAM, mythical person, XI, a 358; (Egypt), VII, a 607, note; (Noah), XVII, *b* 536–7; descendants of (Canaanites), IV, a b 675
——, Ludwig, anatomist (Zoology), XXIV, b 854
Hamadah (Africa), I, a 224, a 238
HAMADÁN, town, XI, b 358; (Avicenna), III, b 133; (Ecbatana), VII, b 537; (Persia), XVIII, b 574, a 576
Hamadáni, poet (Harírí), XI, a 429; (Tabarí), XXIII, a 8; (Yemen), XXIV, a 775 note, b 776, a 777
Hamadryades, nymphs (Dryades), VII, a 421
Hamadryas, genus (Snakes), XXII, b 207
HAMAH or Hamath, city, XI, b 358–9; (Babylonia), III, *a* 162; kingdom (Israel), XIII, b 421; (Syria), XXII, b 861, a 862
Hamalant or Hamarlant, district (Salic Law), XXI, a 225
Hamamelis, genus (Hazel), XI, b 490
Hamamet, city. See HADRUMETUM, XI, b 327
Haman the Agagite (Amalekites), I, b 572; (Esther), VIII, a b 494
HAMANN, Johann Georg, metaphysician, XI, a b 359; (Herder), b 650, a 651; (Kant), XIII, b 855; (Mysticism), XVII, b 142
Hamartite (Mineralogy), XVI, b 399
HAMASAH, Anthology, XI, b 359–60; (Abu-Teman), I, a 61; (Arabia), II, a 231; (Mo'allakát), XVI, a 563
Hamâset er-Râh (Hamasah), XI, b 360
Hamath. See HAMAH
Hamathite hieroglyphics (Hittites), XII, b 29, a 30
Hambato, town. See AMBATO
Hamble, river (Hampshire), XI, b 384
"Hambletonian" (Horse), XII, a b 208
HAMBURG, state, XI, b 360–1; (Mecklenburg), XV, b 786; old inheritance laws (Germany), X, a 465
HAMBURG, city (Plan), XI, a 361–5
  commercial features, b 363–4
  description, a b 361–2
  history, b 364–5
  institutions of learning and charity, b 362–3
  public buildings, b 361–2
  railways, a b 364
  vital statistics, b 364
  water system, a b 363
—— (Handel), XI, *a* 388; (Hanseatic League), a b 402, *a* 404; (Libraries), XIV, a b 548; (Numismatics), XVII, b 676; (Observatory), a 733; (Scott, Sir G. G.), XXI, *b* 569; Bank of, III, a 294; commerce (Germany), X, b 414, a 415, a 416

Hamburg fowl (Poultry), XIX, b 665
Hamburgische Dramaturgie (Drama), VII, b 381
Hamda-Alahi, city (Soudan), XXII, b 292
Hamdanids, princes (Nisibis), XVII, a 528; (Mohammedanism), XVI, a 609
Hamel, Ernest, biographer (Robespierre), XX, a 621
HAMELN, town, XI, b 365–6
Hamerling, Robert, poet (Germany), X, a b 488
Hamerton, Philip Gilbert, critic (Shakespeare), XXI, a 779; (Turner), XXIII, a 705 note, b 706, b 708 notes, a 710
Hamesucken, crime (Burglary), IV, b 477
HAMI, town, XI, a 366
Hamíd, princes of (Turkey), XXIII, a 681, b 682
Hámid Bey, dramatist (Turkey), XXIII, b 699
Hamilcar I., son of Mago (Carthage), V, *b* 140; (Sicily), XXII, b 21
HAMILCAR BARCA, general, XI, a 366–7; (Carthage), V, b 141; (Hannibal), XI, b 394; (Rome), XX, *b* 766, b 767; (Spain), XXII, a 320
—— Giscon, general (Sicily), XXII, a 25
Hamilton, inlet and river (Labrador), XIV, *a* b 176
HAMILTON, Australia, XI, a 368
——, town (Bermudas), III, *a* 518
HAMILTON, Canada, XI, b 367
HAMILTON, New York, XI, b 366
HAMILTON, Ohio, XI, b 367–8
HAMILTON, Scotland, XI, a b 367
——, mountain (Telescope), XXIII, a 166; (United States), a 852
HAMILTON, Alexander, statesman, XI, a 368–70; (American Literature), I, *a* 633; (Gallatin), X, *a* b 36; (Madison), XV, a 184, a 185; (Political Economy), XIX, b 397; (Protection), b 938; (Tammany Society), XXIII, a 920; (United States), b 793, a 796, b 800, b 801, a b 803, a 805, b 808
——, Capt. A. (Andaman Islands), II, a b 13, *a* 14
——, Alexander, orientalist (Bopp), IV, a 44
HAMILTON, Anthony or Antoine, essayist, XI, a b 370; (Gramont), b 39, a 40
——, Archibald, duke of (Moore, Sir John), XVI, a b 830
—— of Bothwellhaugh, Arthur, assassin (Murray), XVII, a 69; (Scotland), XXI, a 528
——, Charles, orientalist (Hamilton, E.), XI, b 370
——, dukes of (Chatellerault), V, a b 380; *Memoirs of the* (Burnet), IV, a 502; origin of (Scotland), XXI, a 516 note, a 517
HAMILTON, Elizabeth, novelist, XI, b 370
——, Emma, Lady, adventuress (Nelson), XVII, a b 332; (Romney), XX, a 862
——, James, 1st duke (Scotland), XXI, *a* b 534, a *b* 535, a 536; (Cromwell), VI, b 530
——, James, 2d duke (Scotland), XXI, a 536, b 539
HAMILTON, James, teacher, XI, b 370–1
——, John, archbishop of St. Andrews (Cardan), V, a b 81; (Scotland), XXI, a 522, a 523, a b 525, a 567
HAMILTON, Patrick, martyr, XI, a b 371; (Ales, Alexander), I, b 423; (Reformation), XX, b 349
HAMILTON, Robert, economist, XI, b 371
——, Terrick (Antara), II, b 89
——, Thomas, architect (Nicholson), XVII, b 500
HAMILTON, Thomas, novelist, XI, b 371
HAMILTON, Sir William, antiquary, XI, a b 376
HAMILTON, Sir William, metaphysician, XI, b 371–6
  conditioned philosophy of, b 374, a 375
  consciousness, b 372–4
  critics criticized, a b 373
  educational period, a 371–2
  general acquirements of, b 375–6
  logic, b 374–5
  relativity of knowledge, b 373
  teacher, a 372, b 375
—— (Absolute), I, b 58; (Analysis), b 699; (Analogy), b 694; (Æsthetics), b 199; (Association of Ideas), II, b 638 9; (Beneke), III, b 484; (Category), V, a 197; (De Morgan), VII, *b* 58; (Dream), *a* 394; (Collier), VI, a b 130; (Combe), a b 161; (Cousin), a 466, b 467; (Eleatic School), VIII, b 3; (Ferrier, J. F.), IX, b 96; (Forbes), b 343–4; (Jacobi), XIII, a b 547; (Logic), XIV, a b 804, note, a*b*808, notes; (Metaphysic), XVI, a 94; (Philosophy), XVIII, a b 807, b 809; (Psychology), XX, b 43, b 46, b 49, *a* 53, a 70, *b* 75, a 83 note, a 89 note, (Rhetoric), b 525; (Scepticism), XXI, a 399; (Theism), XXIII, b 265; (Universities), a 897, a 900, a 901, a 906, a 911
HAMILTON, William, poet, XI, b 376
——, Wm. Gerard, politician (Burke), IV, *a* 483
HAMILTON, Sir William Rowan, mathematician, XI, b 376–8; (Algebra), I, *a* 451, a 455; (De Morgan), VII, a 58; (Geometry), X, b 337; (Hodograph), XII, a 44, b 45, a 46; (Light), XIV, a 602–3; (Mechanics), XV, b 757; (Quarternions), XX, a 167, a 168–70; (Wave Theory), XXIV, b 455 note, a 475
Hamilton's Dynamometer, VII, a 505; equation of motion (Hydromechanics), XII, b 474–5
Hamilton group, rocks (Geology), X, *a* 306
HAMIRPUR or Humeerpoor, district, XI, a 378; town, b 378
Hamites, people (Negro), XVII, *b* 327
Hamitic languages (Philology), XVIII, b 791–2; (Semitic Languages), XXI, b 674–5
—— races (Somali), XXII, a 269; (Soudan), b 291, a 292; (Tibbus), XXIII, a *b* 355
HAMLET, character, XI, b 378–9
Hamlet, play (Barante), III, b 308; (Byron), IV, b 543; (Denmark), VII, b 72; (Drama), a b 340, b 341, a 384; (Elsinore), VIII, b 143; (Poetry), XIX, b 277; (Scarlatti), XXI, a 393; (Shakespeare), b 794, b 799, *b* 800, a 805; versions of (Russia), b 116
Hamley, Sir Edward Bruce, general (Chesney), V, a 513; (War), XXIV, b 365, a 366, a 367, b 382–3, a 384
Hamlin, Hannibal, vice-president (United States), XXIII, *a* 821; (Welles), XXIV, *b* 889
HAMM, town, XI, b 379
Hammaburgensis, Gesta (Adam), I, a 128
Hammád, desert (Palmyra), XVIII, b 202
Hammád, rhapsodist (Mo'allakát), XVI, a b 560, a 561
Hammamat, inscription (Incense), XII, b 757
Hammamet, town (Tunis), XXIII, b 660
HAMMARSKOLD, Lorenzo, critic, XI, b 379
HAMME, town, XI, b 379
HAMMER, tool (Ill.), XI, b 379-81; (Hephæstus), XI, b 605; forge (Iron), XIII, a 336–7. See Steam Hammer
—— for Clocks, VI, b 23, *a* 30
—— for Pianoforte (Ill.), XIX, *a* 79, b 80, a 81
—— block or Tup (Iron), XIII, b 336
Hammered work (Metal-Work), XVI, b 78, b 79, b 84
HAMMERFEST, town, XI, a 381; (Lapland), XIV, b 305
Hammerhead, bird (Stork), XXII, b 606
—— Sharks, XXI, a b 813
Hammerken, Thomas. See KEMPIS, Thomas a
HAMMER-PURGSTALL, Joseph von, orientalist XI, b 381-2; (Thousand and One Nights), XXIII, *a* 337; (Turkey), b 693, *b* 699
HAMMERSMITH, town, XI, a 382; (London), XIV, a b 831, b 832, b 834, b 843
Hammock. life-saving (Lifeboat), XIV, b 577; sleeping (Ethnography), VIII, b 542
HAMMOND, Henry, divine, XI, a b 382
——, William, divine (Hymns), XII, a 629
——, William A., neuralogist (Sleep), XXII, a 165, a 167
—— Wheel Machine for Writing, XXIV, a 734 note
Hammúdites, dynasty (Spain), XXII, a 330
Hammurabi, dynasty (Berosus), III, a 525
Hamoaze harbor (Dockyards), VII, b 273; (Plymouth), XIX, a 249
Hamoir's puddling process (Iron), XIII, a 335
HAMON, Jean Louis, painter, XI, b 382–3
HAMPDEN, John, statesman, XI, a 383 4; (Finance), IX, b 157; (Tallage), XXIII, b 34
——, manor (Buckingham), IV, b 373
HAMPDEN, Renn Dickinson, bishop, XI, a 384; (Wilberforce), XXIV, a 596
Hampel, musician (Trumpet), XXIII, a 631
Hampole's Psalter (English Bible), VIII, a 343
HAMPSHIRE, county (Plate VII), XI, a 384-6; (England), VIII, a b 244; hogs (Agriculture), I, a b 355; sheep (Agriculture), I, a 348
HAMPSTEAD, village, XI, b 386; (London), XIV, *a* b 827, a b 831, b 833, a 836, a b 842, a 843, b 856, b 859, a 861; Road (London), XIV, b 838, a 842, a 850
HAMPTON, village, XI, b 386–7
—— Court, palace (Labyrinth) (Ill.), XIV, *b* 181; (London), b 833; (Metal-Work) (Ill.), XVI, a 80, b 82, b 83; (Mural Decoration), XVII, b 44; (Schools of Painting), XXI, b 465; (Sculpture), b 586; (Textiles), XXIII, b 230, a 231
—— Court Conference, 1604 (Bancroft), III, b 266; (Presbyterianism), XIX, a 706; (Scotland), XXI, b 532
Hampton's Parachute (Ill.), I, a 182
Hamra, town (Egypt), VII, b 672
HAMSTER, rodent, XI, a 387; (Fur), IX, b 735, b 736; (Mammalia), XV, b 421, a 422; (Mouse), XVII, a 11, b 12
Hámún, district (Sistán), XXII, a *b* 108–9
Hamza, prophet's uncle (Mohammedanism), XVI, b 573, b 579, a 588
—— Ispahání, historian (Tabarí), XXIII, b 8
Hamze ben Ali ben Ahmed, sectary (Druses), VII, a b 418
Han dynasties (China), V, a 554, b 559–60, b 575, a 576; (Confucius), VI, a b 233
—— river (Swatow), XXII, b 771
—— system of government (Japan), XIII, a 589, a b 593

Hanafites or Hanífs, sect (Egypt), VII, *b* 627; (Mohammedanism), XVI, b 570, a 571, a 572, b 574, a 585, a 615; (Sunnites), XXII, a b 695, b 696
Hananeel, Rabbenu (Talmud), XXIII, b 42 note, a 43, a 44
Hananiah ben Hezekiah, rabbi (Canon), V, b 4
Hanaper, office (Chancery), V, a 338
HANAU, town, XI, a b 387; Artillery at, II, b 584
Hanbalites, sect (Mohammedanism), XVI, a 615; (Sunnites), XXII, a b 695
Han-chung Foo, department (China), V, a 562
Hanckius, Martin, philologist (Byzantine Historians), IV, b 546
Hancock, J., naturalist (Brachiopoda), IV, a 170, b 172, *a* 173, *a b* 174; (Tunicata), XXIII, b 647, b 650, b 658
HANCOCK, John, statesman, XI, b 387; (Franklin, B.), IX, a 630; (Trumbull), XXIII, b 945; (United States), a 786
HANCOCK, Winfield Scott, general, XXIII, a b 838
Hancornia speciosa, plant (India-Rubber), XII, a b 878
Hancza, river (Poland), XIX, *a* 319; (Suwalki), XXII, b 765
Hand (Anatomy) (Ill.), I, b 725, a 730; (Ape), II, b 137, a b 141–2, a 144; (Mammalia) (Ill.), XV, a b 362; (Megatherium), b 838; bloodvessels of (Anatomy), I, a 794, *b* 795; bones of (Skeleton), XXII, *a* b 125–6; joints of (Anatomy), I, b 736–7; sensitiveness in (Touch) (Ill.), XXIII, a b 510, a b 511
Handa, island (Sutherland), XXII, *b* 763
Hand-books, travellers' (Ford, R.), IX, b 348–9
Handeck, falls (Aar), I, b 10; (Switzerland), XXII, b 815
HANDEL, George Frederick, composer, XI, b 387–90; (Burney), IV, a 504; (Farinelli), IX, b 31; (Flute), *a* 307; (Gervinus), X, *b* 494; (Gluck), b 618; (Hasse), XI, a b 456; (Isaiah), XIII, a 392; (Lute), XV, b 72, a 73; (Music), XVII, a b 97 note, a *b* 98–9, b 100, b 101; (Pianoforte), XIX, a 75, *b* 78; (Scarletti), XXI, a 393; (Steffani), XXII, a b 557; (Trumpet), XXIII, b 631
Hand engines (Fire), IX, b 205
—— gun (Gunmaking) (Ill.), XI, b 246, a 247
Handicaps, in racing (Horse), XII, a b 206
Handicrafts, effects of (Physiognomy), XIX, b 7
Hand loom (Weaving) (Ill.), XXIV, a 490
—— press (Typography), XXIII, b 750–1; demerits of (Typography), b 751–2, b 752–3
—— pump (Fire), IX a 205
Hands (Clocks), VI, b 30–1
Handshaking (Salutations), XXI, a 249; origin of, (Roman Law), XX, b 692 note
HAND-TOOLS (Ill.), XI, a 390–3
    metal edge tools, a b 392
    other varieties (Ill.), b 392, a 293
    wood edge tools (Ill.), a 390–2
—— (Mining), XVI, a b 464
HANG-CHOW-FOO., city, XI, a b 393; (China), V, b 545, b 546, b 548, a 550, a b 552
Hangendenlissen, village (Fünfhaus), IX, b 726
Hangest, Hélène de, potter (Pottery and Porcelain), XIX, b 648
Hang-hai, region (Turkestan), XXIII, a 671, a 673
Hanging, death by (Medical Jurisprudence), XV, a b 791; (Suicide), XXII, a 665
—— gardens (Babylon), III, b 158
Hanglip range (Transvaal), XXIII, a 550
Hang-shan Mountain (China), V, b 553
Han-hai desert (Gobi), X, *b* 635
Han-iang, city (Corea), VI, a 348
Hanífs, sect. See Hanafites
Hank, measure (Linen Manufacture), XIV, a 673; (Yarn), XXIV, *a* 767
HANKA, Wenceslaus or Waklaw, philologist, XI, b 393–4; (Slavs), XXII, b 160, a 162
Han Keang, river (China), V, a b 549, b 553, *a* 554, 555
Hankel, Wilhelm Gottlieb, physicist (Electricity), VIII, *b* 79, b 88, a 90, a 93; his electroscope (Electrometer), b 114
Han-Kong Tseu (Drama), VII, a 347
HANKOW, city, XI, a 394; (China), V, *b* 548, a b 549, *b* 553, a 554, a b 555, b 556
HANLEY, town, XI, a b 394; (Stafford), XXII, *a* 460
Hannagid Shemuel, rabbi (Talmud), XXIII, a 43
Hannānā of Hĕdhaiyabn, author (Syriac Literature), XXII, b 879
Hannasi, Yehudah, rabbi (Mishna), XVI, a 527; (Rab), XX, a *b* 197
HANNAY, James, critic, XI, b 394
——, J. B., physicist (Ice), XII, b 647
——, Patrick, poet (Scotland), XXI, b 568
Hannay's emery wheel (Glass), X, a 594
Hännchen und die Küchlein (Eberhard, A. G.), VII, a 534
HANNIBAL, Missouri, town, XI, a 398; (Missouri), XVI, a 550
HANNIBAL, general, XI, b 394–8
    Capuan movements, a b 396
    Carthage conquered, a 397
    descent into Italy, a 395
    exile, b 397
HANNIBAL, *continued*
    Hasdrubal's support, a 397
    Spanish campaign, a 394–5
    Ticino to Cannæ, b 395–6
——, general (Capua), V, a 71; (Carthage), b 141, a 142; (Fabius Maximus), VIII, *b* 732; (Metapontum), XVI, a 108; (Rome), XX, b 766, a *b* 767–9, b 771; (Scipio), XXI, a 489; (Selinus), a 665; (Spain), XXII, a 320
—— son of Gisco, general 408 B.C. (Carthage), V, a 141; (Sicily), XXII, a 23
Hannington, John, bishop (Uganda), XXIII, b 765
HANNO I., explorer, XI, a b 398; (Carthage), V, *b* 140; (Geography), X, b 157; (Phœnicia), XVIII, a 822, note; *Periplus* of (Africa), I, b 219
——, general (Hannibal), XI, a 395, b 396
HANNO, politician, XI, b 398; (Hamilcar), *b* 366
—— of Cologne, archbishop (Adalbert), I, a 124; (Germany), X, b 437–8; (Henry IV., Emperor), XI, a 595
Hann's climate tables (United States), XXIII, b 854, a 856
Hannyngton's *Haversines* (Tables), XXIII, b 13
Ha-noi, city (Cochin China), VI, a 86, b 87, b 88; (Tong-King), XXIII, b 467, a 468
Hanoteau, linguist (Kabyles), XIII, a 824
HANOVER, province, XI, b 398–401; (Bremen), IV, a 229; (Cumberland, Duke), VI, b 623; (Ewald, H.), VIII, *a* 677; (Hamburg), XI, b 364; (Prussia), XX, *a b* 18, a b 19, *b* 20
HANOVER, city (Plan), XI, a *b* 399, a b 401; (Libraries), XIV, b 548
—— dolmens (Rude Stone Monuments), XXI, a 58
——, House of (Atterbury), III, a b 49; (Bolingbroke), IV, a b 7; (England), VIII, a 317–27
Hansa. See Hanseatic League
HANSARD, Luke, printer, XI, b 401
Hansard's reports (Shorthand), XXI, b 880 note
Hansclever and Helbig's furnace (Zinc) (Ill.), XXIV, a b 824
Hanse of Aberdeen, league (Scotland), XXI, a 503
—— merchants (London), XIV, *a* 839; (Steelyard), XXII, a b 556
—— towns. See HANSEATIC LEAGUE
HANSEATIC LEAGUE, XI, b 401–4; (Bergen), III, b 507; (Commerce), VI, b 179; (Denmark), VII, b 74; (Germany), X, b 442, a 444, a 450; (Hamburg), XI, a 365; (Lübeck), XV, a 34–5; (Magdeburg), b 198; (Minden), XVI, a 358; (Piracy), XIX, a 126
Hansen, Moritz Christoph, author (Norway), XVII, b 604; (Scandinavian Languages), XXI, a 390
HANSEN, Peter Andreas, astronomer, XI, a 404; (Moon), XVI, a b 828, *a* 829; (Parallax), XVIII, b 250; (Tables), XXIII, b 19; on lunar acceleration (Tides), a b 402
Hansen's analysis of chlorophyll (Physiology), XIX, *a* 60
—— formula for meridian transits (Transit Circle), XXIII, a 549; tables (Calendar), IV, b 592
Hánsi, town (Hissár), XII, *b* 4
Hansing, mandarin (Chess), V, b 519
Han-Siro, Japanese exile (Xavier), XXIV, *b* 753
Hansom cab (Carriage), V, a 120
HANSTEEN, Christopher, astronomer, XI, a b 404; (Magnetism), XV, b 238; (Meteorology), XVI, *b* 171; (Norway), XVII, b 606
"Hans Wurst," clown (Drama), VII, b 380, a 381; (Germany), X, a 474, b 475, b 476
Hanthawady, district (Rangoon Town), XX, b 283
Hants, county. See HAMPSHIRE
Hantschl's *Logarithmisch-trigonometrisches Handbuch* (Tables), XXIII, b 16, a 18
Hanuman Nâtākā (Drama), VII, b 343; (Sanskrit), XXI, a 300
Hanun, king of Ammonites (Israel), XIII, a 415
HANUSCH, Ignaz Johann, philosopher, XI, b 404
HANWAY, Jonas, traveller and philanthropist, XI, b 404–5; (Geography), X, a 168; (Persia), XVIII, a 654; (Tea), XXIII, a 108; (Umbrella), b 770
Hanyang, city (Hankow), XI, *a* 394
Hao islands (Tuamotu), XXIII, a 640
Hapale, genus (Ape), II, a b 136, a *b* 137, *a* 138, b 139, a b 141, *a b* 142, *a b* 143, a *b* 144, *a* 145, b 146
Hapalemur, genus (Lemur), XIV, b 442–3
Hapalidæ, family (America), I, *b* 598; (Mammalia), XV, b 451
Hapalinæ, group (Ape), II, a b 136, a *b* 137, a 138, a 140, a 142, b 143, a *b* 144, b 145
Hapaloderma, group of birds (Trogon), XXIII, a 621
Hapalotis, genus (Mouse), XVII, a 12
HAPARANDA, town, XI, a 405
Hapi, god (Apis), II, a 152, a 153
Haplite (Granite), XI, b 44
Haplochitonidæ, family (Ichthyology), XII, a 715, a 732
Haplococcus, parasite (Protozoa), XIX, b 879
Haplocyta, order (Protozoa), XIX, b 877
Haplodontidæ, family of rodents (Mammalia), XV, a 423

Haplomitrium, mosses (Muscineæ), XVII, b 74, a 75, *b* 76; (Vegetable Kingdom), XXIV, a 140
Haplomorpha, sub-order (Mollusca), XVI, a 680
Haplophragmium (Protozoa) (Ill.), XIX, a 869, b 870
Happiness (Ecclesiastes), VII, a b 540-1; Spinoza on (Cartesianism), V, a 139; theory of (Aristippus), II, *b* 445, a 446
HAPSBURG, family, XI, a b 405; (Austria), III, b 108; (Fielding, H.), IX, a 125; (Germany), X, b 442-3, b 444; (Hungary), XII, a 384-5; (Schwyz), XXI, a 486; (Spain), XXII, a 342-9; (Switzerland), b 819, *b* 820, *a b* 821, *a b* 822, *a b* 823, a b 824; (Zurich), XXIV, *b* 870; expulsion of (Soleure), XXII, b 263; rise of (Unterwalden), XXIII, a 915
HÁPUR, town, XI, b 405-6
Har, god (Egypt), VII, b 619, a 622
Haram, sacred enclosure, Hebron, XI, b 542-3
——, Jerusalem, XIII, a 647, a 648-9, a b 651-2, b 653; (Sepulchre, Holy), XXI, a b 704; (Temple), XXIII, a 185
——, Mecca, XV, a b 676, a 677, a b 681; (Arabia), II, a 206
HARAN, Harrán, Charran or Carrhæ, district and city, XI, a 406; (Mesopotamia), XVI, b 52, b 53; (Mohammedanism), b 599-600; (Persia), XVIII, b 623. See Carrhæ
Harant, Christopher, traveller (Slavs), XXII, a b 161, a 162
HARAR, Herer or Hurrur, town, XI, a 406
Hararese or Harari, language (Harar), XI, b 406; (Semitic Languages), XXI, b 688
Haraza of Ispahán, historian (Gipsies), X, a 551
Harb clan (Arabia), II, b 215, a 222
Harbinger, The (Ripley), XX, *b* 582
HARBORS AND DOCKS (Plates VIII-XII) (Ill.), XI, b 406-22
  basins, tide, a 417
  capacity of docks, a 418
    of harbors, a 411, a 414
  deep water harbors, a 410-11
  deposits and scouring, a 416
  designing tidal harbors, b 412
  docks, b 416-21
  exterior works (Ill.), b 406-7
  force of waves (Ill.), a 409-10
  gangway and staiths, b 421
  gates, b 417, a 421
  generation of waves (Ill.), b 407-9
  graving docks, a 420
  increasing waves, b 416
  iron piers, b 415-16
  law, b 421-2
  lockage, b 419
HARBORS AND DOCKS, *continued*
  locks, b 416-17
  materials for construction, a 414-15
  proportions of basins, b 418, a b 419
  quays, dock, b 418, b 419
  reduction of waves, tidal harbor, a b 413
  repairing expedients, a b 420
  tidal harbors, b 411-16
—— (Aberdeen), I, b 44; (Alexandria), b 436, a 438; (Algiers), b 502; Amsterdam (Canal), IV, a b 696; (Ardrossan), II, b 423; (Ayr), III, a 143; (Baltimore), a b 258; (Barcelona), b 317; (Boston) (Map), IV, 65, a 66; (Brest), b 232, a 233; (Cæsarea Palestina), a 568; (Callao), a 627; (Carlskrona), V, b 99; (Cartagena), a 124; (Carthage), b 142; (Cherbourg), 507-8; Chicago (St. Lawrence), XXI, b 187-8; (France), IX, a 458; (Galveston), X, a b 47; (Geelong), b 114; (Geestemünde), a 115; (Genoa), b 140; (Glasgow), b 570-1; (Greenock), XI, b 154; (Greytown), a 173; (Guernsey), XI, b 219, a 220; (Hamburg), b 363; (Harlingen), b 429; (Hartlepool), a 445; (Harwich), a 453; (Havana), b 468; (Havre) b 470-1; (Helder), b 561; (Helvoetsluys), a 574
—— (Hobart Town), XII, b 32; (Holyhead), a 108; (Honduras), XII, b 133, *a* 134; (Honfleur), a 144; (Hong-Kong), *b* 144; (Hull), b 354-5; (Japan), XIII, b 580; (Kiel), XIV, b 73; (Kingstown), *b* 92; (Kurrachee), a 162; (Leghorn), b 416-7; (Leith), a b 432; (Liverpool), a b 722; (London), a 840-1; (Mannheim), XV, b 501; (Marseilles), a b 578; (Malta), b 342, b 343, b 344; (Massachusetts), a 618; (Nagasaki), XVII, b 170; (Naples), a b 197; (New York), b 471, b 477, b 893-5; (Plymouth), XIX, a b 249; (Pola), a 296; (Quebec), XX, b 174; (Ramsgate), a 280; (Rio de Janeiro) Map, a b 577, *a* 578; (Rotterdam), XXI, b 14, note; (Rouen), b 15-6; (St. John's), b 184; (St. Nazaire), b 196; (Salerno), a 222; (Spezia), XXII, b 412; (Swinemunde), a 813; (Toulon), XXIII, a b 514; (Yokohama), XXIV, b 782
—— Department (Board of Trade), XXIII, a 530
—— destruction (Teredo), XXIII, a 202
—— Island (Bahamas), III, b 205, b 206
HARBURG, town, XI, a 422
Harcla Harclay or Hartcla, Sir Andrew, earl (Carlisle), V, a 96; (Knighthood), XIV, b 126; (Robert Bruce), XX, a 611
Harcourt, Henri Pierre, duc de, diplomatist (France), IX, *b* 511; (Spain), XXII, a *b* 349
Harcourt, W. Vernon, optician (Telescope), XXIII, a b 155
——, Sir William Vernon, statesman (International Law), XIII, a 202, note; (Post-Office), XIX, b 585
Harcourt's law of chemical action (Chemistry), V, a b 424
Harda, town (Hoshangábád), XII, a 312
Hardanger Fjord (Norway), XVII, a 590, a b 591, a 593
Hardangervidden, mountain (Norway), XVII, a b 589
Hardenbech, Ambrosius, preacher (Engelbrechtsdatter), VIII, a b 194
HARDENBERG, Friedrich, von or Novalis, poet, XI, a b 422; (Germany), X, b 484; (Hymns), XII, a 623; (Tieck), XXIII, b 407, b 408
HARDENBERG, Karl August, prince, XI, b 422-3; (Prussia), XX, b 15, a 16
Hardening metals (Strength of Materials), XXII, b 629-31; steel (Iron), XIII, b 362
Harderian gland (Horse), XII, b 184
HARDERWIJK, town, XI, a 423; University, XXIII, a 906
Hardi, Alexandre, actor (Drama), VII, b 366
HARDICANUTE, Hardiknut or Harthacnut, king, England, XI, b 423; (England), VIII, b 260, a 261; (Godwine), X, *a* 641
Harding, Carl Ludwig, astronomer (Astronomy), II, b 691, a 706
HARDING, James Duffield, painter, XI, b 423; (Lithography), XIV, *a* 707
——, John, chronicler. See HARDYNG
——, Stephen, abbot (Abbey), I, b 21; (Bernard), III, *a* 520; (Cistercians), V, a *b* 693, a 694
HARDINGE, Henry Hardinge, viscount, XI, a 424; (Aldershott Camp), I, a b 419; (India), XII, a b 847
Hardinghen coal measures (Geology), X, b 310 note
Hardness of Metals, XVI, b 70, b 73; influence of (Magnetism), XV, b 262; scale of (Mineralogy), XVI, a 393
—— of Water, XXIV, a b 421; (Water-Supply), a 431
HARDOI, district, XI, a b 424
HARDOUIN, Jean, philologist, XI, b 424
HARDT, Hermann von der, orientalist, XI, a 425
—— mountains (Vosges), XXIV, *a* 319
Harduin of Ivrea, margrave (Henry II., Emperor), XI, *b* 594
HARDWÁR or Hurdwar, town, XI, a 425; (Fair), VIII, a 743; (Sahâranpur), XXI, *a* 160
Hardware, American (Patents), XVIII, a 882
Hard Wheat (Macaroni), XV, b 126; (Wheat), XXIV, *a* 562, *a* 563
Hardwick, Countess of. See Bess of Hardwick
——, T. F., scientist (Photography), XVIII, b 843
——, forest of (Halifax), XI, a 344
Hardwicke, Philip Yorke, earl of (Marriage), XV, a 574
Hard-wood trees (Arboriculture), II, b 277
HARDY, Alexandre, dramatist, XI, a b 425; (France), IX, b 578
——, R. Spence, orientalist (Buddhism), IV, a b 381, b 384 note, b 387 note, a b 388, notes, b 392
——, Sir Thomas Duffus, antiquary (Rymer), XXI, *a* 128
Hardy Florists' Flowers (Horticulture), XII, a 261, a 262
HARDYNG, John, chronicler, XI, b 425; (Lancaster), XIV, *b* 257; (Libraries), a 515
HARE, rodent (Ill.), XI, b 425-7; (Coursing), VI, b 457-8; (Fur), IX, b 735, b 736; (Hibernation), XI, a 704; (Hunting), XII, a 409, b 411; (Prairie), XIX, a 925; (Rabbit), XX, a 199; (Shooting), XXI, a 873; (Sumatra), XXII, b 673; (Sweden), a 779; anatomy of (Mammalia) (Ill.), XV, a 351, *b* 420, *a b* 421, *a* 422, b 426; as sign of Zodiac, XXIV, b 831, a 832
——, Jumping. See JERBOA
——, Alexander, adventurer (Keeling Islands), XIV, b 28
——, Augustus William, archdeacon, XI, a 427 note
HARE, Julius Charles, divine, XI, a 427; (Maurice), XV, *a* 646; (Sterling), XXII, a b 569; (Thirlwall), XXIII, *a* 326
——, Robert, chemist *b.* 1781, *d.* 1858 (Signal Service), XXII, b 903; his battery (Electricity), VIII, a 87; camera (Photography) (Ill.), XVIII, a 854; lamp (Oxyhydrogen), XVIII, a b 109
HAREBELL or Campanula, plant (Ill.), XI, b 427; (Botany) (Ill.), IV., a 120, b 122
Hareek mountains (Arabia), II, a b 209, b 217, a 219, *a* 229
Hare-Indian Dog, VII, b 281, a 282
Hare-lip (Anatomy), I, a 729; (Monster), XVI, a 790
HAREM, women's quarter, XI, b 427-8; (David), VI, a *b* 739; (Egypt), VII, b 628
Har-em-heb or Horus, king (Egypt), VII, a 640
Haren, Onno Zwier van, poet (Holland), XII, *b* 99
——, Willem van, poet (Holland), XII, *b* 99
Hare's-ear, plant (Botany) (Ill.), IV, a 103
Harfield, W. H., inventor (Capstan), V, b 70
HARFLEUR, town, XI, a b 428
Hargila, bird (Jabiru), XIII, b 539

Har Govind, Sikh ruler (Punjab), XX, *a* 117
Hargraves, E., miner (Australia), III, b 99
—— or Hargreaves, James, inventor (Arkwright), II, b 474, a 475; (Cotton), VI, b 434-5, a b 441; (Yarn), XXIV, a 767
Hargreave, mathematician (Infinitesimal Calculus), XIII, a 32
Hargreave's process (Sodium), XXII, b 255-6
Hari, worship of (Hindustani Literature), XI, a 754
HARIÁNÁ or Hurreeanah, district, XI, b 428; (Rohták), XX, b 639
Haribert, duke (Aquitania), II, b 203
Haricot Bean, III, a 398; (Botany) (Ill.), IV, b 81, b 84; (Oporto), XVII, b 818
Háridravika (Sanskrit), XXI, b 291
Hari-ke-charan, bathing ghat (Hardwár), XI, a 425
Haring, Thomas Jacoby, auctioneer (Rembrandt), XX, b 388
HARING, Wilhelm, novelist, XI, b 428; (Germany), X, a 486
Haringhátá or Baleswar, river (Bákarganj), III, b 213
HARINGTON, Sir John, poet, XI, b 428-9; (Andrewes), II, b 20; (Shakespeare), XXI, a 793
Haringvliet, river (Holland), XII, a 63, *a* 66
HARIRI, poet, XI, a b 429
Hari-Rụd, river (Afghânistân), I, *a* 204, a 206
Hari Sinh, commander (Jamrud), XIII, b 573
Hárith, poet (Mo‘allakát), XVI, b 560, a 561
Harkness, W., astronomer (Telescope), XXIII, a 153; on Encke's comet (Astronomy), II, a b 713
Harkort, metallurgist (Blowpipe), III, a 729
Harlacher's current meter (Hydromechanics) (Ill.), XII, a 535; graphic method for velocity (Hydromechanics) (Ill.), a b 539, 540
Harlaw, battle of, 1412 (Scotland), XXI, a 514
Harlay de Chanvalon, François, archbishop (Fenelon), IX, b 64, a 65; (Hymns), XII, b 619
Harlech, castle (Merioneth), XVI, a 44
—— group, rocks (Geology), X, b 291
Harleian library (D'Ewes), VII, a 124; (Oxford, Earl of), XVIII, b 104
—— manuscripts (Libraries), XIV, a b 514
Harleian Miscellany (Oxford), XVIII, b 104; (Pamphlets), a b 210
Harlem, river (New York), XVII, a b 470
Harlequin, character (Drama), VII, b 361; (Pantomime), XVIII, b 219, a b 220
—— -duck (Birds), III, b 656
Harley, George, physician (Jaundice), XIII, a b 609
——, Robert. See OXFORD, Earl of
HARLINGEN or Haarlingen, town, XI, b 429-30
Harlotry. See Prostitution
Harlot's Progress, engravings (Hogarth), XII, b 50
Harlow Car, spa (Harrowgate), XI, a 443
Harm or Gharm, town (Karategin), XIV, a 6
Harmattan, wind (Africa), I, a 230; (Hygiene), XII, a 601; (Sierra Leone), XXII, a 50
Harmenopulus, Constantine, jurist (Roman Law), XX, b 734
Harmer, naturalist (Vertebrata), XXIV, b 194, b 203
HARMODIUS, hero, XI, a 430; ode to (Callistratus), IV, a 628; and Aristogiton, statues of (Archæology), II, *a* 307
HARMONIA, myth, XI, a 430; (Cabiri), IV, b 551; (Cadmus), a 559
HARMONICA, musical instrument, XI, a b 430
HARMONIC ANALYSIS, XI, b 430-1; (Heat), a b 526; (Radiation), XX, *b* 322; (Tides), XXIII, b 386-7
—— analyzer, instrument (Tides) (Ill.), XXIII, a 395-6
—— bar (Pianoforte), XIX, b 84
—— curve (Mechanics), XV, b 692
Harmonice Mundi (Kepler), XIV, a 49
Harmonic motion (Hodograph), XII, b 44; (Light), XIV, b 617; simple (Mechanics), XV, a 693-7, b 735; compound (Mechanics), a b694-7
Harmonicon Gas (Acoustics), I, b 107, a 110
Harmonic pencils (Geometry), X, *b* 350; points and conjugates (Geometry), b 349-50
—— relation of spectrum lines (Spectroscopy), XXII, a b 393-4
Harmonics (Acoustics), I, *b* 104, a 107, *b* 110; (Ear), VII, b 512; (Music), XVII, a 96-7, b 110, b 112; grave (Language), XIV, b 208
Harmonic Series, XXI, b 710
—— Telegraph, XXIII, a 134
—— vibration (Mechanics), XV, b 735
Harmonies, ancient, of the (Bible), III, a 560
——, Gospel (Robinson), XX, *a* 623
HARMONIUM, musical instrument, XI, b 431-3
Harmonie Universelle (Pianoforte), XIX, b 74, b 75, a 87
Harmonius Bar-Daisān, poet (Syriac Literature), XXII, a 867
Harmonizing angles of trigonometrical figures (Surveying), XXII, a 736
Harmony in Architecture, II, b 334
——, musical (Aristoxenus), II, a 460; (Ear), VII, b 513-4; (Music), XVII, b 88; Greek definition of (Music), b 84, note b 86; laws of (Acoustics), I, b 100-3; pleasure of (Psychology), XX, b 73-4; *Treatise on*, Day's (Music), XVII, b 107-8
——, pre-established (Lotze), XV, a b 16, a 17; of monads (Leibnitz), XV, a 421-3
—— *of the Church* (Drayton), VII, a 390
—— of colors (Psychology), XX, a 74
—— *of the Gospels* (Heliand), XI, b 562; Frankish (Germany), X, b 463. See Harmonies
—— Society, communists (Rapp), XX, b 895-6
Harmotome, mineral (Mineralogy) (Ill.), XVI, a 380, a 441
Harnack, Adolph, philologist (Hebrews), XI, *b* 541, note. See List of Contributors
Harness, ancient (Chariot), V, a 348
—— Horse, XII, b 195-6
—— -making (Saddlery), XXI, a 150
Harney, Mount (United States), XXIII, b 847
Haro Islands (San Juan), XXI, a 279
HARO, town, XI, a 433
——, house of (Spain), XXII, b 333
——, Don Luiz de (Portugal), XIX, b 563-4
Harold, Bluetooth, king, Denmark (Harold II., Norway), XI, b 433
HAROLD I., Harefoot, England, XI, a 434; (England), VIII, b 260-1; (Godwine), X, *a* 641; (Hardicanute), XI, b 423
HAROLD II., England, XI, a 434-6; (England), VIII, b 261-2; (Godwine), X, a b 641; (Knighthood), XIV, a 114; (London), b 847; (Waltham Abbey), XXIV, b 360, *a* 361; (William I.), a 607
HAROLD I., Haarfager or Fairhair, Norway, XI, a b 433; (Haco), *a* 322; (Hebrides), a 542; (Norway), XVII, b 599, a 602; (Scotland), XXI, a 500
HAROLD II., Graafel or Grayskin, Norway, XI, b 433; (Norway), XVII, a b 600
HAROLD III., Hardrada or Stern in Council, Norway, XI, b 433; (Norway), XVII, b 601-2; (Venice), XXIV, b 168 note; (York), b 789
HAROLD IV., Gille or Gilchrist, Norway, XI, a 434; (Norway), XVII, a b 602
—— Siggurdson, king (Iceland), XII, a 658
Harold the Dauntless (Scott), XXI, b 574, note
Harosh, Rabbenu (Rosh), XX, b 874
Hároon, ruler (Egypt), VII, a 650
HAROUN AL RASCHID or Hárún al Rashíd, caliph, XI, a b 436; (Abbassides), I, b 15; (Baghdad), III, a 202; (Barmecides), b 325; (Charlemagne), V, a 350; (Chess), b 520, a 521; (Constantinople), VI, b 274; (Greece), XI, a 103; (Mohammedanism), XVI, a 603-5; (Nicephorus I.), XVII, a 495; (Persia), XVIII, a 668; (Tarsus), XXIII, b 73; (Weights and Measures), XXIV, a 515
HARP (Ill.), XI, b 436-8; (Erard), VIII, *b* 453; (Lyre), XV, a 115; development of (Anthropology), II, a 108
Harpagornis, fossil (Birds), III, b 634
Harpagus, satrap (Cyrus, Elder), VI, b 663-4; (Persia), XVIII, b 576, a 577, a 578, a 582 note
Harpagus diodon, bird (Mimicry), XVI, a 354
Harpalus, general (Demosthenes), VII, a 63; (Dinarchus), b 211; (Phocion), XVIII, a 813
Harper, Sir William, lord mayor (Bedford), III, b 416
Harpers, Irish (Celtic Literature), V, b 263, a 272; (Ireland), XIII, a 262, a 263; Welsh (Celtic Literature), V, a 276; (Eisteddfod), VII, a b 686, a 687
HARPER'S FERRY, West Virginia, XI, b 438; (Jackson, T. J.), XIII, b 544, a 545; (United States), XXIII, b 844; Insurrection, 1859 (Brown, John), IV, b 346
Harper's Magazine (American Journalism), XVII, *b* 892
Harpestring, Henrik, physician (Denmark), VII, a 79
Harpicordium, instrument (Pianoforte), XIX, a 76, a b 77
HARPIES, myth, XI, b 438-9
HARPOCRATES, god, XI, a 439
Harpoon, implement (Whale), XXIV, a b 555; gun (Whale), a 555, *b* 557
Harpsichord, instrument (Pianoforte), XIX, b 73, b 77, a *b* 78, b 81; scores (Scarlatti), XXI, *a* 393
Harp-stop (Pianoforte), XIX, b 78
HARPY, bird (Ill.), XI, a b 439
Harpyia, genus of bats (Mammalia), XV, a *b* 412, *a* 414
Harpyiocephalus, genus (Mammalia), XV, b 415
—— tomb at Xanthus (Architecture), II, a 352
Harquebus, weapon (Arms and Armor), II, *a* 489
Har Rái, ruler (Punjab), XX, a 117
HARRAN, city. See HARAN and Carrhæ
—— inscription (Semitic Languages), XXI, a 683
Harranians, sect (Sabians), XXI, b 136
Harrar, town (Africa), I, b 242
HARRIER, bird (Ill.), XI, b 439-40; (Buzzard), IV, b 536
—— Dog (Ill.), VII, a 286; (Hound), XII, b 328, a 330
HARRINGTON, James, philosopher, XI, a b 440
——, Sir John. See HARINGTON.

HARRIOT, Thomas, mathematician, XI, b 440; (Algebra), I, a b 454; (Astronomy), II, a 685; (Telescope), XXIII, b 147
Harris, island. See LEWIS AND HARRIS
——, Benjamin, editor (Newspapers), XVII, b 444
——, Elisha, physician (Sanitary Commission), XXI, b 900, b 901
——, Howell, preacher (Methodism), XVI, a b 201
HARRIS, James, grammarian, XI, b 440–1
——, James L., divine (Plymouth Brethren), XIX, a b 250
HARRIS, John, divine, XI, a b 441
HARRIS, John, D.D., encyclopædist, XI, a 441; (Encyclopædia), VIII, a 178
——, Joseph, astronomer (Stereoscope), XXII, b 565
——, Peter, soldier (Catawbas), V, a 191
HARRIS, Sir William Snow, electrician, XI, b 441; (Electricity), VIII, b 14, a 15, a 18, b 20, a 52, a b 57, a 78; (Electrometer), b 112
——, William Torrey, educator (Kindergarten), XIV, *b* 82; (Libraries), a 538
HARRISBURG, Pennsylvania, XI, b 441–2; (Libraries), XIV, a 553
Harris Institute (Preston), XIX, b 737
Harrison, Frederic, jurist (Law), XIV, b 358, note, a b 362
——, Sir George (Post-Office), XIX, a 590
HARRISON, John, mechanician, XI, a b 442; (Clocks), VI, a 18, a b 22; (Metronome), XVI, a b 206; (Navigation), XVII, *a* b 266
HARRISON, William Henry, president, XI, b 442; (Tecumseh), XXIII, a b 929; (United States), a b 808, a 815
Harrison's boiler (Steam-Engine), XXII, a 520
—— compensation balance (Watch), XXIV, b 416
—— patent (Button), IV, a b 533
Harris's Compass, VI, a 203
Harrodsburg, town (Kentucky), XIV, *b* 46
HARROWGATE, town, XI, b 442–3; (Mineral Waters), XVI, b 453; (York), XXIV, b 784, b 785, a 786
Harrowby, Lord (Pitt), XIX, a b 157
Harrowing, etc. (Agriculture), I, a 300, b 301
HARROW-ON-THE-HILL, village, XI, a 443
—— school (Football), IX, b 321
Harrows (Ill.) (Agriculture), I, b 283–4
Harrwitz, D., player (Chess), V, b 522, a 523
HARRY, Blind, poet, XI, b 443; (Ayr), III, b 142; (Scotland), XXI, b 566; (Wallace), XXIV, *a* 347, *a* 348
"Harry Grace de Dieu," ship (Woolwich), XXIV, a 700, note
Harsha-deva, Srî, dramatist (Sanskrit), XXI, b 299
Hart river (Transvaal), XXIII, b 549, a 550
Hartcla, Sir Andrew. See Harcla
Harte, Francis Bret (American Literature), I, a 639
HARTE-BEEST, antelope (Ill.), XI, b 443–4. See Antilopa Caama
Hartenfels, castle (Torgau), XXIII, b 475–6
Hartfell, mountain (Dumfries), VII, a b 454; (Scotland), XXI, a 546
HARTFORD, Connecticut, city, XI, a b 444; (Connecticut), VI, b 256–8; (Libraries), XIV, a 553
—— Convention, 1814 (United States), XXIII, b 808
Harthacnut, king, England. See HARDICANUTE
Harthama, v. A'yan, general (Mohammedanism), XVI, b 605, a 606
HARTIG, Georg Ludwig, forester, XI, b 444
Hartine, mineral (Mineralogy), XVI, b 447
HARTLEPOOL, town, XI, b 444–5
HARTLEY, David, psychologist, XI, a 445–6; (Association of Ideas), II, b 639, a 640, a 641; (Dream), VII, b 394, a 396; (English Literature), VIII, b 384, a 385; (Ethics), *b* 534, note
Hartly, David 2d statesman (Slavery), XXII, a 147
——, W. N., chemist (Spectroscopy), XXII, *a* b 389, *b* 390, a 391, *a* b 394, *a* 395, a 396
—— Colliery, VI, b 49, b 59
—— Institution (Southampton), XXII, a 296
HARTLIB, Samuel, essayist, XI, a 446; (Agriculture), I, a *b* 265, a 267
Hartlieb, Johann H., physician (Physiognomy), XIX, b 8
Hartman, Johan Peter Emil, composer (Denmark), VII, a 80, b 82
——, Edward von, philosopher (Evolution), VIII, a 673; (Germany), X, b 486; (Pessimism), XVIII, b 702–3, b 704; (Psychology), XX, b 77
——, George, priest (Magnetism), XV, *a b* 222, a 224, note
——, Johann Melchior, orientalist (Edrisi), VII, b 581
HARTMANN, Moritz, poet, XI, a b 446
——, O., antiquary (Winkelried), XXIV, b 645, a 646
HARTMANN VON AUE, poet, XI, b 446; (Germany), X, a b 464, b 468–9
Hartnell, W., engineer (Steam-Engine), XXII, a b 530, note
Hartog, Dirk, explorer (Australia), III, a 90
Hart's Island (New York), XVII, a 475
—— nut (Truffle), XXIII, b 629
HARTSHORN, spirits of, XI, b 446. See Ammonia
Hartt, Christian Frederick, geologist (Brazil), IV, a 201
Hartz, mountains. See HARZ
Hartzenbusch, Juan Eugenio, poet (Calderon), IV, b 585, a 587; (Spain), XXII, b 375
HARUSPICES, soothsayer, XI, b 446–7; (Magic), XV, *b* 202; Etruscan (Augurs), III, a b 64
Harût, river (Afghânistân), I, a 206
HARVARD COLLEGE, XI, a b 447; (Cambridge, U. S.), IV, *b* 647; (Libraries), XIV, a 534, a 553; (Massachusetts), XV, b 620; (Observatory), XVII, b 735; (Schools), XXI, b 909; (Universities), XXIII, a 914, b 952, a b 955, *b* 960, *a b* 961, *a b* 962; *History of* (Quincy), XX, b 189
——, Mount (United States), XXIII, b 846
——, John, divine (Harvard College), XI, a 447
HARVEST BUG, XI, b 447; (Mite), XVI, a 552, a 553
—— feast, Hebrew (Passover), XVIII, a 349; (Pentateuch), a 522; (Tabernacles, Feast of), XXIII, a b 10
Harvesting Ants, II, a 84
—— flax (Agriculture), I, b 337–8; forage (Agriculture), b 336–7; grain crops (Agriculture), a 322–3; hops (Agriculture), b 338–9; root crops (Agriculture), b 324–5, a b 326, b 327; Opium, XVII, a 811, b 812
—— implements (Agriculture), I, b 286, b 287; (Patents), XVIII, b 877
Harvest-men, insects (Arachnida), II, b 239, b 244, a 245
—— -moon (Astronomy), II, a 698
—— -mouse, XVII, b 11
HARVEY, GABRIEL, author, XI, a 448; (Greene), b 146; (Nash, Thos.), XVII, b 242; (Spenser), XXII, a b 408
HARVEY, Sir George, painter, XI, a b 448
HARVEY, William, physician, XI, b 448–53
  attacks on Harvey's doctrine of the blood, a 451
  bibliography, b 452
  biography, b 448–9
  circulation, *Treatise on*, a 450–1
  generation on, b 451–2
  practice, a 452
  state of knowledge in his time, b 449–50
—— (Anatomy), I, b 710–11; (Embryology), VIII, a b 151; (Evolution), *a* b 652, b 653, a b 654; (Hunter, J.), XII, a b 406; (Longevity), XIV, a 869; (Malpighi), XV, b 340, a 341; (Medical Jurisprudence), a 793; (Nemesius), XVII, a 341; (Physiology), XIX, a b 14; (Vascular System), XXIV, a *b* 104; (Zoology), a 842, a 843, a 854, b 855
Harvey's Dairy Co., VI, a b 677
HARWICH, town, XI, a 453; (Fisheries), IX, *a* 223
HARZ or Hartz mountains XI, a 453–4; (Brunswick), IV, b 360, *a* 361; (Cave), V, a 232; (Germany), X, a 403, b 404; (Hanover), XI, b 398, *a* b 399; (Mining) (Ill.), XVI, b 470, a 476, a 477, b 478, b 479; (Saxony), XXI, *b* 375
—— -blower (Mining) (Ill.), XVI, a 482
—— -mining (Gold), X, a 666, a 667
HARZBURG, town, XI, a 454
Hasa, district (Arabia), II, a b 207, a 208, *b* 211, a 212, a 213, b 217, a b 218, a 219, a 222, *a* 227, *a* 228, *a* 229
Hasan. See Hassan
——, prince (Mohammedanism), XVI, a 608
HASAN AND HUSEIN, heroes, XI, a b 454
—— al Basri, theologian (Mohammedanism), XVI, b 614; (Tabarí), XXIII, a 6
—— ben 'Ali (Arabia), II, a 225, a 226; (Mohammedanism), XVI, b 589
—— ben Sabbah (Assassin), II, a 632; (Omar-Khayyan), XVII, a b 793
—— ben Sahl, prime minister (Mohammedanism), XVI, b 606
—— Capitan Pasha (Egypt), VII, *a* 659
—— Ibn-el-Garrah, pasha (Egypt), VII, *a* b 651
—— Mahdi or Imam (Assassin), II, b 632
—— Mir, poet (Hindustani Literature), XI, *b* 757, *a* 758
—— Uzun or the long (Persia), XVIII, a b 644
—— tower (Rabát), XX, b 198
Hasbâny, Nahr or river (Jordan), XIII, b 756–7
HASBEYA or Hasbeiya, town, XI, b 454–5
Hasbrouck House, museum (Newburg), XVII, b 384
Haschem ben Hakem (Merv), XVI, a 49
Hasdrubal son of Gisco, general (Scipio 2d), XXI, a b 488
HASDRUBAL, son of Hamilcar, XI, a b 455; (Hannibal), b 394, *a* 397; (Piacenza), XIX, b 72
HASDRUBAL, son-in-law of Hamilcar, XI, a 455; (Rome), XX, b 767, b 768; (Spain), XXII, *a* b 320
Hase, Karl August, theologian (Rationalism), XX, a b 303
Hasebroek, Johannes Pieter, essayist (Holland), XII, b 101
Hasenmatte, mountain (Soleure), XXII, b 263
Häser, Heinrich, physician (Pathology), XVIII, b 414; (Surgery), XXII, a b 709, a 710, a 712
Hashashins. See ASSASSINS
Hashimids, family (Mohammedanism), XVI, a 574
Hashimiya, city (Mohammedanism), XVI, a 600, a 601, a 602
Hasìna, revenue (Madagascar), XV, a 176
Hashish, drug (Assassin), II, a 632; (Bhang), III, b 542; (Drunkenness), VII, a b 416; (Egypt), a 616, a 630; (Hemp), XI, *a* 579. See Bhang, Ganga
Haslam refrigerator (Preserved Food), XIX, b 728

Haslar Hospital, XII, b 319; (Dockyards), VII, b 273
HASLINGDEN, town, XI, b 455
Hasmonæans, dynasty, II, a 624; (Herod), XI, a b 674; (Israel), XIII, b 431, a b 432, b 433, a 434, *a b* 435; (Maccabees), XV, a 132; (Messiah), XVI, b 59, a b 60
Hasop, queen of Egypt (Incense), XII, b 757
HASPE, town, XI, b 455
Hassan. See Hasan
HASSAN, district, XI, b 455–6
Hassan, Beni, tomb (Costume) (Ill.), VI, a 406
Hassan-dagh, range (Asia Minor), II, b 616; (Cappadocia), V, b 67
Hassan Pasha of Algiers (Cervantes), V, *a b* 304
Hasse, Faustina, singer, XI, *a* b 456
——, F. C., editor (Encyclopædia), VIII, b 185
HASSE, Johann Adolph, composer, XI, a b 456; (Mozart), XVII, b 15, b 16; (Music), a 100
Hasseky or Kasseky, title (Harem), XI, b 427, a 428
Hasselberg, B., physicist (Spectroscopy), XXII, *a* 389
HASSELQUIST, Frederick, naturalist, XI, b 456
HASSELT, town, XI, b 456; (Limburg), XIV, a 652
HASSENPFLUG, Hans Daniel Ludwig Friedrich, politician, XI, b 456–7; (Germany), X, a 456
Hassephardi. See MAIMONIDES
Hassler, Ferdinand R., engineer (Surveys), XXII, *b* 938, *a* 939; (Tables), XXIII, b 16; expedition of (Surveys), XXII, a b 940
Hasta pura, emblem (Sceptre), XXI, b 401
Hastati, troops (Army), II, *b* 492, note
Hastie engine (Hydromechanics) (Ill.), XII, a b 552
Hastigerina, order (Protozoa) (Ill.), XIX, a 870, a b 871
HASTINAPUR, city, XI, a 457; (N. W. Provinces), XVII, b 586, a 587
HASTINGS, town, XI, a b 457; (Cinque Ports), V, a 687; (Sussex), XXII, *a* 762, *a* 763; battle of. See Senlac
——, town (Nebraska), XVII, b 318
——, C. S., physicist (Telescope), XXIII, b 154–5, b 155 note; objectives of (Telescopic Work), XXIII, b 934
——, David de, lord of Abergavenny (Scotland), XXI, b 508
HASTINGS, Francis Rawdon, marquis of, governor, XI, a 461–2; (India), XII, b 841–5, a 848
HASTINGS, Warren, governor, XI, b 457–61
  - Bengal councillor, b 458
  - clerk of East India Company, b 457–8
  - governor-general, a 459
  - impeachment and its effects, b 460
  - Madras, a 458, b 459–60
  - Mahratta war, b 459
  - summary, a 461

—— (Burke), IV, a *b* 487, a 489; (Clive), VI, b 11, b 12; (Francis, Sir P.), IX, *a b* 614; (Ellenborough), VIII, a 136; (Impeachment), XII, *a* 756; (India), b 806, b 809, a 814, a b 841–3; (Mahrattas), XV, a 294; (Sheridan), XXI, a 836; (Verres), XXIV, b 189
——, William, lord (Shore), XXI, b 874
HAT, headgear, XI, b 462–4; (Costume), VI, *b* 401, *b* 402, a 403, a 418, *b* 419, *a b* 420, a b 421, a *b* 422; (Fibres), IX, b 116; (France), a 460; (Parsis), XVIII, a 331; (Straw), XXII, a b 622–3; Grecian (Costume), VI, b 401, b 402; removal of (Penn), XVIII, b 503, a 504; Roman (Costume), VI, a 404; Scarlet (Cardinal), V, b 87
Hatamoto, chiefs (Japan), XIII, b 588, *a* 589, b 592, a 593
Hatcheries, fish (Salmonidæ), XXI, a b 237
Hatchettine (Chemistry), V, b 482; (Mineralogy), XVI, b 447
Hatchettolite (Mineralogy), XVI, b 446
Hatchment, the (Heraldry) (Ill.), XI, b 635–6
HATFIELD or Bishop's Hatfield, town, XI, b 464
—— House, XI, b 464; (Hertford), XI, a 690
Hathaway, Anne, wife (Shakespeare), XXI, a 779, b 785, a 791, a 802
——, a cheat (Witchcraft), XXIV, a 655
Hathor or Hat-har, goddess. See ATHOR
Hathor and Davey engine (Steam-Engine), XXII, a 541
Hathorne, Daniel (Hawthorne), XI, b 479
——, Nathaniel, sailor (Hawthorne), XI, b 479
——, William, justice (Hawthorne), XI, b 479
HÁTHRAS, Hatra or Hatras, town, XI, b 464; (Aligarh), I, *b* 507; (Mesopotamia), XVI, a 53; (Persia), XVIII, a 615, a 616, a 618
Hátifi, poet (Persia), XVIII, b 669
Hatim, Zuhūruddīn, poet (Hindustani Literature), XI, a 757
Hatra. See ATRA
Hats, party (Sweden), XXII, a *b* 789
Hatshepu or Hatasu, queen (Egypt), VII, a 639, a 675, b 676, b 677
Hattá, town (Bálágát), III, a 225
Hattala, Martin, philologist (Slavs), XXII, a 163
Hatteras, capture of Fort, 1864 (United States), XXIII, b 823
Hatteria, genus (Reptiles) (Ill.), XX, a 450, note, a 457, b 460–1, b 462–3, b 466, a 467, a b 468, a 469, a 471, a 475, a 476, b 478, a 486
Hatti-Humaiun, firman of 1856 (Turkey), XXIII, b 692
Hattīn, Horns of, hills (Galilee), X, b 27
HATTINGEN, town, XI, b 464
Halli-Sherif of Gulhanè (Abdul-Medjid), I, b 35–6; (Turkey), XXIII, a 692
HATTO I., archbishop of Mainz, XI, b 464–5; (Abbot), I, a 28, b 29
Hatton, Sir Christopher, statesman (Dugdale), VII, a 446
——, Lady Elizabeth (Bacon), III, a 175, a 179; (Coke, E.), VI, b 109
——, Frank, explorer (Sabah), XXI, b 131 note, a b 132
—— Garden, street (London), XIV, b 830, a 862
HATVAN, town, XI, a 465
HATZFELD, town, XI, a 465
Hatzfeldt, Countess Sophie (Lassalle), XIV, a 321
Haubas, moon-god (Yemen), XXIV, a 778
Hauberks (Arms), II, *a b* 487
HAUCH, Johannes Carsten, poet, XI, a b 465; (Denmark), VII, a 81; (Norway), XVII, b 604
Hauerinina, sub-family (Protozoa) (Ill.), XIX, a b 869
Hauerite (Mineralogy), XVI, a 407
HAUFF, Wilhelm, novelist, b 465; (Germany), X, a 486
HAUG, Johannn Christoph Friedrich, epigrammatist, XI, b 465
HAUG, Martin, orientalist, XI, a 466; (Sanskrit), XXI, b 289 note
Hauge, Hans Nielsen, sectary, XI, a 466; (Norway), XVII, b 606
Haughs described (Scotland), XXI, a 547
Haughtonite (Granite), XI, a 44; (Mineralogy), XVI, b 384, b 430
Haugwitz, Christian H. K., statesman (Hardenberg), XI, *a* 423
Haukal, Ibn, traveller. See Ibn Haukal
Hau-Koin, tribe (Hottentots), XII, a 326
Hauksbee, Francis, philosopher (Capillary Action), V, *b* 50
Hauksbók (Scandinavian Languages), XXI, a 384
Haulbowline, Dockyard, VII, a 274, 275
Haulm defined (Botany), IV, b 85
Haunches of the arch (Bridges), IV, b 273
Haunted houses (Apparitions), II, a 181
HAUPT, Moritz, philologist, XI, a b 466; (Calpurnius), IV, *b* 630
HAUPTMANN, Moritz, composer, XI, b 466–7
Haupt- und Staatsactionen (Drama), VII, a 381
Haurân, district (Bashan), III, *a b* 354; (Syria), XXII, b 860, b 861, *a* 862; Roman houses in the (Architecture), II, a 369
Hauranitic Druses, people, VII, b 417
HAURANNE, DUVERGIER de abbé, VII, b 489; (Port Royal), XIX, a 548
Haurat-es-suk, town (Gerba), X, *b* 397
Hauréau, Barthélemy, historian (Scholasticism), XXI, *b* 438, *b* 439, a b 440, note, a *b* 441, *a* 442, a 444, *a* 445, a 448, *a* 449
Haurvatât, angel (Zoroaster), XXIV, b 861
"Haus" of Larvacea (Tunicata) (Ill.), XXIII, a b 653
Hausberg, mountains (Hesse Darmstadt), XI, a 697
Hausen, fish (Sturgeon), XXII, a b 644
HAUSER, Kaspar, XI, a 467
Haushofer, statistician (Population), XIX, b 527, b 528, a 529, *a* b 530, a b 531, b 532
Hausmannite (Manganese), XV, a 487; (Mineralogy) (Ill.), XVI, a 379, a 403
Hausrath, theologian (Galatians), X, a 19 note, a 20
Haussa, people (Dictionary), VII, b 167; (Houssa), XII, b 331; (Sokoto), XXII, a b 261; (Soudan), a 292
Hausschein. See ŒCOLAMPADIUS
Haustoria, organs (Fungus), IX, b 727; (Parasitism), XVIII, a b 269, a 270
Hautboy, instrument (Oboe), XVII, b 724, a 726
Hautefeuille, chemist (Chemistry), V, b 446, b 450, b 452, b 454, a 465, a 471; and Chappuis, chemists (Ozone), XVIII, b 117
Haute-Joux, mountain (France), IX, b 445
Haute Montagne (Jura), XIII, b 791
Hauteville, family (Italy), XIII, b 481, a 485; (Naples), XVII, a b 198
——, Julia de, princess (Sciacca), XXI, b 486
Haut Pont, village (St. Omer), XXI, b 197
HAUY, René Just, mineralogist, XI, b 467; (Æpinus), I, a 166; (Crystallography), VI, b 595–6, *a b* 597; (Electricity), VIII, b 8–9; (Geoffroy Saint-Hilaire), X, *b* 155; (Mineralogy), XVI, b 364, b 377; (Mitscherlich), a 555
——, Valentin, teacher (Blind), III, a 718; (Typography), XXIII, a 741
Hauyne (Mineralogy) (Ill.), XVI, a 430
Hávamál (Edda), VII, b 564
HAVANA, city of, Cuba (Plan), XI, b 467–8; (Cuba), VI, a 600, a b 601, *a b* 602, *a* 603; (Newspapers), XVII, b 447; (Yellow-Fever), XXIV, *b* 772; cigars (Tobacco), XXIII, b 454
Have, La-, river (Nova Scotia), XVII, b 616
Havel, river (Germany), X, b 403, a 404
HAVELBERG, town, XI, a b 469
HAVELOCK, Sir Henry, general, XI, b 469–70; (Cawnpur), V, b 242; (Lawrence, H. M.), XIV, b 372; (Outram), XVIII, b 79–80; (Sunderland), XXII, b 691

Havelok the Dane (English Literature), VIII, b 366; (Madden), XV, a b 177; (Romance), XX, a b 674
Havemann, Wilhelm, historian (John, Don), XIII, a 729
HAVERCAMP, Sigebert, philologist, XI, a 470
Haverford College, Pennsylvania (Quakers in U. S.), XX, b 893; (Universities), XXIII, 957
HAVERFORDWEST, town, XI, a b 470; (Pembroke), XVIII, b 492, a 493
HAVERHILL, town, Massachusetts, XI, b 470
——, town (Suffolk), XXII, b 654
Haversian canals (Mammalia), XV, b 352; diseases of (Surgery), XXII, b 719; system (Anatomy), I, a b 749, a b 750, a b 751
Haversine, mathematical term (Tables), XXIII, b 13
Haverstraw bay (Hudson River), XII, b 345
Havik Bráhmans (Kánara), XIII, a 844
Havilland, John, architect (Haydon), XI, b 483
HAVRE, Le, or Havre de Grace, town (Plan), XI, b 470-1; (Seine Inférieure), XXI, a b 657
Havrez, chemist (Dyeing), VII, a 497
Hawaiian Board of Missions (Polynesia), XIX, a 441
HAWAIIAN ISLANDS (Plate XIII), XI, b 471-6
  agriculture and commerce, a 473
  history, b 471-2
  inhabitants and customs, a 472-3
  literature concerning, a 476
  physical and natural history, b 473-4
  political features, a 474
  separate islands, b 474-6

—— (Cook), VI, b 294; (Ichthyology), XII, a 713; (Knighthood), XIV, a 123; (Pacific Ocean), XVIII, a b 132; (Polynesia), XIX, a 438, a 439; volcanoes of (Geology), X, b 217, a b 220, b 224; (Vancouver), XXIV, b 63, a 64
Hawaiians, race, XI, a 472-3; (Dictionaries), VII, b 167; (Funeral Rites), IX, b 724; (Taboo), XXIII, a b 20
Haward or Hayward, John, manufacturer(Pianoforte), XIX, b 78
HAWARDEN, town, XI, a 476
Hawash, river (Abyssinia), I, a 62; (Adal), a 124; (Africa), a 229
Hawázin, tribes (Mohammedanism), XVI, b 582, b 583
HAWES, Stephen, poet, XI, a b 476; (English Literature), VIII, b 370
HAWES, William, musician, XI, b 476
HAWFINCH, bird, XI, b 476
HAWICK, town, XI, b 476-7
HAWK, bird (Ill.), XI, a b 477; (Birds), III, a 617, a 618, a 629, b 663; (Falconry), IX, b 7-12; (Mimicry), XVI, b 353, a 354
HAWKE, Edward Hawke, baron, admiral, XI, b 477-8
Hawkesbury, Lord, cabinet officer (England), VIII, 331; (Fox, C. J.), IX, b 440
HAWKESWORTH, John, author, XI, a 478
Hawking (Falconry), IX, b 7, a 9
HAWKINS, Sir John, admiral, XI, a b 478; (Chatham), V, b 380; (Drake), VII, a 337, a 338; (Geography), X, b 165; (Pearl), XVIII, a 459; (Plymouth), XIX, b 249; (Potato), b 611
HAWKINS, Sir John, musician, XI, b 478; (Palestrina), XVIII, b 183, b 184
——, John Isaac, civil engineer (Pianoforte), XIX, b 83, a 84
——, Sir Richard, sailor (Geography), X, b 165
Hawk-moth (Butterflies), IV, a 530; (Humming-Bird), XII, a 373
Hawk-Owl, bird, XVIII, a 93
Hawk's-beak moulding (Architecture), II, a b 358
Hawksbee, Francis, physicist (Electricity), VIII, b 5; (Magnetism), XV, a 238
Hawksbill Turtle (Tortoise), XXIII, a b 488
Hawkshaw, Sir John, engineer (Canal), IV, a 696, a 698; (Harbors and Docks), XI, a 418, b 119
Hawksmoor, Nicholas, architect (Architecture), II, a 388
Hawk-Sparrow (Birds) (Ill.), III, b 618-9
Hawksley's stair treads (Building), IV, b 444
HAWKWOOD, Sir John, condottiere, XI, b 478-9; (Condottieri), VI, b 227
Haworth, village (Bronte), IV, b 328, b 329
Haworthias, plants (Horticulture), XII, a 271
Hawse clearing (Seamanship), XXI, b 626; defined (Seamanship), b 633
Hawser (Rope), XX, a 866, a 867; (Seamanship), XXI, b 629; bending (Seamanship), b 618; warps and (Anchor), II, b 5
HAWTHORN, plant, XI, a b 479; (Botany), IV, b 86, a 138; (India), XII, b 778
Hawthornden castle (Edinburgh), VII, b 571
HAWTHORNE, Nathaniel, novelist, XI, b 479-81; (American Literature), I, a 630, a b 637, b 638; (Longfellow), XIV, a 871, a b 872; (Pierce), XIX, b 90; (Salem), XXI, a 221; (Tieck), XXIII, a 408; (Very) XXIV, a 878
Haxo, François Nicolas Benoît, baron, general (Fortification), IX, b 409, a 410
HAXTHAUSEN, August Franz Ludwig Maria von, jurist, XI, a 481
Hay, Sir Gilbert, poet (Scotland), XXI, b 566
Hay, James, earl of Carlisle, solecism (Barbadoes), III, a 310; (Peerage), XVIII, a b 477
——, Sir John, manufacturer (Scotland), XXI, b 558
——, William, M. P. (Poor Laws), XIX, a 484
Hay-crop (United States), XXIII, a 878; tea (Veterinary Science), XXIV, b 217
Hayden, Francis Vandeveer, geologist, *b.* 1829, *d.* 1887 (Geology), X, a 319, b 328, a 330, a 333; (Geysers), a 499; (Surveys), XXII, a b 936, a 937, a 938; (Yellowstone Park), XXIV, a 775
——, Joel, inventor (Button), IV, a 533
——, Michael, musician (Weber), XXIV, a b 494
——, Mrs., a London charlatan (Spiritualism), XXII, a b 420
—— Peak (Wyoming), XXIV, b 748, note
Haydenite (Mineralogy) (Ill.), XVI, b 439
Haydn, Johann, singer, XI, a 483
——, John Michael, composer, XI, a 483
HAYDN, Joseph, composer, XI, a 481-3; (Bach, Karl), III, b 169; (Beethoven), a 436; (Music), XVII, b 102, b 103, a 107; (Pleyel), XIX, b 235; (Porpora), a 537; his canzonets (Hunter), XII, a 402 note
HAYDON, Benjamin Robert, painter, XI, a 483-4; (Canova), V, b 24
Haye, La, town. See HAGUE
——, jurist. See CORMENIN
Hayel, town (Arabia), II, b 221
Hayes, Isaac Israel, explorer, *b.* 1832, *d.* 1881 (Polar Regions), XIX, a 335; (Rabies), XX, a 206
——, Rutherford Burchard, president (Florida), IX, a 299; (Republican Party), XX, b 907; (United States), XXIII, a 833, b 836
Hay Fell flags (Geology), X, b 298
HAY FEVER, XI, a b 484
Hay-jacks, birds (Wren), XXIV, b 724
HAYLEY, William, poet, XI, b 484; (Blake), III, a 700; (Pitt), XIX, b 143; (Romney), XX, a b 862
Hayling Island (Hampshire), XI, b 384, a 385; (Oyster), XVIII, a 112
Haymakers, machines (Agriculture), I, b 287
Haymaking (Agriculture), I, b 336-7
Haymarket (London), XIV, b 837; theatre (Colman), VI, a 135
Haymo of Halberstadt, bishop (Church History), V, b 668
Haynau, Julius Jacob von general, *b.* 1786, *d.* 1853 (Austria), III, a 120, (Hungary), XII, b 387, a 383
Hayne, Paul Hamilton, poet, *b.* 1831, *d.* 1836 (Timrod), XXIII, a 942
HAYNE, Robert Young, senator, XI, b 484-5; (United States), XXIII, a 813; (Webster), XXIV, a b 499
Hayraddin, corsair. See BARBAROSSA
HAYTER, Sir George, painter, XI, a 485
HAYTI, island (Plate XIII), XI, a 485-7
  climate, industries and people, b 486
  Dominican republic, b 487
  history, b 486-7
  natural history, a b 486
  outlines of, a b 485
  physical features, b 485
  republic of, b 487

—— (America), I, a 621, a 627; (Boyer, Jean Pierre), IV, a 166; (Columbus), VI, a 155; (Negro), XVII, b 326 note, a 329; (West Indies), XXIV, a b 538, b 539. See Hispaniola, SANTO DOMINGO
Hayton of Armenia, traveller (Geography), X, a 160; (Mandeville), XV, a b 481, a b 482; (Polo), XIX, a 422
Haytorite (Mineralogy) (Ill.), XVI, b 426
Hayward, apothecary (Rhubarb), XX, a 545
Hayward, George, traveller (Gilgit), X, a 533, a b 534
HAYWARD, Sir John, historian, XI, b 487-8
Hayward mine (California), IV, a 622
Hayyad Hahazakah (Maimonides), XV, a 298
Hayyúj, grammarian (Jonah, Rabbi), XIII, a 748
Hazael, king (Israel), XIII, b 416, a 418
HAZÁRA, district, XI, a b 488; (Punjab), XX, a 115, a 118
——, region and people (Afghânistân), I, a b 204, b 205, a 206, a 208, a 209, a 210, a b 211, b 216, b 217, a b 218, a 219; (Mongols), XVI, b 776
Hazarajat, region (Kandahar), XIII, a 845
HAZARD, game, XI, b 488
HAZÁRIBÁGH, district, XI, b 488-9; town, a 489; (Chutiá Nágpur), V, a 671
Hazár Masjid, mountain (Persia), XVIII, b 628
Hazarmaveth, district (Arabia), II, b 207
HAZEBROUCK, town, XI, a 489
HAZEL, plant, XI, b 489-90; (Botany) (Ill.), IV, b 91, a 108, b 110, b 113, a 122, b 134, b 137; (Horticulture), XII, b 282; (Italy), XIII, b 460, note; (Oil), XVII, a 765
Hazen, William B., general, *b.* 1830, *d.* 1887 (Signal Service), XXII, a 903
Hazing, American (Universities), XXIII, a 962
HAZLETON, Pennsylvania, XI, b 490
HAZLITT, William, critic, XI, b 490-2; (Northcote), XVII, b 576; (Tucker), XXIII, a 641
Hazor, kingdom (Canaanites), IV, a b 674; town (Galilee), X, b 26; (Joshua), XIII, a 763

Hazrat Afak, tomb of (Kashgar), XIV, b 9
— Imam (Afghânistân), I, b 217
Hea, deity (Zodiac), XXIV, a 831 note
—, kingdom (China), V, b 561, a 562
Heabani, winged bull (Zodiac), XXIV, *a* 831
Head (Anatomy), I, a 721-2, b 732, b 733-5; (Ape), II, b 137; (Crustacea), VI, b 559, a b 560, b 564; (Dragon-Fly), VII, b 333-4; (Hymenoptera), XII, b 606; (Manatee) (Ill.), XV, b 463; (Mollusca), XVI, a 658, b 689; (Myriapoda) (Ill.), XVII, b 124, b 126; anatomical protection of human (Surgery), XXII, a 724; of antelope (Mammalia) (Ill.), XV, b 437; of centurio (Mammalia) (Ill.), a 420; deer (Mammalia) (Ill.), a 437; lepidoptera (Butterflies and Moths), IV, a b 527; nautilus (Mollusca), XVI, b 698, b 700
— in Hydromechanics, XII, b 482; constant, b 492-3, b 496-9; varying, a 499; -race, a b 549
— on coins (Numismatics), XVII, b 645
HEAD, Sir Edmund Walker, critic, XI, a 492
HEAD, Sir Francis Bond, traveller, XI, a 492
HEAD, Sir George, traveller, XI, a b 492
— ache, sick (Neuralgia), XVII, a 373
— dress (Costume) (Ill.), VI, *b* 412, *a b* 413, a b 414, a 415, a b 416, *a b* 417, a b 419, *a b* 420, *a b* 421, *a* b 422
— -light oil (Petroleum), XVIII, a 891
Headstock (Lathe) (Ill.), XIV, a 324
Head Voice, XXIV, b 296
Healfdeane, viking (Northumberland), XVII, a b 584
Healing, processes of (Pathology) (Ill.), XVIII, b 368-73. See Therapeutics
— *Question*, political (Vane), XXIV, b 72
Health (Baths), III, a 380-2; (Dietetics), VII, a 174-81; (Diving), b 260; (Egypt), b 609, notes; (Hygiene), XII, a 609-3; (Navy), XVII, a b 306. See MEDICINE and PATHOLOGY
—, *Precepts About* (Plutarch), XIX, b 245
HEALTH, PUBLIC, XX, b 101-3; (Atmosphere), III, b 32-3; (Cairo), IV, b 573; (London), XIV, b 836-7; (New York), XVII, a 476; legislation (Medicine), XV, a 807-9
Health-resorts. See Sanitarium
Heang Yu, rebel chief (China), V, b 559
Heaou-wăn Wang, emperor (China), V, a 559
Heard Island (Polar Regions), XIX, b 343; (Indian Ocean), XII, b 860
Hearing, sense of (Amphibia), I, a 674; (Bee), III, b 421; (Ear), VII, a 511-4; (Music), XVII, a 109-10; (Nemertines), a 339; (Radiation), XX, a 220; (Weber's Law), XXIV, *b* 497
—, organ of (Anatomy), I, a 783-6; (Birds), III, a 628; (Crustacea), VI, a 564; (Ear), VII, a 511-4; (Ichthyology), XII, a 690-1; (Mammalia), XV, a b 370; (Reptiles), XX, a b 474
Hearing, On the Right Way of (Plutarch), XIX, a 245
Hearn, William Edward, sociologist (England), VIII, b 235; (Political Economy), XIX, a 413
HEARNE, Samuel, Arctic explorer, XI, b 492; (Geography), X, a 170; (Polar Regions), XIX, a 330
HEARNE, Thomas, antiquary, XI, b 492-3; (Robert), XX, a b 612
Hearsay-Evidence, VIII, a b 649
Hearson's pneumatic machine (Gas-Lighting), X, a b 92
Heart (Amphibia) (Ill.), I, a 669-72; (Arachnida), II, a 239, a 244, b 246, *a* 250, b 257, a 258; (Birds), III, b 629; (Crocodile), VI, a 524; (Crustacea) (Ill.), a b 565; (Cuttle-Fish) (Ill.), b 650; (Echinodermata), VII, a 546, a 548; (Hibernation), XI, b 703; (Histology), XII, a *b* 10; (Horse), a 184; (Ichthyology) (Ill.), b 696-7; (Insects), XIII, a 152; (Mammalia), XV, a 367; (Mollusca) (Ill.), XVI, a 657, b 658, b 699, b 702, a 703, b 710; (Myriapoda), XVII, b 123; (Reptiles), XX, a b 472; (Tunicata), XXIII, a b 651, a 654; action of nerves on (Physiology) (Ill.), XIX, a b 34; branchial (Mollusca), XVI, a 704; development of (Anatomy), I, *b* 797; (Vertebrata), XXIV, b 197; valves of (Mammalia), XV, a 367. See Cardiac
— cycle (Vascular System), XXIV, b 108-11
HEART, diseases of the, XI, a 493-5; (Dropsy), VII, b 407-8; (Hypertrophy), XII, a b 632; (Iron, Therapeutic Uses of), XIII, a 370; (Rheumatism), XX, b 531; rheumatic fever (Pathology), XVIII, b 406, a b 407; (Vascular System), XXIV, a 111, a 114
—, human (Anatomy), I, b 702, b 703, b 704, a 705, b 706, b 707, a 752, b 789-92; (Vascular System) (Ill.), XXIV, a 106-12; affected by Digitalis, VII, b 207-8; motions of (Harvey), XI, b 449-50; nerves of (Anatomy), I, a 776; (Vascular System), XXIV, b 111-2; size and weight of (Vascular System), b 107-8; work of (Nutrition), XVII, a 705; (Vascular System), XXIV, a b 105-6, b 115
—, lake (Yellowstone Park), XXIV, b 773, b 774
—, river (Yellowstone Park), XXIV, b 773
— of Mid-Lothian, jail (Edinburgh), VII, a 573
Hearth (Building), IV, a 417; (Fire), IX, *b* 200-1, notes; (Iron), XIII, b 305, a 306, a 307; Roman (Penates), XVIII, b 499; goddess of (Hestia), XI, b 698; tax (Finance), IX, a b 158
Hearting, forces acting in (Harbors and Docks), XI, a b 412
Heart-rot, disease (Larch), XIV, a 312
Heart's-ease, plant (Horticulture), XII, a b 266; (Violet), XXIV, a 260
HEAT (Ill.), XI, a 495-526
- air thermometers, b 502
- calorimetry, a 496-8
- conduction, a 515-9, a 523
- diffusion of, b 518-9, a b 523
- dynamical calorimetry, a 497
- electric diffusion, b 523
- expansion in thermometers, a b 503
- graduation of thermometers, b 503, b 509-12
- harmonic analysis, a b 526
- high-pressure steam thermometer (Ill.), b 506-8
- Joule's dynamical experiments, b 497-8
- latent, a 495-6
- liquid thermometers, b 500
- mathematical appendix, b 523-6
- mercury thermometers, a b 501, a 502, a b 503
- numerical thermometry, b 504-5
- Pécelet, Angström and Clement's experiments, a 516-7
- properties of matter in liquid thermometers, a 504
- radiation, a 515, a 523
- sense of, a 495
- specific heats and thermal capacities, b 514
- table of diffusivities, a b 523
  - of expansions, 520, 521
  - of steam pressures, 522
  - of thermal conductivities, a 523
  - of water density, a 522
- temperature conductivity, a 518
- thermodynamic definition of temperature, a 505, b 508-9
- thermometry, b 498-515
- thermoscopes, b 499 *sq.*
- Thompson's absolute scale thermometer (Ill.), b 512-14
- transference of heat, a 515-26
- underground temperatures, a 517
- water-steam thermometer (Ill.), a 506-7

—. See Temperature, THERMOMETRY, THERMODYNAMICS
—, animal (Hunter, J.), XII, b 406; (Hydropathy), b 576; (Sleep), XXII, a 166; (Nutrition), XVII, b 704-5
— conduction (Metals), XVI, b 72; (Ohm), XVII, b 759; in crystals (Mineralogy) (Ill.), XVI, a b 392
—, conversion into energy of (Mechanics), XV, a (Thermodynamics), 784; XXIII, *a* 304
—, development of (Magnetism), XV, a b 275; in acid reactions (Chemistry), V, a b 422-3; in blast furnaces (Iron), XIII, b 319-23, b 342-3; in circuit (Electricity), VIII, b 51, a 85; at electrodes (Electricity), a 85-6; by friction (Mechanics), XV, b 777
—, Diffusion of, VII, a 189-90; in gases (Atom), III, b 36, a b 37
— (Disinfectants), VII, b 224-5
Heat-Distribution on the Surface of the Globe, (Meteorology), XVI, a 119
—, dynamic theory of. See THERMODYNAMICS
—, effect on Barometer, III, a 331; on crops (Famines), IX, b 23-4; on crystals (Mineralogy), XVI, a b 390, a 393; of Electricity, VIII, b 51-6; on magnetism, XV, b 273-4; on plants (Insectivorous Plants), XIII, b 141; (Physiology), XIX, a b 63, b 64-5, b 69-70; on Wines, XXIV, a 642
— with electrolytes (Electricity), VIII, b 49-50, b 53-4
—, energy of (Mechanics), XV, b 783-4
— expansion of gases (Chemistry), V, b 405-6, a 407
— forcing (Horticulture), XII, a 253
— investigation (Forbes, J. D.), IX, a 344; (Fourier, J. B. J.), a b 433; (Energy), VIII, b 188-90; (Siemens), XXII, b 42-3
—, latent (Black), III, a b 690; (Evaporation), VIII, *b* 641; (Metals), XVI, a b 72; of Steam, XXII, a 503
—, limits of light (Biology), III, b 588-91, b 595-6
—, mechanical equivalent of (Energy), VIII, b 189-90; (Mechanics), XV, b 777, a 784
— of Meteors, XVI, b 117
—, nerve production of (Physiology), XIX, a 30; as nerve stimulant (Physiology), b 27-8
—, Newton's theory of (Light), XIV, b 583
—, radiant (Radiation), XX, *a* b 220
—, rejected (Steam-Engine), XXII, a b 512
—, sensation of (Touch), XXIII, b 512-3

Heat, specific (Black), III, b 690; (Iron), XIII, b 234-5; (Molecule), XVI, a b 636; (Regnault), XX, a 360; atomic (Chemistry), V, a b 407-8; of a fluid (Thermodynamics), XXIII, a 307
——, solar (Nebular Theory), XVII, a b 320; stellar (Sun), XXII, b 684-5
——, subterranean (Geology), X, b 199-202; hypogene effects of (Geology), b 230-2; volcanic (Geology), a b 225-6
—— supplied (Steam-Engine), XXII, a b 512
—— supply in steam formation (Steam-Engine), XXII, a b 503
——, theories of work (Steam-Engine), XXII, a *b* 496-502. See THERMODYNAMICS.
—— transfers in cylinder (Steam-Engine), XXII, a b 513
—— unit, standard (Chemistry), V, a 411, note
—— waste (Mechanics), XV, b 784; in cylinder (Steam-Engine), XXII, b 507, b 513-4; in furnace (Steam-Engine), a 517; in gas-engines (Steam-Engine), b 553; utilization of (Iron), XIII, a b 340
Heated air, rock changes in (Geology), X, b 235
—— water, rock changes from (Geology), X, b 233-4
HEAT-ENGINES (Ill.), XXII, a 490-564; theory of, a *b* 496-502; (Thermodynamics), XXIII, a 303-8
HEATH, plant (Ill.), XI, b 526-7; (Africa), I, b 231; (Botany) (Ill,), IV, a b 115, b 119, b 121, b 122; (Horticulture), XII, a 272; (Lincoln), XIV, a 660, a *b* 661; (New South Wales), XVII, a 420
——, D. D., biographer (Bacon), III, a 179 note, a 188
HEATHCOAT, John, inventor, XI, a b 527; (Lace), XIV, b, 185; (Tiverton), XXIII, b 448
Heather, plant. See HEATH
Heatheryburn Cave, V, b 234
Heathfield, parish (Sussex), XXII, a 761, b 762
Heath-sheep (Agriculture) (Ill.), I, b 348-9
Heath's process for steel (Iron), XIII, a 352, a 353; (Patents), XVIII, a 360
HEATING, XI, b 527-9; (Hospital), XII, b 318; (Hygiene), a 602; (Libraries), XIV, a 537; apparatus (Horticulture) (Ill.), XII, b 232-6; in Roman Baths, III, a 376. See VENTILATION
—— surface, furnace (Steam-Engine), XXII, *b* 517
Heaton, Ralph, inventor (Button), IV, a 532
—— process, steel-making (Iron), XIII, a b 344, a 355
Heat-rays (Melloni), XV, a b 849
Heat-stroke (Pathology), XVIII, a b 403; (Sunstroke), XXII, a 700
Heautefeuille, Jean, inventor (Steam-Engine), XXII, b 491
Heave of fault (Geology), X, b 268-9
Heaven (Mythology), XVII, a 156, *b* 161, b 163; (Paradise), XVIII, b 240; (Zoroaster), XXIV, a 862. See Elysium, ESCHATOLOGY, Paradise
"Heaving to" (Seamanship), XXI, b 630
Heavy glass (Magnetism), XV, a b 264
"Heavy or dead oils" (Gas and Gas Lighting), X, a 91; (Paraffin), XVIII, a 244, b 246, a 247; (Petroleum), a b 732, *b* 891
HEBBEL, Friedrich, dramatist, XI, b 529-30; (Germany), X, b 487
HEBE, goddess, XI, a 530
HEBER, Reginald, bishop, XI, a b 530; (Hymns), XII, a 627, b 629, a 630; (Taylor), XXIII, a b 101
HEBERDEN, William, physician, XI, b 530; (Medicine), XV, b 824
HÉBERT, Jacques René, revolutionist, XI, b 530; (Danton), VI, b 719
Hebertists, party (France), IX, a b 534; (Robespierre), XX, a b 619-20
Hebon, god (Dionysus), VII, b 217
Hebrew Agrarian Laws, I, *b* 256; Allegory, a 512; Alphabet, 528, *a* 534, a b 535; *Amadis of Gaul* (Romance), XX, b 670; antiquities (Temple), XXIII, a 182
—— *Bible*, III, a 548-54 a 558, a b 560; (Ecclesiastes), VII, a b 539-42; Concordance, VI, a b 214; first printed (Typography), XXIII, a 740; MSS. (Kennicott), XIV, b 37-8
—— Calendar, IV, a 601-2, b 604; Concubinage, VI, a 217; coins (Numismatics), XVII, b 667-8; Cryptography, VI, a 593; Embroidery, VIII, a b 148; Genealogies, X, a b 128; Harp, XI, a 437
—— Hymns, XII, b 612-3; Inscriptions, XIII, a b 123
HEBREW LANGUAGE AND LITERATURE, XI, a 531-7
  cultivation of the dead language, b 535-7
  decadence, a 535
  derivation of Hebrew race, a b 531
  development of the literature, a 534; of the tongue, b 533
  extent and history of Hebrew, a 533
  helps to study of, b 537
  modern revival of studies in, a b 536
  philological relations of language, a 532

—— (Buxtorf), IV, a b 535, a 536; (Cappel, L.), V, a b 69; Dictionaries, VII, a 164; (Europe), VIII, b 615; (Gesenius), X, a b 495; (Kimhi), XIV, a b 80; (Maimonides), XV, a b 298; (Michaelis), XVI, a-b 236; (Pellicanus), XVIII, b 488; (Semitic Languages), XXI, a b 673, *a* b 674, note, *a b* 675, *a b* 676-8, *a* b 679; decay of (Psalms), XX, a 36; etymologies (Philo), XVIII, b 774; study of (Reuchlin), XX, a b 504, a 505
—— historians, XI, b 534, a 535; (Bible), III, a 550-1; (Kings), XIV, a 85-6
—— legislation, early (Tithes), XXIII, a 438
—— literature, early (Israel), XIII, a b 418; lost (Chronicles), V, b 614-5; mediæval (Israel), XIII, a 439; structure of (Bible), III, b 551. See BIBLE, MIDRASH, MISHNAH, TALMUD
—— marriage law (Ruth), XXI, a 120; Metal-work, XVI, a 79; monarchy (Israel), XIII, b 413-4, b 415-6; (Messiah), XVI, b 58-59; (Moab), a 558, a 559; monotheism (Pessimism), XVIII, b 699
—— *Names, Lexicon of* (Philo), XVIII, b 777
—— patriotism (Prophet), XIX, b 837, a 838; philosophy (Job), XIII, a 710; Poetry, XIX, b 281-2; (Lamentations), XIV, b 241; (Lowth), XV, a b 32; (Rashi), XX, b 297-8; printing (Bible), III, a b 560; (Typography), XXIII, a 740
—— prophecy (Prophet), XIX, b 836, a 837-44; system of Weights and Measures, XXIV, b 512; worship (Baal), III, a b 152; (Incense), XII, a 758, a 760; (Sacrifice), XXI, a *b* 141, *a* 142, *a* 145, a *b* 146
Hebrews, people (Hebrew Language and Literature), XI, a b 531; (Image Worship), XII, b 749-50; (Israel), XIII, a 406-41; (Moab), XVI, a 557, a 558
HEBREWS, *Epistle to*, XI, a 538-42
  diaspora, condition of, b 540
  external traditions of authorship, a 538-9
  internal evidence of authorship, b 539
  literature, b 541-2
  locality of recipients, a b 541

—— (Bible), III, a 555; (Priest), XIX, a 749; *Commentary on* (Bleek), III, a 716
——, *Gospel of the* (Apocrypha), II, b 161; (Gospels), X, a 718, b 720, *a* 726, b 727 note, a 748
HEBRIDES, islands, XI, a b 542; (Norway), XVII, b 602-3; (Scotland), XXI, a 543, b 544, a 545, b 549-50; Outer (Cod), VI, a 95; (Inverness), XIII, a 205; cession to Norway (Scotland), XXI, a 504; retrocession of (Scotland), b 507-8, b 514
Hebrides, Journey to the (Johnson, S.), XIII, a b 738
HEBRON, city, XI, b 542-3; (David), VI, b 738; (Idumea), XII, *a* 738; (Israel), XIII, a 411, b 414; (Palestine), XVIII, a b 177, a 179, b 180, b 181
——, Mount, (Palestine), XVIII, a 177
Hebrus, river (Thrace), XXIII, a 339
HECATÆUS of Abdera, XI, a 543
HECATÆUS of Miletus, historian, XI, a 543; (Genealogy), X, b 128 note; (Greece), XI, a 126; (Map), XV, b 523; (Phœnix), XVIII, a 824, note
Hectare, land-measure (Acre), I, a 112; (Weights and Measures), XXIV, b 517
HECATE, goddess, XI, b 543; (Byzantium), IV, b 546-7; (Garlic), X, b 73; (Magic), XV, *a* 205
Hecato or Hecaton of Rhodes, philosopher (Stoics), XXII, a b 600, note
Hecker, Justus Friedrich Karl, physician (Sweating Sickness), XXII, b 774
Heckling (Linen Manufacture) (Ill.), XIV, a 671-2; (Rope), XX, b 866
HECKMONDWYKE, town, XI, b 543-4
Hecla, volcano (Iceland), XII, b 651, a b 652
Hecteus, measure (Weights and Measures), XXIV, *a* 513
Hectic condition (Surgery), XXII, b 720
Hectocotylization (Cuttle-Fish), VI, b 652; (Mollusca) (Ill.), XVI, b 692, a 693, a b 695, b 700
HECTOR, hero, XI, a 544; obsequies of (Barrows), III, b 343
——, Chian king (Scio), XXI, b 487
——, James, geologist (New Zealand), XVII, b 480, a 481, b 482
HÉCUBA, queen, XI, a 544
Hecuba, tragedy (Euripides), VIII, b 592-3; (Porson), XIX, a *b* 539
HEDA, Willem Claasz, painter, XI, a 544; (Heem), a 545
Heddle or heald, implement (Weaving), XXIV, a *b* 490-1, *a* 495, *b* 493
Hedenström, explorer (Polar Regions), XIX, a 331
Hedera, genus (Ivy) (Ill.), XIII, b 535-7
Hederic acid (Ivy), XIII, a 537
Hedge (Agriculture), I, b 275-6; (Horticulture), XII, a 223; (Labyrinth), XIV, b 181; -cutter (Horticulture) (Ill.), XII, b 239; plants for (Arboriculture), II, b 279; (Hawthorn), XI, a 479; (Holly), XII, b 105; (Hornbeam), *a* 172
HEDGEHOG (Ill.), XI, b 544-5; (Hibernation), a 704; (Mammalia), XV, a 357, b 406-7, b 409
——, Sea-. See GLOBE FISH
—— -Cactus, IV, b 555-6
Hedge-Sparrow, XXII, a 383; (Cuckoo), VI, a b 606, a 607
Hedging (Betting), III, b 534
Hedjaz, district. See HEJAZ
Hedon, town (York), XXIV, a 786, a 787

Hedonism (Ethics), VIII, a b 516; (Psychology), XX, b 47, a b 48, b 51, b 56, b 71
Hedroitz, A. E., engineer (Transcaspian), XXIII, a b 544, note
Hedwig, Johann, physician (Botany), IV, b 72
Hedymeles, bird (Grosbeak), XI, b 186
Hedyotis, genus (Madder), XV, b 177
Hedysarum or Desmodium gyrans, plant (Botany) (Ill.), IV, a b 101, *b* 136, b 137
Heeling, snips, effect of (Magnetism), XV, a b 253
Heelu, Jan van, poet (Holland), XII, a 94
Heem, Cornelius de, painter, XI, b 545
——, David de, painter, XI, b 545
HEEM, Jan Davidsz van or Johannes de, painter, XI, a b 545
Heemraaden, council (Cape Colony), V, a 43
Heemskerck, Jacob von, explorer (Polar Regions), XIX, *a* 329
HEEMSKERK, Johan van, poet, XI, b 545; (Holland), XII, a 99; (Pastoral), XVIII, a 352
HEEMSKERK, Martin Jacobsz, painter, XI, b 545-6
Heen-Fung, Tsing, emperor (China), V, a b 566, a 567
Heen-yang, city (China), V, a 559
Heer, Oswald, botanist (Geology), X, a b 322, *a* 323
Heerbann, right of (Dithmarschen), VII, b 252, note
HEEREN, Arnold Hermann Ludwig, historian, XI, a b 546
Heermann, Johann, poet (Hymns), XII, b 621
Hefele, Karl Joseph von, bishop, *b.* 1809, *d.* 1889 (Church History), V, b 669, a 670; (Council), VI, a 454, a 455; (Nestorius), XVII, b 365; (Old Catholic), b 775, a 776
HEGEL, George Wilhelm Friedrich, metaphysician, b 546-54
  Berlin life, b 549-50
  Heidelberg professor, b 549
  history, philosophy of, a 554
  Jena lecturer, a b 548
  journalist and schoolmaster, b 548-9
  last years, b 550-1
  logic, a b 552
  mind philosophy, b 553
  natur-philosophie, a 553
  phenomenology, a 551-2
  philosophy of, a 551-4
  posthumous influence, b 554
  student life, b 546
  tutorship days, a b 547
—— (Æsthetics), I, a 192, a b 196; (Alchemy), 409, a 410; (Beneke), III, b 483; (Boehme), a 742; (Category), V, *a* 195, *a* b 196; (Condillac), VI, *b* 222, b 224; (Cousin), *b* 463, a 466, a b 467; (Ethics), VIII, b 336-7; (Evolution), b 667; (Fine Arts), IX, b 175, b 184-5; (Goethe), X, a 654; (Heine), XI, b 558; (Heraclitus), *b* 607; (Jesus Christ), XIII, a 680; (Logic), XIV, a b 789, b 805, b 806, a b 807; (Lotze), XV, *a b* 14, *a* 15, a *b* 16; (Metaphysic), XVI, a b 93, b 104-5, a 106, a b 107; (Mysticism), XVII, a 140, b 142; (Pessimism), XVIII, a 701; (Philosophy), a b 808; (Schelling), XXI, b 406, a 407, *a* 408; (Schopenhauer), b 473, b 474, a 475, b 478; his influence on Baur, III, b 387; (Trendelenburg), XXIII, a b 577
——, Karl, historian, XI, a 549, a 554
Hegelianism (Æsthetics), I, a 192, a 196-7; (Gabler, G. A.), X, b 4; (Gans), a 65; (German Literature), X, a b486; (Pessimism), XVIII, a 701, a 702; (Schopenhauer), XXI, a b 474; (Socialism), XXII, a b 222, b 224, b 227, b 228; (Theology), XXIII, b 287, a 289; (Theosophy), XXIII, a 298; (Vera), XXIV, b 176
Hegesias, philosopher (Ethics), VIII, a b 516
Hegesippus, church historian (Canon), V, a 8, a 9; (Church History), a 668; (James), XIII, a 563; (Jude), a 772; (Popedom), XIX, a 503, b 510
Hegesistratus, tyrant (Pisistratus), XIX, b 140
Hegira or Hijra (Mohammedanism), XVI, a 568, a 575, a 586 note; era of (Chronology), V, b 622, b 624; years of (Calendar), IV, b 602-3
Hegumenos of Athos (Abbey), I, a 18
Hegyallya, mountains (Tokay), XXIII, b 460
"Heibanen," gravel tracts (Holland), XII, *b* 64
HEIBERG, Johan Ludwig, dramatist, XI, b 554-5; (Denmark), VII, a 81
——, Peter Andreas, critic (Denmark), VII, b 80; (Gyllembourg - Ehrensvärd), XI, a 310
HEIDE, town, XI, a 555
HEIDEGGER, John Henry, theologian, XI, a b 555
Heidelberg, mountain (Hohenelbe), XII, b 53
HEIDELBERG, town (Plans), XI, b 555-7
Heidelberg Catechism, V, b 191; (Image Worship), XII, b 752; (Ursinus), XXIV, *b* 17
—— University, XXIII, a 896, b 899, b 904, a b 905; (Jung), XIII, b 783-4; (Libraries), XIV, b 523; (Palatinate), XVIII, a 171; (Pufendorf), XX, a 105
HEIDELOFF, Karl Alexander von, architect, XI, a 557
Heidenhain, Rudolf (Magnetism, Animal), XV, b 230-1, *a* 283, *b* 284, *a* b 285
Heidschnucken, sheep (Hanover), XI, a 399
Height of the Atmosphere, III, b 32; (Aurora), b 81
——, effect in blast-furnaces (Iron), XIII, a b 324
—— of waves (Harbors and Docks), XI, a 408, a 410
Heights, measurement of (Pneumatics), XIX, a b 253; (Surveying), XXII, b 741-2
Heiland, poem. See HELIAND
HEILBRONN, town, XI, a b 557
Heilbronner, Johann Christian, mathematician (Tables), XXIII, a 20
Heiligenberg, hill (Heidelberg), XI, b 555
Heiligenblut church (Organ), XVII, b 860-1
HEILIGENSTADT, town, XI, b 557
Heiliger Damm (Doberan), VII, b 267
Heiligmann, Andreas. See OSIANDER
Heilmann, inventor (Wool), XXIV, b 695
HEILSBERG, town, XI, b 557
HEILSBRONN, village, XI, b 557
Heim, A., geologist (Switzerland), XXII, *b* 815, note
HEIM, François Joseph, painter, XI, b 557-8
——, Karl Wilhelm Ernst, jurist (Basilica), III, *a* 363
——, Gustavus Ernst, jurist (Basilica), III, a 363
Heimburg, Gregory of, theologian (Reformation), XX, *a* 336
Heimdal, god (Æsir), I, a 190; (Edda), VII, b 564
Heimin, class (Japan), XIII, a 589
Heimskringla Saga (Snorro Sturluson), XXII, b 212; (Iceland), XII, a 661
Heine, naturalist (Ornithology), XVIII, b 34, note
HEINE, Heinrich, poet, XI, a 558-60; (Faustus), IX, *b* 49, a 50; (Germany), X, *a* 481, a 482, a *b* 487; (Lassalle), XIV, a 321; (Satire), XXI, a 335; (Tieck), XXIII, b 408
HEINECCIUS, Johann Gottlieb, jurist, XI, b 560
HEINECKEN, Christian Heinrich, prodigy, XI, b 560
Heinicke, Samuel, teacher (Deaf and Dumb), VII, a 8
Heinke helmet (Diving), VII, b 258
Heinric en Margriete (Holland), XII, a 94
Heinrich Der Arme (Hartmann von Aue), XI, b 446
Heinrichsbad, watering place (Herisau), XI, a 661
Heinrichshöhe mountain (Harz), XI, a 453
Heinrich von Ofterdingen (Hardenberg), XI, *b* 422
HEINSE, Johann Jacob Wilhelm, romancist, XI, b 560-1; (Germany), X, b 483; (Goethe), a 647
HEINSIUS or Heins, Daniel, classicist, XI, a 561; (Scaliger), XXI, a b 380
HEINSIUS, Nikolaes, classicist, XI, a b 561
HEINSIUS, Nikolaes, the younger, romancist, XI, b 561; (Holland), XII, a 99
Heinzerling's tanning process (Leather), XIV, a b 390
Heir-at-law (Inheritance), XIII, b 83-5; (Intestacy), a 203-4; (Roman Law), XX, a 691, b 709-10
Heiress (Abduction), I, b 35; (Heraldry), XI, a b 611, b 614, a 615, a b 631, b 632
Heiricus or Eric, St., monk (Scholasticism), XXI, b 438
Heir in Old Age (China), V, a 579
Heirlooms (Primogeniture), XIX, a b 753
Heirs, expectant (Contract), VI, a 287
Heise, composer (Denmark), VII, b 82
Heiss, Aloiss, numismatist (Iberians), XII, b 639, note, a 640
Heitsi-Eibib, hero (Hottentots), XII, *a b* 325, note; (Mythology), XVII, a b 154
Hejaz or Hijaz, district (Arabia), II, a b 206, a *b* 211, b 213, a 214, a *b* 218, b 219, a 221, a *b* 227, a 228, a b 229; (Mecca), XV, a 676, note, a 677, *a* 679; (Mohammedanism), XVI, a 569; (Semitic Languages), XXI, b 682, b 683; (Turkey), XXIII, b 695; conquest of (Turkey), a 684
Hejr, prayer space (Mecca), XV, b 679; tomb inscriptions (Semitic Languages), XXI, a 680
Hekatoncheires, myth (Briareus), IV, b 247
Hekhaloth, treatise (Midrash), XVI, b 298
Hektograph method (Writing Machines), XXIV, b 733
Hektorevic, Peter, author (Servia), XXI, a 723
Hel, goddess (Æsir), I, *b* 189
Helarctos, genus (Mammalia), XV, b 448
Helbon, valley (Lebanon), XIV, a 394; (Wine), XXIV, a 636
Held, Adolf, publicist (Political Economy), XIX, a 408; (Socialism), XXII, b 216, b 232
Heldenbuch (Germany), X, b 469; (Romance), XX, a 674; (Simrock), XXII, b 94
HELDER or The Helder, town, XI, b 561; (Holland), XII, a 67, b 69
Helderberg, mountains (New York), XVII, a *b* 462, a 465; (United States), XXIII, b 843; formation (Geology), X, a 301, a 306
Helen, a Tale (Edgeworth, Maria), VII, a 567, a b 568
Helen of Troy. See HELENA
Helena, mount (United States), XXIII, a 852
——, town (Montana), XVI, a 800
HELENA or Helen of Troy, heroine, XI, b 561-2; (Agamemnon), I, b 244; (Homer), XII, b 116, b 120, a 122; (Isocrates), XIII, a 403; Zeuxis's painting (Archæology), II, b 317; (Zeuxis), XXIV, a b 822

Helena, tragedy (Euripides), VIII, b 593-4
HELENA, Saint, empress, XI, a 562; (Cross), VI, b 539-40
——, prostitute (Simon Magus), XXII, *a b* 87
Helenium, plants (Horticulture), XII, b 258
HELENSBURGH, town, XI, b 562
Helentrude, nun (Ursula, St.), XXIV, *a* 18
Helenus, seer (Andromache), II, b 21
Heleothreptes, genus (Goatsucker), X, b 631
Helfaut, camp (St. Omer), XXI, b 197
Helferich, economist (Taxation), XXIII, a 92, a 93
Helgakvioa Hiörvards Sonar (Edda), VII, b 564
Helgeandsholmen or Holy Ghost Isle (Stockholm), XXII, b 587
Helgi, trilogy (Iceland), XII, a 657
Heliadæ, the (Amber), I, b 579
Heliæa, jurors (Solon), XXII, a 268
Heliamphora, genus (Insectivorous Plants), XIII, *b* 140
HELIAND or *Heiland*, poem, XI, b 562; (Germany), X, a 463, a 468; (Saxony), XXI, b 367 note
Helianthemum, plants (Horticulture), XII, b 258
Helianthus, plant (Horticulture), XII, a 255, b 258, a 295; (Sunflower), XXII, b 693-4
—— annuus, tree (Campagna di Roma), IV, a 664
Helias de la Flèche, count of Maine (William II.), XXIV, *b* 609
Helical motion (Mechanics) (Ill.), XV, a b 763; refractors (Lighthouse) (Ill.), XIV, a 626; teeth (Mechanics), XV, b 768
Helichrysum, plant (Horticulture), XII, a 255, b 258; (Immortelle), a 755
Helicidæ, family (Mollusca), XVI, b 684; (Snail), XXII, b 197-8
Helicoidal asymmetry (Polarity) (Ill.), XIX, b 325, a b 326, b 327; parabola (Infinitesimal Calculus), XIII, a 64
Helicoid cyme (Botany) (Ill.), IV, a b 112-3
HELICON, mountain, XI, a 563; (Greece), a b 74; (Hesiod), a 694; (Muses), XVII, a 81
—— of Cyzicus, philosopher (Astronomy), II, b 653
Heliconidæ, family (Butterflies) (Plate XXVII), IV, a 528, a 530; (Mimicry), XVI, a 353
Helictis, genus (Mammalia), XV, a 447
Helictite, limestone formation (Luray Cavern), XV, b 69
Hélie, Professor (Gunnery), XI, a 269, b 281
HELIGOLAND, island, XI, a 563-4; (Germany), X, a 402
Hélinand, Daniel, monk (Romance), XX, b 663
HELIODORUS, bishop, XI, a b 564; (Romance), XX, a 651
—— of Rome, physician (Surgery), XXII, a *b* 709
HELIOGABALUS or Elagabalus, emperor, XI, b 564; (Lotteries), XV, b 12; (Numismatics), XVII, a 671; (Priest), XIX, a 749; (Ulpianus), XXIII, a 768
HELIOGRAPHY, XI, b 564-5
Héliogravure, photographic Engraving, VIII, a 388, a 392 note
Heliometer (Micrometer), XVI, b 259-65; in stellar observation (Parallax), XVIII, b 257; at Oxford (Telescope), XXIII, b 162-3
Heliometric determination of Parallax, XVIII, b 252, b 254-5
Heliolites, genus (Corals) (Ill.), VI, b 342, *a* 343
Heliophyllum, genus (Corals), VI, a 338, a *b* 339, b 340, a 341
Heliopolis, city (Egypt), VII, *a* b 620, note, b 623, note, b 634, b 667
——, city, Syria (Baalbec), III, *a* 153; (Numismatics), XVII, a 667
Heliopora, genus (Corals), VI, *a* b 334, a 337, a 340, b 342, a 343
Helioporidæ, family (Corals) (Ill.), VI, b 342, *a* 343
Heliornis, bird (Rail), XX, a b 230
Helios, Sun-god (Apollo), II, a *b* 162; (Rhodes), XX, b 540
Heliosphæra (Protozoa) (Ill), XIX, a b 873
Heliostat, signalling instrument (Drummond, T.), VII, b 414; Begbie's (Heliography), XI, a 565
Heliotrope, instrument (Geodesy), X, b 148
HELIOTROPE or Bloodstone, XI, a 566; (Mineralogy), XVI, b 405
HELIOTROPE or Turnsole, plant (Ill.), XI, b 565-6; (Horticulture), XII, a 259, b 272; (Jussieu), XIII, b 797; (Valerian), XXIV, a 47, note
Heliotropion, cave at Syros (Pherecydes), XVIII, b 747
Heliotropism of plants (Physiology), XIX, a b 66
Heliotype, photographic printing (Photography), XVIII, a 846
Heliozoa, class (Protozoa) (Ill.), XIX, a b 860, a b 866-7
Helix, genus (Mollusca) (Ill.), XVI, b 684, a b 685, a b 686
—— desertorum (Hibernation) (Ill.), XI, b 704
Hell (Eschatology), VIII, *a b* 474, note; (Kabbalah), XIII, b 821; (Limbus), XIV, a 653; (Mandæans), XV, b 476. See Gehenna, Hades, Sheol, Tartarus
"Hell" (Saws), XXI, a 361
Hellada, river (Greece), XI, a b 74
Helladici, family (Greece), XI, b 101
Helladius, priest (Dictionary), VII, b 158
HELLANICUS of Mitylene, historian, XI, a b 566; (Chronology), V, b 616; (Genealogy), X, b 128 note; (Greece), XI, a 126; (Troad), XXIII, b 617
Hellanodicæ, judges (Games), X, a 58, a 59
Hellas. See GREECE
Hellas, drama (Shelley), XXI, b 829
Helle, heroine (Hellespont), XI, b 568
HELLEBORE or Helleborus, plant (Ill.), XI, b 566-8; (Anticyra), II, a 112; (Botany) (Ill.), IV, *b* 99, b 119, a 120, b 121, b 128, b 135, b 137; (Horticulture), XII, b 258; (Veratrum), XXIV, a 177
Helleboreïn, Helleboresin, Helleboretin, and Helleborin, chemical products (Hellebore), XI, b 567
Hellen, legend of (Greece), XI, a b 117
Hellenes, race (Deucalion), VII, a 116; (Dorians), *b* 317, *a* 318; (Greece), XI, *b* 81, a 82, a 84, a 86, b 88, b 94, a 95, a b 96; (Thebes), XXIII, b 248
Hellenica, history (Xenophon), XXIV, a b 757
Hellenic Plate, XIX, b 190-2
Hellenics, poems (Landor), XIV, b 279
Hellenism (Bible), III, b 554, *a* 555; (Greece), XI, a 128; (Isocrates), XIII, b 400, note, a 403; (Israel), b 430-1, note; (Macedonian Empire), XV, a b 142, *b* 143, a b 144, a b 145; (Manichæism), a b 489; (Philo), XVIII, b 773-4. See GREECE and HELLENISTS
Hellenistic art (Archæology), II, a 319-20; (Greece), XI, b 96, a 121; Jews (Hermeneutics), b 664; literature (Romance), XX, b 649. See Greek art
HELLENISTS, XI, a b 568
——, English school of (Bentley), III, b 500
Heller, Arnold, anatomist (Tunicata), XXIII, b 647, b 658
——, Stephen, musician, (Ernst), VIII, a 467
——, Yomtob Lipmann, rabbi (Mishnah), XVI, b 529
HELLESPONT, XI, b 568; (Argonauts), II, a 437; (Black Sea), III, a b 692; (Dardanelles), VI, b 724; (Pisistratus), XIX, *b* 140
Hell Gill, arch (Westmorland), XXIV, a 542
HELLIN, town, XI, b 568
"Hell Kettles" (Durham), VII, b 483
Helln Pot (Cave), V, b 231
Hellopia, valley (Jaunina), XIII, a 575
Hellville, town (Nossi-bé), XVII, a 611
Helm. See HELMET
—— of ships. See Rudder
Helmand, river (Afghânistân), I, b 204, a *b* 205, a 206, a 214; (Hindú Kúsh), XI, a 748, a 749; (Sistán), XXII, *a b* 108, a 109
HELMERS, Jan Frederik, poet, XI, b 568; (Holland), XII, b 100
HELMET or Helm, XI, b 568-9; (Arms and Armor), II, *b* 485, b 487, a 488; (Diving) (Ill.), VII, b 258, a 259; (Heraldry) (Ill.), XI, b 627, b 635
—— -beetle (Coleoptera) (Plate VIII), VI, a 121
—— -flower (Aconite), I, b 92
—— -Hornbill, XII, b 172-3
Helmholtz, Hermann Ludwig Ferdinand, physicist and physiologist (Acoustics), I, b 100, *b* 110, a b 111; (Æsthetics), a 198; (Ear), VII, *b* 511, *a* b 513-4; (Electricity), VIII, a 11, *a* 12, *a* 13, a 14, a 35, a 65 note, b 71, b 75-6, a-b 77, *b* 82, a 84; (Eye), a b 718, b 719, *b* 720, *b* 721, a 725; (Fermentation), IX, b 83; (Geometry), X, a 334, a 335; (Measurement), XV, a 671; (Microscope), XVI, a-b 276; (Music), XVII, a 110, a 111, a b 112; (Optics), *b* 825, a 831; (Psychology), XX, b 55 note; (Sleep), XXII, a 166; (Stereoscope), b 568; (Tartini), XXIII, b 77; (Termodynamics), b 303; (Tuning-Fork), a 659; (Voice), XXIV, a 293, *b* 295; (Wave), *b* 442, b 443; his double syren (Acoustics), I, b 102, a b 109, a 110; on fluid motions (Atom), III, *b* 39, b 40; his Galvanometer, X, b 47-8; tangent compass (Electricity), VIII, a 13; his theory of induction (Electricity), *a* 12, b 71, b 75-6
Helminthology. See ANNELIDA, NEMERTINES, PARASITISM, PLANARIANS, ROTIFERA, TAPE WORMS, TREMATODA and WORM
Helminthostachys (Ferns), IX, b 92
HELMOND, town, XI, a b 569
Helmont, Franz Mercurius van, chemist, XI, b 569; (More, Henry), XVI, b 841
HELMONT, Jean Baptiste van, chemist, XI, b 569; (Alchemy), I, b 412, a *b* 413; (Chemistry), V, b 398; (Dietetics), VII, a 174; (Fermentation), IX, a 81; (Medicine), XV, a b 819
Helmsdale, river and town (Sutherland), XXII, a b 764, *a* 765
Helmsley, W. B., naturalist (St. Helena), XXI, b 179
HELMSTADT or Helmstedt, town, XI, b 569-70; (Brunswick), IV, b 360, *a* 361; (Universities), XXIII, b 900-1, a 904
Helm-wind, cyclone (Westmorland), XXIV, b 543
Heloderma, genus (Lizard), XIV, a 739; (Mexico), XVI, a 226, note; (Reptiles) (Ill.), XX, b 463, a 464, *b* 470, b 478; horridum or suspectum (Lizard), XIV, a 741; (Zoology), XXIV, b 924. See Gila monster

Helodromas, genus (Sandpiper), XXI, a 273, note
Heloise, inamorata (Abelard), I, a *b* 38, *a* 39
——, *Nouvelle* (Rousseau), XXI, *a* b 31, *a* 33
HELOTS, serfs, XI, a 570; (Greece), b 84–5, a 91; (Lycurgus), XV, b 97; (Messenia), XVI, a 58; (Pausanias), XVIII, b 447; (Slavery), XXII, b 139; (Sparta), b 384
HELPS, Sir Arthur, sociologist, XI, a 570–1
HELSINGBORG, town, XI, b 571–2
HELSINGFORS, city, XI, a 572; (Libraries), XIV, a 552; Observatory, XVII, b 734; (University), XXIII, a 908
Helsingius, Elavus Petri, lexicographer (Scandinavian Languages), XXI, a 389
Helsingor, town. See ELSINORE
HELST, Bartholomæus van der, artist, XI, a 572–3
——, Francis van der, inquisitor (Torture), XXIII, a 493
HELSTON, town, XI, a 573
Helvas, town. See ELVAS
Helve, hammer (Iron) (Ill.), XIII, a 336
Helvella, genus (Fungus), IX, b 732
Helvellyn, mountain (Cumberland), VI, b 615; (England), VIII, a 196; (Westmorland), XXIV, b 541
Helvetica, Formula Consensus (Inspiration), XIII, b 163
Helvetic Confession (Canon), V, b 14; (Heidegger), XI, b 555; (Luther), XV, b 84, a 85; (Zwingli), XXIV, a 872
—— Republic (Switzerland), XXII, b 831–2
—— Society (Switzerland), XXII, b 831, a 833
Helveticum Chronicon (Tschudi), XXIII, b 638
Helvetii, tribes (Cæsar), IV, a 565; (Gaul), X, b 100
Helvetius, Anne Catherine de Ligniville, Madame (Chamfort), V, a 332
HELVETIUS, Claude Adrien, philosopher, XI, a 573–4; (Ethics), VIII, b 535; (Evolution), b 655; (France), IX, a 589; (Marat), XV, b 533, a 534
——, John Adrien, physician, XI, a 573
——, John Claude Adrien, physician, XI, a 573
HELVIDIUS PRISCUS, prætor, XI, a 574
Helvine (Mineralogy), XVI, b 367, a 429
HELVOETSLUYS, town, XI, a 574; (Holland), XII, *a* b 63, a 66, a 70
Hély, Abbé (Grotius), XI, a 196
Helyot, Jerome, canon, XI, a 574
HELYOT, Pierre, monastic historian, XI, a b 574
HEMANS, Felicia Dorothea, poetess, XI, b 574–6
Hematite. See Hæmatite
Hemavati, river (Hassan), XI, *b* 455
HEMEL HEMPSTEAD, town, XI, a 576; (Hertford), *b* 689, a 690
HEMEROBAPTISTS, XI, a 576
Hemesa, town. See HEMS
Hemianopsia, disease (Ophthalmology), XVII, b 806
Hemicentetes, genus (Mammalia), XV, a 409
Hemichorda, branch (Vertebrata) (Ill.), XXIV, b 195, a 198, b 202–3
Hemicollin, chemical product (Gelatin), X, a 119
Hemicrania, disease (Neuralgia), XVII, a 373
Hemidesmus, genus (Sarsaparilla), XXI, a 329
Hemihedral crystals (Mineralogy), XVI, a 367
Hemigalea, genus (Mammalia), XV, b 442
Hemileia vastatrix, fungus (Coffee), VI, b 102
Hemilophus, genus (Birds), III, *b* 621
Hemimetabola order (Insects), XIII, *a b* 153, a 154
Hemimyaria, sub-order (Tunicata), XXIII, a 655–6
Heming, Edward, inventor (London), XIV, a 835
HEMINGFORD or Hemmingford, Walter, Latin chronicler, XI, a b 576
Hemiophrya, genus (Protozoa) (Ill.), XIX, a b 890
Hemiplegia, disease (Paralysis), XVIII, a b 260
Hemipodes, birds (Ornithology), XVIII, a 42, b 49; (Quail), XX, b 153–4
HEMIPTERA, order of bugs, XI, b 576–7; (Insects), XIII, a 148, a 149, a 154, b 159–60
Hemisphere, centre of inertia (Mechanics), XV, a b 707
Hemitrope crystals (Mineralogy) (Ill.), XVI, b 377–b 381
Hemiurus, sub-genus (Opossum), XVII, b 819
HEMLOCK, plant, XI, a b 577; (Botany), IV, *a* 111, b 113; (Narcotics), XVII, b 237
—— spruce, tree (Arboriculture), II, a 280; (Fir), IX, a b 195; (Venezuela), XXIV, b 151; bark (Leather), XIV, a 382; forests (United States), XXIII, a 861
—— Lake (Rochester), XX, a 630
Hemmerlin, Felix, monk (Tell), XXIII, a 171
Hemony, F., manufacturer (Bell), III, b 463, *b* 464
HEMP, plant, XI, b 577–9; (Abaca), I, b 11; (Anæsthesia), b 692; (Bhang), III, b 542–3; (Botany), IV, b 75; (France), IX, a 459; (Italy), XIII, b 463; (Kentucky), XIV, *b* 45, a 46; (Manila), XV, b 495; (Narcotics), XVII, a 237, 238; (Phormium), XVIII, b 825, a 826; (Rope), XX, a 866; (Philippine Islands), XVIII, b 764–5; (Russia), XXI, a 93, a 95; bowstring (Fibres, Textile), IX, a 116; jubbulpore (Fibres, Textile), a 116; sunn (Fibres, Textile), a b 116. See Henequen, Phormium, Sisal
—— cake (Oilcake), XVII, a 760
—— manufactures (England), VIII, a 211; (Ireland), XIII, b 236, a 237
—— oil (Oils), XVII, b 760, a 761, b 765, a 766
Hempel, Mrs. Johanna, inventor (Filter), IX, b 146
Hempstead, town (Long Island), XIV, b 876, a 877
HEMS or Homs, town, XI, b 579; (Syria), XXII, b 860. See EMESA
Hemsedal Fjeld, mountain (Norway), XVII, a 589
Hemsley, W. B., botanist (Sussex), XXII, b 761
HEMSTERHUIS, François, philosopher, XI, b 579; (Æsthetics), I, b 198
HEMSTERHUIS, Tiberius, philologist, XI, a 580; (Bentley), III, b 500–1; (Ruhnken), XXI, b 63, a 64
Hen, Zodiacal Sign, XXIV, b 831, a 832
——. See Fowl, Poultry
Henān-īshō' the Lame, catholicus (Syriac Literature), XXII, b 886–7
HÉNAULT, Charles Jean François, historian, XI, a b 580
HENBANE, plant, XI, b 580–1; (Botany) (Ill.), IV, *b* 112, b 113, a b 136, b 138; (Narcotics), XVII, a 237, 238
Hencke, Astronomer (Astronomy), II, *a* 706
Henckel, Johann Friedrich, chemist (Pyrites), XX, b 134
HENDERSON, Alexander, theologian, XI, a b 581; (Scotland), XXI, a b 534, b 535
HENDERSON, Ebenezer, commentator, XI, b 581–2
——, Norman B., inventor (Paraffin), XVIII, a 245, b 246
——, Thomas, astronomer (Parallax), XVIII, a b 257; determines distance of fixed stars (Astronomy), II, a 715
—— puddling process (Iron), XIII, a 329, a 360
—— processes (Copper), VI, b 310, a b 311
—— retort (Paraffin), XVIII, a b 245
Hendon, village (Vaccination), XXIV, a 29 note
HENDRICKS, Thomas Andrews, politician, XXIII, b 838; (Sumner), XXII, b 934
Hendrickx, Giles, publishers (Van Dyck), XXIV, *b* 71
Hendriks, Frederick (Annuities), II, *a* 70, *b* 72, b 73
Henequen, hemp (Mexico), XVI, a 226, b 903, a b 911. See Sisal
Hengist or Hengest, king (Arthur), II, b 569; and Horsa (England), VIII, b 243
HENGSTENBERG, Ernst Wilhelm, theologian, XI, a b 582; (Hegel), b 550; (Job), XIII, a 711, a 714
"Hengwrt" collection (Celtic Literature), V, b 272, *a* 273, a 281
HEN-HARRIER (Ill.), XI, b 439–40; (Birds), III, b 638, note
Heniochus, genus (Ichthyology), XII, a 701, *a* 727
Henke, Ernst Ludwig Theodor, historian, XI, a 583
HENKE, Heinrich Philip Konrad, theologian, XI, b 582–3
Henle, Friedrich Gustav Jacob, anatomist (Anatomy), I, *a* 716; (Psychology), XX, a 64
HENLEY, John, orator, XI, a 583
HENLEY-ON-THAMES, town, XI, a b 583
—— Electrometer (Ill.), VIII, b 111
HENNA, shrub, XI, b 583–4; (Yazd), XXIV, b 769
——, town (Syracuse), XXII, a 853
Henne, J. A., pőet (Switzerland), XXII, a b 838
HENNEBONT, town, XI, a 584
Hennepin, Louis, explorer (Minnesota), XVI, b 499–500; (United States), XXIII, b 862, note; (Wisconsin), XXIV, a 652
HENNEQUIN, Philippe Auguste, painter, XI, a 584
HENNERSDORF, village, XI, a 584
Hennin, head-dress (Costume), VI, b 416, b 419
Henning, Christopher, lexicographer (Slavs), XXII, a 164
Henotheism (Religions), XX, *b* 379; (Theism), XXIII, b 254, a b 256
Henoticon (Zeno), XXIV, b 816
——, deed of union (Felix III.), IX, b 58
Henri III. (Dumas, A.), VII, b 450
Henriade, La (Hénault), XI, b 580; (Voltaire), XXIV, a b 306, a *b* 307, a 311, *b* 312
Henricians, sect (Henry, Deacon), XI, b 600
Henrietta Anne, princess of England, duchess of Orleans (Fuller, T.), IX, a 715; (Racine), XX, a 212, b 213
HENRIETTA MARIA, queen of England, XI, a b 584; (Charles I.), V, a 351, a *b* 352; (Cowley), VI, a 472; (France), IX, a 501; marriage of (Buckingham), IV, *b* 375
Henry I., emperor of Constantinople (Crusades), VI, a 556
HENRY I., Fowler, emperor, XI, a 594; (Canonization), V, a 22; (Germany), X, a b 433; (Hungary), XII, b 382; (Prussia), XX, b 6; (Saxony), XXI, b 368
HENRY II., the saint, emperor, XI, a b 594; (Germany), X, b 436; (Italy), XIII, b 480; (Pavia), XVIII, a 450; (Rome), XX, *a* 808
HENRY III., emperor, XI, b 594–5; (Adalbert), I, a 124; (Clement II.), V, b 717; (Ferdinand I., Castile), IX, a 71; (Germany), X, *a* b 437; (Holland), XII, a 74; (Italy), XIII, a 481; (Popedom), XIX, b 512; (Rome), XX, *b* 808; (Salic Law), XXI, a 225

Henry IV., emperor, XI, a 595–6; (Germany), X, b 437–9; (Gregory VII.), XI, *b* 158; (Guibert of Ravenna), XI, b 223; (Italy), XIII, b 481–2; (Patrician), XVIII, b 421; (Popedom), XIX, a b 513; (Rome), XX, b 808, a 809; (Saxony), XXI, b 367
Henry V., emperor, XI, a 596; (Germany), X, a 439; (Investiture), XIII, b 207; (Italy), a 482; (Paschal II.), XVIII, a 344; (Poland), XIX, a 299; (Popedom), a 514; (Utrecht), XXIV, a 27
Henry VI., emperor, XI, a 593; (Crusades), VI, a 555; (Germany), X, a b 440, b 468; (Italy), XIII, a 485; (Sicily), XXII, b 31; (Urban III.), XXIV, b 12
Henry VII., emperor, XI, b 596; (Germany), X, a 443; (Italy), XIII, *b* 487; (Rome), XX, a b 816; count of Luxemburg (Switzerland), XXII, *b* 821
Henry I., king of Castile, XI, b 598
Henry II., king of Castile, XI, b 598; (Ferdinand I.), IX, a b 70; (France), a 483; (Pedro I.), XVIII, a b 461–2; (Portugal), XIX, b 558, a 559; (Spain), XXII, *b* 334, *a* b 335
Henry III., king of Castile, XI, a 599; (Clavijo), V, b 714; (Geography), X, b 160; (Spain), XXII, b 335–6
Henry IV., king of Castile, XI, a 599; (Gibraltar), X, a 523; (Spain), XXII, a b 336, *b* 339
Henry I., king of England, XI, a 585–6; (Anselm), II, a 82; (Costume), VI, b 412; (England), VIII, a 210, b 271–2, b 272–4; (France), IX, b 475, *a* 476; (Gloucester), X, a 616; (Heraldry), XI, a 609, b 622–3; (Investiture), XIII, a 208; (Ireland), b 260–1; (Lamprey), XIV, a 250; (Middlesex), XVI, b 292; (Normandy), XVII, b 557, a 558; (Selby), XXI, a 662
Henry II., king of England, XI, a 586–7; (À Becket), I, a 36–7; (Brittany), IV, b 320–1; (Cork), VI, a 359; (Costume), *b* 412; (Crusades), b 554; (Dublin), VII, a 433; (Eleanor), VIII, a 3; (England), a b 272, a 274–5, a 276–7; (Feudalism), IX, b 107; (Finance), *b* 153, a 154; (France), a b 477; (Glanvil), X, *a* 566; (Glastonbury), a 602; (Glove), b 617; (Hovedon), XII, b 332, a 333; (Hugh, St.), b 350; (Ireland), XIII, a b 225, b 238, b 264–5; (John of England), a 724; (Knighthood), XIV, a 117; (Normandy), XVII, b 558; (Ordeal), b 842; (Peter of Blois), XVIII, b 711, a 712; (Plantagenet), XIX, a b 186; (Richard I.), XX, *b* 554; (Rosamond), b 870; (Scotland), XXI, b 505, *a* b 506; (Stephen), XXII, a b 561; (Tipperary), XXIII, a 433; (Toulouse), a 517; (Woodstock), XXIV, b 687; (York), b 789
Henry III., England, XI, a 587–8; (Alexander II. and III.), I, *a* 434; (Costume), VI, a 413; (Edmund, St.), VII, *a* 580; (England, Church of), VIII, b 334; (Finance), IX, b 155; (France), *b* 478, a 479; (Ireland), XIII, b 265–6; (London), XIV, b 835, b 847; (Matthew of Paris), XV, *b* 640; (Montfort), XVI, b 813; (Mural Decoration), XVII, a 52; (Ordeal), a 843; (Regalia), XX, b 352; (Scotland), XXI, *a* *b* 507, *a* 508; (Sculpture), b 584, a 585; (Usury), XXIV, b 23; (Windsor), *b* 632, a 633; (Wolf), b 662
Henry IV., king of England, XI, a 588–9; (Bristol), IV, a 315; (Chaucer), V, a 390; (Coronation), VI, b 380; (Costume), a 416; (Crown), b 547; (Earl), VII, b 514; (England), VIII, b 287–8; (Gascoigne, W.), X, b 93; (Glendower), a 605; (Ireland), XIII, a 267; (James I., Scotland), a b 565; (Lancaster), XIV, *a* b 257; (Percy), XVIII, b 533, a 534; (Richard II.), XX, b 556; (Scotland), XXI, a 513; (York), XXIV, a 790
Henry IV., play (Mural Decoration), XVII, a 54, note; (Shakespeare), XXI, b 790, a 800, a 805
Henry V., king of England, XI, a 589; (Agincourt), I, a 252; (Channel Islands), V, a 341; (Charles VI., VII., France), *a* 356; (Dockyards), VII, b 269; (England), VIII, a 288; (France), IX, b 484; (Gascoigne, W.), X, a 605; (Gunpowder), XI, a 284; (Hardyng), b 425; (Helmet), a 569; (Ireland), XIII, a 267; (James I., Scotland), b 565; (Navy), XVII, a b 288; (Normandy), b 559–60; (Oldcastle), a 775; (Paris), XVIII, a b 296; (Percy), a 534; (Rouen), XXI, a 17; (Seals), a b 614; (Southampton), XXII, a 297; (York), XXIV, *a* 790; effigy at Westminster of (Sculpture), XXI, b 585
Henry V., play (Shakespeare), XXI, a 797, a 800, a 805
Henry VI., king of England, XI, a 589–90; (Corn Laws), VI, b 362, a 363; (Edward IV.), VII, *a* b 594; (England), VIII, b 288; (Finance), IX, b 153, b 154, b 155; (Fortescue), *a* 370; (Helmet), XI, a 569; (Hull), XII, a 356; (Ireland), XIII, a b 267; (London), XIV, a 844; (Margaret of Anjou), XV, *a* *b* 543; (Paris), XVIII, b 296; (Scotland), XXI, a *b* 516; (Warwick), XXIV, *a* b 402, a 403; (York), *a* 790
Henry VI., play (Shakespeare), XXI, a 795, a 797, a 799, a 805
Henry VII., king of England, XI, b 590; (Archery), II, b 325; (Cabot), IV, b 552–3; (Canonization), V, a 22; (Costume), VI, b 417; (Dante), b 715, a 717; (Effigies), VII, b 602; (England), VIII, b 294, a b 295; (Fox, R.), IX, b 442, a 443; (Hanseatic League), XI, b 403; (Horse), XII, b 185; (Ireland), XIII, a 268; (James IV., Scotland), a 567; (London), XIV, *b* 847; (Mint), XVI, b 504; (More, Thomas), a 843; (Pembroke), XVIII, b 493; (Scotland), XXI, a b 518; (Shakespeare), b 776, *a* 777; (Urbino), XXIV, b 14; (Wolsey), *a* b 668; (York), *b* 790, a b 791; chapel at Westminster of (Sculpture), XXI, a b 586, note; tomb of (Metal-Work) (Ill.), XVI, b 82; (Torrigiano), XXIII, b 482
Henry VII., History of (Bacon), III, a b 181
Henry VIII., king of England, XI, b 590–3
  circumstances of accession, a 591
  divorce period, a 592
  internal reorganization of kingdom, b 592–3
  period of foreign politics, b 591
  review of his reign, b 593
—— (À Becket), I, a 37; (Admiral), b 143; (Agriculture), b 262; (Articles), II, *b* 571; (Barton, E.), III, b 348; (Beaton), *b* 402; (Bibliography), a b 570; (Boleyn), IV, *b* 5, a 6; (Bowls), a 163; (Catherine), V, a b 206; (Chester), b 525; (Convocation), VI, b 290; (Costume), *a* 418, (Cranmer), a 486–8; (Cromwell), a b 535; (Defender of the Faith), VII, a 24; (Dockyards), *b* 269, b 274; (England), VIII, b 295, b 297–303; (England, Church of), a 335–7; (English Literature), a 370; (Ferdinand V., Castile), IX, b 72; (Finance), *a* 156; (Fisher), a 211; (France), b 489, *a* *b* 490, a b 491; (Gaming), X, a b 60; (Gardiner, S.), a b 69–70; (Holbein), XII, *a* 58; (Horse), b 185, b 203; (Hull), a 356; (Ireland), XIII, a 268–9; (James IV. and V., Scotland), *a* 567; (Latimer), XIV, *a* *b* 326; (London), *a* 833, a 841, *a* 849, *b* 856, *a* b 857; (Luther), XV, a 79; (Mary I.), a b 599, a 600; (Middlesex), XVI, b 292; (Money), a 753; (More, Thomas), a b 843, a b 844, a 845; (Mural Decoration), XVII, b 52; (Navy), a b 289; (Ormonde), b 878 note; (Parliament), XVIII, b 312–3; (Pheasant), a 746; (Pianoforte), XIX, a 78; (Pole), a b 343; (Poor Laws), b 477, b 488; (Real Estate), XX, a 319; (Reformation), *b* 340, a 341, a b 342–3; (Sadler), XXI, b 151; (Scotland), *b* 518, a b 519, a b 520, *a* *b* 521; (Shakespeare), b 777; (Surrey), XXII, *b* 730; (Titles), XXIII, a 446; (Torrigiano), b 482; (Treason), *a* b 560; (Will), XXIV, b 604; (Windsor), a b 633; (Wolsey), *b* 668, *a* *b* 669; (York), b 790, b 791
Henry VIII., play (Drama), VII, b 340; (Elizabeth), VIII, a 133 note
Henry I., king of France, XI, b 596–7; (France), IX, a 474; (Normandy), XVII, a b 556, a b 557; (William I.), XXIV, *b* 606, a 607
Henry II., king of France, XI, a b 597; (Charles V.), V, a 361; (Costume) (Ill.), VI, a b 418, b 419; (Duel), VII, a 442; (France), IX, *b* 492; (Germany), X, b 447–8; (Montmorency), XVI, a 818; (Numismatics), XVII, a 674; (Paris), XVIII, b 296; (Philip II.), a 758; (Trent, Council of), XXIII, a 581; (William of Orange), XXIV, b 614
Henry III., France, XI, b 597–8; (Bodin), III, b 736–7; (Costume) (Ill.), VI, b 418; (Duel), VII, b 442; (Flagellants), IX, b 245; (France), b 495–6; (Guise), XI, *b* 236; (Lace), XIV, a 185; (Mornay), XVI, a 855; (Paris), XVIII, b 296, a 297; (Philip II.), a b 759; (Poland), XIX, b 303–5; (Presbyterianism), a 714; (Reformation), XX, a 349; (Titian), XXIII, b 442; (Venice), XXIV, *a* 158
Henry IV., king of France, XI, a b 598; (Armagnac), II, b 479; (Bastille), III, b 371; (Biron), *a* 683; (Casaubon), V, a *b* 151; (Châlons-sur-Marne), a 329; (Chrestien, F.), *a* 597; (Condé), VI, b 217; (D'Aubigné), a 733; (Dorléans), VII, a 319; (Duel), b 442–3; (Duperron), b 473; (Farnese, A.), IX, a 35; (France), b 494, a b 495–9, b 576, a 577; (Henry III., France), XI, b 597–8; (Huguenots), XII, *b* 352; (Jesuits), XIII, b 664; (Marguerite), XV, a b 546; (Medici), a 802; (Mornay), XVI, a 855; (Neri), XVII, a b 356; (Pau), XVIII, a b 425; (Philip II.), b 759; (Popedom), XIX, b 519, a 520; (Presbyterianism), b 714; (Thou), XXIII, a b 336; (Venice), XXIV, a 158; (Vieta), b 241
Henry I., king of Navarre, XI, a b 599
Henry II., king of Navarre, XI, b 599; (Francis I.), IX, a 608
—— III., king of Navarre. See Henry IV. of France
Henry I., Portugal, cardinal king, XI, b 598; (Portugal), XIX, b 561, a b 562
——, St. (Finland), IX, a 190

HENRY of Portugal, the Navigator, Prince, XI, b 599-600; (Gama), X, b 52; (Geography), a *b* 161; (John I., Portugal), XIII, b 725; (Navigation), XVII, a 257; (Portugal), XIX, b 559, a 560; (Slavery), XXII, a 146
—— of Austria, Jasomirgott, duke (Austria), III, a 108; (Germany), X, *b* 439
—— I., Bavaria, duke (Germany), X, b 433, a b 434, b 435
—— II., Bavaria, the Wrangler (Germany), X, *b* 435, a 436; (Otho), XVIII, *a* 70
—— VIII., Bavaria, the Proud (Germany), X, *a* b 439; (Lothair, Saxon), XV, b 11; (Saxony), XXI, b 367-8
HENRY IX., duke of Bavaria and Saxony, the Lion, XI, a b 600; (Brunswick), IV, *b* 361, a 362; (Germany), X, *b* 439, a 440; (Hanover), XI, b 399, a 401; (Henry VI., Emperor), a b 596; (Lübeck), XV, b 33, a 34, a 35; (Saxony), XXI, a 368
—— of Blois, abbot (Glastonbury), X, *a* 602
—— of Brunswick, duke (Palatinate), XVIII, a 171
—— of Burgundy, count of Portugal, XIX, a b 555
—— of Castile, Don, senator (Rome), XX, a 815
—— of Champagne, grandmaster (Templars), XXIII, b 177
HENRY the Deacon, XI, b 600-1
HENRY of Ghent or Goethals, schoolman, XI, a 601; (Ghent), X, b 504; (Scholasticism), XXI, b 447
—— of Gorz, count (Tyrol), XXIII, a 759
—— of Guise. See GUISE
HENRY of Huntingdon, chronicler, XI, a b 601
—— of Meissen, the Illustrious, margrave (Saxony), XXI, b 368; (Thuringia), XXIII, a 353
—— of Meissen, Albertine elector (Saxony), XXI, b 369
—— the Minstrel. See HARRY THE BLIND
—— of Reuss, count (Zinzendorf), XXIV, *b* 827
—— of Prussia, brother of Frederick the Great (Austria), III, a *b* 112
—— I., of Silesia, the Bearded, XXII, b 57
—— II., of Silesia, XXII, b 57
—— of Trastamara. See HENRY II. of Castile
—— Wryneck, duke of Lancaster, XIV, b 256
——, Anderson, botanist (Horticulture), XII, *b* 220
——, Jardine (Annuities), II, *b* 73, a 76
HENRY, Joseph, physicist, XI, b 601-2; (Signal Service), XXII, b 903; (Smithsonian), a 914, *a* 915
HENRY, Matthew, commentator, XI, b 602
HENRY, Patrick, orator, XI, b 602-3; (American Literature), I, a 633; (United States), XXIII, b 785
——, Philip, divine (Henry, M.), XI, b 602
HENRY, Robert, historian, XI, a b 603
HENRY, William, chemist, XI, b 603-4
Henry, capture of Fort (United States), XXIII, a 825, b 837
"Henry Grace de Dieu," man-of-war (Navy), XVII, a 289
Henry-Martini rifle (Army), II, a 508; (Gunmaking), XI, b 249
Henry mounting, Paris (Telescope), XXIII, b 161, a 168
Henry Raspe, landgrave of Thuringia, XXIII, a 353; (Germany), X, a 441
HENRYSON, Robert, poet, XI, a 602; (Scotland), XXI, b 566
Hensen, Victor, physiologist (Ear), VII, b 513; (Embryology), VIII, a 155; (Reproduction), XX, *a* 435
HÈNSIUS, Nikolaes, novelist, XI, b 561
Hensler, Madame (Niebuhr, B. J.), XVII, b 504, b 506
Henslow crab (Crustacea) (Ill.), VI, a b 579, a 580
HENSLOWE, Philip, dramatist, XI, a b 604; (Alleyn), I, a b 514; (Jonson), XIII, *b* 751, *a* 752
Henson's aërial carriage (Aëronautics), I, b 182-3; (Flight) (Ill.), IX, b 281-2
—— pavements (Roads and Streets), XX, b 601
HENZADA, district, XI, b 604; (Tharrawaddy), XXIII, a 240
Hepatic artery (Anatomy), I, a b 793; (Digestive Organs), VII, a b 200; cells (Digestive Organs), b 200-1; vein (Anatomy), I, a 796
Hepatica, plant (Horticulture), XII, b 258
Hepaticæ, group (Biology), III, a b 601; (Botany) (Ill.), IV, b 75, b 79, a b 94, b 95, a 127, a 143, a 144, b 147; (Liverworts), XIV, b 724-5; (Muscineæ) (Ill.), XVII, b 71, a b 72, a 73-6, (Vegetable Kingdom), XXIV, a b 140
Hepatite (Mineralogy), XVI, a 417
Hepatitis, disease (Pathology), XVIII, b 405, b 406, a 407
Hepatization, gray (Pneumonia), XIX, a b 262; red (Pneumonia), *a* b 262
Hepburn, James, earl. See BOTHWELL
Hephæstia, ancient town (Lemnos), XIV, b 437
Hephæstiades, islands. See LIPARI
HEPHÆSTION of Alexandria, grammarian, XI, b 604-5
HEPHÆSTION of Macedonia, XI, b 604; (Alexander the Great), I, a 426, b 427, a b 428, a 429; (Persia), XVIII, a 596
HEPHÆSTUS, god, XI, a b 605; (Aphrodite), II, b 151; (Ares), b 427; (Fire), IX, b 201; (Hermes), XI, a 670; (Mythology), XVII, *a* 161. See Ptah, VULCAN
Hephthalites, race. See HUNS, white (Persia), XVIII, b 621, a b 622
Heppe on the history of Pietism, XIX, b 92, a 93
Hepstau, river (Brecon), IV, a 218
Heptaglott Lexicon (Polyglott), XIX, a 431
Heptagons (Numbers), XVII, b 632
Heptameron, tales (France), IX, b 574-5; (Marguerite), XV, a 546
Heptanesus, islands (Ionian Islands), XIII, b 211
Heptanomis, division (Egypt) VII, a b 608
Heptaplus (Pico), XIX, b 89
Heptarchy (England), VIII, a 197, a 244; (Monachism), XVI, a 734
Heptastadium, mole or dyke (Egypt), VII, a b 666
HERA, goddess, XI, b 605-6; (Dionysus), VII, a 217; (Hercules), XI, a b 649; (Io), XIII, a 208; (Juno), a 788; (Mythology), XVII, b 160, a 161; (Olympia), *b* 787; (Samos), XXI, b 262; (Zeus), XXIV, a 821. See JUNO
Hera of Argos, statue (Archæology), II, a b 312; *Priestesses of* (Hellanicus), XI, b 566
Heraclas, bishop of Alexandria (Origen), XVII, a b 864
HERACLEA, Latmian, town, XI, a 607
HERACLEA, in Magna Græcia, town, XI, b 606; (Rome), XX, a 764; (Numismatics), XVII, b 653, a 654; tables of (Greece), XI, *a b* 119
HERACLEA Minoa, city, XI, b 606
HERACLEA Pontica or Bender Eregli, city, XI, a 607
HERACLEA Sintica or Zervokhori, town, XI, a 607
——, Venetian, XXIV, a *b* 153. See also PERINTHUS, TRACHIS
Heracleas (Panyasis), XVIII, b 220
Heracleidæ, play (Euripides), VIII, a b 593
Heracleion, town (Candia), IV, a 708
HERACLEON, gnostic, XI, a 607; (Valentinus), XXIV, a *b* 44, b 46
Heracleotes, people (Crimea), VI, b 519. See Heraclea Pontica
Heracleotic Chersonese, peninsula (Sebastopol), XXI, a 647
Heracles, hero. See HERCULES
—— and Hesione, myth (Perseus), XVIII, b 572
Heracles Mainomenos, play (Euripides), VIII, b 593
Heraclidæ, race (Anatomy), I, *b* 701; (Greece), XI, *b* 83
HERACLIDES, Ponticus, author, XI, a 607: (Homer), XII, a 119
Heraclitean school (Logic), XIV, a *b* 791; (Socrates), XXII, b 250
HERACLITUS of Ephesus, philosopher, XI, a b 607; (Alchemy), I, a 408; (Ethics), VIII, b 507; (Evolution), b 661-2; (Logos), XIV, b 812-3; (Metaphysic), XVI, b 101; (Pythagoras), XX, a 144; (Scepticism), XXI, *a* 396; (Sophists), XXII, b 277; (Stoics), a 593; (Thales), XXIII, b 237; (Zoology), XXIV, b 858
HERACLIUS, emperor, XI, b 607-8; (Arabia), II, b 224; (Cross), VI, a 540; (Crusades), *a* 550; (George of Pisidia), X, a b 386; (Greece), XI, a b 100, a 101, a 102; (Monothelites), XVI, b 784-5; (Persia), XVIII, b 625-6
—— of Jerusalem, patriarch (William of Tyre), XXIV, a 616
Heræa, city (Numismatics), XVII, a 660
Heræum or Heraion at Argos, II, a 438; at Olympia, XVII, b 790; at Samos (Inscriptions), XIII, b 127
Heraeus of Hanau, process of (Platinum), XIX, *b* 201
Herald, officer (Knighthood), XIV, b 118; college (Libraries), a 517; (London), b 849
Herald, New York (American Journalism), XVII, a 884, b 886, a b 891; (Bennett), III, b 495; (Newspapers), XVII, a b 446
Heraldic Drawing, VII, a 386; (Costume), VI, b 414, b 415-6
HERALDRY (Ill.), XI, b 608-37
acquisition of arms, a b 610
appendages, a 633-5
birds, b 624-5
celestial figures, a 627
colleges of arms, a 612-3
common charges, a 622-8
debased heraldry, b 628
differences and marks of cadency, b 628-9
divisions of arms, a 613-5
escutcheon (Ill), b 616-7
fishes, b 625-6
flowers and fruits, b 626-7
funeral escutcheon, b 635-6
hereditary coats of arms, a 611
introduction into England, a 609
literature, b 636-7
marshalling arms, a 630-3
miscellaneous charges, b 627
ordinaries, b 617-20
origin of coats of arms, b 608
quadrupeds, b 622-4
reptiles, insects and monsters, a 626
rolls of arms, b 609
rules of blazon, b 629-30
subordinaries, b 620-2
tinctures, b 615-6
—— (Archæology), II, a 309; (Cross), VI, a 542; (Flag) (Ill.), IX, a 242-3; (Griffin), XI, a b 174; (Mer-

Heraldry, *continued*
maids), XVI, a 45, note; error in (Pelican), XVIII, a 486; Indian, North America, I, b 606; women in (Baron), III, a 335
Herapathite, chemical compound (Quinine), XX, b 191
HERAT, city, XI, a 637–9; (Afghânistân), I, a b 204, b 205, a 206, b 207, *a* 208, *a* 210, a 213, a 214, *a* 215; (Ghûr), X, *b* 509; (Jenghiz), XIII, *a* 633; (Merv), XVI, b 46, a 47; (Mirkhond), a 522; (Persia), XVIII, b 643, a 644, b 647; markets (Kandahar), XIII, b 845; routes to India (Kandahar), b 844, a 845; siege of, 1837–8 (Persia), XVIII, b 661–2
HÉRAULT, department, XI, a b 639; (Wine), XXIV, a 639; river, XI, a 639; (France), IX, b 446; (Gard), X, *a* 68
Herbage crops (Agriculture), I, a 329–37
Herball (Gerard, J.), X, b 396
Her-har, high-priest and king (Egypt), VII, a 643
HERBARIUM, XI, b 639–42
  cabinets, arrangements of, a b 640
  collecting specimens, b 640
  herbaria, b 639–40
  mounting and treating, a b 640–2
—— (Hooker, W. J.), XII, a *b* 156
HERBART, Johann Friedrich, metaphysician, XI, a 642–4; (Æsthetics), I, a 197; (Association of Ideas), II, b 610; (Categories), V, b 196; (Clarke), a b 710; (Logic), XIV, a 802–3; (Lotze), XV, a 14, *a* 15, b 16; (Psychology), XX, *a* 46, a 52, b 62, *a* 67, *a* 71, a 74, a 90
HERBELOT, Barthélemy d', orientalist, XI, a b 644; (Geber), X, *b* 112, b 113
Herberay, Nicolas de, Sire des Essarts, writer (France), IX, *a* 575; (Romance), XX, *b* 670, a 671
Herberstein, Sigismund, baron (Russia), XXI, b 100
HERBERT, Edward, Lord of Cherbury, deist, XI, b 645–6; (Deism), VII, a b 31; (Hobbes), XII, *a* 35; (Theology), XXIII, a 281
HERBERT, George, poet, XI, b 644–5; (Corinthians), VI, a 356
HERBERT, Henry William, sportsman, XI, a 645
HERBERT, Sir Thomas, traveller, XI, a b 645; (Dodo), VII, a b 279; (Kum), XIV, b 155
——, W., botanist (Hybridism), XII, a b 440, *a* 442
——, William, librarian (Company), VI, a *b* 199, *a* 200
—— hospital, Woolwich (Hospital), XII, a b 320–1
Herberton, town (Queensland), XX, a 178, b 179
Herbert Wake-Dog, count of Maine (William I.), XXIV, a 607
Herbivorous dentition (Mammalia), XV, a b 357
Herbooe, mountains (Baluchistan), III, *b* 260
Herb-Robert, drug (Geranium), X, a 395
Herbs, culinary (Horticulture), XII, a b 302; defined (Botany), IV, a 85
Herculanean papyri, XI, b 648; (Palæography), XVIII, a 150, a 151, a 156, a 167; (Papyrus), a 237
HERCULANEUM, ruins, XI, b 646–9
  antiquities of, b 647–9
  destruction of, a 647
  excavations, b 647
  history of, b 646
  papyrus library, b 648
——, Academy of, I, b 73; (Architecture), II, a 364, a 367, *b* 368; (Libraries), XIV, b 511; (Pompeii), XIX, a *b* 459; (Vesuvius), XXIV, b 212; paintings at (Archæology), II, b 320; talent from (Weights and Measures), XXIV, a 515
Herculano, Alexandre de Carvalho, historian (Portugal), XIX, b 568, *b* 569, a *b* 573
HERCULES or Heracles, hero, XI, a 649–50; (Ajax), I, b 383; (Amazons), b 576; (Antæus), II, a 89; (Augeias), III, b 62; (Busiris), IV, b 513–4; (Eubœa), VIII, a 569; (Games), X, b 57, b 58; (Hebe), XI, a 530; (Herculaneum), b 648 note; (Hesperides), b 695; (Marathon), XV, a 535; (Nereus), XVII, a *b* 355; (Perseus), XVIII, b 572; baths of (Eubœa), VIII, b 568–9; (Mehádia), XV, b 839; statuette of (Lysippus), XV, b 121; temple of (Pompeii), XIX, a 462; Tyrian (Phœnicia), XVIII, a 820, b 822–3
Hercules, princes. See Este.
Hercules, poem (Sweden), XXII, b 792–3
——, *Les prouesses du preux* (Romance), XX, b 655
—— *Musagetes* from Ambracia (Terra-Cotta), XXIII, b 210
——, *Shield of* (Hesiod), XI, a 695
—— cotton factory (Querétaro), XX, b 182
—— hammer (Anchor), II, a 7; XI, a 380
Hercynian gneiss (Geology), X, a 290
—— mountains (Austria), III, a 101
Hercynite (Mineralogy), XVI, a 402
Herd, David, author (Fergusson, R.), IX, b 77
HERDER, Johann Gottfried von, XI, a 650–2; (Æsthetics), I, a 196; (Canticles), V, a b 31; (Epigrams), VIII, a 424; (Erlkönig), a 465; (Evolution), b 666; (Freemasonry), IX, a 660; (Germany), X, a b 480, a 481; (Goethe), a 643, *a* b 645, b 646, b 651, a 656; (Hofmann), XII, b 49; (Jesus Christ), XIII, b 682, a 683; (Kant), b 854, b 855, a 856; (Rationalism), XX, a b 302, a 303; (Variation), XXIV, b 83; (Weimar), a *b* 519
Herderite (Mineralogy), XVI, a 425
Herder's Hill (Saxe-Weimar), XXI, b 364
Herdman, W. A., naturalist, (Tunicata), XXIII, b 647, b 648, a 650, *b* 656, b 658. See List of Contributors.
Herdwick sheep (Agriculture), I, a 349; (Cumberland), VI, a 617
Hereditaments, incorporeal (Tithes), XXIII, b 439
Hereditary, old meaning of (Peerage), XVIII, b 473
—— chieftainship (New Caledonia), XVII, a 386
—— duke, title (Prince), XIX, b 757
—— hierarchy, Jewish (Priest), XIX, a b 748
—— labor (Slavery), XXII, b 143–4
—— monarchy abolished (Poland), XIX, a b 300, b 303–4, a 305
—— office (Sheriff), XXI, a b 837
——privilege of the Peerage, XVIII, a 469–71
—— succession (France), IX, a 472, a 474; (Nobility), XVII, a 538, a 541, a b 543; (Socialism), XXII, b 230; to caliphate (Mohammedanism), XVI, b 612
Heredity (Acclimatization), I, b 82–3; (Biology), III, b 594–5; (Breeds), IV, *b* 219–22; (Cancer), b 707; (Deaf and Dumb), VII, a b 6–7; (Epilepsy), VIII, a 427; (Ethnography), b 540; (Gout), XI, a b 8; (Insanity), XIII, b 102–3; (Instinct), a 164, b 165–6; (Longevity), XIV, b 869, *a* 870; (Reproduction), XX, b 433–4; (Throat Diseases), XXIII, a 341; experience influenced by (Psychology), XX, b 49–50; molecular view of (Atom), III, b 38; movement arising from (Psychology), XX, b 48 note; sinful (Calvin), IV, a 637
Heredium, tenure (Land), XIV, a 261; (Roman Law), XX, *b* 690, note, a 691, a 692, a 694, a 695 note
HEREFORD, county (Plate XIV), XI, b 652–4
——, city, XI, *b* 653–4; (Libraries), XIV, a 518, a 544; (Newspapers), XVII, a 432
—— cattle (Agriculture), (Ill.), I, a b 344
——, Henry, duke of. See Henry IV.
——, Nicolas, theologian (Lollards), XIV, *a* 820; (English Bible), VIII, a 343; (Wycliffe), XXIV, a 746
——, Roger Fitz-Osbern, earl of (England), VIII, b 263; (Justice), XIII, a 798; (William I.), XXIV, b 607
——, William Fitz-Osbern, earl of (England), VIII, a 263
Heregeld, tax (England), VIII, b 265 note
HERENCIA, town, XI, b 654
Herény Observatory, XVII, b 733
Herer, town. See HARAR
Herero Dictionary, VII, b 167
HEREROLAND, territory, XI, b 654–5. See Damara land
Heresies, Against (Irenæus), XIII, b 279, b 280
Heresium Refutatio (Hippolytus), XI, b 762, a 763
HERESY, XI, a 655–60
  canon law, a 657–8
  civil law, a 658
  English law, b 659–60
  New Testament terms, a 655
  principal heresies, b 658–9
  theological sense of the term, b 655–7
—— (Canon), V, b 7–8; (Docetæ), VII, a 269; (Dogmatic), b 294; (Gnosticism), X, b 625; (Innocent III.), XIII, b 90; (Inquisition), a b 98; (Languedoc), XIV, a b 288; (Pastoral Epistles), XVIII, b 355–6; (Severus), XXI, b 735; (Tatian), XXIII, b 87; (Templars), a 181; (Torture), *b* 492, a 493, b 494, *a* 495; (Walch), XXIV, a 342; (Witchcraft), a 653–4; first statutes against (England), VIII, a b 292; law of, XI, a 657–60; (Hobbes), XII, a 41; mediæval (Reformation), XX, b 334–5; (Renaissance), b 394; progression of (Jesus Christ), XIII, a 681–2; rarity of early (England), VIII, b 291
Heretical books (Index Librorum Prohibitorum), XII, b 768
Hereward, revolt of (England), VIII, a 263
HERFORD, town, XI, b 660
Hergenröther, Joseph, cardinal (Photius), XVIII, b 834
Hergest, Red Book of (Celtic Literature), V, a 273, *a b* 274, b 275, a 276, b 278, b 280
Heri, city (Herat), XI, a 637–9
Heribert of Milan, archbishop (Italy), XIII, b 480
Hericourt, battle, 1871 (Montbéliard), XVI, a 804
Herillus of Carthage, philosopher (Stoics), XXII, a 590, *b* 597
Hering, Ewald, physiologist (Physiology), XIX, b 25
Heriot, perquisite, (Copyhold), VI, a 316
HERIOT, George, goldsmith, XI, b 660; his hospital (Edinburgh), VII, *a* 578
Heri-rúd river (Herat), XI, a b 637; (Merv), XVI, b 46, b 47, a 48; (Meshed), a 51; (Transcaspian), XXIII, *a* 545
HERISAU, town, XI, b 660–1; (Switzerland), XXII, b 816, b 817
HERITABLE JURISDICTIONS, law-term, XI, a 661
Heritage, Scotch (Inheritance), XIII, b 84
HERLEN, Fritz, painter, XI, a 661
Herlewin, abbot (Glastonbury), X, a 602

Herm, island (Channel Islands), V, a b 349
Hermæus, Greek king in India (Persia), XVIII, b 610, a 611
Hermagoras of Temnos, rhetorician (Rhetoric), XX, b 528
Hermandad, union (Spain), XXII, a 333
Hermanfried, king (Germany), X, a b 428
Herman Law, mountain (Selkirk), XXI, a 670
HERMANN, chronicler, XI, a b 661
—— or Arminius, warrior (Germanicus), X, b 400; (Germany), b 426, *a* 427, a 467
—— Alemannus, translator (Arabian Philosophy), II, a 237
—— Billung or Bilburg of Saxony, duke (Germany), X, a 434; (Saxony), XXI, b 367
——, Carl, painter (Cornelius), VI, b 374
—— of Cologne, bishop (Charles V.), V, b 360; (Luther), XV, b 84
HERMANN, Friedrich Benedict Wilhelm von, economist, XI, b 661–2; (Political Economy), XIX, a 401
——, Jean, naturalist (Stereoscope), XXII, b 566
HERMANN, Johann Gottfried Jakob, philologist, XI, b 662; (Homer), XII, b 120, a 125; (Porson), XIX, a 538, b 539; (Sophocles), XXII, b 287
——, Joseph, chronicler (Ursula), XXIV, b 18
HERMANN, Karl Friedrich, philologist, XI, a 663; (Plato), XIX, b 223
Hermann of Luxembourg, anti-king (Henry IV., Emperor), XI, b 595
Hermann of Perigord, master (Templars), XXIII, a 178
Hermannite (Mineralogy), XVI, a 436
HERMANNSTADT, town, XI, a 663
Hermann und Dorothea, poem (Germany), X, b 482; (Goethe), X, a 652
Hermanric, king (Goths), X, a 754
Hermanubis, deity (Anubis), II, a 129
Hermaphrodites, Les (Pamphlets), XVIII, b 209
Hermaphroditism (Annelida), II, *a* 60, *a* b 62; (Arachnida), a 239, b 241; (Echinodermata), VII, a 550; (Insects), XIII, a b 132; (Mollusca) (Ill.), XVI, b 682, a 683, b 684, b 685–6; (Medical Jurisprudence), XV, b 789; (Monster), XVI, b 790; (Nematoidea), XVII, b 334; (Planarians), XIX, b 184; (Sagitta), XXI, *b* 156
—— in flowers (Botany), IV, b 114, a 122, b 126; (Horticulture), XII, b 219
Hermarchus, philosopher (Epicurus), VIII, a *b* 420
Hermas (Apostolic Fathers), II, a b 171, a 173
——, *Pastor* or *Shepherd of* (Canon), V, b 8, *a* b 9; (Gospels), X, a 725, a 730
——, river (Mesopotamia), XVI, b 52
Hermeas, patron of Aristotle, II, a 450; (Eunuch), VIII, b 585; (Troad), XXIII, a 617
Hermeneutik des Rechts (Zachariæ), XXIV, b 800
HERMENEUTICS, biblical, XI, b 663–9
  dependent, b 666–7
  Hellenistic Jews, b 664
  historical, b 667–8
  humanists, a 668
  Karaites and Kabbalists, a 665
  literature, b 669
  modern state of, a 668–9
  New Testament, b 665
  occasion for the art, b 663
  rabbinical, a 664–5
  reformers, a b 668
  subjective, b 665–6

—— (Bengel), III, a 494; (Cocceius), VI, b 84; (Ernesti), VIII, b 466; (Kabbalah), XIII, a b 822. See Criticism
Hermenopulos, Constantinus, jurist (Basilica), III, a 362
HERMES, gods, XI, a b 670; (Io), XIII, a 208; (Mercury), XVI, a 36; (Mythology), XVII, a 160, a 161; busts of (Alcibiades), I, b 414. See MERCURY
Hermes, treatise (Harris), XI, a 441
HERMES, Georg, theologian, XI, b 670–1
HERMESIANAX, poet, XI, b 671
Hermes of Praxiteles (Olympia), XVII, b 790; (Praxiteles), XIX, b 680
HERMES TRISMEGISTUS, XI, a b 671; (Alchemy), I, b 408, b 409; (Fire), IX, a 201
Hermes Trismegistus (Longfellow), XIV, b 872
Hermetic books (Hermes Trismegistus), XI, a b 671
Hermetics. See ALCHEMY
Hermias, tomb of (Glass), X, a 578, note
Herminia putting on Clarinda's armor (Van Dyck), XXIV, a 70
Herminones, tribes (Germany), X, *a* 425
Hermippus of Athens, poet (Pericles), XVIII, b 543
—— of Smyrna, author (Isocrates), XIII, b 399
Hermitage, art gallery (Neer, Van der), XVII, a 324
—— bay (Newfoundland), XVII, a 392
—— castle (Roxborough), XXI, a 40
—— Palace, St. Petersburg (Libraries), XIV, a 533; (Terra-Cotta) (Ill.), XXIII b 208, a 212
—— Wines, XXIV, a 639
Hermit Crabs, VI, a 478; (Crustacea) (Ill.), VI, a 562, b 563, b 566, a 567, b 569, a 570, *b* 577
Hermite, Charles, mathematician (Squaring the Circle), XXII, *b* 453
Hermit Friars, Minor (Capuchins), V, b 71
—— of St. Damiano (Celestines), V, b 253
Hermits (Hilarion, Saint), XI, b 725; (Jerome), XIII, a 641; (Monachism), XVI, b 725; (Pueblo Indians), XX, b 889. See Anchorites, Eremites
"Hermits," birds (Humming-Bird), XII, a b 373, a 374
Hermocrates of Syracuse, statesman (Sicily), XXII, b 22; (Syracuse), b 853, *a* b 854
Hermodactyl, drug (Colchicum), VI, a 114
Hermodorus, architect (Archæology), II, a 321
HERMOGENES of Tarsus, rhetorician, XI, b 671–2; (Demosthenes), VII, a *b* 65; (Rhetoric), XX, a 529
Hermogenian code (Justinian I.), XIII, a 801; (Roman Law), XX, *a b* 731
Hermolaus Barbarus, diplomatist (Latin), XIV, b 342
HERMON, mountain, XI, a 672; (Lebanon), XIV, b 392, b 394
——, Little, mountains, XI, a 672; (Palestine), XVIII, a 176
Hermonthis or Arment, village (Egypt), VII, b 678
Hermopolis or Syra, town (Greece), XI, b 76, b 77, a 79, a 80
——, town (Syria), XXII, *a* 852
—— Magna or El-Ashmooneyn, city (Egypt), VII, *b* 622, a 672
HERMOSILLO, town, XI, a 672
Hermotimus, dialogue (Lucian), XV, a b 47
HERMSDORF, town, XI, a b 672
Hermunduri, tribes (Thuringia), XXIV, b 352
Hermus or Gedisz Tchai, river (Asia Minor), II, a b 617, b 618; (Ionia), XIII, a b 211; valley (Sardis), XXI, *a* b 325
Hernandez, Francisco, naturalist (Mexico), XVI, b 214
HERNIA, disease, XI, b 672–4; (Cooper, Sir A. P.), VI, a 299; congenita (Hunter, W.), XII, a 408; history of operations for (Surgery) XXII, a 709, *b* 710, b 711
Hernicans or Hernici, tribes (Italy), XIII, b 454; (Latium), XIV, b 345; (Rome), XX, a b 758, a *b* 759, *a* 760, a 761, b 764, note
HERNOSAND, town, XI, a 674
Hernser, bird (Heron), XI, b 679, note
Hero of Alexandria. See HERON
HERO AND LEANDER, legend, XI, a 674; (Manutius), XV, a 520; (Musæus), XVII, b 70
——, poem (Marlowe), XV, a 565
"Herod" (Horse), XII, a b 188
HEROD I., the Great, XI, a 674–5; (Agrippa), I, *b* 370; (Damascenus, N.), VI, a 696; (Hunting), XII, b 408; (Israel), XIII, *a* 135–6; (Jericho), b 640; (Jerusalem), b 648, a 652; (Jesus Christ), b 671–2, note; dynasty of (Persia), XVIII, a b 613; palace of (Pilate), XIX, a 98; Temple of, XXIII, a 184–5, b 186
HEROD AGRIPPA, I, b 370; (Acts of the Apostles), a 117; (Israel), XIII, *b* 436, note, a 437, b 439; (James), a b 564
HEROD AGRIPPA II., king of Chalcis, I, b 370
HEROD ANTIPAS, XI, a b 675; (Agrippa), I, *b* 370; (Israel), XIII, a 436; (Jesus Christ), a 679; (John the Baptist), b 720
HEROD PHILIP, tetrarch, XI, b 675
Herodes Atticus, rhetorician (Canosa), V, b 22; (Olympia), XVII, a 790, a b 791; (Theatre), XXIII, b 242
Herodian family (Tetrarch), XXIII, b 217–8
HERODIANS, sect, XI, b 675
Herodian or Erotian, physician (Dictionary), VII, b 158
HERODIANUS, historian, XI, b 675–6; (Severus, L. S.), XXI, b 734
HERODIANUS, ÆLIUS, grammarian, XI, a 676; (Gloss), X, a 612; (Grammar), XI, a 39; (Numerals), XVII, b 640
Herodias, queen (Herod Antipas), XI, a b 675
Herodiones, order of birds (Ornithology), XVIII, b 50
Hérodote, Apologie pour (Stephens), XXII, b 562, b 563
HERODOTUS, historian, XI, a 676–9
  birthplace and education, a b 676
  colonist, b 677
  Greece, visits, a 677
  history, the, b 677–8
  modern bibliography, b 678
  travels, b 676–7

—— (Africa), I, b 219, a 220; (Babylon), III, *a b* 158; (Babylonia), a 160; (Battus), b 385; (Brewing), IV, a 236; (Cambyses), *a b* 648, a 649; (Caspian Sea), V, b 153–4; (Chronology), a 616; (Circumcision), *b* 690, a 691; (Cleomenes), b 720; (Crœsus), VI, b 525–6; (Cyrus the Elder), b 663; (Dorians), VII, *b* 317, *a* 318; (Embalming), VIII, a b 146; (Esther), b 494, a 495; (Ethnography), a 550; (Geography), X, b 157; (Greece), XI, *b* 119, *a* 120, *a b* 126; (History), XII, a b 22; (Homer), *a b* 112, a 114; (Ionia), XIII, b210; (Libya), XIV, a *b* 554; (Mas'údy), XV, a 630; (Metempsychosis), XVI, b 111; (Money), b 750; (Mysia), XVII, *a* 130; (Mythology), b 157, a 158; (Papyrus), XVIII, b 235, a 236; (Persia), b 573, a b 674, a b 575, notes, a b 576, a b 577, a b 579, a 580, b 581,

Herodotus, *continued* a 582, b 583, b 584; (Pygmies), XX, b 126; (Scythia), XXI, *a b* 602, notes, *a* 603, *a b* 604, *a* b 605; (Slavs), XXII, *b* 154; (Solon), b 268; (Sophocles), a 284; (Thucydides), XXIII, b 343, a 344, a b 346; (Zoroaster), XXIV, b 862; on Egyptian Architecture, II, *a* 337, a b 338, b 339; on people of Asia Minor, b 621-2
Herodotus On the Ill-nature of (Plutarch), XIX, b 246
Heroicas (Drama), VII, b 364
Heroic myths (Mythology), XVII, b 164-5
Heroicon (Philostratus), XVIII, b 810
Heroic poetry, Castilian (Spain), XXII, a b 367
Heroic Stanzas (Dryden), VII, b 421, a 422, a 423
Heroic tales, Irish (Celtic Literature), V, b 269-70
—— tragedy (Drama), VII, a 376; (Dryden), b 423-4
Heroïdes (Ovid), XVIII, a 82, b 83, b 85, a b 86, b 87
Herold, Johann Basil, historian (Salic Law), XXI, *a* 224
HÉROLD, Louis Joseph Ferdinand, musician, XI, a 679
——, Maurice, biologist (Embryology), VIII, b 155
HERON, bird (Ill.), XI, b 679-81; (Birds), III, b 617, a 631, b 632, b 633, b 635, a b 669; (Ornithology), XVIII, a 35; (Phœnix), a 824; (Zoology), XXIV, b 924; hawking (Falconry), IX, a b 10
HERON or Hero of Alexandria, mathematician, XI, a 679; (Organ), XVII, b 860; (Steam-Engines)(Ill.), XXII, a b 490
HERON the Younger, mathematician, XI, a b 679
——, Robert, historian (Burns), IV, a 506
Heronries, XI, a 680
Heroön, ruins (Olympia), XVII, a 789
Heroöpolis, town (Rameses), XX, b 277, a 278
Hero-Oracles, XVII, a 832
Herophilus, physician (Anatomy), I, a b 703; (Medicine), XV, b 811; (Phrenology), XVIII, a 857, b 859; (Surgery), XXII, b 708
Hero-worship (Hottentots), XII, a b 325; (Japan), XIII, a b 590
Herpes, disorder (Skin Diseases), XXII, a 131; in febrile attacks (Pathology), XVIII, b 407
Herpestes, genus (Ichneumon), XII, a b 665; (Mammalia), XV, a 443
Herpetology (Reptiles), XX, a 444-87
Herpeton, genus (Reptiles), XX, b 458
Herrengrundite (Mineralogy), XVI, b 419
Herrenhaus or House of Peers (Prussia), XX, b 22
HERRERA, Fernando de, poet, XI, b 681
HERRERA, Francisco, painter, XI, b 681-2; (Velazquez), XXIV, a 144
HERRERA, el Mozo, Francisco, painter, XI, a 682
——, Juan de, architect (Architecture), II, b 386; (Escorial), VIII, *b* 477
——, Spanish beneficiary (Jovius), XIII, b 766
HERRERA Y TORDESILLAS, Antonio de, historian, XI, a b 682; (India-Rubber), XII, a 876
Herreros, Manuel Breton de los, dramatist (Spain), XXII, b 375
Herreshof's boiler (Steam-Engines), XXII, a 520
HERRICK, Robert, poet, XI, b 682-3; (Pastoral), XVIII, b 352
Herries, Lord, statesman (Mary Stuart), XV, b 603, b 605
HERRING, fish, XI, a b 683; (Ichthyology), XII, a b 698, b 702, note, b 732; (Shad), XXI, a 763; (Whitebait), XXIV, *b* 581, *a* 582; fresh-water (Powan), XIX, b 670; (Salmonidæ), XXI, a b 234
Herring-bone work (Building) (Plate XX), IV, b 412
Herring-fisheries, IX, *b* 211, a *b* 213, b 217, b 218-20, a 224-8, b 229, *a b* 230, a 231, b 232, *a* 234; (Fraserburgh), a 638; (Holland), XII, b 70, a 75, a 76; (Hoorn), b 159; (Inverary), XIII, b 204; (Newfoundland), XVII, b 393, a 394; (Orkney), a b 872; (Sweden), XXII, b 779-80; (Yarmouth), XXIV, *b* 765
Herrings, day of the, 1429 (France), IX, a 485
HERRNHUT, town, XI, b 683; (Moravian Brethren), XVI, a 838; (Zinzendorf), XXIV, b 827, *a* 828
Herschel, district (Cape Colony), V, b 37, b 42
Herschel, Alexander S. (Astronomy), II, b 713; (Aurora), III, b 81, b 86
HERSCHEL, Caroline Lucretia, astronomer, XI, b 683, *a* b 684, b 685
HERSCHEL, Sir Frederick William, astronomer, XI, a 684-6; (Astronomy), II, a 662, a 685, b 687, b 700, a b 704, *a b* 710, a 711, b 716, b 717, a b 719; (Buckingham), IV, b 373; (Micrometer), XVI, a 252; (Nebular Theory), XVII, b 320-1; (Observatory), b 731; (Photometry), XVIII, b 854-5; (Radiation), XX, a 220; (Rosse), b 878; (Telescope), XXIII, a b 150
HERSCHEL, Sir John Frederick William, astronomer, XI, *a* 686-8; (Astronomy), II, a 688, a 693, *b* 718, a b 719, b 720; (Atmosphere), III, b 26; (Atoms), a b 44; (Cape Colony), V, a 44; (Egypt), VII, a 669 note; (Geology), X, b 194; (Microscope), XVI, b 270; (Mill, J. Stuart), b 323, b 325; (Mint), b 503; (Observatory), XVII, b 731, b 736; (Optics), a b 828; (Photography), XVIII, a 837, b 847; (Photometry), a b 855; (Probability), XIX, b 788, note, b 789, note; (Telescope), XXIII, b 152, a 158, a 160; (Wave Theory), XXIV, *b* 450, b 455, a 462, note, a b 476
Herschelian reflector (Telescope) (Ill.), XXIII, a 158
Herschelite (Mineralogy) (Ill.), XVI, a 440
HERSENT, Louis, painter, XI, a 688
HERSFELD, town, XI, a b 688
Hersir, magistrate (Norway), XVII, a 599
Hersleb, Peder, author (Norway), XVII, a 604
HERSTAL or Heristal, town, XI, b 688
Herstelle, village (Herstal), XI, b 688
HERTFORD or Herts, county (Plate XV), XI, b 688-90; town, XI, *b* 689, *a* b 690; (Libraries), XIV, a 544
—— College (Oxford), XVIII, b 100
Hertha, goddess (Heligoland), XI, a 564
Hertogenbosch, town (Brabant), IV, a 169. See BOIS-LE-DUC
Hertslet, Sir Edward, jurist (Treaties), XXIII, b 564 note, a b 565, a 566
Hertwig, Oskar, zoologist (Hydrozoa), XII, b 583, b 584, b 585 note, a b 588, note; (Parasitism), XVIII, a 274, note; (Protozoa), XIX, a 860; (Reproduction), XX, a b 428, *a* 430, note, a 435
——, Richard, biologist, (Hydrozoa), XII, b 583, b 584, b 585 note, a b 588, note; (Protozoa), XIX, a 860
HERTZ, Henrik, poet, XI, b 690-1; (Denmark), VII, b 81
HERTZEN or Herzen, Alexander, author, XI, a b 691; (Russia), XXI, a 116, a 117
HERULI, tribe, XI, b 691-2; (Lombards), XIV, b 822. See ODOACER
Hervard, Jehan, farrier (Veterinary Science), XXIV, b 214
Hervey archipelago (Cook's Islands), VI, b 294; (Williams), XXIV, a 618
——, Henry, officer (Johnson, S.), XIII, a 731, a 732
HERVEY, James, divine, XI, a 692; (Methodism), XVI, a 193 note
HERVEY, John, Lord, XI, a b 692; (Pulteney), XX, *b* 109
Herwart ab Hohenburg, Johann Georg, mathematician (Napier), XVII, b 189-90; (Tables), XXIII, a 12
Herwegh, Georg, poet (Germany), X, a 488
"Herzega" (Herzegovina), XI, b 693
HERZEGOVINA, province, XI, b 692-4; insurrection of, b 692, b 693-4; Austrian acquisition of (Turkey), XXIII, a b 693
Herzog, Edward, bishop, *d.* 1886 (Episcopacy), VIII, b 436; (Old Catholics), XVII, b 777
Herzogs, leaders (Germany), X, a 426, b 428, b 432; rise of (Saxony), XXI, a b 367
Hes, goddess (Egypt), VII, b 619, b 621
Hesargrad, town. See RASGRAD
HESEKIEL, George Louis, author, XI, a 694
He-shang Hoo, lake (China), V, a 551
Heshbon, city (Moab), XVI, b 557 notes
He Shuy, valley (Huc), XII, b 342
HESIOD, poet, XI, a 694-5; (Adam), I, b 126; (Age), a 249; (Astrology), II, b 646, a b 647; (Flaxman, J.), IX, b 261; (Greece), XI, a b 122, a *b* 123; (Harpies), *a* 439; (Hecate), *b* 543; (Homer), XII, a 114; (Hymns), a 612; (Manes), XV, a b 485; (Mythology), XVII, b 160, a b 161, a 162; (Prometheus), XIX, b 829, *a* 830, a 831; (Virgil), XXIV, *a* 271; (Zeus), *a* 821
Hesiri, god (Egypt), VII, b 619, a *b* 621. See Osiris
Hesketta, Charles, divine (Southport), XXII, a 305
Hesperidæ, family (Plate XXIX) (Butterflies and Moths), IV, a 530
HESPERIDES, myths, XI, a b 695
Hesperides (Herrick), XI, *b* 682, a 683
Hesperidin (Histology), XII, a 15; (Lemon), XIV, b 438
Hesperidium, fruit (Botany), IV, 138
Hesperis, genus (Botany), IV, a b 142; (Horticulture), XII, a 256, b 258
Hesperomys, genus (Mouse), XVII, a 12
Hesperornis, fossil (Ornithology,) XVIII, b 40, a 41, a 49; (Zoology), XXIV, b 925
Hesperus Lamp, XIV, b 247
HESS, Heinrich, Maria, von painter, XI, b 695
——, Johann Jacob, theologian, (Jesus Christ), XIII, b 682, a 683
HESS, Karl, painter, XI, a 696
——, Karl Ernst C., engraver, XI, b 695
HESS, Peter, painter, XI, b 695-6
HESSE or Hessia, country, XI, a b 696; Protestant constitution of (Luther), XV, b 81; statistics of (Germany), X, a 403, b 404, a *b* 405, a 406, a b 408, a b 409, b 411, b 413, a b 417, a 418, *b* 421
HESSE-CASSEL, duchy, XI, b 696; (Hanau), *b* 387; (Hassenpflug), b 456-7; constitutionalism in (Germany), X, a b 456
HESSE-DARMSTADT, duchy, XI, b 696-7; (Registration), XX, a 355
HESSE-HOMBURG, province, XI, b 697
Hessels, J. H., antiquary (Typography), XXIII, b 727, b 733. See List of Contributors
Hesse-Nassau, province, XI, a 696; (Prussia), XX, a b 18, a 19, *b* 20
Hesse-Philippsthal, province, XI, a 696

Hesse, Louis, prince of (Gaeta), X, a 14
Hessian Curve, VI, a 636, *a* 637
HESSIAN-FLY, XI, b 697–8; (Diptera), VII, b 223; (Wheat) (Ill.), XXIV, b 565–6
Hessian of a function (Infinitesimal Calculus), XIII, a 36
Hessians, soldiers (Hesse-Cassel), XI, *b* 696
Hessite (Mineralogy), XVI, a b 408
HESSUS, Helius Eobanus, humanist, XI, a 698
HESTIA, goddess, XI, a b 698; (Fire), IX, a 200; (Vesta), XXIV, a b 209, a 211
——, butterfly (Distribution), VII, b 236
Hestiæotis, district (Thessaly), XXIII, a 320
Hesus, god of Druidism, VII, b 412, a *b* 413
HESYCHASTS, sect, XI, b 698–9
HESYCHIUS of Alexandria, grammarian, XI, a 699; (Dictionary), VII, b 158; (Gloss), X, a 642
—— of Athens, priest (Areopagus), II, b 424
—— of Byzantium, historian (Socrates), XXII, b 251
—— of Miletus, author (Septuagint), XXI, b 701, note
Hetaerists, insurrectionists (Roumania), XXI, a 26
Hetairæ, group (Butterflies), IV, a 530
Hetarism (Consanguinity) VI, a 260
Hetch-Hetchy, valley (California), IV, a 619, a 620
Heteracanth (Ichthyology), XII, b 674
Heteræcism (Botany), IV, b 147
Heterauxesis of plants (Physiology), XIX, *b* 65–6, *b* 67, a b 71
Heterobranchus, genus (Siluridæ), XXII, b 74
Heterocera, group (Butterflies), IV, a 527; (Insects), XIII, b 157 *sq.*
Heterococcyx, genus (Birds), III, a 662
Heterocœla, order (Sponges), XXII, a b 437, b 438–9, b 444
Heterodont dentition (Mammalia), XV, a 355
Heterogeneity (Magnetism), XV, a 245
Heterogeneous strain (Mechanics), XV, b 700, a 704
Heterogenesis (Abiogenesis), I, a b 51
Heterolepidina, sub-order (Ichthyology), XII, a 718, b 719, a 729
Heterolepidotidæ, family (Ichthyology), XII, a 729
Heteromastigoda, order (Protozoa), XIX, b 881
Heteromera, group (Coleoptera), VI, a b 120; (Insects), XIII, b 155
Heteromonadina, sub-order (Protozoa), XIX, a 881
Heteromorphæ, group of birds (Hoactzin), XII, a 31; (Ornithology), XVIII, a 40
Heteromya, order (Mollusca), XVI, a 711
Heteromyinæ, sub-order (Mammalia), XV, b 424–5
Heteropegma, genus (Sponges) (Ill.), XXII, a b 429, a 439, a 444
Heterophasia, disorder. See APHASIA
Heterophrys, genus (Protozoa) (Ill.), XIX, a 866, b 867
Heteropola homostaura (Morphology), XVI, a 871
Heteroptera, group (Insects), XIII, b 159
Heteropygii, genus (Ichthyology), XII, b 731
Heterosite (Mineralogy), XVI, b 387, a 422
Heterostaura, organic forms (Morphology), XVI, a 871
Heterostegina, group (Foraminifera) (Ill.), IX, *a* 336, b 338
Heterotis, genus (Ichthyology), XII, b 711, b 732
Heterotricha, order (Protozoa), XIX, *a* b 888
Hettner, Hermann Jules Theodor, historian (Germany), X, a 487, b 488; (Shaftesbury), XXI, b 770
HETTSTADT or Hettstedt, town, XI, a b 699
Heuen-Chow, city. See T'UNG CHOW
Heuen-tsang, traveller. See HWEN T'SANG
HEUGLIN, Theodor von, traveller, XI, b 699; (Ibis), XII, b 641, a 642; (Ostrich), XVIII, b 65, note, b 66, note; (Tinné), XXIII, a b 431
Heulandite (Mineralogy) (Ill.), XVI, a 387, b 389, b 440
Heumann, Carl, physicist (Flame), IX, b 246, a *b* 247, a b 248
Heung nu, people (Huns), XII, b 397; (China), V, a *b* 559, a *b* 560; (Turks), XXIII, b 700–1
Heun-Tsung, emperor (Drama), VII, a 346
Heusch, Jacob de, painter XI, a 700
HEUSCH, Willem, painter, XI, b 699-700
Heuze's process (Gelatin), X, a 120
Heuzey, Léon, antiquary (Terra-Cotta), XXIII, b 212
Hève, Cap de la (Seine Inférieure), XXI, a 657
Hevea brasiliensis, plant (India-Rubber) (Ill.), XII, b 876–7
HEVELIUS, Johann, astronomer, XI, a 700; (Astronomy), II, a b 659, a 660, a 686, *b* 700, a 712, a 715; (Halley), XI, b 354, a 355
Hēwath Hekhmĕthā (Syriac Literature), XXII, b 898
Hewers, miners (Coal), VI, b 62
Hewitt, T., divine (Porson), XIX, b 537
Hewson, William, physician (Anatomy), I, a 715
Hexacoralla, group (Actinozoa), I, *b* 120, *a* 121; (Corals), VI, b 329
Hexactinellida, sub-class (Sponges), XXII, b 431, b 432, a b 434, a b 437–8, a 439, *a b* 444, a 445
Hexad elements (Chemistry), V, b 409, a 410
Hexaemeron (Physiologus), XIX, b 10
Hexagon inscribed (Geometry), X, a 340, b 355-6, a 357, b 369
Hexagonal rifling (Gunmaking), XI, a 250
—— system of crystals (Mineralogy), XVI, b 371–a 373
Hexagram, coin (Numismatics), XVII, a 672
——, Pascal's, mathematical proposition (Maclaurin), XV, b 162
Hexahedron (Geometry), X, *a* 346
Hexakisoctahedron (Mineralogy) (Ill.), XVI, a 364, a 165, a 368
Hexakistetrahedron (Mineralogy) (Ill.), XVI, *a* 368
Hexameter, verse (Horace), XII, a 168; (Latin), XIV, a 331, b 332, b 335; (Sweden), XXII, b 792. See Metres
Hexamitus, genus (Protozoa) (Ill.), XIX, a 882, a 883
Hexapla of Origen (Bible), III, a 559; (Origen), XVII, a 865; (Polyglott), XIX, a 431; (Septuagint), XXI, a b 701, note
Hexapolis, Dorian confederacy (Cnidus), VI, a 43; (Halicarnassus), XI, b 342
Hexaprotodon, fossil (Swine), XXII, a 811
Hexateuch, The (Israel), XIII, b 411, note; (Pentateuch), XVIII, a b 517, b 523
HEXHAM, town, XI, a b 700; (Northumberland), XVII, b 580, b 581, a 582, b 583
Heydebrandt und der Lasa, von (Chess), V, a 520, a 523, *a* 524
HEYDEN, Jan van der, painter, XI, b 700; (Neer), XVII, a 324
Heyduk, Adolf, poet (Slavs), XXII, a 162
Heyduke, towns (Hajdúk), XI, a 337
Heyer, physiologist (Sex), XXI, *a* 758
HEYLIN, Peter, polemic, XI, a 701; (Fuller, T.), IX, a 716; (Knighthood), XIV, b 123–4, note
HEYNE, Christian Gottlob, archæologist, XI, a 701–2; (Agrarian Laws), I, a 257; (Germany), X, b 478; (Goethe), X, a 653; (Wolf), XXIV, a 663; (Wyttenbach), *a b* 750
Heyse, Paul, novelist (Germany), X, b 487
HEYWOOD, town, XI, a 702
——, Jasper (Drama), VII, a 370
HEYWOOD, John, epigrammatist, XI, a b 702; (Drama), VII, b 359; (Fool), IX, b 320
HEYWOOD, Thomas, dramatist, XI, b 702; (Drama), VII, a 372, b 373
Hezár Afsáne, tales (Thousand and One Nights), XII, *a* b 337, *a* 338, note
HEZEKIAH, king, XI, b 702–3; (Egypt), VII, b 643; (High Place), XI, b 724; (Hosea), XII, a *b* 309; (Israel), XIII, a 423–5; (Micah), XVI, a b 233; (Pentateuch), XVIII, a 520; (Philistines), b 769, a 770; (Proverbs), XIX, *a* 905; Pool of (Jerusalem), XIII, a 650
Hezronites, tribe (Judah), XIII, b 770
Hi, monastery of (Ireland), XIII, a 255, b 256. See Hy and Iona
Hiang Kiang, town. See HONG KONG
Hiawatha, myth (Schoolcraft), XXI, b 450
Hiawatha, poem (American Literature), I, b 641-2; (Finland), IX, b 191; (Longfellow), XIV, a 872, b 873
Hibbert, Samuel, physician (Apparitions), II, a 180
HIBERNATION, XI, b 703–5; (Birds), III, b 663; (Gecko), X, a 114; (Hunter, J.), XII, b 401, a 402, note; (Ichthyology), a 704; (Marmot), XV, a b 567, a 568
Hibernicus exul, poet (Ireland), XIII, b 256
Hibernicus's Letters (Hutcheson), XII, a 424
Hibil, æon (Mandæans), XV, *a b* 476, *a* 477
Hibiscus, genus (Horticulture), XII, a 255, b 258–9
Hiccoughing (Respiration), XX, a 494
Hicetas, Carthaginian general (Timoleon), XXIII, *b* 423
HICKES, George, philologist, XI, a b 705
HICKORY, tree (Ill.), XI, b 705–6; American (Carriage), V, a 121; forest (United States), XXIII, a 860
Hicks, Henry, geologist (Geology), X, a 290, *b* 291, a 292
HICKS, Elias, theologian, XI, a 706; (Long Island), XIV, a 877; (Quakers), XX, a 156
——, W. M., mathematician (Hydromechanics), XII, b 470, a 474
Hidalgo, state (Mexico), XVI, a 223, b 901, a 908, a b 909, b 910
—— y Costilla, Miguel, revolutionist (Iturbide), XIII, a 528; (Mexico), XVI, a 228, b 897; (Toluca), XXIII, a 465
Hidatsa Dictionary, VII, a 168
Hiddekel, river (Tigris), XXIII, a 413 note
Hides (Leather), XIV, b 380, a b 391
Hidéyoshi or Taikô-sama, general (Japan), XIII, b 592, a 594
Hidhosynilega Society (Scandinavian Languages), XXI, a 385
Hiempsal, king (Jugurtha), XIII, b 776
Hien-fung, mountain (Corea), VI, a 347
Hiera, island (Lipari Islands), XIV, a 689
Hieracidea, genus (Hawk), XI, b 477; (Kestrel), XIV, a 56
Hieracites, sect. See HIERAX
HIERAPOLIS, Phrygia, city, XI, a 707

HIERAPOLIS or Carchemish, *q.v.*, Syria Cyrrhestica, city, XI, b 706–7; (Euphrates), VIII, b 587; (Syria), XXII, a 862; (Temple), XXIII, *a* 182
Hierapytna, city (Crete), VI, a 504, a 505
HIERARCHY or Hierocracy, government by, XI, a b 707; (Holland), XII, a b 77; (Israel), XIII, *a* 414, b 415, a 428; (Mormons), XVI, b 854; (Pentateuch), XVIII, a 521, a b 524; Christian (Priest), XIX, a 749; system of (Zachariæ), XXIV, b 800
Hieratic Alphabet, I, a 528, a 529; Numerals, XVII, a 640; writing (Hieroglyphics), XI, a *b* 709, b 715, *a* 719, a 722
HIERAX or Hieracas, heretic, XI, b 707
HIERO or Hieron I., Syracuse, XI, b 707–8; (Catania), V, b 190; (Gela), X, a 117; (Numismatics), XVII, b 654; (Sicily), XXII, b 21; (Syracuse), a b 853
HIERO or Hieron II., Syracuse, XI, a b 708; (Archimedes), II, *b* 332; (Numismatics), XVII, a 655; (Rome), XX, b 765, a 766, a 767; (Sicily), XXII, a 26–7; (Syracuse), b 855–6
Hiero, dialogue (Xenophon), XXIV, *b* 757
Hierochloe, genus (Grasses) (Ill.), XI, b 52
HIEROCLES, Neo-Platonist, XI, b 708
HIEROCLES, proconsul, XI, b 708; (Phrygia), XVIII, b 866, note; (Veterinary Science), XXIV, b 213–4
HIEROGLYPHICS (Ill.), XI, a 709–23
  abbreviations and exceptions, b 720
  articulations, a 710–5
  aspirates, b 714
  bibliography, b 722–3
  complements of letters, a 719–20
  dentals, b 712–3
  determinative signs, table of, 717, 718
  expletives, a 719
  grammar, b 720–1
  introduction, a 709
  labials, b 711–2
  liquids, a 713–4
  palatals, a 712
  Phœnician alphabet, derivation of, a b 722
  polyphony, b 715–6
  reading, a 719
  secret writing, b 720
  sibilants and gutturals, a b 714
  signs, b 709–21
  soft aspirate and vague vowel, b 710–11
  syllabic signs, b 714, 716
  systems of writing, a 709
  vowels omitted, b 720
—— (Alphabet), I, a b 529, b 531, *b* 532; (Hittites), XII, b 28, a b 29, a 30; (Inscriptions), XIII, b 120, b 123; (Numerals), XVII, a b 640; American, I, b 608 *a* 609, b 610; (Mexico), XVI, b 220, a b 222; Chinese, V, *b* 567, b 568–9; Egyptian, VII, b 625; (Copts), VI, a 315; (Drawing), VII, *a* 386; Egyptian (Kircher), XIV, a 96; (Libraries), b 509; interpretation of (Seyffarth), XXI, *a* 921; Zodiacal, XXIV, a 835
Hieromnemon, officer (Amphictyony), I, a b 678
HIERONYMITES, monks, XI, a b 723
Hieronymus. See JEROME
——, cardinal. See ALEANDRO
——, king (Syracuse), XXII, a 856
——, count of Colloredo, bishop of Salzburg (Mozart), XVII, b 15, *a* b 16
Hierophant, priest (Mysteries), XVII, b 133, a 134
Hierotheus, Book of (Syriac Literature), XXII, a 873, b 899
Hierro, island. See Ferro
Hierta, Larz Johan, journalist (Sweden), XXII, b 796
HIGDON or Higden, Ranulf, chronicler, XI, b 723; (English Language), VIII, a b 353; (English Literature), b 365
Higgins, John, poet (Geoffrey of Monmouth), X, a 155
Higgins, W., physicist (Chemistry), V, b 402; (Dalton), VI, a b 692
—— and Smith, commissioners (Yoruba), XXIV, b 791, *a* 792
Higginson, Stephen, statesman (Tyng), XXIII, b 950
Higham-Ferrers, borough (Northampton), XVII, *a* b 570
High Blinkert, hill (Holland), XII, a 62
Highbury, district (London), XIV, a 827
High Church party (Stanley), XXII, a b 471
—— Commission Court (Newton), XVII, a b 456
—— Council (Pius IX.), XIX, a 167
—— Court of Admiralty (Pleading), XIX, b 230, a 231. See Admiralty Courts
—— court of Convocation, VI, a 290
—— Court of Justice, VI, *b* 458, *a* 459; (Appeal), II, a 183; (Charles I.), V, a 353; (Common Pleas), VI, a 186; (England), VIII, b 236, a 237; (Judicature), XIII, b 774, a 775; (Pleading), XIX, a b 230, a 231
—— Court of Justiciary. See JUSTICIARY
High Cross, Stratford (Shakespeare), XXI, a 774, b 777
—— Cup Gill, cavernous place (Westmorland), XXIV, a 542, a 543
"Highflyer" (Horse), XII, *a b* 188
HIGHGATE, suburb, XI, b 723–4; (London), XIV, *a* b 827, a 836, b 859, a 861
High German, modern (Germany), X, *b* 462, a 465–7; old (Germany), a *b* 462–4
—— cattle (Agriculture), I, a b 345
—— dress (Costume), VI, a b 424; (Tartan), XXIII, b 74
Highlanders, Scotch (Montrose), XVI, b 822
Highland pony (Agriculture), I, a 342
—— regiments (Chatham), V, b 384; regiments (Forbes Duncan), IX, b 341
Highlands (Hudson), XII, b 345; (New Jersey), XVII, a *b* 406; (New York), XVII, b 462
—— scenery (Grant, Anne), XI, b 45
—— sheep walks (Agriculture), I, b 351–3, b 356–7
—— Society (Agriculture), I, b 270, *a* b 272, a 287, b 314
Highlands, Scotch, geology of, XXI, a b 543, *a* b 544–5, a *b* 547, a b 548, a 549; (Murchison), XVII, b 57; religious state of (Scotland), XXI, b 562, a *b* 563, a b 564; statistics of (Scotland), a 550, *b* 551, a 555, *b* 556, a b 557; subjugation of (Scotland), a 515, b 518, a 520, b 522, b 535, b 536, a 542; Wools of, XXIV, a 690
High latitude reckoning (Navigation), XVII, a 273, b 279
—— Peak, hundred (Derby), VII, *b* 92, *a* 93
HIGH PLACE, sanctuary, XI, a b 724
—— pressure engines, Evans's (Steam-Engine), XXII, b 494; Watt's view of (Steam-Engine), b 494; (Watt), XXIV, b 435
High Priest, (Israel), XIII, b 430, a 431, b 432, b 433, *a b* 434, *b* 435, *b* 436, a 438; Jewish, XIX, b 748–9; (Pentateuch), XVIII, a 521; breastplate of (Gems) (Ill.), X, b 123, a 124
Highs' or Hayes' attacks on Arkwright's patents, II, a b 475
High-speed horizontal engines (Steam-Engine), XXII, b 538–9; single acting engines (Steam-Engine), a b 540
—— Street, Islington (London), XIV, b 838
—— Tartary (Turkestan), XXIII, a 671
Highton, Edward and Henry, inventors (Telegraph), XXIII, b 120 note, a 121
High Violin, XXIV, *a* 263, b 264
—— water (Tides), XXIII, b 387–8, a 391, a 392, *b* 393; observations (Tides), a b 394; retardation of (Tides), b 375, b 376, b 377, *a* 390, a 391, a 392
Highway Parish, English, XVIII, b 302
Highwaymen (Hounslow), XII, b 330; (London), XIV, a 855
HIGHWAYS, XI, b 724–5. See ROADS AND STREETS, TOLL
High Wycombe, town. See WYCOMBE
Hijâz, district. See Hejaz
Hijr, prayer space (Mecca), XV, b 679; tomb inscriptions (Semitic Languages), XXI, a 680
Hijra. See Hegira
Hikena, mountain (Sahara), XXI, b 157
Hi-Khio (Drama), VII, b 346
Hikwa or Rikwa, lake (Zaire), XXIV, a 802
HILARION, St., monk, XI, b 725–6; (Sozomen), XXII, b 305
HILARIUS, St., of Arles, XI, a 726; (Popedom), XIX, b 506; (Salvian), XXI, *b* 250
HILARIUS of Poitiers, XI, a 726–7; (Auxentius), III, b 124; (Canon), V, a b 12; (Hymns), XII, b 615; (Poitiers), XIX, b 293, a 294
HILARIUS, Hilarus, or Hilary, of Rome, XI, a 726; (Popedom), XIX, b 523
HILDA, St., nun, XI, a 727; (Cædmon), IV, b 559, a 560
HILDBURGHAUSEN, town, XI, a 727; duchy (Saxe-Meiningen), XXI, b 364; (Saxony), *a* 372
HILDEBERT or Hydalbert, of Le Mans, bishop, XI, a b 727; (Henry, Deacon), *b* 600
—— or Hildevert, archbishop (Tours), XXIII, a 523
Hildebrand. See Gregory VII., Pope
——, Bruno, publicist (Political Economy), XIX, a b 383, a 405
HILDEBRANDSLIED, poem, XIX, b 727–8; (Germany), X, a 463, b 467
Hildebrandsson, H. Hildebrand (Meteorology), XVI, b 131
HILDEBRANDT, Eduard, painter, XI, a 728
HILDEBRANDT, Theodor, painter, XI, b 728
Hildeburn, Charles R., antiquary (Typography), XXIII, b 741
HILDEGARD, St., abbess, XI, b 728–9; (Mysticism), XVII, b 139
HILDEN, town, XI, a 729
——, Fabriz von, physician (Surgery), XXII, b 710
Hilderik III., king (France), IX, b 469; (Vandal), XXIV, *b* 65, a 66
HILDESHEIM, town, XI, a b 729; (Font), IX, b 316–7; (Hanover), XI, b 398, a b 399; treasure (Plate), XIX, b 192, a 198
HILDRETH, Richard, journalist, XI, b 729–30; (American Literature), I, b 634
Hilduin, abbot (Hincmar), XI, b 746
Hilferding, Alexander, philologist (Russia), XXI, b 117
Hilf system (Railway), XX, b 254
Hilgard, Julius E., engineer (Surveys), XXII, b 939
Hilgenfeld, Adolf Bernhard Christoph Christian, critic (Apocalyptic Literature), II, a *b* 154, a *b* 155; (Apocrypha), b 161, a 162; (Ephesians, Epistle to the), VIII, b 412, a b 413; (Gospels), X, a 748, a 749

Hilkiah, high priest (Jeremiah), XIII, b 637
HILL, Aaron, poet, XI, a 730
——, Abigail, an English court woman (Marlborough), XV, b 560, b 562
——, Frederick, penologist (Hill, M. D.), XI, a b 730
——, George, divine (Dogmatic), VII, a 297
——, John, attorney (Post-Office), XIX, b 579–80
——, Joshua, magistrate (Pitcairn), XIX, b 141
HILL, Matthew Davenport. philanthropist, XI, a b 730
HILL, Rowland, divine, XI, b 730; (Hymns), XII, b 629
HILL, Sir Rowland, postal reformer, XI, b 730-1; (Finance), IX, a 165; (Post-Office), XIX, b 580, b 582, a 583–5, b 585–6, a b 602, note, b 603 notes
HILL, Rowland, viscount, XI, b 731
——, Thomas, physician (Physiognomy), XIX, b 8
HILLAH, town, XI, b 731–2
HILLARD, George Stillman, journalist, XI, a 732
Hillary, Sir William, philanthropist (Lifeboat), XIV, b 575
Hill castles (Cornwall), VI, b 378; (Dorset), VII, a 322; (Sussex), XXII, a b 763
Hille Bobbe (Hals), XI, b 357
Hillebrand, William, botanist (Hawaiian Islands), XI, b 473-4
HILLEL I., rabbi, XI, a 732; (Hermeneutics), b 664; (Israel), XIII, b 435, a b 438, note; (Talmud), XXIII, a 41
—— II., rabbi, XI, a 732; (Chronology), V, a 620
Hiller, E., critic (Tibullus), XXIII, b 371, *b* 372, *a* 373
——, Ferdinand (Hummel), XII, a 371; (Hymns), a b 622
HILLER, Johann Adam, composer, XI, b 732
——, Philip Friedrich, poet (Hymns), XII, b 622
Hill fever (Malaria), XV, *a* 322
—— forts. See Hill castles
Hilliard, Nicholas, painter (Schools of Painting), XXI, b 460, a 464
Hill of Ben (Westmeath), XXIV, b 540
Hills, conical (Manchuria), XV, a 474
——, seven (Constantinople), VI, a b 271
Hills, George M., divine (Quakers, in U. S.), XX, b 892, b 893; (Talbot), XXIII, a 919
Hillsborough bay and river (Charlotte-town), V, b 372
—— rock (Ilfracombe), XII, a 741
——, Wills, marquis of (England), VIII, b 331; (Poor Laws), XIX, a 484; (Tryon), XXIII, a b 946
Hill-shading in maps (Surveying), XXII, a b 746
HILL TIPPERAH, state, XI, b 731–2
Hilo, town (Hawaiian Islands), XI, b 473, b 475
Hilperik, king (France), IX, b 468. See Chilperic
Hilton, John, physician (Surgery), XXII, a 724
——, Walter, monk (Kempis), XIV, a b 34
HILTON, William, painter, XI, a 733
HILVERSUM, town, XI, a b 733
HIMALAYA, mountains (Plate XVI), XI, b 733–46
  botany, b 742–4
  configuration, b 735–9
  elevations, especial, a 737
  extent, territorial, b 733
  geology, b 738–40
  glaciers, a 742
  meteorology, a 740–2
  mythological and religious associations, a 745
  political divisions, b 734–5
  scenery, b 745–6
  Tibetan table-land (Ill.), b 737-8
  valleys, b 737
  water system, a b 734
  zoology, a 744–5
—— (Asia), II, a 598; (Climate), VI, a 4; (Dárjilling), b 727; (Earth), VII, b 521, note, a 526; (Hindu Kush), XI, b 747; (Ichthyology), XII, a 711; (India), b 769, *a* b 770, b 772, a b 773, a 774, a b 776, a b 778; (Kashmír), XIV, b 11, a b 12; (Nepāl), XVII, b 349; (Tibet), XXIII, b 360–3; attraction of (Geodesy), X, a 153; explorations of (Geography), a 171, a 173
Himalayan fauna (Distribution), VII, a b 236; geology (Asia), II, *a* b 601; organic forms (Asia), b 604, a 605, a 606; primitive races (India), XII, *b* 816; Rabbit, XX, a 200
Himalo-Chinese avifauna (Birds), III, a 660
Himantopus, genus (Stilt), XXII, b 579, note, a 580
Himaryites, people. See Himyarites
Himation, garment (Costume) (Ill.), VI, a 401, a b 402
HIMERA, city, XI, a 746; (Numismatics), XVII, b 655; battle of, 480 B.C. (Carthage), V, b 140; (Sicily), XXII, b 21
Himfy, Loves of (Kisfaludy, S.), XIV, a b 103
Himilco, Carthaginian explorer, V, b 140
—— or Himilkon, son of Hamilcar, general (Carthage), V, a 141; (Sicily), XXII, *b* 23, a 24
HIMMEL, Frederick Henry, composer, XI, b 746
Himmelbjerget, hill (Denmark), VII, b 70
Hims, state (Syria), XXII, *a* 862. See HEMS and Emesa
Himyarite. See Sabæan
Himyarites or Homerites, race (Abyssinia), I, a b 64; (Africa), a 235; (Arabia), II, a 214, a 221, a 230; (Cush), VI, b 643; (Mohammedanism), XVI, a 569; (Yemen), XXIV, *b* 776, b 777
Himyaritic alphabet (Inscriptions), XIII, b 123; (Semitic Languages), XXI, b 685
Hin in Weights and Measures, XXIV, a 510, *b* 512
Hīnayāna school (Lāmāism), XIV, b 229
HINCKLEY, town, XI, b 746
Hincmar of Laon, XI, b 747; (Interdict), XIII, a 194
HINCMAR of Rheims, archbishop, XI, b 746–7; (Adrian II.), I, b 150; (France), IX, *a* 472; (Gottschalk), X, a *b* 760; (Predestination), XIX, b 689; (Remigius), XX, *b* 390; (Turpin), XXIII, b 711
Hind, Henry Youle, naturalist (Fisheries), IX, a *b* 232-3; (Labrador), XIV, b 175–6, a b 177
Hind and Panther (Dryden), VII, a 425
Hinde, George J., biologist (Sponges), XXII, a *b* 444
——, J. H., archæologist (Horsley, J.), XII, b 212, a 213
Hinder, river (Cochin China), VI, b 86
Hinderer, missionary (Ibadan), XII, a 639
Hindhead Hill (Surrey), XXII, a 729
Hindi and Hindustani Selections (Hindustani Literature), XI, b 755
Hindī language (Dictionary), VII, a 166; (Hindūstānī), XI, b 749–52; (Ural Altaic), XXIV, a 6; (Hindustani), XI, a 753-6, b 759
Hindkis, people (Afghânistân), I, *b* 211
HINDLEY, town, XI, b 747
——, Henry, inventor (Graduation), XI, a 27
Hindöen island (Lofoten and Vesteraalen), XIV, b 775, *a* 776; (Norway), XVII, b 590
HINDOL, state, XI, b 747
Hindu Algebra, I, a 452, a 456
—— Architecture, II, a 345–8; (Benares), III, b 479; (Kashmír), XIV, b 13. See Indian Architecture
Hindu Astronomy, II, a 652
—— Castes, V, b 162, b 163–7
—— Chess, V, b 519-20
—— Chronology, V, b 623–4
—— Coolies, VI, b 297–8
—— Deluge, VII, a 50, a 51
—— Drama See Drama, Hindu
—— festivals, IX, b 99, *a* 100, b 103; (Drama), VII, a 343; (Sabbath), XXI, b 134
—— Gilding, X, a 530
—— government (Rájá), XX, a b 271
—— Jewellery, XIII, b 688
Hindú-killer, mountain (Hindu Kush), XI, b 749
HINDU KUSH, mountains, XI, b 747–9; (Adam), I, b 126; (Afghânistân), a *b* 204, a b 205, a 208, a b 211, b 216; (Ibn Batuta), XII, b 642; (Merv), XVI, b 46; (Oxus), XVIII, b 105, a b 107; (Turkestan), XXIII, b 673
Hindu Koosh, Tribes of the (Kashkar), XIV, a 11
—— Law. See Law, Hindu and Indian
—— literature, classical (Jones, Sir W.), XIII, *b* 750; (Sanskrit), XXI, a 294–9; (Wilson), XXIV, b 622, a 623. See Literatures of Hindi, Hindustani, India, Pali, Pahlavi, Sanskrit, Urdu
—— Logic, XIV, b 811–12
—— medicine (Surgery), XXII, a 707–8
—— mythology, XVII, b 158–60; (Adam), I, a b 126, a 127; (Deluge), VII, a 50, a 51; (Elephanta Isle), VIII, a 119; (Ellora), a 140. See Mythology, Religion, Hindu
—— Pilgrimage, XIX, b 100–1
—— primitive language (Sanskrit), XXI, a 283–309
—— religion (Bali), III, a 243; (Cotton), VI, a 428; (Hindustani), XI, b 753-6; (Incense) XII, b 758–9; (Mexico), XVI, b 215; (Ordeals), XVII, a b 843, a 844; (Suttee), XXII, a 763; primitive (India), XII, b 818–23; scriptures (Brahmanism), IV, b 182. See Brahmanism, Buddhism, Religion, Indian
Hindu Tribes and Castes (Brahmanism), IV, b 189–90
—— village system (India), XII, a 800, b 808–9, b 811
—— Wood Carving, XXIV, b 683–4
—— Zodiac, XXIV, a 832–3
Hindūī language (Hindūstānī), XI, b 749 note
HINDUR, state, XI, b 749
Hindus, people (India), XII, b 783, a b 784; (Madagascar), XV, b 174; (Madras), a b 186; (Magic), b 204, b 210, a 211, a 212; (Mahrattas), a 291; (Malays), a 328, a 329; (Primogeniture), XIX, a 755; (Sumatra), XXII, a 674; character of (Bengal), III, a b 486; military character of (Army), II, b 518
Hindustan, historical works on (Orme), XVII, b 878. See India
Hindustan, Memoir of Map of (Rennell), XX, a 412
HINDUSTANI, dialect, XI, b 749–52
  declension, b 751–2
  gender, b 751
  pronouns, a b 752
  sources, derivative and foreign, a b 750
  structure, grammatical, b 750–3
  verbs, b 752–3
  vocables, a 751
  See Hindu and Urdu
—— (Asia), II, a 609; (Dictionaries), VII, a 166
HINDUSTANI LITERATURE, XI, a 753–9
  authors in Urdū, b 756–9
  English influence, b 759
  Middle Hindi, a 755–6
  modern works, a 758–9
  Rājpūtānā poems, a b 753
  Urdū, origin and development of, a b 756–7
  Vaishnava reformers, b 753–4
  See Hindi and Urdu

HINGANGHÁT, town, XI, b 759
Hinges, artistic iron (Metal-Work), XVI, b 82; door (Building), IV, *a* 440
Hingeston, F. C., historian (Capgrave), V, b 50
Hinks's burners (Lamp) (Ill.), XIV, b 247
Hinnè, plant (Egypt), VII, *a* 616, b 627. See Henna
Hinny, hybrid female (Mule), XVII, b 19
HINOJOSA DEL DUQUE, town, XI, b 759
Hinrichs, Hermann Friedrich Wilhelm, philosophèr, (Hegel), XI, b 549, a 550
HINTON, James, aural surgeon, XI, b 759–60
——, John Howard, divine, XI, b 759
HIOGO or Kobe, seaport town, XI, a b 760; (Japan), XIII, b 586, a b 587; (Ozaka), XVIII, a 115
Hiong-nu, race. See Heung-nu
Hiouen Thsang, traveller. See HWEN T'SANG
Hip-joint (Anatomy), I, b 737; (Dislocation), VII, a 225
Hippa eremita, species (Crustacea), VI, b 569, a 570
Hipparchia, wife of (Crates of Thebes), VI, a 491
Hipparchicus, equestrian book (Xenophon), XXIV, b 757
HIPPARCHUS, mathematician, XI, b 760; (Alexandrian School), I, a 441; (Astronomy), II, b 654–5, *a* 656; (Geography), X, *b* 153; (Map), XV, a b 523, *a* b 524; (Moon), XVI, a 825–6; (Observatory), XVII, a 729; (Ptolemy), XX, a b 92, a b 93, a *b* 94, *a* *b* 95, a b 96, *a* b 97, note, b 98; (Time), XXIII, a 419, a 421; (Zodiac), XXIV, b 830, a b 831
Hipparchus, tyrant (Anacreon), I, a 692; (Athens), III, *a* 4; (Greece), XI, b 122; (Harmodius), a 430. See Hippias
Hipparchus, dialogue (Homer), XII, a 113, a b 119, a 120
Hipparion, animal (Horse) (Ill.), XII, *a* 177, *a* b 178
Hipparis, river (Numismatics), XVII, b 655
Hippasus of Metapontum, philosopher (Pythagoras), XX, b 146, a 147, a 148
Hippeastrum, plants (Horticulture), XII, b 274
HIPPEL, Theodor Gottlieb von, humorist, XI, b 760-1
Hippia, goddess. See ATHENA
Hippias, tyrant (Pisistratus), XIX, a *b* 140; (Greece), XI, b 87, a b 88, a b 89; (Harmodius), a 430
—— of Elis, sophist (Games), X, a 58; (Sophist), XXII, a b 278, a 281, a *b* 283
Hippicus tower, Jerusalem (Sepulchre, Holy), XXI, *a* 703, note
Hippo, city, or Hippo Regius (Bône), IV, a 29; (Numidia), XVII, b 643; (Vandals), XXIV, *a* 65
HIPPOCAMPUS or sea-horse (Ill.), XI, a 761; (Anatomy), I, a 710, *b* 758, a 768, a 769, a 771, b 777; (Ichthyology), XII, b 675, a 699, a 717, b 720, a 733; (Mimicry), XVI, a 357; (Sea-Horse) (Ill.), XXI, a 606-7
Hippocervus, beast (Griffin), XI, b 174
Hippocras wine (Grains of Paradise), XI, b 33
HIPPOCRATES, "Father of Medicine," XI, a 761–2; (Alchemy), I, a 408; (Anatomy), b 701–2; (Cavalry), V, b 227; (Dietetics), VII, b 176, note; (Dream), a 393; (Gout), XI, b 6; (Greece), b 119, *a* 120; (Harvey), b 449, note; (Homœopathy), XII, a 130, a 131; (Phrenology), XVIII, a 857; (Physiognomy), XIX, a 7; (Pythagoras), XX, b 148; (Scythia), XXI, b 602, *a* 603, b 605
——, tyrant (Gela), X, b 116; (Syracuse), XXII, a 853
—— of Syracuse, opponent of Marcellus, XXII, *a* 856
Hippocratic school (Medicine), XV, a 810–12, a *b* 813
—— succussion (Hippocrates), XI, a 762
—— Surgery, XXII, b 708
Hippocrene, fountain (Helicon), XI, a 563; (Pegasus), XVIII, a 479
Hippodamia, myth (Pelops), XVIII, b 490
Hippodamus of Miletus, architect (Athens), III, b 5; (Rhodes), XX, b 540
Hippodrome (Constantinople), VI, b 271, b 274; (Olympia), XVII, a 790
Hippolyte, Père (Helyot), XI, b 574
Hippolyte et Aricie, opera (Rameau), XX, b 277
HIPPOLYTUS, St., martyr, patron saint of Mexico, XI, b 763
—— de Marsiliis, jurist (Torture), XXIII, a 496
HIPPOLYTUS of Ostia, ecclesiastical writer, XI, b 762–3; (Basilides), III, *b* 363, a 364; (Canon), V, *a* 8; (Cerinthus), *a* b 301; (Creeds), VI, b 495; (Gnosticism), X, *a* *b* 626, *a* b 627, b 628; (Josephus), XIII, b 762; (Magic), XV, *b* 207, b 208, a b 209 (Millennium), XVI, a 329; (Popedom), XIX, *a* 504; (Sabellius), XXI, *b* 135; (Simon Magus), XXII, *a* b 88, note; (Valentinus), XXIV, b 43, *a* 44; statue of (Image Worship), XII, a 752
Hippolytus of Euripides, VIII, b 592
——, myth of (Theseus), XXIII, b 315
HIPPONAX of Ephesus, poet, XI, b 763; (Archæology), II, a 305; (Bupalus and Athenis), IV, a 475; (Greece), XI, b 124; (Satire), XXI, a b 333
Hipponium, city (Monteleone), XVI, b 805
Hippopotamidæ, family (Swine), XXII, b 810–11
HIPPOPOTAMUS (Ill.), XI, b 763–5; (Africa), I, b 238, a b 239; (Cave), V, *b* 233; (Denderah), VII, a 69; (Egypt), a b 617; (Ivory), XIII, b 532–3; (Mammalia), XV, b 397; (Swine), XXII, a 811; respiration of (Mammalia), XV, b 368
Hippos, town (Galilee, Sea of), X, a 28
Hippospongia (Sponges), XXII, *a* 440, *a* 445
Hippotigris, genus (Horse), XII, a 179
Hippo Zaritus, colony (Bizerta), III, a 690; (Tunis), XXIII, b 660
Hippuric acid (Chemistry), V, a 495; (Nitrogen), XVII, a 530; (Nutrition), b 702, a 704
Hippuris, genus (Botany), IV, b 105, b 122, a 132, b 133; meristem zones (Histology), XII, a 17
Hippurite limestone (Geology), X, b 318
Hira or Heerah, kingdom of (Arabia), II, *a* 223, a 224; (Mesopotamia), XVI, a 56; (Mohammedanism), a b 569, a b 585, a 619; (Persia), XVIII, a 621, b 622, a 625
——, mount (Mohammedanism), XVI, a b 571
Hirado, island (Japan), XIII, a 578, *a* 594
Hiræa, plant (Botany), IV, a 137, b 142
Hiræthog hills (Denbigh), VII, a b 67
Hiragana, writing (Japan), XIII, a b 595
Hiram, king of Tyre (Phœnicia), XVIII, b 817, a b 820, note
Hiranyagarbha, manifestation (Vedanta), XXIV, a b 130
Hirapur, town (Sagar), XXI, b 154
HIRING in law, XII, a 3
Hirmus, part of a lyric (Hymns), XII, b 614
Hirn, Gustave Adolphe, physicist (Steam-Engine), XXII, b 496, b 503, a 507, b 508, a 514, note
Hirnhaim of Prague, Hieronymus, apologist (Scepticism), XXI, b 399
Hirpini, race (Sabines), XXI, a 137; (Samnites), *a* *b* 260, a b 261
Hirsch, Abraham, banker (Voltaire), XXIV, b 309
——, Adolf, astronomer (Times), XXIII, a 423
—— of Berlin, physician (Sweating Sickness), XXII, b 773, b 774; (Vaccination), XXIV, a b 33
——, Meyer, mathematician (Tables), XXIII, b 19
HIRSCHAU or Hirsau, village, XII, a b 3
HIRSCHBERG, town, XII, b 3–4
Hirsche, Carl, editor (Kempis), XIV, *b* 34, a 35
Hirst, T. A., mathematician (Infinitesimal Calculus), XIII, b 56
——, William, manufacturer (Leeds), XIV, a 408
Hirt, island. See Hyrtha
HIRTIUS, Aulus, XII, a 4
Hirudinea, group (Animal Kingdom), II, b 46, *a* 47; (Worms), XXIV, b 713, *b* 714–5, b 716; nerves of (Physiology), XIX, b 35
Hirudo, genus (Leech), XIV, b 400, *a* 403, *a* 405
Hirundo, genus (Swallow), XXII, b 767, a 768 notes; purpurea (Martin), XV, b 588; riparia (Martin), a 588
Hirzel, Hans Kaspar, physician (Switzerland), XXII, b 836
His, W., biologist (Embryology), VIII, a 155.
Hisham I., or Hiscam, emir of Cordova (Spain), XXII, b 325
—— II., caliph (Spain), XXII, b 328, *b* 329, a 330
—— III., caliph (Spain), XXII, a 330
—— Aboo-Rekweh, soldier (Egypt), VII, b 651
—— ben al-Kalbí, genealogist (Tabarí), XXIII, b 6, note
—— ben Yazid, Eastern caliph (Mohammedanism), XVI, a b 598
Hisingen, island (Gothenburg), X, a 752
Hisinger, Wilhelm, mineralogist (Chemistry), V, a 404
Hisingerite (Mineralogy), XVI, b 443
Hislop, James, engineer (Gas-Lighting), X, b 81, a *b* 82, a 85
Hislopite (Mineralogy), XVI, b 413
Hisn Ghoriab, fortress (Yemen), XXIV, b 777
Hispana Collectio (Canon Law), V, *b* 16
Hispania. See SPAIN
Hispaniæ, Historiæ de Rebus (Mariana), XV, b 546
Hispaniola, island (Columbus), VI, a b 155, *a* *b* 156, *a* b 157, note; (Hayti), XI, a 485, b 486; (Humming-Bird), XII, a b 371 note; (Slavery), XXII, *a* b 146, note. See HAYTI, SANTO DOMINGO
Hispano-Moorish ware (Pottery and Porcelain) (Ill.), XIX, a b 641, a 642, b 647
HISSAR, Central Asia, state and town, XII, b 4–5; mountains (Zerafshan), XXIV, a 820
HISSÁR, India, district and town, XII, a b 4; (Punjab), XX, b 114, note, a 116
Hissarlik, mound (Troad), XXIII, a b 616, b 618–9; excavations at (Jade), XIII, a 550; (Jewellery) (Plate XI), b 686, a 687
Hisses, glides to and from (Speech-Sounds), XXII, b 397
Histeridæ, family (Coleoptera) (Ill.), VI, a 119
Histiæi, people (Eubœa), VIII, *b* 569
Histiæus of Miletus (Greece), XI, *a* 89; (Ionia), XIII, a 211; (Persia), XVIII, b 581, a b 582
Histiophorus, genus (Ichthyology) (Ill.), XII, *a* 701, a 728; (Sword-Fish) (Ill.), XXII, b 842, *a* b 843

Histioteuthis, genus (Cuttle-Fish) (Ill.), VI, a b 651
Histoire Comparée des Systèmes de Philosophie (De Gérando), VII, b 29-30
—— *Critique du Vieux Testament* (Simon), XXII, b 89-90
—— *d'Angleterre* (Rapin), XX, b 295
—— *des Girondins* (Lamartine), XIV, b 233, b 234
—— *des Indes* (Raynal), XX, a 315
—— *des Langues Sémitiques* (Semitic Languages), XXI, a 674, b 688
—— *des Oracles* (Fontenelle), IX, b 319
—— *du Bas Empire* (Le Beau), XIV, a 396
—— *du Romantisme* (Gautier), X, b 105
—— *Ecclesiastique* (Fleury), IX, b 267-8
—— *Générale des Huns, des Mongols, des Turcs et des autres Tartares* (Guignes), XI, b 229-30
—— *Littéraire* (France), IX, a b 600
—— *littéraire d'Italie* (Ginguené), X, a b 539
—— *Naturelle des Poissons* (Ichthyology), XII, a 670
—— *universelle, Discours sur l'* (Bossuet), IV, a 63
HISTOLOGY, XII, a 6-21
  ANIMAL, a 6-12
    connective tissues, a 8-10
    epithelial tissues, b 6-8
    muscular tissues, a 10-11
    nervous tissues, b 11-12
  bibliography, b 21
  VEGETABLE, a 12-21
    cell-wall, a 13-15
    cytogenesis, a 15-16
    epidermal system, a b 19-20
    fibro-vascular system, b 20-21
    ground system, a b 21
    meristem tissue, a 17-18
    nature of cell, b 12-13
    permanent tissue, a 18-19
    tissue formation, a 16-17
      systems, a b 19-21

—— (Anatomy), I, a 701, b 709, a 712, a 713, a b 714, a 739; (Biology), III, b 589-90; (Goodsir), X, a b 690; (Ichthyology), XII, b 671; (Malpighi), XV, b 340-1; (Oken), XVII, b 771; (Respiration) (Ill.), XX, a b 489; (Sponges) (Ill.), XXII, a *b* 428, b 434-7; beginning of (Zoology), XXIV, a 855; of ova (Reproduction) (Ill.), XX, a 426-33; progress of (Morphology), XVI, a-b 867; of spermatozoa (Reproduction), XX, b 423-5; of teeth (Digestive Organs) (Ill.), VII, a 204-7; uterine (Reproduction), XX, a b 420
Histonium, town. See VASTO
Historia Anglica (Virgil), XXIV, a *b* 274
—— *Anglorum* (Matthew of Paris), XV, *b* 640, a 641
—— *Animalium* (Anatomy), I, b 702; (Gesner), X, a 496; (Ornithology), XVIII, b 7-8; (Zoology), XXIV, a 843
—— *Regum, Britannicæ* (Alredus), I, a 560
—— *Britonum*, Geoffrey's, X, b 154-5; (Celtic Literature), V, a 274; (Romance), XX, *a* b 659
—— *Britonum*, Nennius's, XVII, a *b* 341; (Celtic Literature), V, b 273, a b 284; (Ireland), XIII, a 252
—— *Celestis* of Flamsteed (Astronomy), II, b 660
—— *de Diis Gentium* (Giraldi), X, a 553
—— *de Gentibus Septentrionalibus* (Olaus Magnus), XVIII, a 774
Historiæ (Hellanicus), XI, b 566; (Sallust), XXI, b 229, *a* 230; (Tacitus), XXIII, a 25
—— *adversum Paganos* (Orosius), XVIII, a 54
—— *Anglicanæ* (Gale), X, a 22
—— *Anglorum* (Henry of Huntington), XI, a b 601
Historia Ecclesiastica of Bede, III, a 416; Hobbes, XII, b 41; of Nicephorus Callisti, XVII, a 845; of Odericus Vitalis, a 845; *Islandiæ* (Iceland), XII, b 656 note, a 663; in Syriac Literature, XXII, b 876, *a* 877. See *Histoire Ecclesiastique*, CHURCH HISTORY, Ecclesiastical History
Historiæ de Rebus Hispaniæ (Mariana), XV, b 546
—— *Scriptores* (Gervaise), X, b 493
Historia Francorum (Gregory of Tours), XI, b 162
—— *Major* (Matthew of Paris), XV, *b* 640, a 641; (Knighthood), XIV, b 126
—— *Natural y Moral de las Indias* (Acosta), I, a 93
—— *Novella* (Malmesbury), XV, b 339
—— *Rerum Scoticarum* (Buchanan), IV, a 371

Historians and histories. See bibliography at end of each historical section of separate countries. Histories are generally indexed under their special subjects
——, American. See United States, Historians and histories of
——, Arabian, II, a b 231; (Abulfaragius), I, b 60. See Bar Hebræus; (Ibn Khaldoun), XII, b 644; (Tabarí), XXIII, b 5-6
——, Byzantine, IV, b 544-6; (Ducas), VII, a 436; (Greece), XI, b 129, a 131
——, Chinese, V, a 557, a 558, a 572, b 573-4, b 575-6, a 580; (Confucius), VI, a 234. See Chinese annals
——, Danish. See Scandinavian historians
——, Dutch, XII, a 97, b 100; (Aitzema), I, b 382; (Groen van Prinsterer), XI, b 183, a 184; (Helmers), b 568; (Hooft), XII, a b 150
——, English, VIII, a 243, a 258, b 341, a 360, a b 365, a 384, b 387; (Adolphus), I, b 148; (Andrews), II, a 21; (Bacon), III, b 181; (Buckle), IV, a b 378-9; (Burnet), a 502, a b 503; (Clarendon), V, b 703, b 704; (Fabyan), VIII, a 738; (Gale), X, a 22; (Goldsmith), a 678, a 679; (Godwine), b 640; (Hallam), XI, b 351-2; (Henry), a b 603; (Herbart), a 646; (Hume), XII, a b 363-4; (Kemble), XIV, b 32; (Laing), a b 217; (Lingard), a 675; (Macaulay), XV, *a b* 129, a b 130; (Mackintosh), a 162; (Malmesbury), a b 339; (Martineau), b 590; (Pauli), XVIII, a 444; (Robertson), XX, b 615, b 616; (Tyler), XXIII, a 761. See Chronica, Chronicles, Historia and specific titles
——, French, IX, a 568-9, a b 575, b 580-1, b 586-8, a b 598; (Libraries), XIV, b 524, a 525
——, Genoese. See Genoese historians
——, German, X, *b* 478, a b 486-7; (Saxony), XXI, a 375. See German historians and histories
——, Greek. See Greek historians and histories
——, Hebrew, XI, b 534, a 535. See Hebrew, Israel, Jewish
——, Hungarian, XII, a b 395. See Hungarian historians
——, Irish (Celtic Literature), V, a b 268, b 283. See Ireland and Irish
——, Italian, XIII, a b 519, a 522, a b 524, b 525; versified, a 516. See Italy and Italian historians
——, Norwegian. See Scandinavian historians
——, Persian, XVIII, b 672. See Persia and Persian historians
——, Polish, XIX, a b 311, b 312-3, a b 316-7. See Poland and Polish historians
——, Portuguese, XIX, b 572, a b 573. See Portugal and Portuguese historians
——, Roman. See Rome and Roman historians
——, Russian, XXI, b 116-7. See Russia and Russian historians
——, Spanish, XXII, b 360, a b 373, a 376. See Spain and Spanish historians
——, Sweden. See Scandinavian historians
——, Swiss, XXII, b 835, b 836, a b 837, See Switzerland and Swiss historians

Historica Explicatio (Usher), XXIV, b 21
Historical Acts, English (Statute), XXII, b 487; antiquity of man (Anthropology), II, b 103; development of culture (Anthropology), b 107-8
—— *Collections* (Rushworth), XXI, a *b* 69
—— *Documents, Book of* (China), V, b 557, a 558
—— drama (Grillparzer), XI, a b 175; Chinese (Drama), VII, a 347; English (Drama), a 372; rise of (Shakespeare), XXI, *b* 798, a 807
—— economists (Political Economy), XIX, b 381, a 383, b 403-15
—— German Periodicals XVIII, b 552
—— Grammar, XI, b 34-5
—— Hermeneutics, XI, a b 666, b 667
—— induction (Theology), XXIII, b 285-6
Historical Memoirs (Strabo), XXII, a 610
—— Societies, XXII, b 239-40; (Paris), XVIII, a 287; U. S. (Libraries), XIV, a 535; Society of Pennsylvania (Philadelphia), XVIII, a 754
Historical Songs (Niemcewicz), XVII, b 508
—— *Tables* (Bredow), IV, a 219; (Chronology), V, a 625-60
—— *Tracts*, Force (Humming-Bird), XII, a 371
Historic Doubts on Richard the Third (Walpole), XXIV, a 355
Historiées, initials (Illumination), XII, b 746
Histories, Books about the Wars (Procopius), XIX, a b 811, a b 812
——, *English* (Gale), X, a 22
——, *French* (Gaillard), X, a 15
Historische Entwickelung der Spekulativen Philosophie (Chalybäus), V, a 329
—— *Schriften* (Gervinus), X, a 494, a 495
HISTORY, XII, b 21-7
  artistic type, a 22-4
  church, b 26
  distinctive features, b 21
  economics, a 25-6
  Greek historians, a 22-3
  institutional, b 26-7
  mediæval, a 23, b 26
  modern, a b 24-6
  portrait form, b 23
  Roman historians, a 23
  romantic movement, a b 25
  sociological type, b 24-6, a 27. See ANNALS, CHRONICLES, Chronica, Geschite Histoire, Historia, Memoirs

—— Christian view of (Tatian), XXIII, a 87; compared with Annals, II, b 54; composition of (Niebuhr), XVII, b 505-6; defined (Antiquities), II, b 118; God revealed in (Theism), XXIII, a 264, a 267; function of (Brucker), IV, a 355; Hermeneutics of, XI, b 667; Libraries of, XIV, a 519, a 535, b 545; nature of (Annals), II, b 54; philosophy of, XVIII, b 809-10; (Age), I, a 249; (Buchez), IV, b 372; (Comte), VI, a b 210;

History, *continued*
(Hegel), XI, a b 550, b 553; (Robertson), XX, a 616; (Saint Simon), XXI, a 208. See Philosophy; relation to Archæology, II, a 292; to Evolution, VIII, a 652; to Numismatics, XVII, a 643-4; study of (Universities), XXIII, b 903
——, Academies of, I, b 73-4. See SOCIETIES of
——, Church, V, b 664-70. See also Ecclesiastical and *Historia Ecclesiastica*
——, *Elements of* (Tytler), XXIII, a 761
History of Music, XVII, b 99
—— *of the Arabs of Spain* (Ibn Khaldoun), XII, b 644
——, *Book of* (China), V, a 572, b 573-4, a b 575, a 580
—— *of British Commerce* (Anderson, Adam), II, b 14
—— *of the Church and State of Scotland* (Spotswood), XXII, b 448
—— *of Civilization* (Buckle), IV, a b 378-9; (Guizot), XI, b 238
—— *of the Cross* (Piero), XIX, a 91
—— *of the Devil* (Defoe), VII, b 27
—— *of Europe* (Alison), I, b 508
—— *of the Human Race* (Abulfeda), I, b 60-1
—— *of the Indies* (Oviedo y Valdez), XVIII, a 88
—— *of Inventions*, Beckmann (Magic), XV, b 208
—— *of Italian Art* (Vasari), XXIV, b 102-3
—— *of John Bull* (Arbuthnot), II, a 285
—— *of the Law of Nations* (Wheaton), XXIV, b 567, a 568
—— *of his own Time* (Burnet), IV, b 503
—— *of Philosophy* (Hegel), XI, a 550, b 553, b 554. See PHILOSOPHY
—— *and Philosophy of the Sciences* (Whewell), XXIV, *b* 569-70
—— *of the Rebellion* (Clarendon), V, b 703, b 704, a 705
—— *of the Reformation of the Church of England* (Burnet), IV, a 502, a 503
—— *of the Revolution in England* (Mackintosh), XV, a 162
—— of tariffs (Protection), XIX, a 936-40
—— *of the Thirty Years' Peace* (Martineau), XV, b 590
—— *of the World* (Abulfaragius), I, b 60; (Syriac Literature), XXII, b 899
Histria, country. See ISTRIA
Histriobdella or Histrodrilus, genus (Leech), XIV, b 405; (Worm), XXIV, a b 719, note
Histrio Mastix (Drama), VII, a 373, a 375; (Index), XII, b 767; (Prynne), XX, b 30
Histrionic art (Drama), VII, a 338, b 342-3
HIT, town, XII, a 27; (Euphrates), VIII, b 587, *a* 588; (Ezra), b 727 note
Hita, Gines Perez de (Abencerrages), I, b 39; (Romance), XX, b 675; (Spain), XXII, a 372
HITCHCOCK, Edward, geologist, XII, a b 27
——, Edward, 2d, instructor (Gymnastics), XI, b 311
——, Thomas, spinetmaker (Pianoforte), XIX, a 77
——, De Witt Clinton, engraver (Graphotype), XI, b 47
Hitches, sailor's (Knot) (Ill.), XIV, a b 129
HITCHIN, town, XII, b 27; (Hertford), XI, b 689, *a* 690; (Lavender), XIV, a 353
Hiteren, island (Norway), XVII, *b* 590
Hitoe, country (Amboyna), I, b 581
Hitopadesa, fables (Fable), VIII, b 733; (Lassen), XIV, b 322
Hittite inscriptions (Hieroglyphics), XI, b 722; (Syria), XXII, b 861
HITTITES, race, XII, b 27-30; (Canaanites), IV, *a* 674; (Egypt), VII, b 639, *b* 640-1; (Lydia), XV, b 100, *a* b 101; (Phrygia), XVIII, a 864 note
Hittites in America (Indians), XII, b 863 note
Hittorf, W., physicist (Electricity), VIII, b 58, b 60, b 61, a 70; (Electrolysis), *b* 103, a 105, b 106-7; (Meteorology), XVI, b 191; (Plücker), XIX, *b* 241, a 242
HITTORFF, Jacques Ignace, architect, XII, a 30
HITZIG, Ferdinand, biblical critic, XII, a b 30; (Canticles), V, b 31, a b 33; (Isaiah), XIII, a *b* 394; (Scythia), XXI, a 604 note
Hitzig, phrenologist (Physiology), XIX, a b 47, b 50; (Surgery), XXII, b 724, a 725
Hiung-nu, people. See Heung-nu
Hivaoa, island (Marquesas Islands), XV, a 571
Hives (Bee) (Ill.), III, b 431-2; stocking (Bee), a 433
Hiwen T'sang, traveller. See Hwen T'sang
Hixa, plant (Laurel, XIV, a 349
Hjärne, Urban, poet (Sweden), XXII, a 793
Hjelm, Peter Jacob, chemist (Metals), XVI, b 68
Hjelmar, lake (Sweden), XXII, b 774, a 775
Hjelmite (Mineralogy), XVI, a 446
Hlaing or Hleing, river (Tharrawaddy), XXIII, a 240; (Burmah, British), IV, a 500
Hlodowig. See Clovis
Hlotdau, council (Burmah), IV, b 493, a 494
Hlothar, emperor. See Lothair
Hlyda, town (England), VIII, b 195
HOACTZIN or Hoatzin, bird (Ill.), XII, b 30-1; (Ornithology), XVIII, a 35, b 39, b 49
HOADLEY, Benjamin, controversialist, XII, b 31-2; (Balguy), III, b 242; (Clarke), V, b 708, *a* 709, b 710; (Convocation), VI, b 291-2
Hoang-ho or Yellow river (China), V, *b* 547, *a* b 548; (K'ai Fung Foo), XIII, a 833; (Pacific Ocean), XVIII, b 120; (Tibet), XXIII, b 360, *a* 363. See Yellow river
Hoang-Ti, emperor (Astronomy), II, b 651; (Compass), VI, b 201
Hoarding (Money), XVI, b 748
HOARE, Sir Richard Cobb, antiquary, XII, a 32
Hoar-frost (Meteorology), XVI, b 125
Hobart, John Henry, bishop, *b.* 1775, *d.* 1830 (Turner), XXIII, *a* 949
HOBART TOWN, XII, a b 32; (Libraries), XIV, b 552; (Newspapers), XVII, a 449; (Tasmania), XXIII, *a* 79, a 80, a 81; observatory (Meteorology), XVI, a b 174, a b 178, a b 179, a 181, b 182, a b 186
Hobay, port (Formosa), IX, a 367
HOBBEMA, Meyndert, painter, XII, b 32-3; (Schools of Painting) (Ill.), XXI, a b 459, a 464
HOBBES, Thomas, philosopher, XII, b 33-42
  classical translations, b 34, b 41
  controversial writings, a b 38-40
  early researches, a b 35, b 37
  education, b 33
  philosophy of, b 35-6, b 41-2
  political views, a b 36-7
—— (Association of Ideas), II, b 638, b 639; (Butler), IV, a 522; (Cartesianism), V, b 125; (Cudworth), VI, b 609; (Cumberland), *b* 619, *a* 620; (Descartes), VII, a 104, a 106, a 107; (Dream), b 394; (English Literature), VIII, b 376, a b 377; (Ethics), a 525-6; (Evolution), b 664; (Government), XI, b 10; (Hutcheson), XII, a 424, b 425, a 426; (Molesworth), XVI, a 646; (Pentateuch), XVIII, b 515 note, b 517; (Political Economy), XIX, b 370; (Psychology), XX, a b 54 note
Hobbs, locksmith (Locks), XIV, b 751, a b 752, a *b* 753, *a* b 754, b 755, a 756, a 758
Hobbs's Lock (Ill.), XIV, b 753-4
Hobby, bird (Falcon) (Ill.), IX, a b 5; (Falconry), *b* 11, a 12
—— -horse (Morris-Dance), XVI, b 873
Hobel, the (Guillotine), XI, b 233
Hobert and Ideler's *Tables Trigonométriques* (Tables), XXIII, b 15
Hobgoblin Hall (Haddington), XI, a 324
Hobhouse, John Cam, statesman. See BROUGHTON
Hobkirk's Hill, battle of, 1781 (United States), XXIII, b 792
HOBOKEN, city, XII, b 42
Hobson, Richard, monk (Cambridge), IV, b 645
HOCHE, Lazare, general, XII, b 42-3; (France), IX, a 534, b 535, b 536, *a b* 537; (Napoleon I.), XVII, a b 206; (Pichegru), XIX, a b 88
Hochgolling, mountain (Styria), XXII, b 646
Hochheimer Wine, XXIV, b 643
Hochkirchen, battle of, 1758 (Austria), III, a 112
Hochschulen (Technical Education), XXIII, b 116
Höchstatt, battle of. See Blenheim
Hochwald, mountains (Oldenburg), XVII, a 779
Hock of Horse, XII, b 181
—— Wines, XXIV, b 635, b 641, b 643
Hockin's and Matthiessen's method (Electricity), VIII, b 43-4
Hocquart, Toussaint, admiral (Boscawen), IV, a *b* 59
Hocus Pocus Junior (Magic), XV, b 210
Höd (Æsir), I, a *b* 189
Hodæqus Kalauz (Hungary), XII, b 391
Hodaibiya, treaty of, 628 (Mohammedanism), XVI, b 580, a 581, a 582
Hodde, king (Tibet), XXIII, *b* 367
Hodeida, town (Beit el Fakih), III, b 440
Hödel, conspirator (Germany), X, b 460
Höder, god (Baldur), III, a 238
HODGE, Charles, theologian, XII, a b 43; (Dogmatic), VII, a 297; (Theology), XXIII, a 282
Hodge Podge, English law. See HOTCH-POT
Hodges, Nathaniel, physician (Plague), XIX, b 170, *b* 175, *a* 176, note
Hodgkin's disease (Pathology), XVIII, a 384
HODGKINSON, Eaton, engineer, XII, b 43; (Bridges), IV, a b 301, b 302; (Elasticity), VII, b 692, note, a b 693, notes, a 694; his formulæ for strength of struts (Bridges), IV, b 289-90
Hodgson, Bryan H., orientalist (Buddhism), IV, b 381; (Tibet), XXIII, a 365, a b 368, note
——, John, historian (Horsley), XII, b 212
Hodhaifa, general (Mohammedanism), XVI, b 626
Hodierna, Giambattista, mathematician (Palma), XVIII, a 196
Hodjent, town. See KHOJEND
Hodmadods, people (Hottentots), XII, a 323
HODMEZO - VÁSÁRHELY, town, XII, a 44

Hodograph, XII, a 44-6; (Diagrams), VII, a 130; (Gravitation), XI, a b 64; (Light), XIV, b 588; (Mechanics), XV, *a* b 689, *a* 692
Hodoser or Eseger See (Transylvania), XXIII, a 555
Hody, Humphrey, divine, XII, a 46
Hoe, promontory (Plymouth), XIX, b 248, a 249
Hoefer, Ferdinand (Alchemy), I, b 408, *a* 409, a 412, b 113
Hoefnagel, painter (Dodo), VII, a 279
Hoek, naturalist (Oyster), XVIII, a b 110
"Hoeks," party (Holland), XII, *b* 75, *b* 76
Hoel V. and VI., dukes (Brittany), IV, b 320
Hœne, god (Mythology), XVII, b 162
Hoernle, Rudolf, philologist (Hindūstānī), XI, b 750, note, a 751, *a* 752, note
Hoës, traveller (Turkestan), XXIII, b 680
Hoe's cylinder press (American Journalism), XVII, a b 883; (Newspapers), XVII, a 430, b 433; (Typography), XXIII, a 756
Hœy, town. See **Huy**
——, Jean de, painter (Lucas), XV, b 40
Hof, town, XII, a b 46
——, Sven, grammarian (Sweden), XXII, b 794
Hofaker and Sadler's law (Sex), XXI, a 758
Hofer, Andreas, patriot, XII, b 46–7; (Tyrol), XXIII, a b 759
Hoffmann, August Heinrich, poet, XII, a 47
——, Carl K., physician (Reptiles), XX, b 451
——, Caspar, physician (Harvey), XI, a 451; (Phrenology), XVIII, b 857
——, Charles Fenno, novelist. *b.* 1806, *d.* 1884 (American Literature), I, b 636; (Periodicals), XVIII, a 555
Hoffmann, Ernst Theodor Wilhelm, romancist, XII, b 47–8; (Germany), X, a 485
Hoffmann, Friedrich, physician, XII, b 48; (Medicine), XV, b 821–2
——, Gerhard, musician (Oboe), XVII, a 726
——, H., scientist (Fermentation), IX, b 83
Hoffmann, Johann Joseph, orientalist, XII, b 48–9; (Syriac Literature), XXII, a b 866, notes, a b 869 notes, b 871, note, *a* 876, b 883, a 886, a 893
——, Klementina, novelist (Poland), XIX, b 317
Hoffmann's kilns (Brick), IV, b 252
—— polariscope (Mineralogy), XVI, a 389
Hof-Gastein, village (Gastein), X, a 97
Hofhoof, town (Arabia), II, a 222, a 228, a 229
Hofmann, August Wilhelm, chemist, (Aniline), II, b 43, *a b* 44; (Coal Tar Colors), XVIII, b 901, a 902, a b 903
——, Friedrich, chemist (Chemistry), V, a b 399, a 404, b 406, a 500
Hofmann, Johann Christian Konrad von, theologian, XII, a b 49; (Theology), XXIII, a 289, a b 290
——, Johann Jacob, scholar (Encyclopædia), VIII, a b 177
Hofmann's blue (Coal Tar Colors), XVIII, a 904
—— furnace (Chemistry), V, b 472
—— vapor density apparatus (Chemistry) (Ill.), V, a 475
—— violet (Coal Tar Colors), XVIII, b 903
Hofmannswaldau, Christian Hofmann von, poet (Germany), X, a 475
Hofmeister, Wilhelm, botanist (Morphology), XVI, a 865; (Gelatin), X, *a* 119
Hofstede, Peter, theologian (Eberhard, J. A.), VII, a 534
Ho-fung Chow, tea district (China), V, b 553
Hog, Gentile food (Swine) (Ill.), XXII, b 810-3; (Agriculture), I, a b 355; cholera (Veterinary Science), XXIV, b 221; parasites (Veterinary Science), a b 223; pigmy (India), XII, b 780; wild (Hunting), a 412; (India), b 780
Hogan, Edmond, ambassador (Morocco), XVI, b 861
Höganäs, town (Helsingborg), XI, a 572
Hogarth, William, painter XII, b 49-52; (Æsthetics), I, a 192, a b 200; (Architecture), II, b 357; (Bribery), IV, b 248; (Butler, S.), a 524; (Caricature), V, b 92; (Churchill), a 670; (Thornhill), XXIII, b 335
Hogendorp, Gijsbert Karel van, statesman (Rotterdam), XXI, a 14
Hogg, James, poet, XII, a b 53; (Lockhart), XIV, a 770
——, John, naturalist (Ornithology), XVIII, a 35
——, Thomas Jefferson, author (Shelley), XXI, b 826, *a b* 827, a 831
Hoggar, plateau. See Ahaggar
Hogged vessel defined (Seamanship), XXI, b 633
Hoggets, lambs (Agriculture), I, b 350, *a b* 351, a b 352; fibre of (Wool), XXIV, b 689
Hogging of ships (Shipbuilding), XXI, *b* 855, a 856
Högni, myth (Nibelungenlied), XVII, *a* 488
Hog's Back, range (Surrey), XXII, b 728
Hogue. See La Hogue
Hohenburg, Herwart von. See Herwart von Hohenburg
Hohenelbe, town, XII, b 53
Hohenfriedberg, battle of, 1745 (Striegau), XXII, b 639
Hohenheim. See **Paracelsus**
Hohenlinden, battle of, 1800 (Austria), III, a 115; (France), IX, b 540; (Napoleon I.), XVII, a 211
Hohenlohe, family, XII, b 53 4
Hohenlohe, Alexander Leopold Franz Emmerich, priest, XII, a b 54
Hohenlohe, Friedrich Ludwig, prince, general, XII, a 54
Hohenlohe, Ludwig Aloysius, marshal, XII, a 54
—— -Neuenstein, family, XII, b 53
—— Schillingfurst, Chlodwig Karl Victor, Prince von (Vatican Council), XXIV, b 121
—— -Waldenburg, family, XII, *b* 53–4
Hohenmauth, town, XII, b 54
Höhenrauch, fog (Hanover), XI, a 399
Hohenstaufen, family (Empire), VIII, b 166; (Germany), X, b 439-42, a 468-9; (Holland), XII, a b 74; (Pisa), XIX, a 129; (Swabia), XXII, a 767
Hohenstein, town, XII, b 54
Hohenzollern, House of, XII, b 54–5; (France), IX, b 551; (Germany), X, b 416, a b 444, a 451, a 457, b 459; (Nuremberg), XVII, b 682; (Prussia), XX a 8
——, province (Prussia), XX, a b 18, *b* 20, b 22
—— -Hechingen, principality (Steuben), XXII, a 927
Hohe-Rad, mountain (Riesengebirge), XX, b 566
—— -Rain, mountain (Saxe-Weimar), XXI, a 365
Hoher Arber, mountain (Germany), X, b 402
Hohe-Tanne, mountain (Saxe-Weimar), XXI, b 364
—— -Vogelheld, mountain (Saxe-Weimar), XXI, a 365
Höheweg, avenue (Interlaken), XIII, b 195
Hohlflöte, stop (Organ). XVII, a 855, b 856
Hohneck peak (Vosges), XXIV, b 319
Hoh Sentis, mountain (Alps), I, *b* 550
Hoi-he, people (Turkestan), XXIII, b 680
Höijer, Benjamin, philosopher (Sweden), XXII, a 796
Hoiran Gol, lake. See Egerdir
Hoists (Lifts), XIV, b 577–80; furnace (Iron) (Ill.), XIII, b 307–9
Hôjô, family (Japan), XIII, *a* b 592
Höjsgaard, J., grammarian (Scandinavian Languages), XXI, a 390
Hök, Gabriel, teacher (Linnæus), XIV, a 678
Hok'kaidô circuit (Japan), XIII, *b* 579
Hokke or Nicheren, sect (Pilgrimage), XIX, b 101
Hokmah or Chokma, doctrine (Hebrew Literature), XI, a 535; (Israel), XIII, a 430, note
Ho-kow, tea district (China), V, b 552
Hokubu-Shoto islands (Lew-Chew Islands), XIV, a 489
Hokurikudô circuit (Japan), XIII, a b 579
Holar-Book (Iceland), XII, b 658
Holbach, Paul Heinrich Dietrich, Baron d', philosopher, XII, a b 55; (Evolution), VIII, a 666; (Diderot), VII, b 168, a 170
Holbein, family, painters (Schools of Painting) (Ill.), XXI, a b 457, *b* 463, b 465, a b 466
——, Ambrose, painter, XII, b 56
Holbein, Hans, the Elder, painter, XII, b 55-6
Holbein, Hans, the Younger, painter, XII, *a b* 56-8; (Caricature), V, a 92; (Drawing), VII, a 388; (Dürer), a b 478; (Engraving), VIII, b 389; (Erasmus), a 456; (Leprosy), XIV, a 469; (More), XVI, a 856; (Windsor), XXIV, b 633
——, Sigmund, painter, XII, a 56
Holberg, Ludwig, writer, XII, b 58-9; (Denmark), VII, b 79; (Drama), b 381, b 383, notes; (Norway), XVII, a 604; (Scandinavian Languages), XXI, *a* 390
Holborn street (London), XIV, b 830, a *b* 831, a b 842, b 848, a 850, a 852, b 854, a 858; Bars Market (London), a 837
Holcomb, Amasa, optician (Telescopic Work), XXIII, b 932
Holcroft, Thomas, dramatist, XII, b 59–69; (Drama), VII, b 378, note
Holden on Uranus (Astronomy), II, b 711
——, E. S., explorer (York), XXIV, a *b* 797, b 798
Holderlin, Johann Christian Friedrich, poet, XII, a b 60; (Hegel), XI, *b* 546, *a* b 547
Holderness, district (York), XXIV, b 784, a 785, a 786
Holebourne, district (London), XIV, b 827. See Holborn
Holeschau or Holesov, town, XII, b 60
Holibut or Halibut, fish, XII, b 60–1; (Ichthyology), XII, b 698, b 730; parasites of (Trematoda), XXIII, a 573
Holidays. See **Festivals**
Holing, mining process (Coal), VI, b 62
Holinshed, Raphael, chronicler, XII, a b 61
Holkar, title, XII, b 61; (India), b 843, a 845, (Mahrattas), XV, b 291, a b 293, *a b* 294; acquisition of dominions of (India), XII, a 842, *b* 843, *a* 844, *a* 845; (Indore), XII, a b 883
Holland (Plate I), XII, a 61–101
  Geography and Statistics, a 61–72
    bibliography, b 72
    boundary and coast line, a b 61–2
    climate, b 66
    coast industries, a b 63
    commercial features, a b 63, b 70–2

- HOLLAND, *continued*
  - GEOGRAPHY AND STATISTICS
    - communication, b 71
    - dykes and islands, b 62–3
    - education, b 69–70
    - finance, a b 68
    - geology and soil, a 64–5
    - government, b 67–8
    - industries, a 65, a 70, a b 71
    - national character, a b 72
    - population and nationalities, a b 67
    - religion, a b 69
    - water systems, b 65–6
  - HISTORY, a b 72–87
    - bibliography, b 86–7
    - Brussels revolt, b 86
    - Burgundian rule, b 75–7
    - counts of Holland, a 74–5
    - early inhabitants, a 72–3
    - foreign alliances, a b 82
    - French wars, a b 84–6
    - House of Orange, a 82–6
    - material prosperity, a b 76, b 80, a 83
    - Orange-Nassau family, a 77–83
    - struggle with Spain, b 77–82
    - theological conflict, b 81
    - Thirty Years' War, b 81–2
    - union of Brussels, b 79
    - union of Utrecht, b 79–80
    - wars with England, a 83–4, a b 85
  - LANGUAGE, a 87–93
    - consonants, a 89–91
    - early dialects, a b 87–8
    - grammar, b 92–3
    - vowels, a 91–2
  - LITERATURE, a b 93–101
    - chivalric spirit, a 93, a 94
    - drama, b 94–5, a 97–9
    - Flemish revival, b 101
    - history, b 100
    - humanism, a 96–7
    - psalms and hymns, b 95–6
    - religious drama, b 94, b 97
    - rhetoricians, b 94–5, b 96
- —— (Alva), I, a 570; (Brick), IV, a 251; (Canals), b 695, a 696–7; (Commerce), VI, b 179; (Concordat), b 215; (Contraband), a 285; (De Witt), VII, a b 125–6; (Finance), IX, b 157–8, a 167; (Fisheries), a 234; (Flushing), a 307; (Forests), b 349, *a* 350, a 352; (Formosa), b 367; (France), b 507, *a b* 508, *a* 509, *b* 510; (Frisians), *a* 692; (Grotius), XI, a b 194; (Howard), XII, b 334; (Independence), a 763; (Jansenism), XIII, a 577; (Jews), b 696; (Libraries), XIV, a b 531, a 551; (Liquor Laws), b 695; (Mennonites), XVI, *a b* 16; (Meteorology), a 126, a 128; (Monk), a 778, a 779, a 780; (Montecuculi), a 805; (National Debt), XVII, a 253; *a b* 254; (Newspapers), b 441, note; (Periodicals), XVIII, b 553; (Poor Laws), XIX, a 496; (Pottery and Porcelain), b 650–1; (Press Laws), b 732; (Railway), XX, b 261–2; (Rembrandt), b 385; (Rude Stone Monuments), XXI, a b 58; (William the Silent), XXIV, a b 615. See Dutch, etc.
- *Holland, Annals of* (Dousa), VII, b 327
- ——, annexation of (Napoleon I.), XVII, a 222; campaigns of Sir R. Abercromby in, I, *b* 41, a 42; coast of (Geology), X, *a* 236; commercial ascendency of (Political Economy), XIX, b 368; England and, 1778 (Laurens, H.), XIV, a 350; Jansenist church of (Episcopacy), VIII, a b 436; land subsidence of (Europe), VIII, b 598; Oyster fisheries of, XVIII, a b 111; philosophy in (Descartes), VII, b 109; press of (Periodicals), XVIII, a 550; union with Belgium, III, a 455–7
- ——, district (Lincolnshire), XIV, a 662, a 663
- ——, NORTH, province, XII, *a* 62, *a b* 64, a 66, a b 67, a 68, a b 69, *a* 70, b 73, b 74, a 75, *a b* 76, *b* 78, a *b* 79, b 81, *a* b 87, a 89, b 101–2
- ——, SOUTH, province, XII, *a* b 62, a 63, *a b* 64, a 66, *a* b 67, a 68, a b 69, a 70, *a* 73, b 74, a 75, *a b* 76, *b* 78, *a b* 79, b 81, a b 87, a 89, a 102
- ——, Henry, bookseller (Holland, P.), XII, b 102
- HOLLAND, Sir Henry, physician, XII, a b 102
- ——, Henry Fox, baron, IX, b 436; (Chatham), V, b 382
- ——, Henry Rich, earl of, XII, b 103–4
- HOLLAND, Henry Richard Vassall Fox, Lord, statesman, XII, b 102–4; (Brougham), IV, *a* b 338, b 340
- ——, John, inventor (Platinum), XIX, b 205
- HOLLAND, Philemon, translator, XII, b 102; (Camden), IV, b 649; (Hornbill), XII, a 172; (Ornithology), XVIII, a 7
- ——, Sir Richard, poet (Scotland), XXI, a 566
- ——, Saba Smith, lady, XII, a 103, a 104; (Smith), XXII, b 187, note, a 188
- ——, Stephen Fox, 2d lord (Brodie), IV, b 323
- ——, T. E., jurist (Law), XIV, b 361, a 362, a 364 note
- Holland-Fen (Lincoln), XIV, *b* 660
- Holland-House, XII, b 103–4
- Hollands, English beverage (Gin), X, b 537
- Hollandsch, dialect (Holland), XII, *a* 89, a b 92
- Hollandus, Isaacus, alchemist (Chemistry), V, a 398
- HOLLAR, Wenzel, etcher, XII, a b 104
- Hollengebirge, mountains (Salzkammergut), XXI, a 253
- Holles. See NEWCASTLE, dukes of
- Holley, A. L., engineer (Iron), XIII, b 339 note; converter of (Iron) (Ill.), b 353, a 354; steel formula of (Iron), b 348
- Hollinshed. See HOLINSHED
- Holloway prison (London), XIV, *a* 844
- HOLLY, plant, XII, b 104–6; (Arboriculture), II, a b 279, a 282; (Botany), IV, b 97, b 102, a 106
- HOLLYHOCK or Althea, plant, XII, a b 106; (Botany) (Ill.), IV, a 126; (Horticulture), XII, a 264
- *Holly Tree, The* (Holly), XII, a 105; (Southey), XXII, b 304
- Holm, Adolf, historian (Palermo), XVIII, b 172, b 174
- HOLMAN, James, traveller, XII, b 106
- Holmbury Hill (Surrey), XXII, a 729
- Holme, Thomas, surveyor (Philadelphia), XVIII, b 754
- Holmes, Oliver Wendell (American Literature), I, b 637, a b 638; (Sumner), XXII, a 934
- Holmes's Hole, harbor (Massachusetts), XV, a 618
- Holm Oak, XVII, b 713; (Holly), XII, a 105 note; (India), a b 778
- Holm-Thrush, XXIII, a 343
- Holmgren, ——, physicist (Light), XIV, b 582–3
- Holmium metal (Spectroscopy), XXII, a 391
- Holnek, mountain (Transvaal), XXIII, a 550
- Holocaust (Moloch), XVI, a 722, a 723
- Holocephala, sub-order (Ichthyology), XII, a b 683–4, a 694, b 699, a *b* 706, a 716, b 724
- Holocheilus, genus (Mouse), XVII, a 12
- Holochlamyda, sub-order (Mollusca), XVI, a b 672, a 673; (Snail), XXII, b 197
- Holocystis (Corals), VI, a b 340, a 341
- Holofernes, general (Judith), XIII, b 775
- Holograph Will, XXIV, a 603, *b* 605
- Holoka, garment (Hawaiian Islands), XI, b 472–3
- Holophilos, romancist (Greece), XI, b 134
- Holophotal light system (Lighthouse) (Ill.), XIV, a 526–8, b 629
- Holophrasm (America), I, b 604
- Holoptychius, genus (Ichthyology), XII, b 705
- Holoptychidæ, family (Ichthyology), XII, b 725
- Holostei, fishes (Ichthyology), XII, b 685, b 686
- Holostomidæ, family (Trematoda), XXIII, b 573
- Holothurians, order (Corals), VI, b 335; (Echinodermata) (Ill.), VII, *a* 544, a 550, a 554–5; (Parasitism), XVIII, a 264
- Holotricha, order (Protozoa), XIX, a b 888
- Holst, Frederick, medical writer (Norway), XVII, b 606
- ——, Hermann Edouard von, historian (United States), XXIII, a 789
- Holstein, province (Denmark, VII, *a* 74, b 75, a b 76, *b* 77, a b 78; (Schleswig-Holstein), XXI, a 432, a 433–4
- —— -Gottorp, dynasty (Russia), XXI, a b 107
- Holstenborg station (Greenland), XI, b 152
- Holstenius, Lucas, librarian (Milton), XVI, a b 339
- Holston pioneers (Tennessee), XXIII, b 194–5
- Holt, town (Denbigh), VII, *a* b 68
- HOLT, Sir John, chief justice, XII, b 106–7
- ——, Sir Thomas, lawyer, XII, a 107
- HOLTY, Ludwig Heinrich Christoph, poet, XII, b 107
- Holtzendorff, Prussian surgeon (Surgery), XXII, a 711
- Holtzmann, Heinrich J. (Acts of the Apostles), I, b 116, a *b* 117; (Gospels), X, *a* b 748, a 749; (Pastoral Epistles), XVIII, b 356
- ——, Adolph, philologist (Sanskrit), XXI, a 295, a 296
- Holtz's machine (Electricity) (Ill.), VIII, a b 96
- Holy Alliance, 1815, I, a 515; (Alexander I., Czar), a 435; (Austria), III, a 118; (Balance of Power), b 233; (Canning, George), IV, a 715; (Congress), VI, a 240; (France), IX, a 545; (Londonderry), XIV, a 866; (Monroe), XVI, a 788; (Spain), XXII, a 359; (United States), XXIII, a b 810
- —— Brotherhood or Santa Hermandad (Spain), XXII, *b* 340
- —— Coat of Treves, XXIII, a 588
- —— Communion. See EUCHARIST
- —— Cross, mountain (America), I, a 592; (Colorado), VI, b 145; (United States), XXIII, b 846
- —— Cross, mountains (Poland), XIX, a 318
- —— Face, relic (Jaen), XIII, a 551; (Veronica), XXIV, a 169
- *Holy Family*, paintings (Giorgione), X, a 543; (Mengs), XVI, b 14; (Michael Angelo), b 238, b 539; (Rembrandt), XX, b 337–8
- Holy Ghost or Holy Spirit (Gospels), X, b 744–6; (Theism), XXIII, b 258; function of (Christianity), V, b 599, a 604; (Inspiration), XIII, a 162, a 163; guidance of (Dogmatic), VII, b 291; procession of (Creeds), VI, b 496; (Greek Church), XI, b 139

Holy Grail (Chrestien de Troyes), V, a 597; (Genoa), X, b 139; (Romance), XX, a 660-1, b 661-2, a *b* 665; (Wolfram), XXIV, a 666
HOLYHEAD, town (Plan), XII, b 107-8; breakwater (Harbors and Docks) (Plate IX), XI, a b 411, a 415; quarries (Blasting), III, b 701; railway (Denbigh), VII, b 67
—— House, cathedral (Loreto), XV, b 5-6
HOLY ISLAND, XII, b 108; (Northumberland), XVII, b 578
—— Island (Clare), V, b 702
—— Isle (Arran), II, a 550; (Bute), IV, *a* 516
—— Junta (Padilla), XVIII, a b 135; (Spain), XXII, *a* 343
—— Lance, discovery of (Crusades), VI, a 553
—— land. See PALESTINE
—— League, 1511 (Cervantes), V, b 302-3; (France), IX, b 489; (Spain), XXII, a 342
—— Legion (Carthage), V, a 141
—— Maid of Kent. See BARTON, Elizabeth
——' office (Inquisition), XIII, a 98-101
—— of holies, oracle (Architecture), II, a b 344; (Temple), XXIII, a 182. See ADYTUM
HOLYOKE, city, XII, b 108
Holy Orders, XVII, a 844; (Nonconformity), b 546
—— Roman Empire, VIII, a b 166; (Coronation), VI, a 380; (Diet), VII, b 173; (Germany), X, b 434, a 452; (Popedom), XIX, b 510, a b 511, *sq.* See Empire, Holy Roman, and German Empire
Holyrood Palace (Edinburgh), VII, *b* 572, a 573, a b 575, a 579; (Glass), X, a 598; (Prerogative), XIX, a 693; (Schools of Painting), XXI, a 466
Holy See (Italy), XIII, b 468-9, a b 481, a 482, a 485, a 486, a 494. See POPEDOM
—— Sepulchre. See SEPULCHRE, Holy
—— Spirit. See Holy Ghost
Holystones (Fire), IX, a 202
Holy Synod (Russia), XXI, *b* 77, a 78
Holy War, allegory (Bunyan), IV, b 473
—— War (Ireland), XIII, a 270-1
—— War (Mohammedanism), XVI, a 578
HOLY WATER, XII, a b 109
HOLY WEEK, fast, XII, b 109
HOLYWELL, town, XII, b 109-10; (Flint), IX, a 287
Holy wells (Down), VII, a 331
Holywood, John, astronomer (Sacro Bosco), XXI, b 148; (Scotland), b 568
HOLZMINDEN, town, XII, a 110; circle (Brunswick), IV, b 360, a 361
Holzweissig (Grammar), XI, b 36, b 39
Homacanth (Ichthyology), XII, b 674
HOMAGE, ceremony, XII, a 110; (Adoration), I, b 149; (Knighthood), XIV, b 115-6; (Mohammedanism), XVI, b 574, a 575, b 580; (Salutations), XXI, b 248; to English kings (Scotland), b 501, a b 502, a 505, a 506, b 507, a b 509, a 510, a 513
Homalodontotherium, dentition of (Mammalia), XV, b 355
Homalogonatæ, class of birds (Ornithology), XVIII, b 43
Homaloidal space (Measurement), XV, b 670
Homalopsidæ, family (Snakes), XXII, a 203
Homans, Sheppard, actuary, (Insurance), XIII, b 189, a 190
Homaxonia, organic forms (Morphology), XVI, b 870
HOMBERG, Wilhelm, physicist, XII, b 110; (Chemistry), V, b 399, a 401
HOMBURG - vor - der - Höhe, town (Plan), XII, b 110-11
—— province (Hesse Homburg), XI, b 697
Home, Daniel Dunglas, medium (Spiritualism), XXII, b 420, b 421, a b 422
——, Sir Everard, anatomist (Hunter), XII, b 400 note, a b 401 notes, a b 402, a b 403, note 1. b 404, *a* 405; (Swift), XXII, *a* 799
——, Francis, inventor (Bleaching), III, b 704
——, Henry. See KAMES
HOME, John, dramatic poet, XII, a b 111; (Drama), VII, a 378; (Robertson), XX, *a* 615; (Witherspoon), XXIV, b 906-7
Homebush, suburb (Sydney), XXII, a 847
Home-industry leagues (Protection), XIX, b 933
Home Journal (Willis), XXIV, *a* 901
HOMEL or Gomel, town, XII, b 111
Homer, measure (Weights and Measures), XXIV, *b* 512
HOMER, poet, XII, b 111-25
analogies, a 124-5
ancient accounts of, b 111-12
bibliography, a b 125
chorizontes, a b 123
epic recitation, a 113-14
Iliad, structure, b 120-2
Odyssey, structure, a 122-3
study of, a b 118-20
Alexandrian criticism, a b 118
conservative school, a 120
Pisistratus, a 119-20
Venetian scholia, b 118
Wolfian theory, b 118-19, a 120
style, b 123-4
time and place of, a 114-8
evidence of influence, a 118
evidence of language, a 117-18
historical evidence, b 114-17
—— (Anatomy), I, a 701; (Aristarchus), II, b 443; (Ballads), III, b 245, b 246; (Bronze), IV, b 331; (Chastelain), V, b 377; (Cimmerii), a 682; (Clarke), a b 709; (Corfu), VI, a b 351; (Dictys Cretensis), VII, a 168; (Dream), b 392; (Flaxman, J.), IX, b 261; (Graces), XI, a 24; (Greece), a 84, b 88, b 112, b 119-20, *a* b 122-3; (Hephæstus), *a* 605; (Isaac I.), XIII, b 384; (Medicine), XV, a 809-10; (Messenia), XVI, b 57; (Mythology), XVII, b 160-2, b 164; (Odysseus), *b* 749; (Olive), b 784; (Onomacritus), a 796; (Phœnicia), XVIII, b 818; (Physiognomy), XIX, a 7; (Poetry), b 278; (Romance), XX, a 654 note; (Satire), XXI, *a* 333; (Slavery), XXII, a 138; (Smyrna), a 197; (Surgery), b 708; (Taboo), XXIII, b 22, a 23; (Tales), b 32, a b 33; (Thucydides), a 346, a 347; (Tiryns), a b 435, notes; (Troad), b 615, b 619-20; (Virgil), XXIV, a b 267; (Zeus), *a* 821
—— on the arts (Archæology), II, b 302, *a b* 303; (Metal-Work), XVI, a 78, b 79; on Commerce, VI, b 176; influence on Round Table stories (Romance), XX, a b 659
——, manuscripts (Palæography), XVIII, a b 150, b 151, a 152, a 155, a b 167, a b 169
——, translations of (Cesarotti), V, a 310; (Chapman), a b 344, a 345; (Dacier, A. L.), VI, b 669-70; (Derby), VII, b 97; (Pope), XIX, *a* 500
Homeric dialect (Greece), XI, b 119-20; Dictionary, VII, a b 158; *Hymns*, XII, a 612; (Greece), XI, b 123; *to Apollo*, II, b 162, a 163; *to Demeter* (Mysteries), XVII, a *b* 134; *to Pan*, XVIII, b 211
"Homer of Brabant" (Houwart), XII, b 332
Homeridæ, minstrels (Homer), XII, b 113, a 119; (Scio), XXI, a *b* 487
Homerites, race. See Himyarites
Homer's Chain (Alchemy), I, a 408, a 411
Home rule (Government), XI, a 20; (Iceland), XII, a 657; (Ireland), XIII, b 277
Homery or Humery, Dr. (Typography), XXIII, a 728, a 731, b 733, a 734
Home secretary (Criminal Law), VI, a 522; (Ministry), XVI, a 496
HOMESTEAD, United States system, XII, b 125-7; (Greeley), XI, b 144; (Protection), XIX, b 939; (United States), XXIII, a 812, a 824, a 883
Homesteads (Servia), XXI, b 719-20; erection of (Agriculture), I, a b 274
Homewort, plant (Houseleek), XII, b 331
HOMEYER, Karl Gustav, jurist, XII, b 127-8
HOMICIDE, XII, a b 128; (Crime), VI, b 516, a 517; (Draco), VII, a 333; (Homer), XII, a 115; (Insanity), XIII, b 112; (Medical Jurisprudence), XV, b 790-2; (Murder), XVII, *a b* 59; (Sacrifice), XXI, b 144; clerical (Abbott), I, a 30; in regal period (Roman Law), XX, *a* 693, note
Homildon Hill, battle, 1402 (Percy), XVIII, a 534
Homiletics, XII, b 128-9
Homiliarium. See HOMILY
Homilies (Ailred), I, b 377; (Asterius), II, b 643; (Chrysostom), V, *a* b 661; (Cranmer), VI, b 487; (England, Church of), VIII, a 337, a 340; (English Literature), a 363; (Gregory I.), XI, a 157; (Gregory Illuminator), XI, b 160; (Origen), XVII, a 865; (Sa'di), XXI, a 151; (Scandinavian Languages), XXI, *a* 384, b 385; (Simon Magus), XXII, *b* 88
——, Ælfric's, I, b 164; (English Language), VIII, *b* 352, 359; of Clement XI. (Guidi), XI, b 228; *Clementine.* See *Clementine Homilies*
——, *Festal* (Syriac Literature), XXII, a 872, b 890; Jacob of Edessa (Syriac Literature), a b 882; metrical (Syriac Literature), a b 870, b 883, b 884, a 897
Homilite (Mineralogy), XVI, b 426
HOMILY, HOMILIARIUM, BOOKS OF HOMILIES, XII, b 128-9
Homing instinct (Birds), III, a 665, b 666; (Instinct), XIII, a b 166
Hominidæ, man (Mammalia), XV, *b* 451
Hommage à Händel (Moscheles), XVI, b 882
Hommel, philologist (Ural-Altaic), XXIV, a 7
Hommock or hummock lands (Mississippi), XVI, b 544
Homo Apostolicus (Liquori), XIV, b 641, a 642
Homocœla, order (Sponges), XXII, a b 437, b 438, b 444
Homoderma, genus (Sponges) (Ill.), XXII, a *b* 428-9, b 437, b 438, b 443
Homodermadæ, family (Sponges), XXII, b 438
Homodont dentition (Mammalia), XV, a 355
Homodynamy (Morphology), XVI, b 871
HOMŒOPATHY, XII, b 129-32; (Hahnemann), XI, b 333-4
Homogenea (Protozoa), XIX, a b 860
Homogeneity or Homogeneousness, defined (Elasticity), VII, b 697; (Magnetism), XV, a 245; (Vieta), XXIV, a 242
Homogeneous light (Wave Theory), XXIV, b 447, b 452, *b* 458, a 476; matter (Elasticity), VII, a b 694, a 698; strain (Mechanics), XV, b 700-1; and stress (Elasticity), VII, b 710

Homogenesis (Abiogenesis), I, b 51
Homogeny (Morphology), XVI, a 872
Homologumena, books of Scripture (Antilegomena), II, b 113; (Canon), V, a 10 note
Homology in organic development (Morphology), XVI, a 866, b 871; (Skeleton), XXII, b 113 note; (Zoology), XXIV, b 846; of bone (Anatomy), I, b 751; of muscles (Anatomy), a 739; of skeleton (Anatomy), a 728–30
Homologous organic compounds (Chemistry), V, a b 478
Homolopsis, genus (Crustacea), VI, b 581
Homonomy (Morphology), XVI, b 871
Homonyms (Mythology), XVII, a b 146, a 148
"Homoousion" in the Nicene Creed (Arius), II, a 472; (Athanasius), b 726; (Creeds), VI, a 496
Homophones (Alphabet), I, a b 533; (Hieroglyphics), XI, *a* b 710, *a b* 712, *a* 713, *a* b 714
Homoplasy (Morphology), XVI, a 872; (Sponges), XXII, b 442–3; (Zoology), XXIV, a 847
Homoptera, sub-order (Insects), XIII, a 160
Homoquinine, drug (Quinine), XX, a 192
Homo Socraticus, argument (Scholasticism), XXI, b 440, a 442, b 447
Homostaura, organic form (Morphology), XVI, b 870
Homotaxis, identity in arrangement (Geology), X, b 285, a 286, a 289
Homotypy (Morphology), XVI, b 871
Hompesch, Ferdinand, grandmaster (St. John of Jerusalem), XXI, *a* 184
Homra, Hammada al, plateau (Sahara), XXI, a 158
Homs, town and lake (Syria), XXII, b 860. See HEMS
Hon, Egyptian measure (Weights and Measures), XXIV, *a b* 512
Honain ibn-Ishák, lexicographer (Arabian Philosophy), II, a 234; (Syriac Literature), XXII, b 890-1
Honan, island (Canton), V, a b 34
Ho-nan, province (China), V, *a* 548, a 550, b 551–2, *a* b 559, b 561, *a b* 562, *a* 564, b 565
Ho-nan Foo, town (China), V, *b* 551
HONDA, town, XII, a b 132; (Colombia), VI, b 137, b 138, b 139
Hondecoeter, Gisbert d', painter, XII, *b* 132
HONDECOETER, Melchior d', painter, XII, b 132–3
Hondius, Hendrik, engraver (Mercator), XVI, b 34
——, Jodocus, geographer (Globe), X, *b* 608, a 609
HONDURAS, country (Plate III, vol. ix.), XII, a 133-6; (Caribs), V, b 91; (Columbus), VI, a b 157; (Comayagua), a 159; (Guatemala), XI, a 214; (National Debt), XVII, b 253; antiquities of (America), I, *a* 609
HONDURAS, BRITISH (Plate III, vol. xi.), XII, a 136-8; (Jamaica), XIII, b 558; (Patents), XVIII, a 362
—— gum (India-Rubber), XII, a 879
HONE, utensil, XII, a b 138
HONE, William, satirist, XII, b 138–9
Honecourt, Wilars de, architect (Perpetual Motion), XVIII, a 566
Honein ibn-Ishak. See Honain ibn-Ishak
Hone-stone, Arkansas (Coal), VI, b 56
HONEY, XII, a 139–42; (Canada), IV, a 683; (Europe), VIII, b 610; (Gallas), X, a 35; (Greece), XI, b 79; (Sugar), XXII, b 655, a b 656
Honey-badger, animal (Ratel), XX, b 300-1
—— Bear, III, b 398
—— -Bee, III, a 418, a 434
—— Buzzard, IV, a 537
Honeycomb (Bee), III, b 422; moth (Butterflies), IV, a 528
—— in Saracenic Architecture, II, b 391
Honey dew (Bee), III, b 428
HONEY-EATER or Honey-Sucker, bird, XII, b 142–3; (Birds), III, a b 641, a 642, b 643; (Mimicry), XVI, b 353
—— extractor (Bee), III, a 433
HONEY-GUIDE, bird, XII, a b 143
—— harvest (Bee), III, b 433
—— Lane Market (London), XIV, a 837, b 838
HONEYSUCKLE, plant (Ill.), XII, b 143–4; (Botany) (Ill.) IV, *b* 84, a 91, a 103, a 139
HONFLEUR, town, XII, a b 144; harbor (River Engineering), XX, a 593
Hong-Kiang or Red river (Cochin China), VI, a b 86, b 87
HONG-KONG, island and town (Map), XII, b 144-6; (China), V, b 565; (Coolie), VI, a b 297; (Patents), XVIII, a 362; Observatory, XVII, a 737
Hong merchants (Canton), V, b 34
Honiball's or Porter's Anchor, II, *b* 7, a 8
HONITON, town, XII, a b 146; Lace, XIV, b 189
Honmokumisaki, promontory (Yokohama), XXIV, a b 782
Honolulu, city (Hawaiian Islands), XI, b 473, *a* b 474
HONOR, TITLES OF, XXIII, b 444-6
—— land (Manor), XV, a 504
Honorable, as Title, XXIII, a 446
Honorarium, fee (Advocate), I, b 161
Honoratus of Arles, monk (Hilarius), XI, a 726; (Missions), XVI, a 535; (Salvian), XXI, b 250
Honorific Sacrifice, XXI, a 141–4
Honorine Jobert, plant (Horticulture), XII, b 260
HONORIUS I., pope, XII, b 146; (Leo II.), XIV, b 449; (Monothelites), XVI, a 785
—— II., anti-pope (Alexander II.) I, a 430; (Popedom), XIX, a 513; (Rome), XX, a 809
HONORIUS II., pope, XII, b 146
HONORIUS III., pope, XII, b 146; (Ireland), XIII, a 266; (Italy), a 485; (Popedom), XIX, a 515, b 524; (Portugal), a 557
HONORIUS IV., pope, XII, a 147
HONORIUS, Flavius Augustus, emperor, XII, b 146; (Alaric), I, a *b* 392; (Britannia), IV, b 319; (Claudianus), V, *b* 712; (Games), X, a 60; (Israel), XIII, a 440; (Popedom), XIX, a 506; (Roman Law), XX, *b* 729, a 730; (Rome), b 797, a b 798, *a* 799; (Rutilius), XXI, b 121; (Stilicho), XXII, b 578
Honors, cards (Whist), XXIV, b 576
Hont river (Scheldt), XXI, a 406
HONTHEIM, Johann Nikolaus von, theologian, XII, a 147; (Popedom), XIX, a 522, b 523
HONTHORST, Gerard van, painter, XII, a b 147
——, William, painter, XII, b 147
Honved, home-guard (Hungary), XII, b 388
HOOCH, Pieter de, painter, XII, b 147–8
Hoo-CHOW-FOO, city, XII, a 148
Hood of nautilus (Mollusca), XVI, b 499
——, Mount (America), I, b 595; (Oregon), XVII, a 846; (United States), XXIII, a b 851
HOOD, John Bell, general, XXIII, b 838; (Thomas), b 938, a 939; (United States), a 828
HOOD, Samuel, viscount, admiral, XII, b 149–50
HOOD, Thomas, poet and humorist, XII, b 148-9
HOOD, Tom, novelist, XII, b 149
Hooded Crow, VI, a b 546; snake (Cobra), b 83
Hoods (Costume), VI, *b* 414, b 415, a b 420; academic (Costume), a 411
Hoofs (Horse), XII, a b 178, b 179, a 182, b 198; (Mammalia), XV, a 351; (Skeleton), XXII, b 115
HOOFT, Pieter Cornelissen, poet, XII, a b 150; (Holland), XII, a 97
HOOGEVEEN, village, XII, b 150
Hooge Veld, uplands (Africa), I, *b* 224, *a* 228; (Transvaal), XXIII, a 551
Hooghe, Romain de, artist (Caricature), V, b 92
HOOGHLY or Húgli, district and town, XII, a b 151; factory (India), *b* 838
HOOGHLY or Húgli, river, XII, b 150–1; (Calcutta), IV, b 583, a 585; (Ganges), X, *a* 62; (Surveying), XXII, b 744 note; (Twenty-four Parganas), XXIII, b 715, a 716
Hoogstraten, Jacob van, polemic (Luther), XV, b 74
HOOGSTRATEN, Samuel Dirksz van, painter, XII, b 151-2
Hoogvliet, Arnold, poet (Holland), XII, b 99
Hook, naturalist (Zoology), XXIV, a 840, b 842, a 855
Hook, James, composer, XII, a 152
HOOK, Theodore Edward, novelist, XII, a b 152
HOOK, Walter Farquhar, divine, XII, b 152
Hookah (Pipe), XIX, a b 120
HOOKE, Robert, physicist, XII, b 152-3; (Acoustics), I, *b* 100; (Amontons), b 654; (Astronomy), II, a 705; (Attraction), III, a 57; (Chemistry), V, b 399; (Micrometer), XVI, a 252 note; (Microscope), a 269; (Newton), XVII, *b* 453, b 454, *a b* 455, a 456; (Pneumatics), XIX, a 258; (Sextant), XXI, b 760-61; (Sounding), XXII, b 294; (Thermometer), XXIII, b 308
Hooker, Mount (America), I, b 595
——, John, chamberlain, XII, a 154
——, Sir Joseph Dalton, botanist (Botany), IV, b 72-3; (Distribution), VII, a b 249, *a* b 250, b 251, *b* 252; (India), XII, *b* 778, a 779 note; (Lichens), XIV, a 566
HOOKER, Joseph, general, XII, b 153; (United States), XXIII, a 826, a 827, a 837
——, Joseph, student, XII, a 156
HOOKER, Richard, theologian, XII, a 154–6; (Cathedral), V, b 197, b 198; (English Literature), VIII, a 376; (Episcopacy), *b* 430, a 431, a b 432; (Jesus Christ), XIII, a 682; (Whitgift), XXIV, b 585
——, Thomas, preacher (Cambridge), IV, b 647; (Independents), XII, b 764
HOOKER, Sir William Jackson, botanist, XII, a 156–7; (Acclimatization), I, *a* 82; (Botany), IV, b 71; (Palm), XVIII, a 195
—— and Ball's expedition (Morocco), XVI, a 858, b 859
Hooke's Anemometer, II, b 23; double coupling (Mechanics), XV, a 772; law (Elasticity), VII, a b 697, a 710; (Mechanics), XV, a 711, a 725; (Strength of Materials), XXII, b 624; (Mechanics), XV, a b 771
Hookhead Point (Wexford), XXIV, b 549
Hookhong, town (Burmah), IV, a 493
Hooks of Tape-worms, XXIII, b 54, a 55, a 57, b 59, b 60

Hooks, fishing (Angling), II, a b 35
—— and Cods, parties (Holland), XII, b 75
Hoo-Kwang, province (China), V, b 561, b 562, a 564
Hook water-gauge (Hydromechanics) (Ill.), XII, a b 500
Hoolágoo, general. See Hulagu
HOOLE, John, dramatist, XII, a 157; (Johnson, S.), XIII, a 733
Hoolock (Ape), II, a 132, b 137
Hoomerhop, bay (Hoorn), XII, a 159
Hoo-nan, province (China), V, a b 548, b 549, b 553–4, a 566
HOOPER, John, bishop, XII, a b 157; (Baptists), III, a 305
Hoo-pih, province (China), V, a b 548, b 553, a 566
HOOPING-COUGH, XII, b 157–8
Hoop Iron, analysis, XIII, b 327
HOOPOE, bird (Ill.), XII, a 158–9; (Arabia), II, a 212; (Birds), III, b 623, a 669
Hoop-petticoat narcissus, plant (Horticulture), XII, b 265
Hoops (Costume), VI, b 421, *b* 422; (Croquet), b 537–8
HOORN, town, XII, a b, 159
Hoosac mountains (Massachusetts), XV, a 618; tunnel (Massachusetts), a 620; (Blasting), III, a 702
HOP, plant (Ill.), XII, b 159–61; (Botany) (Ill.), IV, a 81, b 84, b 107, b 110, b 113, a 139; (India), XII, a 803; crop (United States), XXIII, a 878; culture (Brewing), IV, a b 243; (Germany), X, b 405; (Scot, R.), XXI, b 491; Mildew, XVI, b 306; poles (Larch), XIV, b 311. See Hops
Hopatcong, lake (New Jersey), XVII, b 406
Hope, Loch and river (Sutherland), XXII, a b 764
——, organ of (Phrenology), XVIII, b 859
——, A., general (Linlithgow), XIV, b 675
——, Adam, teacher (Irving, E.), XIII, a 381
——, James, physician (Heart), XI, a 493
HOPE, Thomas, author, XII, b 161–2
Hopeite (Mineralogy), XVI, b 422
Hope Leslie, story (Sedgwick, C. M.), XXI, a 915
Hopeton wheat (Agriculture), I, a 315
Hopetoun House (Linlithgow), XIV, b 676
Hophra, Pharaoh, king. See APRIES
Hôpital, Michel de L'. See L'HOPITAL
Höpken, Anders Johan von, statesman (Sweden), XXII, b 794
Hopkins, economist (Socialism), XXII, a 225
HOPKINS, Ezekiel, bishop, XII, a 162
——, Esek, commander-in-chief U. S. navy (Bahamas), III, a 205; (Navy), XVII, b 309
——, G. M., astronomer (Gyroscope), XI, b 314, a 316
——, John, translator (Hymns), XII, a 624
——, Matthew, witch-finder (Witchcraft), XXIV, b 654
HOPKINS, Samuel, theologian, XII, a b 162; (Slavery), XXII, b 908
——, W., geologist (Earthquake), VII, b 526, a 527, a 530; his theory of earth's interior (Geology), X, a 201
Hopkins' experiment (Acoustics), I, a 109
HOPKINSON, Francis, author, XII, b 162; (American Literature), I, b 633
Hopkinson's experiments (Electricity), VIII, b 37–8
Hoplitai, troops (Army), II, a b 491
Hoplocephalus, genus (Snakes), XXII, b 201, b 207, a 208, b 209
Hoplognathidæ, family (Ichthyology), XII, a 727
Hoplonemertea, sub-order (Nemertines) (Ill.), XVII, b 335, b 336, a b 337, *a b* 338, *a b* 339, a b 340
Hoplophoridæ, fossil family (Mammalia) (Ill.), XV, *a* 391, b 392
Hoplopleuridæ, family (Ichthyology), XII, a 733
Hoplorhynchus (Protozoa) (Ill.), XIX, b 877, b 878
Hopoterodontes, sub-order (Snakes), XXII, b 202
Hoppe, Edmund, physicist (Flame), IX, a 249
Hopper (Pianoforte), XIX, *a* 79, a 81, b 82
Hoppe-Seyler, chemist (Gelatin), X, a b 117, a 119; his analysis of chlorophyll (Physiology), XIX, *a* 60
HOPPNER, John, painter, XII, b 162–3
Hops (Agriculture), I, b 264, b 265, a 338–9; (Brewing), IV, b 242–4, a 245, a 246; (France), IX, a 459; (Hereford), XI, b 652, a 653; (Kent Co.), XIV, a b 40; (Narcotics), XVII, a 237, 238; (Nuremberg), a 682; (Saaz), XXI, b 131. See Hop
Hopson, Charles R., physician (Chemistry), V, b 400–1
Hor country (Tibet), XXIII, b 362, b 363, a 365
HOR, mount, XII, a 163; (Idumea), b 737
HORACE, Quintus Flaccus, poet, XII, a 163–9; (Archilochus), II, *b* 332; (Augustus), III, a b 72; (Daru), VI, b 730; (Fable), VIII, a 734; (Gaelic), X, b 73; (Harbors and Docks), XI, a 414, note; (Juvenal), XIII, *a b* 813, a 814, *b* 815; (Latin Language), XIV, a b 335; (Livy), a 731; (Mæcenas), XV, b 195, *b* 196; (Ovid), XVIII, a 82, a 83, a b 85, a 87; (Persius), a b 674, a b 675, a b 676; (Persia), a 611 note; (Pindar), XIX, *a* 109; (Plautus), *b* 228; (Roman Literature), XX, a 742–3; (Satire), XXI, b 333; (Terence), XXIII, a 205; (Tibullus), b 371, a 372; (Virgil), XXIV, a b 268, *a* 269, b 270; Naples edition (Bibliography), III, a 568; by Pine (Bibliography), b 564; *Odes*, set to music (Goudimel), XI, b 3
Horæ Hebraicæ et Talmudicæ (Lightfoot), XIV, a *b* 620
—— *Paulinæ* (Paley), XVIII, a b 186
Horary Zodiac, Chinese, XXIV, b 831, a 832
HORATII, champions of Rome, XII, b 169–70
Horbachite (Mineralogy), XVI, b 407
Horca, La, city (Chillan), V, a 543
HORDE, town, XII, a 170
Hordeæ, tribe (Grasses), XI, a 53
Hordeum or barley (Brewing), IV, b 236, b 237
Hore, captain, explorer (Tanganyika), XXIII, a b 50; (Zaire), XXIV, b 801, a 802
Horeb, mount (Israel), XIII, a 407, note; (Sinai), XXII, *b* 95; Elijah on, VIII, a b 127
HOREHOUND, herb (Ill.), XII, a b 170; (Horticulture), b 302
Horen, journal (Cotta, J. F. F.), VI, b 426; (Goethe), X, b 651, a b 652; (Schiller), XXI, a 414
Horesti, people (Fife), IX, b 133
HORGEN, village, XII, b 170
Horim, tribe (Idumea), XII, a 738; (Troglodytes), XXIII, b 620
HORITZ, town, XII, b 170
Horizon, artificial (Navigation), XVII, b 280, a 281, note; (Sextant), XXI, b 761–2
——, enlargement of sun and moon at (Astronomy), II, a 673
——, rational (Geography), X, b 176
Horizons, fossiliferous (Geology), X, b 287, a 288
Horizontal angles, measuring (Surveying), XXII, b 734, a b 735
—— engines (Steam-Engine) (Ill.), XXII, a 538–40; marine (Steam-Engine), b 543
—— escapement (Watch) (Ill.), XXIV, b 417, a 418
—— photo-heliograph (Telescopic Work), XXIII, a 935
—— steam-hammer (Iron), XIII, b 336–7
—— theodolite measurement of (Surveying), XXII, a b 756
—— transport (Mechanics), XV, a b 783
—— and vertical systems of harmony (Rameau), XX, b 277
Horko district (Tibet), XXIII, a b 363
Hormayr, Joseph von, Sr., chancellor, XII, b 170
HORMAYR, Joseph, Baron von, statesman, XII, b 170
HORMISDAS, pope, XII, b 170–1; (Canon), V, *b* 12
Hormizd I., king (Persia), XVIII, b 619
—— II., king (Persia), XVIII, a 620
—— IV., king (Persia), XVIII, b 624
Hormuz, city. See ORMUS
HORN, XII, a 171; (Buttons), IV, b 532, a 533; (Combs), VI, a b 159; (Hornbill), XII, b 172, note, a b 173; (Rhinoceros), XX, a 536. See Horns
——, cape. See Cape Horn
HORN, French, musical instrument, XII, b 171–2
Horn or Hoorn, Philippe de Montmorenci Nivelle, count de (Egmont), VII, b 606; (Holland), XII, *b* 77, *a* 78
Horn and Rimenhild (Romance), XX, a *b* 674–5
HORNBEAM, tree, XII, a 172; (Arboriculture), II, a 278
HORNBILL, bird (Ill.), XII, b 172–4; (Birds), III, a 617, b 619, *b* 627, a 669
Hornblende, mineral (Geology), X, a 203; (Granite), XI, a 44; (Jade), XIII, b 549; (Mineralogy) (Ill.), XVI, a 380, b 384, a 386, b 387, a 392, a 433, note, a b 435; (Mining), a 461
—— andesite (Geology), X, b 209; flux (Iron), XIII, b 303; schist (Geology), X, b 211
Hornblower, Jonathan, inventor (Steam-Engine), XXII, *a* 495, a 514; (Watt), XXIV, b 435, a 436
HORN BOOK, XII, a 174
Hornby Hills, mountains (Falkland Islands), IX, a 15
HORNCASTLE, town, XII, a b 174
HORNE, George, bishop, XII, b 174; (Hutcheson, J.), b 427; (Jones, W.), XIII, b 750, a 751; (Smith, A.), XXII, a 180
——, John, clergyman and politician. See Tooke, John Horne
——, J. van, physiologist (Embryology), VIII, b 151
——, Richard Hengist, poet (Drama), VII, a 379
HORNE, Thomas Hartwell, theologian, XII, b 174–5; (Bibliography), III, a 563, b 566, a 573, a 574
Horned Owl, bird, XVIII, a 94; pout, fish (Siluridæ), XXII, a 75; screamer, bird (Jacana), XIII, b 541; Wavey, bird (Goose), X, a 692
HORNELLSVILLE, town, XII, a 175
Hornemann, Friedrich K., traveller (Africa), I, *b* 220
HORNER, Francis, political economist, XII, a b 175
Horner, W. G., mathematician (Algebra), I, b 455; (Equation), VIII, b 443, a b 444; his synthetic division (Algebra), I, a 464
Hörnesite (Mineralogy), XVI, a 421
Hornet, insect (Bee), III, a 430; (Wasp) (Ill.), XXIV, a 412, a b 413
Hornisgrinde, summit (Würtemberg), XXIV, b 735
Hörnli, town (Thurgau), XXIII, *b* 351
Hornpie, bird (Lapwing), XIV, a 309 note

- HORNPIPE, dance, XII, b 175
- Horn quicksilver (Calomel), IV, b 629
- Horns (Antelope), II, b 89, a 90, a 91; (Deer), VII, a b 22; (Ibex), XII, b 640-1; (Mammalia), XV, a 351, b 437; (Sheep), XXI, b 820, a 821; nature of (Skeleton), XXII, b 115, a b 116-7
- Hornsea, town (York), XXIV, b 784, b 785
- Hornsey, town (London), XIV, a 827, b 833, b 856
- Horn silver, XXII, a 79; mine (United States), XXIII, a 868
- Hornsjö, lake (Oland), XVII, a 774
- Horns of Hattin (Galilee, Sea of), X, b 27
- Hornstone (Geology), X, b 212; (Mineralogy), XVI, a 405, b 437
- Horn work (Fortification) (Ill.), IX, b 388
- Höroldt, George, potter (Pottery and Porcelain), XIX, b 659
- Horologia (Clocks), VI, a 13
- *Horologium* (Huygens), XII, b 431; *Oscillatorium* (Huygens), a 432
- —— of Andronicus (Athens), III, a 9; (Attica), a 52
- Horopter, visual line (Eye) (Ill.), VIII, a b 723; (Stereoscope), XXII, a 566
- Horoscopes (Astrology), II, b 648; (Magic), XV, b 204
- Horpa dialect (Tibet), XXIII, b 368
- Horrebo or Horrebow, Pieter, astronomer (Roemer), XX, a 636
- *Horreum Mysteriorum* (Syriac Literature), XXII, a 899
- HORROCKS or Horrox, Jeremiah, astronomer, XII, b 175-6; (Astronomy), II, a 659
- HORSE (Ill.), XII, a 176-210
  - anatomy, a b 180-4
    - bibliography, b 184
    - circulatory and respiratory organs, a b 184
    - dentition, b 182-3
    - digestive organs, a 183-4
    - reproductive system, b 184
    - skeleton, a 180-2
  - history, management, and breeding, a 184-99
    - cart-horse, a 196
    - charger, a b 195
    - hack, b 194-5
    - harness-horse, b 195-6
    - hunters, a 191-4
    - in early England, b 184-7
    - race-horses, b 186-91
    - stable management, a b 196-9
    - thoroughbreds, b 186-9
  - horsemanship, a 199-203
  - horse-racing, a 203-210
    - American running, a b 207
    - American trotting, a b 208-10
    - Ascot races, b 205, b 206
    - Derby and Oaks, b 205, b 206
- HORSE, *continued*
    - handicaps, a b 206
    - St. Leger races, a b 205, b 206
  - palæontology, a 176-8
  - zoology, a 176-80
- —— (Afghânistân), I, b 209, a 210, b 218; (Africa), a 232; (Arabia), II, b 209-11; (Breeds, etc.), IV, a 220, a 221, a 222; (Distribution), VII, a b 240, b 246-7, a 248; (Egypt), b 616-17, b 638; (Morocco), XVI, a 860; (Murrain), XVII, a 65; diseases of (Veterinary Science), XXIV, a 217-20; force of blood circulation in (Vascular System) (Ill.), b 105, *a* b 108, a 110, b 116, b 117, a 118; lock-jaw in (Pathology), XVIII, a 400; melanosis of (Pathology), b 412; respiration of (Mammalia), XV, b 368; warts on (Pathology), XVIII, a 386. See Horses
- ——, sign in Zodiac, XXIV, b 831
- ——, fossil, XII, a 176-8; (America), I, b 600; (Geology), X, *b* 324; (Mexico), XVI, a 230; (Variation and Selection), XXIV, a 88; (Zoology), b 925-6
- ——, wooden (Troad), XXIII, a 260
- —— Artillery, II, a 578, a 579; (War), XXIV, b 381
- HORSE-CHESTNUT, plant, XII, a 210-1; (Arboriculture), II, b 279, b 280, a 282; (Botany) (Ill.), IV, b 85, b 90, b 100, a 106, a 107, a 113, b 116, b 122, a 125; (Chestnut), V, b 528; Oil, XVII, a 765
- Horse-dealing (Gipsies), X, *a* 550; fairs (Hyderabad), XII, a 444; (India), b 791
- Horsefield, Thomas W., antiquary (Sussex), XXII, *b* 763
- Horse gram (Gram), XI, b 33-4; grease (Vaccination), XXIV, b 28, *b* 29
- —— Guards (Army), II, b 506; office building (London), XIV, b 849
- —— hair, XI, b 336; hoes, etc. (Agriculture), I, a b 267, b 285, a b 286, b 317
- —— latitudes (Meteorology), XVI, a 127, a 149; Leech, XIV, a b 405
- Hörselberg or Hoselberg, hill (Tanhäuser), XXIII, b 51
- Horseley's bread test (Adulteration), I, b 155
- HORSE-MACKEREL, fish, XII, a 211; (Ichthyology), b 715, a 728; (Tunny), XXIII, a 666 note; (Yellowtail), XXIV, a 775
- Horsemanship, XII, a 199-203; Xenophon on, XXIV, *a b* 757
- Horse Mint, XVI, b 514; Mushroom, XVII, b 81, a b 82
- HORSENS, town, XII, a 211
- Horse parasites (Veterinary Science), XXIV, a b 222, *b* 223
- HORSE-POWER, XII, a b 211; (Mechanics), XV, a 775; (Steam-Engine), XXII, a 494, b 495, b 509; (Windmill), XXIV, a 632; marine engine (Steam-Engine), XXII, a 546-7; measurement (Steam-Engine), a b 511
- Horse pox, disease (Veterinary Science), XXIV, b 220
- Horse-racing, XII, a 203-10; (Betting), III, b 534-5; (York), XXIV, a 785
- HORSERADISH, plant, XII, b 211-2; (Aconite), I, b 92; (Horticulture), XII, a 295
- Horse railroads. See TRAMWAYS
- —— rakes (Agriculture), I, b 287
- Horses (Agriculture), I, b 331, b 341-a 343; (Austria), III, a 104; (Bhutan), a 546; (Down), VII, b 331; (Germany), X, a 406; (Iceland), XII, a *b* 653; (India), a b 791; (Inverness), XIII, a 206; (Japan), a 585; (Kentucky), XIV, b 45; (Kirghiz), a 98; (Lanark), a 252; (Mammalia), XV, *a* b 433; (Mayenne), a 655; (Mecklenburg), b 785; (Merv), XVI, b 48; (Poland), XIX, b 320, a 322; (Poseidon), a 574; (Prussia), XX, *b* 18; (Russia), XXI, b 93; (Scotland), *a* 556; (York), XXIV, a 785
- ——, Arabian (Persia), XVIII, a 635; Asiatic (Moorcroft), XVI, b 829; British cavalry (Army), II, b 506
- ——, French (Orne), XVIII, b 5; myths of (Pegasus), XVIII, a 479; Prussian cavalry, II, a 522; wild (Europe), VIII, b 610; (Turkestan), XXIII, b 675, b 679
- Horse sacrifice (India), XII, a 828
- HORSE SHOES, XXI, b 870-1; nails for, XVII, b 172
- —— -shoe splice (Seamanship), XXI, b 619
- —— -stinger, insect (Dragon-Fly), VII, b 333
- HORSETAIL, plant, XII, a 212; (Botany) (Ill.), IV, b 74, b 78, a *b* 95, b 145, *a* b 146; (Rush), XXI, b 68
- Horse traction (Coal), VI, b 64; (Tramway), XXIII, b 539; whim (Mining), XVI, a 477
- Horsey, Sir Jerome, ambassador (Ivan IV.), XIII, *b* 529; (Russia), XXI, a 113, note
- Horsford's measurement of resistance (Electricity), VIII, a b 45
- HORSHAM, town, XII, b 212
- Horsley, Charles Edward, musician, XII, b 213
- HORSLEY, John, antiquary, XII, b 212-3
- HORSLEY, Samuel, prelate, XII, a b 213; (Royal Society), XXI, b 44
- HORSLEY, William, musician, XII, b 213; (Callcott), IV, b 627
- ——, Victor, physician (Surgery), XXII, *a* 725
- Horsley's Blasting powder, III, a 702
- Horsted, village (Aylesford), III, a 141
- Horsthegn, title (Horse), XII, a 185
- Hort de Dieu, mountain (France), IX, b 445
- HORTEN, town, XII, b 213
- HORTENSE, queen Holland, XII, a 214; (Bonaparte), IV, *a* 27; (Morny), XVI, b 855; (Napoleon III.), XVII, *a* b 233
- Hortensian Law (Roman Law), XX, a b 696; (Rome), b 757
- HORTENSIUS, Quintus, orator, XII, b 214-5; (Roman Literature), XX, a 740
- Horticultural Society (London), XIV, b 845
- HORTICULTURE (Ill.), XII, a 215-308
  - calendars, a b 302-8
  - culinary herbs, a b 302
  - flowers, a b 219, b 253-78
    - annuals, hardy, b 254-6
    - bedding plants, b 269-70
    - biennials, hardy, a b 256
    - ferns, a 277-8
    - garden, b 253-4
    - greenhouse plants, b 270-3
    - lawns, a b 254
    - orchids, a b 276
    - palms, b 276
    - perennials, hardy, b 256-68
    - stove plants, b 273-6
    - trees and shrubs, b 268-9
  - fruits, a b 278-89
  - garden materials and appliances, b 237-40
    - manures, a 238-9
    - soils and composts, b 237-8
    - tools, etc., a 239-40
  - garden operations, a 240-53
    - forcing, a b 219, a b 253
    - planting and transplanting, a b 218, a b 245
    - potting, etc., b 245-6
    - propagation, a b 217, a 240-5
    - pruning, a 216, b 218, a b 247-50
    - training, b 218, b 250-3
    - watering, a 216, b 246-7
    - plan and formation, b 221-4
    - shelter and water-supply, a b 223
    - site and soils, b 221-2
    - size and form, a 222-3
    - walks and edgings, b 223-4
  - garden structures, a 224-37
    - fruit houses, a 227-30
    - fruit room, a b 232
    - heating, a 216, b 232-6
    - hygrometry, a 237
    - mushroom house, b 231-2
    - pits and frames, b 230-1

HORTICULTURE, *continued*
    plant houses, a 225–7
    ventilation, b 236–7
    walls, b 224–5
  index, 308
  principles or science of, a 215–21
    buds, a b 217
    germination, a 221
    grafting, b 217–8
    hybridization, b 220
    seed fertilization, b 219–20
  vegetables, b 289–302

—— (Tea), XXIII, a b 106; books on (Paxton), XVIII, a 451
Horti Sallustiani (Rome), XX, b 831, a 849 note
Horton, village (Milton), XVI, b 337, b 338, a 340
Hortulus (Walafrid Strabo), XXIV, b 341
Hortus Siccus (Herbarium), XI, b 639–42
Horus, god (Ammon), I, a 649; (Egypt), VII, a b 620, a 621, a 622; (Harpocrates), XI, a 439; (Mythology), XVII, a b 158
Horváth, Adam, poet (Hungary), XII, a 392
——, Andrea, poet (Hungary), XII, a 393
——, Cyril, philosopher (Hungary), XII, a 395
——, Michael, historian (Hungary), XII, a *b* 389, a b 395
——, Stephen, historian (Hungary), XII, a 393
Horwitz, B., player (Chess), V, b 522, a 523, a 524
Hos, race (Singbhúm), XXII, a 102
Hosain, Bábi Mollah (Shi'ites), XXII, a 700
—— b. 'Alí, bey (Tripoli), XXIII, b 612; (Tunis), *a* 661
——, Husein or Hoseyn, b. 'Ali, martyr (Arabia), II, a 226; (Egypt), VII, b 629, *b* 630; (Hasan and Husein), XI, a b 454; (Mohammedanism), XVI, b 589, b 590, a b 591; (Persia), XVIII, b 672; (Tabarí), XXIII, b 6; tomb of (Kerbela), XIV, b 50
——, pretender (Mohammedanism), XVI, b 603
—— b. Nomair, general (Mohammedanism), XVI, b 591
Hose (Costume), VI, b 402, b 404, a 405, b 411, a b 412, a 413, b 414, a 415, a b 417, a *b* 418, *b* 419
Hosea, king, Israel (Egypt), VII, b 643; (Israel), XIII, a 422
HOSEA, prophet, XII, a 309–11; (Israel), XIII, b 421, a 422; (Prophet), XIX, b 839, *a* 840, note, b 842; (Sabbath), XXI, b 133; (Zephaniah), XXIV, a *b* 819; tomb of (Palestine), XVIII, a 177
Hosein. See Hosain
—— ben Yahya, emir (Spain), XXII, a 325
Hoselaw, loch (Roxburgh), XXI, b 39
Hoselberg or Hörselberg, hill (Tanhäuser), XXIII, b 51
Hoseyn or El-Hoseyn. See Hosain
Ho-shan Mountains (China), V, b 551
HOSHANGÁBÁD, district, XII, b 311–2; town, *a* b 312
HOSIERY, XII, b 312–4; (Cohoes), VI, a b 106, (England), VIII, a 211; (France), IX, a 460; (Hawick), XI, a 477; (Hinckley), b 746; (Nottingham), XVII, a b 614; (Orkney), a 872; manufacture, England (Labor), XIV, b 173
HOSIUS, of Cordova, bishop, XII, a 314; (Council), VI, a 454; (Creeds), *a* 496
Hoskyn, Chandos Wren, author (Agriculture), I, *b* 259, *a* b 261, b 272
Hospice, defined (Hospital), XII, *b* 314; de Beaune (Wine), XXIV, b 638; des Enfants Assistés (Paris), XVIII, a 288; St. Bernard (Valais), XXIV, a 37; Simplon Pass (Valais), a 37
Hospicio, asylum (Guadalajara, Mexico), XI, a b 203
HOSPITAL, XII, a 314–21
  American, a 320, a 321
  ancient, b 314
  bibliography, a 321
  disease outbreaks in, a 316–7
  location and construction, b 317–9
  monastic, b 314–5
  mortality in, b 315–6
  naval and military, b 319–20
  pavilion system, a 320–1

——, Bellevue (New York), XVII, b 896; Caridad, Seville (Murillo), b 62; Chelsea, V, b 396; (Fox, C. J.), IX, a 436; Chatham (Manchester), XV, a 470; Del Ceppo, Pistoia (Robbia), XX, b 607, note; field (Ambulance), I, b 585; Gordon's (Aberdeen), b 43; Greenwich, XI, *b* 155; Heriot's, b 660; Homerton (Vaccination), XXIV, a 34, a 35; Leicester's (Warwick), a 401; naval (Gosport), X, b 749; Pammatone (Genoa), a 140; pavilion (Cincinnati), V, b 684, a 685; Pennsylvania (Philadelphia), XVIII, b 751, a 753; St. Bartholomew's (England), VIII, a 230; St. Clement's, Venice (Italy), XIII, b 465 note; St. Cross (Winchester), XXIV, b 628; St. Joseph de la Grave (Toulouse), XXIII, b 515; San Paolo, Florence (Robbia), XX, *a* 606; Santa Maria Nuova, Florence (Goes), X, *b* 642; (Robbia), XX, b 605 note. See Hospitals
—— car (Sanitary Commission), XXI, b 901; corps (Ambulance), I, a b 586, a 587; British Army, II, a 511
Hospital Directory (Sanitary Commission), XXI, a 903; statistics (Navy), XVII, a b 306; Ventilation, XXIV, b 171, a 172, b 174
Hospitalism, disease (Surgery), XXII, b 712
Hospitality (Arabia), II, *a* 219; (Circassia), V, b 688–9; (Druses), VII, a 419; (Egypt), b 624–5; (Gilpin, B.), X, a 537; (Hospitium), XII, b 321; Benedictine rule of (Monachism), XVI, a 731; early Christian (Paul), XVIII, a 439; to pilgrims (Palmyra), b 203, note; Turkish (Charles XII.), V, *a* 365
Hospitaller (Abbey), I, b 23, b 27
Hospitallers, knights (Crusades), VI, b 554, a 555, a b 557; (Inns of Court), XIII, a 96; (London), XIV, b 854, a 856; (Monachism), XVI, a b 735, *a* 742; (Saint John of Jerusalem), XXI, b 182–4; (Templars), XXIII, a b 178
Hospitals (Barrack), III, a 338; (Belgium), b 450–1; (Birmingham), b 679, a 681; (Connecticut), VI, a 257; (Copenhagen), b 306; (Cretinism), b 507; (Dublin, City), VII, a b 431; (Dumfries), b 455–6; (Edinburgh), b 576, a b 578; (England), VIII, a b 230, a 308; (Fliedner), IX, a 268; (France), a 454; (Frankfort), b 621, *a* 622; (Guy, Thomas), XI, b 304; (Hamburg), *a* 363; (Insanity), XIII, b 115, b 116–9; (Ireland), a b 245; (Italy), b 472–3; (Jassy), a 607; (London), XIV, a 843, b 854, b 855, *b* 857; (Lyons), XV, a 113; (Maine), b 301; (Malta), a b 343; (Marseilles), b 579; (Maryland), b 610; (Melbourne), a 846; (Memling), a 854, a 855; (Middlesex), XVI, b 292; (Middletown), a 629; (Milan), b 303; (Mohammedanism), a 613; (Naples), XVII, a 197; (Paris) (Table), XVIII, b 287–8; (Persia), b 598; (Philadelphia), a 753; (Russia), XXI, a b 89; (Seamen), a b 637. See HOSPITAL
——, Basilian (Christianity), V, b 605; British Army, II, a 511, b 514
HOSPITALS, FOUNDLING, IX, a 425–8
——, gynæcological (Sims), XXII, b 905–6; military (Geneva Convention), X, b 136; naval (Dockyards), VII, b 273, a 274; pavilion (Sanitary Commission), XXI, a 901; five royal (England), VIII, a b 230
Hospitia (Abbey), I, a b 19, a 20, b 24
HOSPITIUM, custom, XII, b 321
Hospodars, rulers (Greece), XI, a 111; (Roumania), XXI, a 25
Host, elevation of (Missal), XVI, b 534, note
—— of heaven (Angel), II, a 26
Hostages (Ireland), XIII, a 262
Hoste-piar, peak (Vologda), XXIV, a 303
Hostia, courtesan (Propertius), XIX, a b 834; a b 835, a 836
Hostile infection (Prize), XIX, a 786
Hostrup, Jens Christian, dramatist (Denmark), VII, a 82
Hot-air Baths, III, a 379, a 381; (Hydropathy), XII, a 577
Hotar, priest (Sanskrit), XXI, *b* 286, b 288
Hot-beds (Horticulture), (Ill.), XII, b 229, a b 230–1
—— blast Blowpipe (Ill.), III, a 730; stoves (Iron) (Ill.), XIII, a 310
Hot-cast Porcelain Company (Glass), X, a 595
Hotchkiss gun (Gunmaking) (Ill.), XI, b 252; (Patents), XVIII, a 880
HOTCH-POT or Hodge-podge, law-term, XII, b 321–2
Hôtel, defined (Hospital), XII, b 314
—— Dessin (Calais), IV, b 578
—— Dieu (Architecture), II, b 409; (Montreal), XVI, b 820–1; Paris (Dupuytren), VII, a 476; (Hospital), XII, b 314, b 315, a b 316, b 317, a 318, b 320; (Paris), XVIII, b 288, b 293
—— des Invalides, Paris (Architecture), II, b 386; (France), IX, b 456; (Louvois), XV, b 28; (Paris), XVIII, b 287, a b 288
—— de Ville (Architecture), II, b 409; (Brussels), IV, *b* 363; (Ghent), X, a 504; (Narbonne), XVII, a 236; (Orleans), a 875; (Paris), XVIII, a 281, b 299, b 300; (St. Quentin), XXI, b 206
Hotels (Innkeepers), XIII, b 88, a 89; (New York), XVII, b 897
Hothan, suburb (Melbourne), XV, a 845
——, Henry, admiral (Nelson), XVII, a 331
HOTHO, Heinrich Gustav, historian, XII, a b 322
Hothouse (Horticulture) (Ill.), XII, a 225–37; calendar (Horticulture), a 303–8; plants (Horticulture), a 270–8; roof (Horticulture), b 225, note, a 226
HOTMAN or Hottoman, François, publicist, XII, b 322–3
Hot springs (Clifton), VI, *a* 3; (Cork), a 358; (Dax), a 746; (Geology), X, b 199, *a* b 240; (Geysers), a 498; (Lipari Islands), XIV, b 688–9; (Lucca), XV, b 41; (Mehádia), *b* 839; (Mineral Waters), XVI, b 450, b 452; (Orense), XVII, a 851; (Saône, Haute), XXI, a 316; (Yellowstone Park), XXIV, a b 774, a 775
HOT SPRINGS, village, XII, a 323; (Mineral Waters), XVI, b 455
Hotspur. See Percy, Henry
Hotte, La, mountain (Hayti), XI, b 485
Hottentot language (Philology), XVIII, a 792; Dictionary, VII, b 167

HOTTENTOTS, tribes, XII, a 323-7
  antiquity of, a b 323
  character, b 323
  civil organization, b 324-5
  history, b 326-7
  language and literature, b 325-6
  religion and superstitions, a b 325
  social customs, a b 324
  tribal relations, a b 326

—— (Africa), I, a b 236; (Anthropology), II, b 100, a 101, a 106; (Bushmen), IV, *a* b 513; (Cape Colony), V, *b* 40, b 42; (Kaffraria), XIII, b 827; (Mythology), XVII, a 144, a b 154; (Religions), XX, a b 375
HOTTINGER, Johann Heinrich, philologist, XII, b 327
Hottoman, François. See Hotman
Hot-water boilers (Horticulture) (Ill.), XII, b 233-6; pipes (Heating), XI, *a* b 528, a 529; (Horticulture), XII, a 238, a 236
—— waves, climatic (United States), XXIII, b 856
Houbara, bird (Bustard), IV, b 515-6
Houbraken, Arnold, painter and critic (Metsu), XVI, b 206; (Mieris), a 301
HOUBRAKEN, Jacobus, engraver, XII, b 327
Houdan fowl (Poultry), XIX, b 665
Houdetot, Elizabeth Françoise Sophie, Comtesse d' (Saint Lambert), XXI, b 186
Houdin, Robert, conjuror. See Robert-Houdin, J. E.
HOUDON, Jean Antoine, sculptor, XII, b 327-8; (Sculpture), XXI, a 590
Houël's *Tables de Logarithmes* (Tables), XXIII, a 12, b 16, b 17
Houghton, estate (Walpole), XXIV, b 355, *a* 357
——, John, author (Agriculture), I, b 266-7
——, Richard Moncton Milnes, lord, poet (Gray, D.), XI, a 69; (Hood, Thos.), XII, b 149
Houille (Coal), VI, b 43
Hounaman, species (Ape), II, a 133
HOUND, XII, a 328-30; (Hunting), b 409, a b 410, a b 411; (Dog) (Ill.), VII, b 284, a 285-6
——, fish (Shark), XXI, a 811
Houndsditch, street (London), XIV, b 830, a 842, b 851
HOUNSLOW, township, XII, b 330; Heath (London), XIV, b 833
Hour and the Man (Martineau), XV, b 590
Hour-angle, moon's (Tides), XXIII, b 379-80, b 391, b 386; sun's (Tides), b 391-2
Hour circle (Telescope), XXIII, b 159
Hourdel, town (Somme), XXII, b 274
Hours (Calendar), IV, *b* 589
——, canonical (Monachism), XVI, a 730; *Book of* (Celtic Literature), V, a b 231; (Miniature), XVI, b 458, b 459; *of Anne of Brittany* (Illumination), XII, b 746
—— *of Idleness* (Byron), IV, b 538-9
—— of Labor, XIV, b 168, b 169-70
Housatonic river (Connecticut), VI, *a* 255; (Massachusetts), XV, a 618
House, Royal E., inventor (Telegraph), XXIII, a 121, b 929-30
——, Building of (Ill. and Plates XX-XXVI), IV, a 400-59; (Architecture), II, b 396; (Hygiene), XII, b 601-3; drainage (Sewerage) (Ill.), XXI, a 749-54. See Houses and Dwellings
HOUSE-FLY, XII, b 330-1
Household, Royal. See ROYAL HOUSEHOLD
—— Brigade, British (Army), II, b 504, a 506
Household Education (Martineau), XV, b 590
—— *Furniture and Decoration* (Hope, T.), XII, b 161
—— gods (Penates), XVIII, a 499-500
—— suffrage (Parliament), XVIII, b 314, a b 315
—— *Words*, magazine (Dickens), VII, a b 153
Housekeeping, colonial (Women), XXIV, b 910
HOUSELEEK, plant, XII, a b 331; (Botany), IV, a 86, a 105
House Mouse, XVII, b 11
—— of Commons (Act of Parliament), I, b 113; (Buckingham), IV, b 375, *a* 376; (Burke), a b 489; (Constitution and Law), VI, *a* 276; (Convocation), b 289-90; (England), VIII, b 235-6, b 267, a 277, b 282-3, a 289-90, a 315; (Finance), IX, b 154; (Government), XI, *b* 12, *a* b 13; (Henry IV., England), b 588; (James I.), XIII, b 568; (Ministry), XVI, b 496; (Montfort), b 813-4; (Municipality), XVII, b 33; (Parliament), XVIII, a b 311, b 312, a b 313, a b 314, a b 315, a b 316; (Pride), XIX, a 743
——, Anglo-Saxon (Parliament), XVIII, a b 308, a 309; invaded (Charles I.), V, b 352; representation in (Parliament), XVIII, a b 310, a 311, a b 312, b 313, a b 314, a b 315; (United Kingdom), XXIII, b 774-5; Pitt's resistance to (Pitt), XIX, a b 149
—— *of Fame* (Chaucer), V, *b* 399, a *b* 391, a 393; (Magic), XV, a 208
—— of the Faun, Pompeii (Mosaic), XVI, b 877-8; of the forest of Lebanon, Jerusalem (Architecture), II, b 344; of God (Temple), XXIII, b 181; of keys (Man), XV, *b* 459
—— of Lords (Appeal), II, a *b* 182-3; (Austria), III, b 106; (Bishop), b 684, a 685; (Constitution and Law), VI, a b 276; (Court), *a* 459; (England), VIII, a b 235, b 267, a b 289-90; (Government), XI, *a* 13, a 15; (Judicature), XIII, a 775; (Peerage), XVIII, b 468-70, b 472-7; (Privy Council), XIX, a *b* 785; abolition of, 1649 (Peerage), XVIII, a 476; arbitrary action of (Tort), XXIII, a 481; summons to (Baron), III, *b* 331-5. See PARLIAMENT
—— of Representatives (United States), XXIII, b 797
—— -painting (Building), IV, a 457-9
Houses (Ethnography), VIII, b 542; (Naples), XVII, b 195; (Nestorians), a 366; (Yoruba), XXIV, b 792; Eskimo, VIII, b 481. See House and Dwellings
——, statistics of (England), VIII, *b* 199, b 202
"—— of God" society (Propaganda), XIX, a 832
—— of Parliament, London, XIV, b 849
—— of Recovery (Hospital), XII, b 315
House-Sparrow, XXII, a b 383, notes
House tax (France), IX, b 454
—— Wren, bird, XXIV, a 724
Housings of rollers (Iron), XIII, a b 338
HOUSSA, people, XII, b 331-2; (Africa), I, b 242-3
Houssaye, Amelot de la, historian. See AMELOT DE LA HOUSSAYE
HOUSTON, city, Texas, XII, a 332; (Texas), XXIII, b 222
——, David, sectary (Presbyterianism), XIX, a 712
HOUSTON, Samuel, general and statesman, XII, a b 332
Houting, fish (Salmonidæ), XXI, a 234
Houtman, Cornelius, navigator (India), XII, b 836, a 837; (Portugal), XIX, a 563
Houton, bird (Motmot), XVII, b 9
HOUWAERT, Jean Baptista, poet, XII, b 332; (Holland), a 95
Hova, people, (Madagascar), XV, a b 172, *a b* 173, b 174, a 176
HOVEDON, Roger of, chronicler, XII, b 332-3
Hovgaard, Lieutenant, explorer (Polar Regions), XIX, b 338
How, basin or valley. See Howe
How a Flatterer may be Distinguished from a Friend (Plutarch), XIX, a 245
Howara Pyramid, XX, a b 130
Howard, mount (Colorado), VI, b 145
——. See CARLISLE, earls of, NORTHAMPTON, earl of; NORFOLK, dukes of
——, Benjamin, surgeon (Drowning), VII, b 411
——, Katharine, queen (England), VIII, a b 302; (Henry VIII.), XI, a 593; (Treason), XXIII, b 560
—— of Effingham, Charles, lord (Admiral), I, b 142; (Armada), II, a *b* 477
——, Lord, of Escrick, conspirator (Russell, William, Lord), XXI, *a* 72; (Sidney), XXII, *a* 40
HOWARD, John, philanthropist, XI, a 333-6; (Cambridge), IV, a 646; (Prison Discipline), XIX, b 766, *b* 767
——, J. E, pharmaceutist (Quinine), XX, b 192 note, *a* 193
——, J. and F., manufacturers (Agriculture), I, b 280, a 281, b 282, b 283
——, Mary, novelist (Schoolcraft), XXI, b 450 note
——, Sir Robert, dramatist (Dryden), VII, b 422, a 423
——, Thomas, earl of Arundel (Van Dyck), XXIV, a 67, b 68. See Arundel
Howard's harrow (Agriculture) (Ill.), I, b 283-4
How a Young Man ought to Hear Poetry (Plutarch), XIX, b 244-5
Howden, A. C., engineer (Hydromechanics), XII, a 530
Howden's forced draft (Steam-Engine), XXII, a 523
Howe or How, basin or valley (Scotland), XXI, a 547; of Annandale (Dumfries, County), VII, a 454; of the Mearns (Kincardine), XIV, b 80, a 81
——, Elias, inventor (Sewing Machines), XXI, b 754-5, a b 919, note, *a* b 920
HOWE, John, divine, XII, a 336-7
HOWE, Richard Howe, earl, admiral, XII, a 337-8; (United States), XXIII, a 791
Howe, Samuel Gridley, philanthropist, *b*. 1801, *d*. 1876 (Blind), III, a 718, a 719
——, Sir William, general (Tallmadge), XXIII, a 919; (United States), a 790, *a* 791, a 792
Howei, port (Formosa), IX, a 367
Howel ab Owain Gwynnedd, poet (Celtic Literature), V, *b* 277
—— Ddâ, chief (Carmarthen), V, a 102; (Celtic Literature), a b 273; (Salic Law), XXI, a b 227
Howell, C. W., engineer (Galveston), X, b 49
——, George, economist (Trade Unions), XXIII, b 533
HOWELL, James, author, XII, a 338; (Jonson), XIII, b 753
Howietoun Fishery (Salmonidæ), XXI, a 237
Howitt, Mary, author, XII, a 338; (Bremer), IV, b 229
HOWITT, William, author and poet, XII, a 338-9
Howitzers (Artillery), II, b 574, a 575, b 576; (Gunnery) (Ill.), XI, b 273, a 274, b 276; designing (Gunmaking), XI, a 261
Howland, Sylvia A., benefactress (New Bedford), XVII, a 381
Howlat, Buke of the (Scotland), XXI, a 566
Howleglas. See EULENSPIEGEL

Howlet, bird (Owl), XVIII, a 92 note
Howling Dervish, VII, a 99; (Sunnites and Shi'ites), XXII, b 697, b 699; monkeys (Ape), II, a 135, a 138
HOWRAH, town, XII, a b 339; (Calcutta), IV, b 583, a 585; (Hooghly District), XII, *a* 151
Howson and Thomas's rotary machine (Iron), XIII, b 332
—— Barometer (Ill.), III, b 330
Howth, Hill of (Dublin), VII, *a* 427; *Book of* (Ireland), XIII, a 276
HOXTER, town, XII, b 339
Hoxton, district (London), XIV, a 830, a b 858, a 861
Hoy island (Orkney), XVII, b 870, a b 871, b 872; (Scotland), XXI, *b* 549
HOYLE, Edmund, gamester, XII, b 339; (Backgammon), III, a 173; (Whist), XXIV, *a* b 574, a 575, b 576
Hozier, Pierre d', genealogist (Newspapers), XVII, b 434
HRABANUS MAURUS MAGNENTIUS, archbishop, XII, b 339-40; (Encyclopædia), VIII, a 175; (Germany), X, a 468; (Gottschalk), a 760; (Scholasticism), XXI, a b 438
Hradschin, part of Prague, XIX, *b* 677, b 678
Hrafn Sweinbiornsson Saga (Iceland), XII, b 661
Hrodbert, St., bishop (Rupert), XXI, a 67
Hrolf the Northman (France), IX, b 472, a 473. See Rolf
HROSVITHA, Hroswitha, Roswitha or Hrotsuit, dramatist and chronicler, XII, a 340-1; (Drama), VII, a 357; (Gandersheim), X, b 61; (German Literature), X, a 471
Hrotsuit. See HROSVITHA
Huacas of the Incas, buildings (Archæology), II, b 297; (Architecture), b 395
Huaco, plant (Guaco), XI, a b 202
Hualcan, mountain (Peru), XVIII, b 685
Huallaga river (Amazon), I, a b 575; (Peru), XVIII, a b 686, a 690
Huanaco, mammal. See Guanaco
Huanape Islands (Guano), XI, a b 207
Huancas, people (Peru), XVIII, b 689
HUANCAVELICA, town, XII, a 341; (Peru), XVIII, a 688
Huandoy, mountain (Peru), XVIII, b 685
Huaneras (Guano), XI, b 206
Huanillos (Guano), XI, b 207, b 208
HUANUCO, town, XII, a 341; (Peru), XVIII, a 688
HUARAZ, town, XII, a b 341; (Peru), XVIII, a 688
Huarmey, valley (Peru), XVIII, a 684
Huascar, Inca (Atahuallpa), II, a b 723
Huasco, town (Chili), V, a 538, *b* 539
Huastecan Dictionaries, VII, a 168
Huaura islands (Peru), XVIII, b 684; river (Peru), a 684
Huayna Ccapac, Ynca, ruler (Peru), XVIII, b 690
Huaynaputina, volcano (Peru), XVIII, a 685
Hubaldus. See Hucbald
Hubbard museum (Royal Society), XXI, b 44
Hubbard's Newspaper Directory (Newspapers), XVII, a b 447, b 449
HUBER, François, naturalist, XII, b 341; (Bee), III, *b* 419, a 420, *a b* 421, b 422, a b 424, *b* 425, *b* 426, b 429, b 431
——, Jean, soldier (Huber, F.), XII, b 341
HUBER, Johann, philosopher, XII, b 341-2
——, Marie, theologian (Huber, F.), XII, b 341
——, Pierre, naturalist, XII, b 341; (Ant), II, b 84, b 85
HUBERT, St., bishop, XII, a 342
Hubert de Burgh, justiciary (England), VIII, a 277, b 279
Hubertsburg, peace of, 1763 (France), IX, b 520
Hubertusberg school (Blind), III, a 721
HUBLI, town, XII, a 342
Hübner, Johann, scholar (Encyclopædia), VIII, a b 178
Hübnerite (Mineralogy), XVI, b 420
Hubrecht, naturalist (Vertebrata), XXIV, *a* 199, b 201, b 203
Hübschmann, philologist (Grammar), XI, b 36, b 39; (Slavs), XXII, a 154, a 167
HUC, Évariste Régis, missionary, XII, b 342-3; (Acclimatization), I, a 82; (Lhasa), XIV, *b* 496, a 497, a 498, b 499, a 500, a 501, a b 502, note, *a* 503; (Tibet), XXIII, b 359, a 363, a 364
HUCBALD or Hubaldus, musician, XII, a 343; (Music), XVII, a 88
HUCHTENBERG, Jacob, painter, XII, b 343
HUCHTENBURG, John van, painter, XII, b 343
HUDDERSFIELD, town (Plan), XII, b 343-5; (York), XXIV, b 785, *a* 786
Hudibras, poem (Butler Samuel), IV, b 523, a b 524-5; (English Literature), VIII, a 378; (Hogarth), XII, a 50
HUDSON, New York, city, XII, a 345
HUDSON RIVER, XII, a b 345; (America), I, a 596; (New York), XVII, a 463, *a* 465; importance of (United States), XXIII, a 791, a 792, a 810; Tunnel (Ill.), XXIII, a 664; valley (United States), XXIII, a 841, *a* 842
Hudson, C. T., naturalist (Rotifera), XXI, a b 9, a *b* 12
HUDSON, George, speculator XII, b 345-6
HUDSON, Henry, navigator, XII, a 346-7; (Geography), X, b 164; (New York), XVII, *a* 466; (Polar Regions), XIX, b 329; (United States), XXIII, a 778; (Whale), XXIV, a 557
——, Henry Norman, critic (Shakespeare), XXI, *a* b 804, b 806
——, Jeffery (Dwarf), VII, b 490
——, Thomas, painter (Reynolds), XX, *b* 516, a 517
——, W. H., ornithologist (Screamer), XXI, a 518 note
——, William S., engineer (Steam-Engine), XXII, b 925
Hudsonite (Mineralogy), XVI, a 434
Hudson's Bay (Hudson, H.), XII, b 346; (Labrador), XIV, a 176; (Whale), XXIV, b 556
HUDSON'S BAY COMPANY, XII, a b 347; (Canada), IV, b 684; (Fur), IX, a 735; (Geography), X, a 170; (Oregon), XVII, b 847, a 849; (Polar Regions), XIX, a 330; (Red River), XX, *b* 328; territory (Canada), IV, a 678
—— Bay Indians, VII, b 167
HUÉ or Hue-Foo, city, XII, a 347; (Cochin China), VI, a 86, b 87, b 88; (Tong-King), XXIII, a 470
Hue and cry (Arrest), II, b 550; (Theft), XXIII, a 251
Hueb, Pierre Daniel, bishop (Tea), XXIII, a 108
Huelgas, convent of (Cloister), VI, a 36
HUELVA, province, XII, b 347-8; (Spain), XXII, b 312, a 313, b 315; ore (Iron), XIII, b 294
HUELVA, town, XII, a 348
Huemac, chief (America), I, a 619
Huerta, Vincente Garcia de la, poet (Drama), VII, b 365; (Spain), XXII, a 375
Huertas, gardens (Spain), XXII, b 313
HUESCA, province, XII, a b 348; (Spain), XXII, b 312
HUESCA, town, XII, b 348; University, XXIII, a 895
HUESCAR, town, XII, b 348
HUET, Pierre Daniel, bishop, XII, a b 349; (Bibliography), III, b 568; (Descartes), VII, b 110; (Scepticism), XXI, b 399
Huetiana (Ana), I, b 688-9; (Huet), XII, b 349
HUFELAND, Christoph Wilhelm, physician, XII, b 349; (Longevity), XIV, a 868, a b 869
——, Gottlieb (Political Economy), XIX, a 401
HUG, Johann Leonhard, theologian, XII, a b 350
Hugbaldus. See HUCBALD
Huggins, William, astronomer (Astronomy), II, a 705, a 714, a 716, a 718, a 719; (Geology), X, a 192, note; Observatory, XVII, a 731; (Zodiacal Light), XXIV, a 837
HUGH, St. of Avalon, bishop, XII, b 350
—— of Burgundy or Hugo of Provence, king (Rome), XX, b 805, *a* 806
—— of Cluny, St. (Cistercians), V, a b 693
—— the Great, duke of France (Capet), V, b 49, a 50; (Normandy), XVII, a 553, a b 554, a 555
—— de Paganis, knight (Templars), XXIII, *a* 176
—— of Paris. See HUGH of St. Victor
—— of Rouen, bishop (Abbot), I, a 28
—— of Rutland, poet (Romance), XX, a 657, b 659 note, a 660
HUGH of St. Cher or Hugo de St. Caro, cardinal and compiler, XII, b 350-1; (Bible), III, a 559; (Concordance), VI, a 214
—— of Saint Circq, troubadour (Provençal Literature), XIX, b 899, a 900, b 901
HUGH of St. Victor or of Paris, theologian, XII, a 351; (Mysticism), XVII, a 139; (Scholasticism), XXI, a 443
—— of Vermandois (Crusades), VI, b 551, *a* 552, a 553
—— Capet, king, France (Capet), V, b 49; (France), IX, a 473-4; (Normandy), XVII, b 554, a 555; (Paris), XVIII, b 293; (Silvester), XXII, *a* 82
Hughenden, town (Queensland), XX, *a* 178, a 181
Hughes, D. E., inventor (Telegraph), XXIII, b 129; (Telephone), a 140, b 142-3; his microphone (Telephones), b 931
——, John, poet (Drama), VII, b 377, note
Hughlings-Jackson, physician (Surgery), XXII, b 724, a 725
Hugh Lupus, earl (Chester), V, a 526
Hugh Town (Scilly Islands), XXI, *a* 487
Hûgli river. See HOOGHLY
Hugo. See Hugh
—— the Great, marquis (Tuscany), XXIII, a 713
—— of St. Carus or Hugo de St. Caro. See HUGH of St. Cher
—— Gustav, jurist (Thibaut), XXIII, a b 321, a b 322
——, Victor Marie, poet and novelist, *b.* 1802, *d.* 1885 (France), IX, b 577, a b 594-5, *a* 596, b 597; (Ledru-Rollin), XIV, *a* 399; (Musset), XVII, a 118; (Poetry), XIX, a 269, b 273, b 280, a 284; (Sainte-Beuve), XXI, b 170, a 171, *b* 172-3; (Vigny), XXIV, b 243, a 244
——, Victor and François fils, poets (Shakespeare), XXI, b 792, a 804, a 805, b 806
Hugolen islands (Caroline Islands), V, a 111
Hugolin, cardinal (Franciscans), IX, a 616
Hugon's gas-engine (Steam-Engine), XXII, a 551
Hugubert, St. See HUBERT, St.

HUGUENOTS, The, XII, a 351–4; (Amboise), I, a 581; (Ancillon), II, *b* 10; (Brazil), IV, a b 206; (Camisards), b 656-9; (Catherine de' Medici), V, b 205; (Colbert), VI, b 111; (Coligni), a b 127; (Condé), b 217, a b 218; (Court), b 461; (D'Aubigné), b 733; (France), IX, b 493, a b 494-8, a b 500, *a* 510; (Guise), XI, *b* 236; (Henry IV., France), a 598; (Hotman), XII, b 322-3; (Ireland), XIII, a 238, b 275; (Jesuits), *a* 660, b 664; (Medici), XV, b 803; (Monachism), XVI, a b 739; (Montauban), a 804; (Palissy), XVIII, b 190, a 191; (Presbyterianism), XIX, b 712; (Rochelle), XX, b 628-9, (Rohan), a 638; (Ronsard), a b 864; emigration of, to U. S. (Presbyterianism), XIX, a 717
Huguenots, Les, opera (Meyerbeer), XVI, a 231
Hugues of Constantinople, emperor (Romance), XX, a 668
——, Victor, governor (Guadeloupe), XI, a 204; (Guiana), a 226
Huia, bird (Crow), VI, a 546 note
Hui-Khe, people (Turks), XXIII, *b* 701
Huillard-Bréholles, Jean Louis Alphouse, historian (Frederick II., Emperor), IX, b 644, *a* 645
Huillier, L', Simon, mathematician (Bee), III, b 423
Húi Néill or Hui Niall, clan (Scotland), XXI, *b* 496; dynasty of (Ireland), XIII, b 255–7
Huing-nu, race. See Heung-nu
Huisduinen, town (Helder), XI, b 561
Huisne river (Mans), XV, b 504
Huitzilopochtli, god (Cannibalism), IV, b 713; (Mexico), XVI, a 214, b 217, b 219, b 229; (Mythology), XVII, b 156–7
Hulagu, Hoolagoo or Hulaku, Khan (Egypt), VII, b 655, a 656; (Kublai Khan), XIV, b 151, a 152; (Mongols), XVI, b 768–9, a 773; (Mosul), b 896; (Polo), XIX, a 418
Hulda, goddess (Tanhäuser), XXIII, b 51
Hulda (Magnusson), XV, a 286
Húleh lake (Jordan), XIII, a 757
Hulks for convicts (Prison Discipline), XIX, b 770, *a* b 771
HULL, town, (Plan), XII, a 354–6; (Fisheries), IX, *a* b 217, a 218; (York), XXIV, b 784, *b* 785, *a* b 786, a 787
——, city (Ottawa), XVIII, b 71
——, Edward, geologist (Ireland), XIII, *a* b 222, a 248
HULL, Isaac, captain, XXIII, b 838; (United States), b 808 note
——, William, general, *b.* 1753, *d.* 1825 (United States), XXIII, a 808
Hullot, Mdlle. (Moreau), XVI, b 846
HULS, town, XII, a 356
HULSE, John, XII, a b 356
Hulsean lectures, XII, a b 356
Hulsse, Julius Ambrosius, mathematician (Tables), XXIII, a b 12, a 13, a 16, a b 17
Hulthem, Charles Joseph Emmanuel van, lawyer (Libraries), XIV, b 530
Hultsch, Friedrich Otto, philologist (Pappus), XVIII a 234, a 325; (Weights and Measures), XXIV, a 508, a 510, a *b* 511, *b* 512, b 515, a b 516, b 517
Hulver, tree. See HOLLY
Humái, queen (Persepolis), XVIII, a 571, note
Humaitá, town (Paraguay), XVIII, a 249
Human Life (Rogers), XX, b 637
Humanism, school of thought (Apologetics), II, a b 168; (Averroes), III, b 131; (Ethics), VIII, b 524; (Germany), X, b 471, *b* 472; (Hermeneutics), XI, a 668; (Hessus), a 698; (Holland), XII, a b 96; (Hutten), a b 428, a 429; (Italy), XIII, b 490; (Lipsius), XIV, b 691–2; (Luther), XV, b 75; (Lyly), b 105; (Medicine), b 817, a 818; (More, Thomas), XVI, b 842, a 845; (Œcolampadius), XVII, *a* 750; (Petrarch), XVIII, b 722, a b 723; (Renaissance), XX, a 393, a b 396, a b 397, a b 398, *a* b 399, a b 400, a b 403, a b 404, a b 405, a b 406; (Reuchlin), a b 504, b 505; (Universities), XXIII, *b* 899, a 900, a 903; modern (Italy), XIII, b 516–7; persecution of (Paul II.), XVIII, a 441
Humanitarianism (Europe), VIII, a b 632; (Leroux), XIV, b 471, a 472; (Owen, Robert), XVIII, b 91
Humanity (Comte), VI, a b 211; of Jesus Christ, XIII, a b 681; unity of (Metaphysic), XVI, a 106; worship of (Metaphysic), b 106
Human Nature (Hobbes), XII, *a* 36, b 37, b 39
——, *Treatise of* (Hume), XII, a b 361, b 362, a 365–6; (Scepticism), XXI, *a* 399
Human period (Geology), X, b 327–9
—— proportion (Durer), VII, b 482
Human Sacrifices. See SACRIFICE
Human Understanding (Locke), XIV, a b 759, *a b* 760, *a* b 761, a b 762, b 763, a 764–9; (Logic), b 800; (Hume), XII, a 365
——, *Inquiry Concerning* (Hume), XII, b 361, b 362, b 367
Humáyún, sultan (Delhi), VII, b 43; (India), XII, b 833; (Persia), XVIII, b 645, a 648, a 670
Humbeeck, van, statesman (Kindergarten), XIV, b 82
Humber, river (England), VIII, a 196; (Lincoln), XIV, *a* 661; (River-Engineering), XX, b 591; (York), XXIV, a b 784
——, river (Newfoundland), XVII, b 391-2
Humber Tricycle, XXIII, b 594, a 595
Humbert I., the White-handed, count (Savoy), XXI, b 354
—— II., count (Savoy), XXI, a 356
—— III., count (Savoy), XXI, a 356
—— of Prulli, abbot (Scholasticism), XXI, b 447
HUMBLE-BEE, XII, b 356–7
Humboldt, bay (New Guinea), XVII, a *b* 396
——, mountain (New Caledonia), XVII, b 385
—— river (Nevada), XVII, b 376; and mountains (United States), XXIII, a b 848
HUMBOLDT, Friedrich Heinrich Alexander, Baron von, naturalist, XII, a 357–9; (America), I, b 602–3, b 608, a 611, a 612, b 620, b 628, b 629; (Arago), II, a 264; (Atlantic Ocean), III, b 15, a 16; (Buch), IV, *a* 370; (Chemistry), V, a 403; (Cotopaxi), VI, a 426; (Ecuador), VII, a *b* 559, a 560, b 563; (El Dorado), b 721; (Electricity), VIII, a b 9; (Gay-Lussac), X, *b* 109–10; (Geography), b 171; (Germany), b 486; (Guacharo), XI, b 201; (Guano), a 207; (Lassalle), XIV, *a* 321; (Meteorology), XVI, a 119, b 139, b 176, a 184; (Mexico), b 214, b 215, a b 217, a b 221, b 222, a 223, a 229, note, b 907, a 911; (Turkestan), XXIII, a b 671; (Ural Mountains), XXIV, b 7, b 10; (Wheat), b 561; (Zodiac), b 831–2, a 833; (Zodiacal Light), b 835, a 837
HUMBOLDT, Karl Wilhelm von, philosopher, XII, b 359-60; (Aristotle), II, b 449; (Hegel), XI, b 549, a 550; (Iberians), XII, a 640; (Java), XIII, b 618, note; (Magic), XV, a 206; (Universities), XXIII, b 904
Humboldtilite (Mineralogy), XVI, b 429
Hume, Alexander, poet (Scotland), XXI, a 568
HUME, David, metaphysician, XII, a 360–9
- at Paris, a b 364
- birth and education, a b 360
- character of, b 364–5
- earlier studies, b 360-1
- History of England, a 363-4
- in Edinburgh, b 364
- mathematical science, a 367–8
- metaphysical speculations, b 369
- political economy, a 363
- religious views, a b 369
- theory of knowledge, a b 365–8

—— (Agriculture), I, a 262; (Al Gazali), b 450; (Association of Ideas), II, a b 639; (Balance of Power), III, b 231; (Belief), a *b* 460; (Brown, Dr. Thos.), IV, b 348; (Butler, Bishop), *a* b 520-1; (Campbell, George), b 666; (Category), V, b 195; (Drama), VII, a 378; (Edwards), b 598, a b 599; (English Literature), VIII, a b 384-5; (Ethics), a 528, b 529-30; (Evolution), a b 665; (Gibbon), X, a 515, a 516, a 517; (Government), XI, b 11, note, b 12; (Hurd), XII, b 415; (Hutcheson), a 425, a 426; (Kant), XIII, *a* b 858, a b 859, *a* 860; (Locke), XIV, *b* 767, *a* 769; (Logic), b 800-1; (Metaphysic), XVI, b 102–3; (Minto), a 515; (Pessimism), XVIII, b 700; (Political Economy), XIX, b 377–8, b 381, b 382, a 388; (Psychology), XX, a b 43, a 44, a 46, *a* 62, b 67, *a* 71, b 80, b 84, a *b* 86, *a b* 87, note, a 88 note; (Robertson), *b* 615, a b 616; (Rousseau), XXI, b 31, *a* b 32; (Scepticism), a *b* 398, a b 400; (Slavery), XXII, b 137, b 138, a 140, a 143; (Smith, A.), a b 179, a 180; (Theism), XXIII, a 265; (Theology), b 294; (Turgot), b 669 note
Hume, David, on Belief (Jacobi), XIII, b 546
——, James, mathematician (Napier), XVII, a b 186
HUME, Joseph, political reformer, XII, b 369–70
—— of Marchmont, baron (Scotland), XXI, *b* 519
Humeerpoor (Hamirpur), XI, a b 378
Humerus (Anatomy) (Ill.), I, a 725, a 736; (Ape), II, b 141; (Birds), III, b 625; (Horse), XII, a 181; (Mammalia), XV, b 361
HUMERUS, Lars Johansson, poet, XII, a b 370
Humfrey, Pelham, organist (Purcell), XX, b 118
Humic acids (Carbon), V, a 77
Humidity (Atmosphere), III, a b 30; (Colorado), VI, a 146; (Meteorology), XVI, b 123-5, a 152; (Norway), XVII, b 593
—— of forests (Climate), VI, b 5; measurement of (Hygrometry), XII, a 604–5
HUMILIATI, order, XII, b 370; (Milan), XVI, a 305; (Monachism), a 736, a 742
Humite (Mineralogy) (Ill.), XVI, a 367, a 428
HUMMEL, Johann Nepomuk, composer, XII, b 370–1
Hummeller (Agriculture), I, b 289
HUMMING-BIRD (Ill.), XII, a 371–4; (Birds), III, a 616, b 625, a 645, b 646, b 647, b 648, *a* b 650, a 669; (Juan Fernandez), XIII, a 768; (Mythology), XVII, *a* 157; (Sun-Bird), XXII, a 686; (Tody), XXIII, a 460; (Zoology), XXIV, a 924. See Trochilidæ

Humming-Bird Hawk Moth (Butterflies), IV, a 529
Hummuns (Baths), III; a 378
Humor (Irving, W.), XIII, a 383, a 384; (Montaigne), XVI, b 796-7
Humoral pathology (Medicine), XV, b 810, a 812, b 813
Humorists (American Literature), I, b 638-9; Academy of, Rome, I, b 71; mediæval (Italy), XIII, a b 511, a 516, a 518, a 520
Humpback whales (Mammalia), XV, a 376; (Whale) (Ill.), XXIV, a 553
Humped Cattle, V, a 213, b 214
Humphrey, Miss, bookseller (Gillray), X, b 535
Humphrey Clinker, novel (Anstey), II, b 83; (Smollett), XXII, b 194, a 195
Humphreys, Andrew A., engineer (Geology), X, a 242, b 244, a 247; (Hydromechanics), XII, a b 519, b 523, a b 524
Hums, glides to and from (Speech-Sounds), XXII, a 398
——, town. See HEMS
Humulotannic acid (Hops), XII, b 161
Humulus Lupulus, plant (Hop), XII, b 159
Humus, soil (Horticulture), XII, a 222; (Manure), XV, b 516-7
Humuya, river (Honduras), XII, *b* 133
Húnaflói, bay (Iceland), XII, a 651
HUNDRED, territorial division, XII, b 374-5; (Constable), VI, a 263; (County), b 455; (England), VIII, a 197, a 247; (Middlesex), XVI, b 292; (Riot), XX, a 580
—— days, the, 1815 (France), IX, a 544; (Napoleon I.), XVII, b 229-31
Hundred Guilder Print (Rembrandt), XX, b 387
"Hundred towers, City of the" (Pavia), XVIII, a 449
Hundred Years' War (England), VIII, b 286; (France), IX, *b* 481-6, b 571; (Louviers), XV, a 28; (Monstrelet), XVI, b 793; (Paris), XVIII, b 295; (Scotland), XXI, b 511
Hunea, island (New Caledonia), XVII, b 385
Huneric, king (Vandals), XXIV, *b* 65
Hunfalvy, Paul, philologist (Hungary), XII, *b* 389, notes, b 395
Hunfrid of Rhætia, duke (Prussia), XX, a 8
Hungarian balsam (Pine), XIX, a 113
Hungarian Bookstore (Hungary), XII, b 391
—— Cattle, V, a 214
—— Dictionaries, VII, b 163
—— diets, XII, b 385-6
—— historians and histories, XII, b 389, b 390, a b 395; (Bel), III, b 411
—— Leather, XIV, a 390
—— literature, XII, a b 390-6; (Bowring), IV, b 164; (Döbrentei), VII, a 268; (Fay), IX, b 52; (Majláth), XV, a 313; (Garay), X, b 66; (Jósika), XIII, b 763-4; (Periodicals), XVIII, a 555
—— mill (Gold), X, a 665
—— national movement (Pesth), XVIII, a 706
—— riffles (Gold), X, b 663
—— Wines, XXIV, a b 643
Hungarians, people, XII, a b 379; (Croatia), VI, a 524; (Henry I., Emperor), XI, a 594; (Transylvania), XXIII, *b* 555
Hungarorum, Gesta, XII, b 390
HUNGARY, country (Plate II), XII, a 375-96
  education and religion, b 379-80
  finance, a b 381
  flora and fauna, b 377-8
  geology and minerals, a 376, a 378
  government, a b 381
  HISTORY, a b 382-9
    Arpad dynasty, a 382-4
    Austrian - Hungarian monarchy, b 388-9
    bibliography, b 389
    Hapsburg dynasty, a 384-9
    reform movement, b 385-6
    Revolution of 1848-1849, b 386-8
  improvements, internal, a 377
  index, 396
  industrial features, b 380-1
  language, b 389-90
  LITERATURE, a b 390-6
    academy period, a 393-6
    bibliography, b 396
    early chronicles, b 390
    Jagelló-Matthias period, a 391
    Magyar, b 390
    reformation period, a 391
    regeneration period, a b 392
    revival of the language, b 392
    seventeenth century, a b 391
  physical features, a 375-7
  political and administrative divisions, b 378-9
  population and nationality, a b 379
  products, a 378
  See AUSTRIA

—— (Army), II, b 528, *b* 529, b 530-1; (Ballot), III, b 251; (Deák), VII, a 13-4; (Ferdinand I.), IX, a 68; (Ferdinand II.), a b 68; (Flour), b 302; (Forests), *a* 350, a 353; (Germany), X, b 436, a *b* 437, a 448; (Gold), b 660, a 661, b 662; (Honey), XII, b 141; (Insanity), XIII, a 105; (Joseph II.), *b* 760; (Leopold I., Emperor), XIV, b 466-7; (Libraries), a 549-50; (Mercury), XVI, a 37; (Mining), a 490; (Miskolcz), a 531; (Mongols), a 768; (National Debt), XVII, b 252; (Numismatics), a 677; (Opal), b 799; (Pesth), XVIII, b 704-6; (Post-Office), XIX, a b 599, *b* 601; (Presbyterianism), XIX, a 717; (Railway), XX, a 262; (Rákóczy), *b* 273; (Sedition), XXI, a 651; (Universities), XXIII, b 895-6, b 907-8
—— autonomy conceded (Austria), III, b 122; government of, XII, a b 381; (Austria), III, a b 107; insurrection of, 1848, XII, b 386-8, a 395; (Austria), III, b 119-20; (Paskewitch), XVIII, b 345; postage stamps in (Post-Office), XIX, b 604
Hung-che, Ming emperor (China), V, b 563
Hunger (Nutrition), XVII, b 636-7
Hungerford, town (Wilts), XXIV, b 625, a 626; Market (London), XIV, b 837, b 838
Hung-Hoa, town (Tong-King), XXIII, a 470
Hung-ke, Ming emperor (China), V, a 563
Hungo Pavie, pueblo (Pueblo Indians), XX, b 887
Hung Sew-tseuen, rebel (China), V, a b 566
Hung-woo, Chinese, emperor (Mongols), XVI, a 770; (China), V, *a* 563
Hüningen, town (Pisciculture), XIX, a 137, a 138
Hunkers, political party (Tammany Society), XXIII, b 920
Hunne, Richard, martyr (Reformation), XX, a 340
Hunnebedden (Rude Stone Monuments), XXI, a b 58
Hunniades, family (Amurath II.), I, a 686
Hunnings transmitter (Telephone), XXIII, a 140
HUNS, race, XII, a 396-8; (Aëtius), I, a 202; (Commerce), VI, b 178; (Germany), X, *b* 427; (Goths), *b* 754, a *b* 755; (Greece), XI, *b* 100; (Hungary), XII, a 382; (Illyria), b 748; (India), b 828, note, a b 829; (Justinian I.), XIII, a 807; (Merseburg), XVI, b 45; (Turkestan), XXIII, a 680; (Turks), a 701; (Valens), XXIV, *a* 42; irruptions of (Rome), XX, a 799; (Syriac Literature), XXII, b 868; White or Ephthalites (Hwen T'sang), XII, b 434; (Khazars), XIV, *b* 61-2; (Persia), XVIII, b 621, a b 622. See Heung-nu, Khazars
——, *Histoire Générale des* (Guignes), XI, b 229-30
Hunsdon, Lord (Mary Stuart), XV, *a* 606
HUNT, James Henry Leigh, essayist, XII, a 398-400; (Byron), IV, *b* 542, a 514; (Poetry), XIX, a 277; (Shelley), XXI, a *b* 829, a 831
——, Richard M., architect (Globe), X, b 607
——, Robert, physicist (Photography), XVIII, a 848, a 853
——, Thomas, teacher (Shakespeare), XXI, a 788
——, Thomas Sterry, geologist (Geology), X, b 197 note, b 207, a 213, a 279 note, b 290, b 295; (Iron), XIII, b 345
——, Walter, inventor (Sewing-Machines), XXI, *b* 754, b 919, b 920
HUNT, William Henry, painter, XII, a b 400
Hunte, river (Oldenburg), XVII, b 778, *a* 780
Hunter, the Horse), XII, a 191-4, b 197, a b 198-9
Hunter, The, Greek novel (Romance), XX, b 650
Hunter mountain (United States), XXIII, b 843
—— river (New South Wales), XVII, a b 418, *a* 420
——, Andrew, governor 1710-19 (Talbot), XXIII, a 919
——, Anne Home, XII, *a* 402, note
——, David, general (Lincoln), XIV, b 666
——, F. M., navigator (Somali), XXII, a b 269, note
——, John, apiarist (Bee), III, b 418, a *b* 419, b 421, b 423, b 426, a 434. See List of Contributors
HUNTER, John, surgeon, XII, b 400-7
  anatomical collection, a b 403, b 405-6
  biological theory, a 406-7
  character, a b 405
  education, b 400-1
  experiments, b 401-2, b 403-4
  lectures, b 402-3

—— (Anatomy), I, b 714, a 715, a 718; (Hydrophobia), XII, b 578; (Jenner), XIII, b 633, a b 634; (Ornithology), XVIII, a 30 note; (Pathology), b 367, b 368, b 410; (Surgery), XXII, *a b* 711, a 714 note; (Touch), XXIII, b 508, b 509; (Zoology), XXIV, b 839, a b 842, b 854-5
HUNTER, William, physiologist, XII, a 403, b 407-8; (Anatomy), I, b 714, a b 715; (Cullen), VI, b 613; (Baillie), III, a 210; (Embalming), VIII, b 146; (Embryology), a 152; (Surgery), XXII, a 711; (Meteorology), XVI, b 187; (Zoology), XXIV, b 854-5
Hunterian Museum (Glasgow), X, b 574, a 575; oration (Hunter, J.), XII, b 400 note
"Hunter's canal" (Hunter, J.), XII, a 404
—— Point (Long Island City), XIV, a 877
—— screw (Mechanics), XV, a 773
—— White Wheat (Agriculture), I, a 315
HUNTING, XII, a 408-12; (Chamois), V, b 333; (Cheetah), b 395-6; (Dog), VII, a *b* 284, a b 285, a 286; (Giraffe), X, *b* 552; (Horn), XII, b 171; (Horse), a 201-2; (Hound), a 329-30;

HUNTING, *continued*
(Ibex), a b 641; (Otter), XVIII, a 73; (Pheasant), a b 746; (Siberia), XXII, b 14; Roman (Gratius Faliscus), XI, b 54
——, governor's oscillation (Steam-Engine), XXII, b 530
HUNTINGDON, county (Plate III), XII, b 412–4; town, a b 414
——, earldom of (Scotland), XXI, b 508; (Tottenham), XXIII, b 506
——, earl, lord high admiral (Seals) (Ill.), XXI, a 616
HUNTINGDON, Selina, countess of, XII, b 414–15; (Whitefield), XXIV, a 583; daughter of, rejects Ivan IV. (Russia), XXI, b 101
Huntington, bay (Long Island), XIV, a 876
——, Joseph, divine (Universalists), XXIII, a 886
Huntly, Gordon, 3rd earl of (Mary), XV, a b 602, a b 603, a 604; (Scotland), XXI, a 520, a 521, b 522
——, George Gordon, 4th earl of (Scotland), XXI, b 525, b 528, b 530
Hunts, county. See HUNTINGDON
Huntsman (Hunting), XII, b 410-11
——, Benjamin, inventor (Sheffield), XXI, a 824
——, Wild, legend (Jew, Wandering), XIII, a 685
Huntsmann's steel (Iron), XIII, b 351
Hunt's processes (Photography), XVIII, a b 838
Hunyady, John, governor (Hungary), XII, *a* 383; (Turkey), XXIII, a b 683
Hunza, town, (Gilgit), X, a *b* 534
Huon Gulf (New Guinea), XVII, a 396
—— islands (New Caledonia), XVII, b 385
Huon de Bordeaux, poem (France), IX, a 562, (Oberon), XVII, a 724; (Romance), XX, b 669
HUPFELD, Hermann, orientalist, XII, a 415; (Bible), III, b 550; (Pentateuch), XVIII, b 516, b 517, a 518; (Persia), b 573 note; (Psalms), XX, b 39
Hura crepitans, fruit of (Botany), IV, b 136, b 138
Huræ, town (Urga), XXIV, b 15
HURD, Richard, bishop, XII, a b 415; (Warburton), XXIV, *b* 389
Hurdle-races (Horse), XII, a 207
Hurdling sheep (Agriculture), I, a 335
Hurdwar. See HARDWAR
Hurdy-gurdy, musical instrument (Pianoforte), XIX, a 73
Hureaulite (Mineralogy), XVI, b 421
Hurka river (China), V, a b 564; (Manchuria), XV, *a b* 473
Hurlet limestone (Geology), X, *b* 308
Hurlingham Club (Polo), XIX, a 417
Hurmuz, town. See Ormuz
Hurn, William, clergyman (Hymns), XII, b 629, a 630
Huron, Lake (Geology), X, b 328; (Lake), XIV, b 218; (St. Lawrence), XXI, a b 187, a 191
Huronian rocks (Newfoundland), XVII, b 392; (New Hampshire), *a* 401; (America), I, b 596; (Geology), X, b 290, a 291; (Wisconsin), XXIV, b 649–50
Huronite (Mineralogy), XVI, a 436
Hurons, tribes (Indians), XII, b 867, b 871; (Montreal), XVI, b 821; (Totemism), XXIII, a 499; (Toronto), a 477
Hurrseanah, district. See HARIANA
Hurricane-bird (Frigate-Bird), IX, b 690, note
—— Ledge (United States), XXIII, b 849
Hurricanes (Jamaica), XIII, a 559, b 560; (London), XIV, a b 854; (Meteorology), XVI, b 160, b 187; (Navigation), XVII, b 283–4; (Polynesia), XIX, a b 435; (West Indies), XXIV, *a* 539
Hurrur, town. See HARAR
Hurtado, Luis, poet (Romance), XX, b 673
Hurunui river (Canterbury), V, b 28
Husain. See Hosain, Husein
——, amir (Ghazni), X, a 502
——, Sháh, the Good (Gaur), X, a 104
——, Sháh (Persia), XVIII, b 650-1
—— Ali, sayyid (Hyderabad), XII, *b* 445
—— Mirza, sultan (Mirkhond), XVI, a b 522; (Persia), XVIII, a 644
—— Miyán, Ráo (Cutch), VI, *a* 646
Husainī, author (Hindustani Literature), XI, *a* 758
HUSBAND AND WIFE, XII, b 415–8; (Ethnography), VIII, *b* 543; offences of husband (Women), XXIV, *b* 675–6; his coercion (Women), b 675, notes. See Wife
Husbandry (Ethnography), VIII, b 543; alternate (Agriculture), I, a b 270
——, *Book of* (Agriculture), I, a b 263
——, *Points of* (Tusser), XXIII, b 714
HUSCH or Hushi, town, XII, a 418
Huschke, Immanuel Gottlieb, philologist (Roman Law), XX, a 691 note, a 699 note, a b 700 note, b 711
HUSEIN AND HASAN, heroes, XI, a b 454. See Hosain, ben Ali
Huser, Johann, editor (Paracelsus), XVIII, b 239
Huseyn, Amuja-záda, grand vizier (Turkey), XXIII, b 687
HUSHIÁRPUR, district, XII, a b 418; (Punjab), XX, b 112, b 114; town, XII, b 418–9
Hushing letter (Hieroglyphics), XI, a 714
HUSKISSON, William, statesman, XII, a b 419; (Finance), IX, a 165; (Palmerston), XVIII, a 198; (Peel), b 465, a 466
HUSS, John, reformer, XII, b 419–22; (Chess), V, a 521; (Gerson), X, *a* 492; (Jerome of Prague), XIII, *b* 642; (Palacky), XVIII, a b 147; (Popedom), XIX, a 517; (Slavs), XXII, a 161; (Trent, Council of), XXIII, b 581; (Wycliffe), XXIV, a 747
Hussars (Cavalry), V, a 228
Hussein Boushrevieh, mollah (Babi), III, *b* 156
Hussen, sultán (Jaunpur), XIII, b 610
Hussey, Obed, inventor (Patents), XVIII, b 877; his reaping machine (Agriculture), I, b 286–7
Husshiel, rabbi (Talmud), XXIII, b 43–4
Hussinecz, village (Huss), XII, b 419, note
Hussite war (Germany), X, b 444; (Reformation), XX, a 349; (Procopius), XIX, a 813
HUSSITES, sect, XII, b 422–3; (Eugenius IV.), VIII, a 582; (Hymns), XII, a b 620; (Iglau), b 738; (Prague), XIX, a 679
HUSUM, town, XII, b 423
HUSZT, town, XII, b 423
Hutan, city (Khotan), XIV, b 69
HUTCHESON, Francis, philosopher, XII, b 423–7; (Æsthetics), I, a b 199; (English Literature), VIII, *b* 384; (Ethics), a 528, a b 529; (Price), XIX, b 741, a 742; (Shaftesbury), XXI, b 769, a 770
——, Francis, physician (Hutcheson), XII, b 424
Hutch-farming (Rabbit), XX, a 200
Hutchinson, Anne, puritan (Wheelwright), XXIV, a 893
——, Francis, bishop (Witchcraft), XXIV, a 655
HUTCHINSON, John, sectary XII, b 427
——, Jonathan, physician (Pathology), XVIII, a 415, a 417 note; (Surgery), XXII, a 721; (Vaccination), XXIV, b 32
HUTCHINSON, John, soldier, XII, a b 427
HUTCHINSON, John, author, XII, b 427
——, John Hely, general (Geoffroy - Saint - Hilaire), X, a 156
——, Lucy Apsley, biographer, XII, a b 427
HUTCHINSON, Thomas, governor, XII, b 427–8
——, William, dockmaster (Lighthouse), XIV, b 623
Hutchinsonianism (Jones, W.), XIII, b 750, a 751
Hutchins's goose (Goose), X, b 692
Huts (Congo), VI, a 237; (Cornwall), b 378
Hutten, Philip von, explorer (El Dorado), VII, b 721
HUTTEN, Ulrich von, poet, XII, a 428–9; (Germany), X, b 446–7, b 472–3, a 487; (Luther), XV, b 75; (Reformation), XX, *a* b 338, b 339, *b* 345; (Satire), XXI, b 334
HUTTON, Charles, mathematician, XII, b 429–30; (Earth), VII, a b 521; (Gregory, O.), XI, b 164; (Gunnery), b 264, a 269; (Gunpowder), b 287, b 288, a 295; (Logarithms), XIV, b 782, a 783; (Napier), XVII, a 188; (Tables), XXIII, b 13, a 16, a b 17, a 18, a 20; (Trigonometry), a 608
HUTTON, James, geologist, XII, a 430–1; (Geology), X, b 190–1, a 239
——, Nicholas, political author (Filmer, Sir R.), IX, a 146
——, William, antiquary (Birmingham), III, b 681, a b 682
Huvamohel, district (Ceram), V, *b* 299
Huvishka, king, India (Inscriptions), XIII, b 125, a 126
Huxley, Thomas Henry, naturalist (Abiogenesis), I, a *b* 51, a 52; (Alchemy), a 413; (Amphibia), a 658, b 676 note: (Anatomy), b 717, a 718, b 729, b 752; (Annelida), II, *a* 59; (Anthropology), b 95, *a* b 96, a 98; (Arachnida), a 240, b 241; (Brachiopoda), IV, b 170, a 171, *b* 172, *a* 173; (Crustacea), VI, b 558, a b 559, note, *a* 560, b 561, b 578 note; (Distribution), VII, b 245, *a* 248; (Heron), XI, b 681; (Humming-Bird), XII, b 371; (Hydrozoa), *a* 580, a 581, b 586, a 588, *b* 589, a 590; (Lämmergeyer), XIV, a 244 note; (Mammalia), XV, a b 373, a 374, a 421 note, a b 445, a 451, note; (Metaphysic), XVI, b 90; (Miller, Hugh), a 332; (Morphology), b 868, a 870, b 871, b 873; (Ornithology), XVIII, a 38–40, b 43, a 45, b 46, b 47 note, a b 48, a b 49, a b 50, a 51; (Ostrich), b 66; (Oyster), b 110, a 111, b 112, note; (Parrot), a b 328; (Partridge), b 338 note; (Pisciculture), XIX, b 135, a 136; (Protozoa), b 859, b 861; (Radiata), XX, a 219; (Reproduction), a 433, a 435; (Reptiles), b 450, *a* 451, a 452, b 455 note; (Salmonidæ), XXI, a 238; (Sauropsida), *a* 338; (Screamer), b 578; (Seriema), b 709–10; (Tape-Worms), XXIII, *a* 61; (Tinamou), b 429; (Trogon), a 621; (Tunicata), b 647, a b 658; (Variation), XXIV, *b* 86, a b 87, *b* 89, note; (Zoology), b 847, *b* 848; on classification of Birds, III, *b* 604, a 605, a 606, b 607 note, a 631; (Ornithology), XVIII, a 38-40; on desmognathous Birds, III, a 617, b 618, b 619, a *b* 620, note; on vertebræ of Birds, a 622, note; on vocal and respiratory organs (Birds), b 629, note–30; classification of Animal Kingdom,

Huxley, *continued*
II, a 49; (Zoology), XXIV, b 848; on classification of races (Anthropology), II, a 109-1. See List of Contributors.
HUY, town, XII, a b 431
Huygenian eye-piece (Telescope) (Ill.), XXIII, a *b* 156, a 157
HUYGENS or Huyghens, Christian, astronomer, XII, b 431-2; (Astrology), II, a 648; (Astronomy), b 659, a 705, b 709; (Clocks), VI, a b 14; (Crystallography), b 594; (Earth), VII, b 516, a 519; (Hooke), XII, *a* 153; (Infinitesimal Calculus), XIII, b 29; (Light), XIV, b 602, a b 608-9, a *b* 610, b 614, a b 615; (Mensuration), XVI, a b 22; (Micrometer), b 251; (Microscope) (Ill.), a 277-8; (Newton), XVII, a 457; (Papin), XVIII, b 232, a 233; (Pneumatics), XIX, a 258; (Steam-Engine), XXII, b 491; (Telescope), XXIII, *a* b 148; (Wave Theory), XXIV, a 451-2, a 470, a 473; his construction of Wave-Surface, b 474-5; his endless chain (Clocks), VI, a 22, b 27
HUYGENS, Sir Constantijn, poet, XII, b 432-3; (Holland), b 98
Huysmann, Roelof. See AGRICOLA, Rodolphus
HUYSMANS, family of painters, XII, a b 433
——, Cornelis 1st, painter, XII, a 433
——, Cornelis 2d, painter, XII, b 433
——, Jacob, painter, XII, a b 433
——, Jan Baptist, painter, XII, b 433
HUYSUM, Jan Van, painter, XII, b 433-4
——, Justus van, painter, XII, b 433
Huzára, district (Hazára), XI, a 488
Hvarenó, legend (Scythia), XXI, b 603
Hven, island (Sweden), XXII, b 775
Hvitá, rivers (Iceland), XII, b 652
Hvitfeld, Arild, historian (Denmark), VII, a 79
Hwa Heen, district (China), V, a 556
Hwai Seng, monk (Hwen T'sang), XII, a 434
Hwang-ho, river. See Hoang-ho
Hwang-yĭh, lake (China), V, b 549
Hwang-te, emperor (China), V, b 558
HWEN T'SANG, Heuen T'-sang or Hiouen Thsang, traveller, XII, a 434-5; (Afghanistan), I, *b* 214, b 218; (Balkh), III, a 244; (Bámián), a 265; (Benares), a 479; (Buddhism), IV, a 391; (China), V, b 578; (Gilgit), X, a 534; (Hissar), XII, a 5; (India), *b* 824, *a* 825; (Issik-Kul), XIII, a 442; (Kashmir), XIV, a 15; (Lhasa), b 498; (Oxus), XVIII, b 104, a 105; (Patna), b 419; (Tamils), XXIII, a 49; (Turkestan), b 680
Hwiccas, tribe (Worcester), XXIV, a b 701
Hwlffordd, town (Haverford West), XI, a 470
Hwuy Ko, legend of (China), V, a 582
——-tsung, emperor (China), V, b 561
Hya, St., nun (St. Ives), XXI, b 180
HYACINTH, flower, XII, a 435-6; (Botany) (Ill.), IV, b 75, b 79, a 88, a 94, b 108, b 110, b 113, a 114, b 121; (Horticulture), XII, b 219, a 259, a b 264; stomata of (Histology), XII, b 19
——, gem (Garnet), X, a 74; (Jacinth), XIII, b 541; (Mineralogy), XVI, a 406, b 428
Hyacinthe, Père. See Loyson
HYACINTHUS, myth, XII, a 436
HYADES, constellation, XII, a 436
HYÆNA, animal (Ill.), XII, a 436-7; (Afghanistan), I, b 209; (Africa), a 232; (Hunting), XII, *a* 412; (Mammalia), XV, a 444; den of Kirkdale (Cave), V, b 232
Hyænodon, fossil (Mammalia) (Ill.), XV, a 449
Hyaleidæ, family (Mollusca), XVI, b 690
Hyaline cartilage (Anatomy), I, a 748; cartilage of ear (Anatomy), *b* 783
—— substance (Hydrozoa), XII, b 583-4
Hyalite (Mineralogy), XVI, b 405
Hyaloid membrane of eye (Anatomy), I, b 781
Hyalonema, genus (Sponges), XXII, a 433, a 439
Hyalonemadæ, family (Corals), VI, b 329
Hyalonematidæ, family (Sponges), XXII, a 439
Hyalophane, mineral (Mineralogy), XVI, b 438
Hyalosiderite (Mineralogy), XVI, b 427
Hyang or Yang, spirit (Java), XIII, a 618
Hybernacula (Polyzoa), XIX, b 447
Hybernation. See HIBERNATION
Hybernia, moth (Butterfly), IV, a 531
HYBLA, cities, XII, b 437
HYBLA, Siculian, XII, b 437
Hybodontidæ, family (Ichthyology), XII, *a b* 706, b 723, a b 732
HYBRIDISM, XII, b 437-42
  animal hybrids, a b 441
  general facts and principles, b 437-8
  graft-hybrids, b 441
  history and literature, b 441-2
  mutual sterility, a 438-40
  variations of fertility, a b 440
—— (Horticulture), XII, b 220
Hybrid, races (Acclimatization), I, a *b* 84; (Anthropology), II, b 100-1
Hybrids (Gladiolus), X, a 564; (Guan), XI, a 206; (Horse), XII, b 179; (Merganser), XVI, b 40 note; (Pheasant), XVIII, b 746
Hyccara, town (Carino), V, a 94
Hycsos, race. See Hyksos
Hydahs, tribes (Indians), XII, *a* 866
Hydaspes, river (Kashmir), XIV, a 12
Hydatinadæ, animalcules (Rotifera), XXI, a 12
HYDE, town, XII, b 442
——. See CLARENDON, Earl of
HYDE, Thomas, orientalist, XII, b 442-3; (Chess), V, b 519; (Ulugh Beg), XXIII, b 769; (Zend-Avesta), XXIV, b 816
—— abbey charters (Libraries), XIV, a 515
—— Park (London), XIV, *a* 830, a 832, *a* 833, a 850, a 860
Hyder, name. See Haidar
HYDERABAD, district and town, XII, b 445-6
HYDERABAD or "Territory of the Nizám," state and city, XII, b 443-5
HYDER ALI, prince, XII, a b 443; (Ballárí), III, a b 248; (Bangalore), b 270; (Calicut), IV, a 615; (Hastings), XI, b 459-60; (India), XII, b 843
Hydnacei, group (Fungus), IX, a b 731
HYDRA, island, XII, b 446-7; (Greece), XI, b 75, a 80, b 110; town, XII, b 446
——, genus (Hydrozoa) (Ill.), XII, *a* b 582, a 583, b 594, *a* b 595; (Physiology), XIX, b 17-9; muscular tissue of (Histology), XII, a b 11; ovum of (Reproduction) (Ill.), XX, a 427; reconstructive power of (Pathology), XVIII, a 368
Hydrachnides, family (Arachnida), II, *b* 240, a 241, a 242
Hydracrylic acid (Lactic Acid), XIV, b 197
Hydractinia, genus (Hydrozoa) (Ill.), XII, b 580, *a* b 587, b 588 note, a 595, a 598
Hydradephaga, group (Coleoptera) (Ill.), VI, b 117-8
Hydramides (Chemistry), V, b 500
HYDRANGEA, plant, XII, a 447
Hydrargillite (Mineralogy), XVI, a 404
Hydrargyrum. See MERCURY, Metal
Hydra sounding rod (Sounding) (Ill.), XXII, b 294
Hydrate, Chloral, V, a 588-9; of Manganese, XV, a 488; of Potassium, XIX, b 603-7; silica (Chemistry), V, *a* b 453, *b* 453; of Thallium, XXIII, a 238; of Zinc, XXIV, b 825; of Zirconia, XXIV, b 828. See Hydroxides
Hydrates, ores (Metallurgy), XVI, a 66
Hydration of rocks (Geology), X, a 238
Hydraulic accumulator (Hydromechanics) (Ill.), XII, b 552-3
—— Cements, V, a 285; (Lime), XIV, a 654
—— docks (Harbors and Docks), XI, b 420
—— forging (Hammer), XI, a 381; (Iron), XIII, a 337
—— gradient (Hydromechanics), XII, b 487, b 508-9
—— gun gear (Gunnery) (Plate VI), XI, b 278-9
—— jigging hutch (Coal), VI, b 72
—— Lift (Ill.), XIV, b 578-80; (Harbors and Docks), XI, a 420; (Hydromechanics) (Ill.), XII, b 550-1; (Iron), XIII, a b 308
—— limes (Building), IV, a *b* 410-1; (Geology), X, a 207
—— machinery (Hydromechanics) (Ill.), XII, a 549-67
—— main (Gas and Gas-Lighting) (Ill.), X, a b 83
—— mean radius (Hydromechanics), XII, b 508
—— mining (California), IV, b 621-2; (Gold) (Ill.), X, b 663-4; (Mining), XVI, b 475-6
—— motors (Coal), VI, a 69
—— Organ, ancient, XVII b 860
—— Press (Bramah), IV, b 192; (Calender) (Plate XXXII), b 606; (Hydromechanics), XII, b 457; (Oils), XVII, a b 762
—— ram (Boulton), IV, b 157; (Hydromechanics) (Ill.), XII, b 564-5
—— rollers (Iron), XIII, b 338
Hydraulics (Hydromechanics) (Ill.), XII, a b 451, a b 452, a b 454, a b 478-567; (Poncelet), XIX, a 467; (Torricelli), XXIII, *a* 482
Hydraulic shock (Hydromechanics), XII, b 550
—— squeezers (Iron), XIII, b 336
Hydrazines (Nitrogen), XVII, a 533
Hydrides (Chemistry), V, b 412-3; alkaline metal (Chemistry), b 454; cuprous (Chemistry), a 458
Hydriform persons (Hydrozoa) (Ill.), XII, a 582-3, b 585-7, *a b* 588, *b* 593, *b* 594, *a b* 595, b 597, a 598, a 599
Hydroboracite (Mineralogy), XVI, a 413
Hydrobromic acid, preparation of (Chemistry), V, *b* 425-7
Hydrocampidæ, family (Butterflies) (Plate XXXI), IV, a 531
Hydrocarbon compounds, arsenic group (Chemistry), V, a 469; cyanides (Chemistry), b 481-2, a 491; gases (Poisons), XIX, b 291; (Smell), XXII, b 177
HYDROCARBON PRODUCTS, XVIII, a 885-905
—— series (Chemistry), V, *b* 478, *a* 479
Hydrocarbons (Chemistry), V, b 479, a 482-7; (Coal), VI, a b 44; (Flame), IX, b 246, *a* 247; (Fuel), b 710; (Iron), XIII, a b 340; (Naphtha), XVII, b 181;

- Hydrocarbons, *continued* (Nutrition), b 695; (Paraffin), XVIII, b 241-2; analyses of (Petroleum), a 894; in food (Dietetics), VII, b 182; silicon (Chemistry), V, b 453–4
- HYDROCEPHALUS, disease, XII, a 447–9; congenital (Monster), XVI, a 790, b 791
- Hydrocharis, meristem zones (Histology),XII, *b* 17
- Hydrochelidon, genus(Tern), XXIII, a b 206
- Hydrochloric acid (Alchemy), I, a 409; (Alcohol), a 416; (Chemistry), V, a 406, b 415; (Chlorine), a *b* 589; (Gay-Lussac), X, b 110; (Metals), XVI, b 75; (Sodium), XXII, a *b* 255, a 256; (Distillation), VII, a 228; (Poisons), XIX, a 291; preparation of (Chemistry), V, *b* 425–7; volcanic (Geology), X, b 215; tests (Oils), XVII, a 766
- Hydrochlorides (Nitrogen), XVII, b 530
- Hydrochœrus, genus (Mammalia), XV, a 422, a 425, a 426
- Hydrocorallinæ, order (Hydrozoa) (Ill.), XII, b 580, *b* 587, a 588, b 597–8, b 599
- Hydrocyanic acid (Cassava), V, b 159; (Chemistry), b 480–1; (Gay-Lussac), X, a 111; (Laurel), XIV, a 319; (Nitrogen), XVII, *b* 532; (Poisons), XIX, a b 290; (Prussic Acid), XX, a b 27, b 29
- Hydrocyonina, sub-order (Ichthyology), XII, b 731
- Hydrodictyeæ, order (Vegetable Kingdom), XXIV, *a* b 137, b 138
- Hydrodictyon, genus of plants (Biology), III, b 598; (Reproduction), XX, b 442, b 443
- *Hydrodynamica* (Bernoulli, D.), III, b 524
- Hydrodynamics (Hydromechanics), XII, a b 451, a 452–3, a 462–8; (Lagrange), XIV, a 209
- Hydrodynamometer(Hydromechanics), XII, a b 537
- Hydrofluoric acid (Fluorine) IX, a 306; preparation of (Chemistry), V, *b* 425–7
- Hydrofluosilicic acid (Chemistry), V, b 452
- HYDROGEN, gas (Ill.), XII, a 449–51; (Chemistry), V, b 414–5; (Acid), I, a 92; (Aëronautics), a 170, a 171, a 184; (Coal), VI, a b 44; (Fuel), IX, a 709; (Graham, T.), XI, b 30; (Iron), XIII, a b 290; (Metals), XVI, a 75; (Water), XXIV, b 421–2; atom of (Polarity) (Ill.), XIX, b 326; calorific effects of (Oxyhydrogen Flame), XVIII, b 108–9; density of solid (Chemistry), V, a 465; determination of (Organic Chemistry), a 472–3; diffusion through (Heat), XI, b 519, a 523; expansion of (Heat), *a* *b* 512; metallic nature of (Chemistry), V, a 471; occlusion of (Iron), XIII, b 285; Pyrometer, XX, a 137; specific gravity of (Cavendish), V, b 236; spectrum (Spectroscopy), XXII, b 389; stars (Sun), b 685; stellar (Geology), X, *a*192; thermal capacity of (Heat), XI, b 510-11; thermometer (Heat), *a* 503, note
- —— compounds (Chemistry), V, a b 415; with oxygen (Chemistry), b 418–24; with phosphorus (Chemistry), a b 447; peroxide (Thénard), XXIII, b 271
- Hydrogenium (Platinum), XIX, a 205
- Hydrogens, Phosphuretted, XVIII, a b 830
- Hydrographic American Surveys, XXII, a b 940
- Hydrography (Hydromechanics), XII, b 454, b 517–39; (Melville van Carnbee), XV, b 853; (Mexico), XVI, a 224; modern (Navigation), XVII, a b 269
- Hydroid polyps (Hydrozoa), XII, b 586, a 587, *a* 594, a 596
- Hydroidic acid, preparation of (Chemistry), V, b 425–7
- Hydrokineter (Steam-Engine), XXII, b 522
- Hydrokinetic analogue to torsion (Elasticity), VII, b 703, b 704
- Hydrokinone (Photography), XVIII, b 839
- Hydrolytic decompositions (Nutrition), XVII, a 691
- Hydromagnesite (Mineralogy), XVI, b 415
- HYDROMECHANICS (Ill.), XII, a 451–567
    - general principles, b 454–6
    - history, a 451–4
        - ancient, a b 451
        - eighteenth century, b 452–3
        - nineteenth century, b 453–4
        - seventeenth century, b 451–2
    - HYDRAULIC MACHINERY, a 549–67
        - accumulator machinery, b 552-3
        - centrifugal pumps, b 565–7
        - hydraulic ram, b 564–5
        - pumps, a 565–7
        - reciprocating pumps a b 565
        - turbines, a 555–64
        - water motor, principles, a 549-50
        - water-pressure engines, b 550-2
        - water-wheels, b 553–5
    - HYDRAULICS, a 478–567
        - aëronautic experiments, a 548
        - Bazin's velocity formulæ, a b 524–5
        - bellmouth coefficients, a 484
        - Boileau's velocity formulæ, b 524
        - calculations of pipe flow, a 513–14
        - channels, open, b 517–21, a 526–9
        - channels, problems on, a 521–2
        - contraction of jets, a 483–4, a b 485, a 491–2
- HYDROMECHANICS, *continued*
    - HYDRAULICS
        - currents, a 489-90
        - distribution of energy in liquids, a 487–9
        - friction experiments, liquids, b 506–8
        - friction of liquids, a 506–8
        - friction in pipes, a b 509-10
        - gases, flow in pipes, a 515–17
        - gases, properties of, b 480
        - gases, steady flow, b 503–5
        - gauging streams, b 537–9
        - gauging water, a 499–503
        - head, b 482
        - head, constant, b 496–9
        - head dissipation in shock, b 490–1
        - head-loss in pipes, b 510-13
        - head, varying, a 499
        - hydraulic gradient, b 508–9
        - impact and reaction, water, b 539-48
        - inundation deposits, b 532
        - inversion of jets, b 485–6
        - irrigation modules, b 500–2
        - kinematics of fluids, b 480-2
        - liquids, properties of, b 479–80
        - mean velocity, streams, a b 525
        - measuring cocks, b 499
        - notches and weirs, b 493–5
        - orifices, discharge from, a 482–6, a 491–3, a 495–6
        - orifices, simple, b 492–3
        - pipes, water flow in, a 508–15
        - properties of fluids, a 478–80
        - rectangular orifices, b 484–5
        - reservoir gauging, b 502-3
        - resistance of ships, a 548–9
        - river beds, b 530–1
        - river bends, b 525–6
        - river catchment basin, a 530
        - river deltas, b 532
        - river flood discharge, a b 530
        - river improvement operations, b 532–9
        - river levels, a 532
        - rivers, streams, and canals, b 517–39
        - sewers, a 521
        - sharp edged orifices, a b 484
        - standing waves, a 529-30
        - steady motion, fluids, b 436–91, b 503–5
        - stream measurement, b 499-500
- HYDROMECHANICS, *continued*
    - HYDRAULICS
        - submerged works, materials, a 532
        - theory of pipe flow, a b 508
        - velocity and resistance coefficients, b 482-3
        - velocity gauging instruments, a 533–7
        - velocity of jet filaments, a b 492
        - velocity variations, streams, b 522-3
        - water inch, a b 499
        - water main scraping, b 510
        - water supply, pipe calculations, a 514–15
        - wind, effect on streams, b 523–4
    - HYDRODYNAMICS, a 462–78
        - Cauchy's integrals, a 466–7
        - Eulerian equations, a 462–5
        - flow, circulation, and vortex motion, a b 468
        - irrotational motion, a 467–8
        - Lagrangian equations, b 465–7
        - plane motion of liquids, a 469–72
        - plane vortex, motion, b 468-9
        - solids, motion through liquid, b 472–7
        - wave motion, a 477–8
    - HYDROSTATICS, a 456–61
        - centre of pressure, b 459-60
        - figure of the earth, b 458-9
        - general equilibrium equations, a b 458
        - gravity equilibrium, a 456–8
        - metacentre, a 460-1
        - tension of flexible surfaces, b 461
- Hydromedusæ, sub-class (Hydrozoa) (Ill.), XII, b 580, a 581 note, a *b* 584, *b* 585, *b* 586, *a* *b* 587, a b 588 note, b 589, note, b 593–9; (Morphology), XVI, b 872; (Sex), XXI, a 756, muscular tissue (Histology), XII, a 11
- Hydromel, drink (Honey), XII, a 141
- Hydro-metallurgy (Copper), VI, b 308, b 310-11, b 312
- HYDROMETER, instrument (Ill.), XII, a 568–75; (Brewing), IV, b 237
- Hydromyinæ, group (Mammalia), XV, b 423–4
- Hydronephrosis, disease (Dropsy), VII, a 408
- Hydroparastatæ, sect (Aquarians), II, b 189
- HYDROPATHY, XII, a 575–8
    - appliances, b 576-7
    - bibliography, a 578
    - crisis theory, a 577–8
    - history, a 575–6
    - theoretical basis, a b 576

- Hydropathy (Baths), III, a 379, a 380–1
- Hydrophane (Mineralogy), XVI, a 406
- Hydrophidæ, family (Snakes) (Ill.), XXII, a 204, b 208–9
- Hydrophilus, genus (Coleoptera) (Ill.), VI, *a* 116, a 118
- Hydrophite (Mineralogy), XVI, b 432
- HYDROPHOBIA, disease, XII, a 578–80; (Egypt), VII, b 610; (Rabies), XX, *b* 205, a 206–7
- Hydrophyllia (Hydrozoa) (Ill.), XII, a 598, a 599
- Hydrophyta, order, Algæ, I, a 448
- Hydropneumatic turbine system (Hydromechanics), XII, b 562
- Hydropotes, genus (Mammalia), XV, a 438; (Musk-Deer), XVII, a 114
- Hydropterideæ, sub-class (Vegetable Kingdom), XXIV, a b 141
- Hydrorrhachis (Monster), XVI, a 790
- Hydrostatic balance (Galileo), X, a 29
- —— paradox (Perpetual Motion), XVIII, a 566; (Stevinus), XXII, a 574
- —— pressure (Constitution of Bodies), VI, a 277; volcanic (Geology), X, b 220
- —— test (Medical Jurisprudence), XV, b 793
- HYDROSTATICS (Hydromechanics) (Ill.), XII, *a* 451, a b 452, a 456–61; (Earth, Figure of the), VII, a 519–20; (Galileo), X, b 33; (Lagrange), XIV, a 209
- Hydrosulphides (Chemistry), V, *b* 433
- Hydrosulphite of soda (Dyeing), VII, a 499
- Hydrosulphuric acid (Chemistry), V, a b 433; (Mineral Waters), XVI, b 451, a–b 454
- Hydrotalcite (Mineralogy), XVI, a 404
- Hydrotheca, genus (Hydrozoa), XII, b 595, b 596
- Hydrotropism of plants (Physiology), XIX, b 67
- Hydroxides or hydrates (Chemistry), V, a 420–3; aluminium, *b* 461; auric, *a* b 459; arsenic group, *a* 469; cerite metals, a b 470; iron group, b 462, *a* 463; platinum and palladium, a b 466; thallium, *a* b 460; tin, *a* 467
- Hydroxyl (Chemistry), V, b 420
- Hydroxylamine (Chemistry), V, *b* 443, b 445–6; (Photography), XVIII, b 839
- Hydrozincite (Mineralogy), XVI, a 416
- HYDROZOA, division of Animal Kingdom, XII, a 580–600
  - fossil, a b 599
  - hydromedusæ, b 593–9
    - calyptoblasta - leptomedusæ, b 595–6
    - gymnoblastea anthomedusæ, b 594–5
    - hydrocorallinæ, b 597–8
- HYDROZOA, *continued*
    - narcomedusæ, b 596–7
    - siphonophora, a 598–9
    - trachomedusæ, b 596
  - scyphomedusæ, b 588–93
    - conomedusæ, a 593
    - discomedusæ, a 590–3
    - lucernariæ, b 589–90
    - peromedusæ, a 593
  - structural features, a 581–8
    - comparison and relations of forms, b 585–7
    - definition, b 588
    - hydriform persons, a 582–3
    - individuation of organs, b 587–8
    - medusiform persons, a b 583–5
- —— (Actinozoa), I, b 119–20, *b* 121; (Biology), III, *a* 595; (Corals), VI, b 333, b 339–40; (Morphology), XVI, b 868, a b 869
- Hydruntum or Hydrus, city (Otranto), XVIII, b 71
- Hydrurus, alga (Vegetable Kingdom), XXIV, b 137
- Hyena. See HYÆNA
- HYÈRES, town, XII, a 600; (Var), XXIV, *b* 75, a 76; isles of (Lavender), XIV, b 353
- Hyetometer (Raingauge), XX, b 268–9
- Hyetometrograph, Hermann's (Raingauge), XX, a 269
- Hyetornis, genus (Birds), III, b 650
- HYGIENE, XII, a 600–3; (Navy), XVII, a 306. See PUBLIC HEALTH
- "Hygiène cérébrale" (Comte), VI, b 207
- Hygienic Climates, VI, a 5, b 6, a b 7, *a* 8; regimen (Combermere), VI, a b 162
- HYGINUS, Caius Julius, writer, XII, b 603
- —— of Cordova, bishop (Priscillianists), XIX, a 766
- HYGINUS, Gromaticus, surveyor, XII, b 603; (Camp), IV, b 663
- HYGROMETRY (Ill.), XII, b 603–5; (Amontons), I, b 654; (Atmosphere), III, b 29–30; (Deluc), VII, a b 48; (Diffusion), b 189; (Meteorology), XVI, a b 124, b 125; of Barometrical measures, III, a 333; hot house (Horticulture), XII, a b 237; investigations (Saussure), XXI, a 339
- Hygrophilite (Mineralogy), XVI, b 443
- Hyksos or Hycsos, race (Amalekites), I, a 573; dynasty (Egypt), VII, b 637–8, b 641; (Joseph), XIII, b 759
- Hylactes, genus of birds (Tapaculo), XXIII, b 54
- Hyla, genus (Frog) (Ill.), IX, a b 699, a 700
- Hylas, legend of (Argonauts), II, a 437
- Hylic or carnal men (Valentinus), XXIV, a 45
- Hylleans, tribe (Greece), IX, b 83
- Hyllus, eponym (Dorians), VII, b 318
- Hylobates, genus (Ape) (Ill.), II, a b 132, b 136, *b* 137, a b 138, *a b* 139, *a* 140, *a b* 141, *a b* 142, *a b* 143, *a* b 144, *a b* 145, b 146
- Hylochelidon, genus (Martin), XV, b 588
- Hylomanes, species (Motmots), XVII, b 9
- Hylomys, genus (Mammalia), XV, a 406
- Hylotoma, insect (Hymenoptera) (Ill.), XII, a *b* 606
- Hylozoic systems (Cudworth), VI, a 610; (Stoics), XXII, a 592
- HYMEN or Hymenæus, song, XII, b 605
- Hymenæus, Caius, physician (Libraries), XIV, b 511
- Hymenial gelatine (Lichens), XIV, b 557, *b* 562; gonidia (Lichens), b 559
- Hymenium, organ (Fungus), IX, a 728; (Lichens), XIV, b 557–8
- Hymenolepis (Tape-Worms), XXIII, a 61
- Hymenomycetes, group (Fungus), IX, b 730–1; (Parasitism), XVIII, a 272; (Vegetable Kingdom), XXIV, b 139
- Hymenophyllaceæ, order (Ferns), IX, b 89, a b 90, a 92; (Vegetable Kingdom), XXIV, a *b* 141
- HYMENOPTERA, order of insects (Ill.), XII, b 605–12
  - bibliography, a b 612
  - classification, a b 610–1
  - distribution, b 611–12
  - external structure, b 605–7
  - internal structure, b 609–10
  - metamorphoses, a b 608
  - reproduction, b 607–9
  - species, b 609, a 612
  - uses of, a b 609
- —— (Ant), II, *a* 84; (Galls), X, b 40, b 41, b 42; (Insects), XIII, b 147, a 149, b 153, a b 154; (Wasps), XXIV, a 412
- Hymettus, mount (Attica), III, *b* 51, *a* b 52, a b 53; (Greece), XI, a 74, a 75, b 79; (Honey), XII, b 141; marble (Rome), XX, a 826
- HYMNS, XII, a 612–31
  - British, b 623–30
    - authorities, b 630
    - Congregational hymnody, a 626–30
    - Independents, b 627–8
    - Methodist hymns, b 628–9
    - nineteenth century, b 629–30
    - paraphrases, Scotch, a b 628
    - psalms, old and new, a b 624–5
    - restoration period, a b 627
    - Scotch psalms, b 624–5
- HYMNS, *continued*
  - classical, a 612
  - Eastern church, a b 613–15
    - antiphony, b 613
    - controversial period, a b 614
    - Greek system, b 614–5
    - melodists, a 614, a 615
  - German, a b 620–3
    - authorities, a b 623
    - Lutheran school, a 620–1
    - pietists, a 622–3
    - romantic school, a 623
    - Silesian schools, a b 621
    - thirty years' war period, a b 621
  - Hebrew, b 612–3
  - uses of, b 630–1
  - Western church, b 615–20
    - Ambrosian hymns, b 615–6
    - authorities, a 620
    - mediæval hymns, b 617, b 618
    - Parisian revision, b 619
    - Roman revision, a 619
    - sequences, b 617–18
    - versification, b 616–17
- —— (Christmas Day), V, b 611; (Greek Church), XI, b 142; (Iceland), XII, b 658; (Music), XVII, b 92–3; (Poland), XIX, *a* 311, a 313; (Syriac Literature), XXII, a *b* 867, notes, a 868, b 870, b 873, a b 878, notes, *b* 893, a 894, b 900
- ——, Accadian (Babylonia), III, a 166
- —— ancient (Egypt), VII, b 625; (Greece), XI, a b 122, b 123; (Homer), XII, b 112; (Orpheus), XVIII, a 55
- *Hymns, Ancient and Modern* (Breviary), IV, a 236
- ——, Bohemian (Slavs), XXII, b 160
- ——, British, XII, b 623–30; (Alford), I, a b 446; (Faber, F. W.), VIII, b 730–1; (Heber), XI, b 530; (Keble), XIV, b 27–8; (Ken), a 35–6; (Lyte), XV, a 122; (Neale), XVII, a 313; (Newton, J.), a 461; (Scotland), XXI, a 568; (Watts), XXIV, a b 437
- ——, Byzantine (Greece), XI, a 130
- ——, Danish (Grundtvig), XI, a 200
- ——, Dutch (Holland), XII, b 93, b 95
- ——, German, XII, a b 620–3; (Angelus Silesius), II, a b 27; (Gellert), X, b 120; (Gerhard, P.), a 399; (Germany), a b 463, notes, b 473, a b 474, a 478; (Luther), XV, a 79, b 84; (Neander, J.), XVII, b 314; (Tersteegen), XXIII, a 213
- ——, Hebrew, XII, b 612–3; (Habakkuk), XI, b 319, a 320; (Psalms), XX, b 33–9

Hymns, Hungarian national, XII, a 393

——, Irish (Celtic Literature), V, b 271

——, Latin, XII, b 615-20; (Ambrose, St.), I, b 583; (Crashaw), VI, a b 490 (Gregory I.), XI, a 157; (Latin), XIV, a 342; (Prudentius), XX, a 5

——, Tamil (Tamils), XXIII, b 48

——, Vedic (Brahmanism), IV, b 182, a b 183, a 184; (India), XII, a 816, a b 819, *a* b 820; (Sanskrit), XXI, a 288-9

Hymns and Songs of the Church (Hymns), XII, *b* 626

Hyndluljod (Edda), VII, b 564

Hyoid bone (Anatomy) (Ill.), I, a 724, a 734; (Ape), II, b 145; (Ichthyology) (Ill.), XII, b 679, a 680, b 683, a b 684, a b 686; (Birds) (Ill.), III, a 616

Hyoidean apparatus (Amphibia), I, b 661, a b 662, *a* 663, a 664, a b 665, b 666, a 667, b 674; (Mammalia), XV, a 359; arches (Skeleton), XXII, b 122, a b 124

Hyomoschus (Mammalia) (Ill.), XV, a b 436

Hyoscyamus or Henbane (Botany) (Ill.), IV, b 112, a b 136; (Henbane), XI, b 580; (Narcotics), XVII, a b 237, 238

Hyostylic skull (Ichthyology), XII, b 684

Hypacyris river (Scythia), XXI, b 602, note

Hypalgia, disease (Touch), XXIII, b 513

Hypanthodium, inflorescence (Botany) (Ill.), IV, a 111

HYPATIA, philosopher, XII, a b 631; (Algebra), I, b 451; (Cyril, Alexandria), VI, *a* 663; (Egypt), VII, a 649; (Hydrometer), XII, a 568, (Neoplatonism), XVII, b 346-7, b 348

Hypatia, Kingsley's novel, XII, a b 631

Hyperæmia (Insanity), XIII, a b 106; in catarrh (Pathology), XVIII, a 385; in rickets (Pathology), b 380

Hyperalgia, disease (Touch), XXIII, b 513

Hyperbola (Conic Sections), VI, a 242, b 247-51, a b 252, *a b* 253; (Curve), a b 638-9; (Geometry), X, a b 357, b 371-2; (Infinitesimal Calculus), XIII, a 55, a b 65; (Logarithms), XIV, a b 780; (Mensuration), XVI, b 24-5; axes and diameters of (Geometry), X, b 358-60

Hyperbolic antilogarithms (Tables), XXIII, b 18; expansion of air (Hydromechanics), XII, b 503; functions (Infinitesimal Calculus), XIII, a b 54; involution (Geometry), X, b 360, *a* 362; (Logarithms), XIV, a 780, a 784, a 786; (Tables), XXIII, b 16-7; paraboloid (Geometry), X, a 364; propagation of bands (Wave Theory), XXIV, a 468; (Trigonometry), XXIII, a b 607

Hyperbolisms (Curve), VI, b 638-9

Hyperboloids (Mensuration), XVI, b 31; of one sheet (Geometry), X, a 364; equation (Geometry), a 376-7; motion of (Mechanics) (Ill.), XV, a b 765

Hyperboreans, myths (Hesperides), XI, b 695

Hyperdulia, worship (Mary), XV, b 598

Hypericaceæ, order (Botany), IV, a 117

Hypericum, plant (Botany), IV, a 123

HYPERIDES, orator, XII, b 631; (Greece), XI, a 127; (Phocion), XVIII, b 813; (Phryne), a 868; MSS. of (Palæography), b 150, a 167, a 169

Hyperidrosis (Skin Diseases), XXII, b 128

Hyperion, moon (Tides), XXIII, b 405; (Telescopic Work), a 936

Hyperion, prose-poem (Hölderlin), XII, *a b* 60

——, poem (Keats), XIV, a 25

——, story (Longfellow), XIV, b 871

Hyperiidæ, family (Crustacea), VI, *a* 573, a 581 note, b 584 note, a 585

Hypermetamorphism (Insects), XIII, b 153

Hypermetropia, defects (Anatomy), I, b 779; (Ophthalmology), XVII, a *b* 807, a 808, *a* 809; (Spectacles), XXII, b 386, a 387

Hyperoodon, genus (Mammalia) (Ill.), XV, a 400; (Whale), XXIV, b 551, a b 554, b 557-8; distribution of (Mammalia), XV, b 376

Hyper-parasitism (Insects), XIII, *a* 149; (Parasitism), XVIII, b 265

Hyperplasia (Hypertrophy), XII, a 632

Hyperpselaphesia, disease (Touch), XXIII, a 513

Hyperpyrexia (Fever), IX, a 110; (Hydropathy), XII, a 576; (Rheumatism), XX, b 531, a 532

Hypersthene (Mineralogy) (Ill.), XVI, a 388, a-b 433

HYPERTROPHY, abnormal growth, XII, a b 632; of bladder (Vesical Diseases), XXIV, b 206; of kidney (Pathology), XVIII, b 396

Hyphæ, cells (Botany), IV, a 96; (Fungus), IX, b 726, a b 727, a 728; (Histology), XII, a 13, *a* 16; (Lichens), XIV, a b 559-60, b 560-1

Hyphantornis, genus (Weaver-Bird), XXIV, a 489

Hyphasis river (Alexander the Great), I, a b 428. See Sutlej

Hyphear, plant (Mistletoe), XVI, *b* 551

Hyphens in early printing (Typography), XXIII, a 730

Hypnosia, disease (Sleep), XXII, a 167

Hypnotics (Chloral), V, b 588-9; (Narcotics), XVII, a 237

Hypnotism (Apparitions), II, *b* 179; (Aristides, Ælius), a 445; (Magnetism), XV, b 279-85

Hypnum, mosses (Muscineæ), XVII, b 72, b 76, a 77

Hypnus, god (Endymion), VIII, a 187

Hypoblast (Animal Kingdom), II, *b* 46, *a* b 47, a 48; (Embryology), VIII, b 154

Hypobythius, genus of Tunicata, XXIII, a 656

Hypocaust or furnace (Baths), III, b 375, a 376; (Stoves), XXII, b 607-8

Hypochlorates (Chemistry), V, a b 428

Hypochlorite (Bismuth), III, b 686; (Mineralogy), XVI, a 444

Hypochlorous acid (Chemistry), V, a 428, b 429

Hypochondria. See HYPOCHONDRIASIS

Hypochondriack and Hysterick Passions (Mandeville), XV, a 480

HYPOCHONDRIASIS, disease XII, b 632-3; (Psychology), XX, b 88

Hypoclinea, genus (Ant), II, b 86

Hypocrites, actor (Greece), XI, a 125

"Hypocrites," reluctant believers (Mohammedanism), XVI, a 576 note, b 577-8

Hypocrites, Dialogue against (Poggio), XIX, a 287

Hypoderma, tissue (Botany), IV, a 79; (Histology), XII, a b 21; (Leech), XIV, b 400-1

Hypodermiæ, order (Fungus), IX, a b 730

Hypogæic acid (Ground Nut), XI, b 196

Hypogastric nerves (Anatomy), I, a 776; plexus (Anatomy), a b 776

Hypogene action (Geology), X, b 214-34

Hypogeomys, genus (Mouse), XVII, a 12

Hypoglossal nerve (Anatomy), I, a 774

Hypolais, genus (Whitethroat), XXIV, b 584

Hypomere (Sponges), XXII, b 431

Hypomesus, genus (Salmonidæ), XXI, a 232, b 234

Hyponastic growth of plants (Physiology), XIX, a 66

Hyponitrous acid (Chemistry), V, *b* 443, b 445

Hypophlœodal thallus (Lichens), XIV, b 555

Hypophosphorous acid (Chemistry), V, b 447, a 448, a 450; (Wurtz), XXIV, b 739

Hypophysis of embryo (Botany), IV, *b* 141

Hypopyon, disease (Ophthalmology), XVII, *a* b 803

Hyposelaphesia, disease (Touch), XXIII, a 513

Hypo-skeletal muscles, development of (Anatomy), I, a 739

Hypostasianism, dogma (Monarchianism), XVI, a 745

Hypostatization of accidents (Scholasticism), XXI, b 439, a 442, a 446, a 448

Hypostilbite (Mineralogy), XVI, a 440

Hypostomatina, fishes (Ichthyology), XII, a 731

Hypostome (Hydrozoa), XII, a 582, *b* 585

Hypostyle hall, Karnak (Architecture), II, b 341, note

Hyposulphite of soda (Photography), XVIII, a 835, b 836, a 837, b 843; (Sulphur), XXII, b 669

Hyposulphurous acid (Chemistry), V, b 438-9, b 441

Hypothallus (Lichens), XIV, a 556

HYPOTHEC, pledge, XII, a 633; (Agent), I, a 251; (Agriculture), a 362, b 363; (Roman Law), XX, b 708, note

Hypothecium, organ (Lichens) (Ill.), XIV, a b 557

Hypotheses, uses of (Bacon), III, a b 187

Hypothetical propositions (Logic), XIV, a 799

Hypotrachelium (Architecture), II, b 409

Hypotricha, order (Protozoa), XIX, a b 888, b 889

Hypotyposes (Clemens Alexandrinus), V, b 716; (Lutherans), XV, *a* 86

Hypoxanthin, chemical product (Nutrition), XVII, b 702

Hypoxanthite (Mineralogy), XVI, b 443

Hypozoa (Skeleton), XXII, b 113. See PROTOZOA

Hypsicles of Alexandria, mathematician (Euclid), VIII, b 575

Hypsidont, form of teeth (Horse), XII, b 177

Hypsilantes or Ypsilanti, Alexander, prince (Greece), XI, *b* 111; (Turkey), XXIII, b 690

Hypsilophodon (Reptiles), XX, a 456 note

Hypsipetes (Birds), III, b 659 note

Hypsiprymninæ, group (Kangaroo) (Ill.), XIII, a 850

Hypsiprymnodon (Kangaroo), XIII, a 850

Hypsiprymnopsis, fossil (Mammalia), XV, b 377

Hypsipyle, queen (Lemnos), XIV, a b 437

Hypsometer (Thermometer), XXIII, a 313

Hypsometry (Surveying), XXII, b 749-50

Hypural bone (Ichthyology), XII, b 677

Hyrachyus, fossil (Mammalia), XV, a 434

Hyracodon, fossil (Rhinoceros), XX, b 537

Hyracodontidæ, family (Mammalia), XV, b 434

Hyracoidea, group (Hyrax), XII, a 633-4; (Mammalia), XV, a 375, b 427-8

Hyracotherium, fossil (Mammalia), XV, a 434

HYRAX, ungulate (Ill.), XII, a 633-4; (Mammalia), XV, a 359, a 360, a 427, *a* b 428; reproductive organs of (Mammalia), b 372

HYRCANIA, province, XII, a 634; (Astrabad), II, a 645; kings of (Persia), XVIII, b 613, b 614

——, Lydian city, XII, a 634

HYRCANUS I., John, high priest, XII, a 634; (Israel), XIII, a b 433, a 434

HYRCANUS II., John, high priest, XII, a b 634; (Herod), XI, a 674; (Israel), XIII, *a b* 434, *a* b 435
Hyrtha or Hirt, island (St. Kilda), XXI, a 186
Hyrtl, Joseph, anatomist (Amphibia), I, a 666 note, a b 671, a b 672; (Anatomy), a 716; (Vascular System), XXIV, a 113 note
Hyson tea (Tea), XXIII, *a* 106, b 107, a 109
HYSSOP, herb, XII, b 634–5; (Horticulture), b 302
Hysterectomy (Surgery), XXII, b 726-7
HYSTERIA, disease, XII, a 635–6; (Insanity), XIII, a 107, b 114; (Magnetism, Animal), XV, a 285; (Insanity), XIII, a 115
HYSTERO-EPILEPSY, disease, XII, a 636; (Stigmatization), XXII, a 578
Hystricina, group (Porcupine), XIX, b 532
HYSTRIX (Mammalia) (Ill.), XV, a *b* 421, b 425; (Porcupine), XIX, b 532, a 533
HYTHE, borough, XII, a b 636; (Colchester), VI, b 112, a 113; musketry school (Army), II, b 513

I, letter, XII, a 636–7; (Z), XXIV, *a* 709
Iacchus, myth (Mysteries), XVII, b 134, *b* 135
Iakoutsk. See YAKUTSK
Ialysus, town (Rhodes), XX, b 540, b 541
Ialysus, painting (Protogenes), XIX, b 849, *a* 850
Iambaji, river (Zambesi), XXIV, b 803
Iambe, myth (Eleusinia), VIII, *b* 119, a 120
Iambic metre (Alliteration), I, *a* 516; (Drama), VII, b 349; verse (Greece), XI, a b 121; (Simonides), XXII, b 90–1
IAMBLICHUS, philosopher, XII, a 637–8; (Magic), XV, a 204; (Neoplatonism), XVII, b 344, *b* 346, b 348; (Pythagoras), XX, *b* 146 notes, *a* 147, note, a b 148
—— of Syria, novelist (Romance), XX, a *b* 650, *a* 651
Iambulus, romancer (Romance), XX, b 649 note
Iamidæ, soothsayers (Olympia), XVII, b 790
Ianthella (Sponges), XXII, a 434, b 439
Iapetus, moon (Tides), XXIII, b 405
Iapygian or Massapian language (Latin), XIV, a 327
Iapygians, people (Italy), XIII, a b 453
Iasitheus, nom de plume (Fabretto), VIII, a 736
Iatro-chemical school (Medicine), XV, a b 820; (Alchemy), I, a 413; (Chemistry), V, a b 398, a 399
Iatro-mathematics (Borelli), IV, b 47
Iatro-physical school (Medicine), XV, a 820
Iàvohàika, mountain (Madagascar), XV, a 169
Iazyges, tribe (Sarmatians), XXI, a 326
IBADAN, town, XII, a 639; (Yoruba), XXIV, *a* b 792
Ibanac Dictionary, VII, b 166
IBARRA, city, XII, a 639; (Ecuador), VII, a 561, *b* 562, b 563
Ibas of Edessa, bishop (Justinian I.), XIII, a *b* 805; (Syriac Literature), XXII, *b* 869, b 871
Ibbenbüren, district (Coal), VI, a 54
Iberia, country (Georgia), X, b 387, *b* 389
——, country (Spain), XXII, a b 319
Iberian coins (Numismatics), XVII, a 651
IBERIANS, race, XII, a 639–40; (Caste), V, b 167; (Cave), b 234; (Europe), VIII, *a b* 612; (France), IX, b 465; (Gaul), X, b 100; (Humboldt), XII, a 360; (Ireland), XIII, b 249
Iberis, plants (Horticulture), XII, a 255, a 259
Iberus, river. See EBRO
Iberville, Pierre Le Moyne, Sieur d', governor (Louisiana), XV, *a* 24; (Mobile), XVI, b 563
IBEX, ungulate mammal (Ill.), XII, b 640–1; (Alps), I, a 557
Ibibio, tribe (Calabar), IV, *b* 576
Ibiripitanga, Brazil wood (Brazil), IV, b 203
IBIS, sacred bird, XII, b 641–2; (Birds), III, a b 617; (Egypt), VII, b 617; wood- (Birds), III, b 652
Ibis, magazine, XII, a 642 note
Ibn, son. See Ebn
Ibn-Abbás, commentator (Mohammedanism), XVI, a 628
Ibn 'Abdalhakam, historian (Tabarí), XXIII, b 7, a b 9
Ibn Abd-Rabbih, author (Mo-'allakát), XVI, b 559, a 560; (Tabarí), XXIII, b 8
Ibn Abí'Amir or Almanzor, ruler (Mansur), XV, b 507
Ibn Abí Osaibia, historian (Tabarí), XXIII, b 8
Ibn Abí Táhir, Taifúr, historian (Tabarí), XXIII, b 7
Ibn Abí Zar', historian (Tabarí), XXIII, a 9
Ibn'Adhárí, historian (Tabarí), XXIII, a 9
Ibn al-'Abbár, biographer (Tabarí), XXIII, b 8
Ibn al-'Amid, historian (Tabarí), XXIII, b 8. See ELMACIN
Ibn al A'rábí, philologist (Tabarí), XXIII, a 7
Ibn-al-Ash'ath, pretender (Mohammedanism), XVI, b 594, a 595
Ibn al-Athér, historian (Tabarí), XXIII, *b* 8
Ibn al-Forat, historian (Tabarí), XXIII, a 9
Ibn al-Javzi, historian (Tabarí), XXIII, b 8
Ibn al-Kalbi, genealogist (Tabarí), XXIII, b 6
Ibn al-Khátib, historian (Tabari), XXIII, a 9
Ibn al-Kútiva, historian (Tabarí), XXIII, b 8
Ibn al-Wardí, geographer (Tabarí), XXIII, a 9
Ibn'Arabsháh, historian (Tabarí), XXIII, a 9; (Timur), b 426
Ibn 'Asákir, historian (Tabarí), XXIII, b 8
Ibn Badja. See AVEMPACE
Ibn Bassám, historian (Tabarí), XXIII, b 8
IBN BATUTA, Mohammed Ibn Abdillah, traveller, XII, b 642–4; (China), V, a 547; (Chinchew), *a* 585; (Ethnography), VIII, a 550; (Geography), X, a b 160; (Ghazni), a 501, a 502; (Maundeville), XV, a 482
Ibn Ezra, Abraham ben Meïr, rabbi (Abenezra), I, b 39; (Hebrew Language and Literature), XI, a b 536; (Midrash), XVI, b 299–300
Ibn Fadlalláh, historian (Tabarí), XXIII, a 9
Ibn Gebirol, mystic (Kabbalah), XIII, a 823; (Scholasticism), XXI, a 444, b 447. See AVICEBRON
Ibn Habíb, genealogist (Tabarí), XXIII, a 7
Ibn Hajar, biographer (Tabari), XXIII, a 9
Ibn Hanbal, theologian (Mohammedanism), XVI, *a* 607
Ibn Haukal, traveller (Geography), X, a 159; (Ghúr), a 509; (Map), XV, a 525
Ibn Hayán, historian (Tabarí), XXIII, b 8
Ibn Isliák, historian (Mohammedanism), XVI, b 587, a 618; (Tabarí), XXIII, *b* 6, note
Ibn Ivás, historian (Tabarí), XXIII, a 9
Ibn Jubair (Mecca), XV, b 677, a 678 notes, a 679 note, *a b* 680, notes, a 681, b 682
Ibn Junis or Ibn Yûnus, astronomer (Astronomy), II, b 656; (Geography), X, a 159
Ibn Hisham, editor (Mohammedanism), XVI, b 587
Ibn Katnír, historian (Tabarí), XXIII, a 9
Ibn-Kemál, author. See Kemál Pasha-záda
Ibn Khakán, historian (Tabarí), XXIII, b 8
IBN KHALDOUN, historian, XII, a b 644; (Tabarí), XXIII, a 9
IBN KHALLIKAN, lexicographer, XII, b 644; (Tabarí), XXIII, b 8
Ibn Khidásh, historian (Tabarí), XXIII, a 7
Ibn Khordádhbeh, geographer (Mohammedanism), XVI, b 618
Ibn Khurdadra, traveller (Geography), X, a 159
Ibn Kotaiba, historian (Tabarí), XXIII, b 7; Pseudo-, historian (Tabarí), b 9
Ibn Kotlubogha, biographer (Tabarí), XXIII, a 9
Ibn Málik, grammarian (Arabia), II, a 232
Ibn Mashkawaih, historian (Tabarí), XXIII, a 8
Ibn Mas'úd, editor of Koran (Mohammedanism), XVI, b 627
Ibn Mokaffa', Abdallah, Arabic scholar (Bidpai), III, a 576; (Pahlaví), XVIII, *a* b 139; (Tabarí), XXIII, a 7
Ibn Nishátí, author (Hindustani Literature), XI, b 756
Ibn Obay, hypocrite (Mohammedanism), XVI, a 578, b 579
Ibn 'Okba, biographer (Tabarí), XXIII, b 6
Ibn Pascual, biographer (Tabarí), XXIII, b 8
Ibn-Roshd. See AVERROES
Ibn Sa'd, historian (Tabarí), XXIII, b 6 note
Ibn Sá'id of Cordova, historian (Tabarí), XXIII, b 8
Ibn Sa'íd al-Maghribí, historian (Tabarí), XXIII, b 8
Ibn Sayyid an-Nás, biographer (Tabarí), XXIII, a 9
Ibn Shihna, historian (Tabarí), XXIII, a 9
Ibn-Sjeddad or BOHADDIN, III, a 747
Ibn-Tofail or Abubacer, philosopher (Arabian Philosophy), II, *a* 236
Ibn Wādih al Ya'kūbī, historian (Syriac Literature), XXII, a 876; (Tabarí), XXIII, b 7
Ibn Zobair. See 'Abdalláh b. Zobair
Ibn Zohr. See AVENZOAR
Ibn Zúlák, historian (Tabarí), XXIII, b 8
IBO, Ibu or Eboe, district, XII, a 645
——, island and town (Mozambique), XVII, b 13
——, race, XII, a 645; (Negro), XVII, a 328
Ibòina Bay (Madagascar), XV, a 169
Ibráhím Bey. See IBRAHIM PASHA
——, caliph (Arabia), II, b 227; (Mohammedanism), XVI, a 599
——, conspirator (Mohammedanism), XVI, b 599
——, dey (Tunis), XXIII, a 661
——, emperor of Delhi (Baber), III, b 155–6
——, general (Mohammedanism), XVI, a 602
——, sultán (Petis de La Croix), XVIII, a 717; (Turkey), XXIII, b 686
—— Ibn Ahmed, ruler (Sicily), XXII, a b 29
—— b. al-Mahdi, pseudo-caliph (Mohammedanism), XVI, *b* 606
—— b. Málik, governor (Mohammedanism), XVI, a b 593
——, Nahr, river (Lebanon), XIV, b 393
—— Nujal, sultan (Seljuks), XXI, a *b* 666
IBRAHIM PASHA, viceroy, Egypt, XII, a b 645; (Ali Bey), I, b 504; (Arabia), II, a 210, b 221, a 222, b 228–9; (Damascus), VI, b 697; (Egypt), VII, a 659, a 660, a 661, b 663, a b 664, b 681; (France), IX, a 547; (Greece), XI, b 111; (Turkey), XXIII, b 690, a b 691, a 692
—— El-Dasooki, seyyid (Egypt), VII, b 629

IBRAILA, Braila, or Brahilow, town, XII, b 645–6
Ibsen, Henrik, poet (Norway), XVII, b 605, a 606; (Scandinavian Languages), XXI, *a* 390
IBYCUS, poet, XII, a 646; (Græcia Magna), XI, b 28
ICA, Yca or Ecca, city, XII, a 646
——, river (Colombia), VI, a 138
Icaria, insects (Wasps), XXIV, b 413
Icarians, communists (Communism), VI, a 193
Icarius of Attica, myth (Dionysus), VII, a 217
Icarus (Aëronautics), I, b 167
Icciodurum, town. See ISSOIRE
ICE, XII, a 646–9
  ammonia machines, b 648–9
  density of water, b 646
  ether machines, a 648
  freezing point, b 646–7
  refrigerating machines, b 647–9
  thermal effects, a 647
  trade, a b 649

—— (Fisheries), IX, a b 212; (Geology), X, b 248–50; (Maine), XV, a 303; (Mineralogy), XVI, b 387; (Polar Regions), XIX, a 340; action of floating (Geology), X, b 326–7; bottom (Baltic), III, a 255; fluvial (Geology), X, a 244; lacustrine erosion (Geology), b 332; modulus of (Elasticity), VII, b 698; physical properties of (Water), XXIV, b 421; plasticity of (Forbes, J. D.), IX, b 344; polar accumulations of (Geology), X, a 194, a 195–6; rocks worn by (Geology), a 325–6; sea-transportation of (Geology), a b 252, a b 254–5; structure (Glacier), a 560, b 561; temperature of melting (Heat), XI, b 511, a 512
ICEBERGS, XII, b 649; (Distribution), VII, b 244; (Geology), X, a b 252, a b 254–5; (Greenland), XI, a b 149, b 152; (Norway), XVII, b 592; (Polar Regions), XIX, a 340; Antarctic (Meteorology), XVI, b 151
Ice calorimetry (Laplace), XIV, a 303; (Heat), XI, a b 496; caves (Geology), X, b 239–40; crystals (Light), XIV, b 601, a 602; fields (Baltic), III, b 254–5
Icefirthdeep bay (Iceland), XII, a 651
Ice Fjord (Spitzbergen), XXII, b 422, a 423
—— foot, polar (Geology), X, a 252, a 254, a 255; hills (Iceland), XII, b 651
ICE-HOUSE (Ill.), XII, a 650–1
ICELAND (Plate IV), XII, a 651–65
  agriculture, a b 653
  climate, a 653
  commercial features, b 653
  fauna, a 653
ICELAND, *continued*
  geology and minerals, b 651–2
  government, b 653–4
  history, 654, a 655–7
  language, b 663–5
  literature, 654, a 657–63
    biography, a 661–2
    history, a b 659–61
    literary works, b 662–3
    poetry, a 657–9
  national characteristics, b 654–5
  physical features, a 651–3
  religion and education, a b 654

—— (Climate), VI, *a* 7; (Concubinage), b 217; (Eider), VII, b 684–5; (Geography), X, b 159; (Geysers), b 497, *a* b 498; (Ireland), XIII, a b 255, a 258; (Libraries), XIV, b 551; (Meteorology), XVI, a b 134, b 144, a 145, b 162; (Newspapers), XVII, a 441; (Norway), b 598, b 599, b 600, b 602; (Periodicals), XVIII, a 554; (Thule), XXIII, b 349
——, botany of (Hooker, W. J.), XII, a 156; printing in (Typography), XXIII, b 740; volcanoes of (Geology), X, b 219
Icelanders (America), I, b 619, note; (Canada), IV, b 678
Icelanders, Book of (Iceland), XII, b 660
Icelandic Dictionaries, VII, b 161; (Iceland), XII, b 664
—— language (Rask), XX, b 298; (Scandinavian Languages), XXI, *b* 383–5, a b 387
—— literature (Magnusson), XV, a b 286; sagas (Poetry), XIX, b 280, a 281
ICELAND MOSS, lichen, XII, a 665; (Lichens), XIV, a b 563
—— spar (Calc-spar), IV, *a* 580; (Iceland), XII, b 652; (Light), XIV, a 594, a b 610, b 614–5, a 616, a 617, b 618; (Lime), b 653; (Magnetism), XV, a 267; (Mineralogy), XVI, b 379, a 390, b 413
Ice Machines, XII, b 647–9; manufacture (Sulphur), XXII, b 669
Iceni, tribe (Huntingdon), XII, a 414; (Norfolk), XVII, b 550; (Suffolk), XXII, *a* 655
Ice periods (Sweden) (Map), XXII, b 776, a 777; plant (Botany), IV, a 81
Icery purification process (Sugar), XXII, a 659
Ice-spar (Mineralogy), XVI, a 437
Ichaboe guano, XI, a b 208
I-CHANG or Y-Chang, town, XII, a 665; (China), V, *b* 548
ICHNEUMON, mammal (Ill.), XII, a b 665; (Mammalia), XV, a 442, a 443; (Spain), XXII, b 311
ICHNEUMON-FLY, insect, XII, b 665–6; (Butterflies and Moths), IV, b 529; (Hymenoptera) (Ill.), XII, a *b* 606, *a* b 607, a *b* 608, *b* 609, a b 611
Ichnology (Hitchcock), XII, b 27
Ichthyodorulites, fossils (Ichthyology), XII, b 705, a 706
ICHTHYOLOGY (Ill.), XII, a 666–733
  brackish water, a b 715
  circulation organs, a b 696–7
  classification, a b 723–33
    cyclostomata, b 733
    leptocardii, b 733
    palæichthyes, a b 723–6
      chondropterygii, a b 723–4
      ganoidei, b 724–6
    teleostei, b 726–33
      acanthopterygii, b 726–9; pharyngognathi, a 730
      anacanthani, a b 730
      lophobranchii, a 733
      physostomi, b 730–3
      plectognathi, a b 733
  deep-sea fishes, b 715, a 721–3
  domestication, a 703
  external structure, a 672–7
    fins, b 673–5
    head, b 672–3
    skin and scales, b 675–7
    trunk and tail, b 673
  fresh-water, a 707–15
    equatorial zone, b 709–13
    nearctic region, b 714
    palæarctic region, b 713–4
    southern zone, a 715
  geographical distribution, a 707–23
  geological distribution, a 705–7
  growth and variation, a 700–3
  hibernation, a 704
  history and literature, a 666–72
  marine, a b 707, b 715–23
    Antarctic Ocean, a b 720
    Arctic Ocean, b 716
    equatorial zone, a 718–9
    northern temperate zone, b 716–18
    southern temperate, zone, b 719–20
  myology, a b 687
  neurology, b 687–9
  nutrition and digestion, b 691–3
  osteology, a b 677–86
    nomenclature table, 681
    skeleton modifications, b 680–6
    skull, b 677–80
    vertebræ, a b 677
  pelagic fishes, b 715, b 720–1
  poison organs, a b 704
  reproduction, a 698–700
  respiration, b 693–6
  sense-organs, a b 689–91
  shore-fishes, b 715, a 716–20
  tenacity of life, b 703
  urinary organs, b 697–8
—— (Agassiz), I, b 245–6; (America), a 601; (Bloch), III, a 724; (Ecuador), VII, b 561–2
Ichthyophagi, people (Nearchus), XVII, a 315
Ichthyophthalmite (Mineralogy) (Ill.), XVI, a 439
Ichthyophthirius, genus (Protozoa) (Ill.), XIX, a b 886, a b 888
Ichthyopsida, group (Mammalia), XV, a 350; (Reptiles), XX, b 450
Ichthyopterygia, fossil reptiles (Ichthyosaurus), XII, a 734; (Reptiles), XX, b 454–5, *a* 458, a 479
Ichthyornis, fossil (Ornithology), XVIII, b 40, a 41, a b 47
ICHTHYOSAURUS, reptile, XII, a 734–5; (Birds), III, *b* 628; (Coprolites), VI, *a* 313; (Plesiosaurians), XIX, b 233; (Reptiles), XX, a 455, *a* 468, b 478, a 479; (Zoology, American), XXIV, a 925; Jurassic (Geology), X, a b 315
Ichthyosis, Skin Disease, XXII, b 129
Icilian law (Rome), XX, a 756
Icilius, Karl G. G. von Quintus, physicist (Electricity), VIII, a–b 54, a 98
Icknield street, Roman road (Dorset), VII, a 322; (Stafford), XXII, a 460
Ickworth, manor (Bury St. Edmunds), IV, b 511
Icod de los Vinos, town (Canary Islands), IV, b 705
Icolmkill or IONA, XIII, b 209
ICONIUM, city, XII, a b 735
Iconoclasm (Damascenus, J.), VI, b 695; (Greece), XI, b 102, *a* 104; (Holbein), XII, b 57; (Holland), b 77, a 96; (Image Worship), a 751–2; (Leo III., Emperor), XIV, b 453; (Nicephorus Patriarcha), XVII, *a* 496; (Paulicians), XVIII, b 444; at Perth (Scotland), XXI, b 523
Iconoclasts, party (Irene), XIII, b 280; (Michael), XVI, b 234–5
Iconographie Chrêtienne, Didron's (Schools of Painting), XXI, a 468
Iconography, print classification (Engraving), VIII, b 396
Icosahedron (Geometry), X, *a* 346; construction of (Pythagoras), XX, a 148
Icositetrahedron (Mineralogy) (Ill.), XVI, a 364, a 365, b 368
Icotea de Limon, lake (Hayti), XI, a 486
Icteridæ, family of birds (Grackle), XI, b 24
ICTERUS, bird, XII, b 735–6
——, disease (Jaundice), XIII, b 608
Icticyin (Mammalia), XV, a 445
Ictinia, birds (Kite), XIV, a 106
Ictinus, architect (Archæology), II, a 312, *b* 314; (Athens), III, *b* 6; (Eleusis), VIII, a 121

Ictonyx, classification (Mammalia), XV, a 447
Iculisma, town. See Angoulême
Ida, Mount (Asia Minor), II, b 617; (Troad), XXIII, a 615
——, Mount (Crete), VI, *b* 503, a 504
Ida the Flame-bearer, king (England), VIII, b 244; (Lothian), XV, b 11; (Northumberland), XVII, *b* 582
—— of Louvain, nun (Stigmatization), XXII, a 577
Idacius of Emerita, bishop (Priscillianists), XIX, *a* 766
IDAHO, territory (Plate V), XII, a 736–7; statistics (United States), XXIII, b 853, b 861, b 864, a 867, *b* 868, b 870, *a* 873, b 876; topography (United States), b 847
Idalium or Dali, town (Cyprus), VI, b 661, note
Idanthyrsus, king (Scythia), XXI, b 603, *b* 604
Iddah, town (Niger), XVII, b 510
Idea, The (Æsthetics), I, a 192, b 193, a 195, a b 196, a 197
Idea (Drayton), VII, a b 390
—— and reality, unity of (Cartesianism), V, b 130–1; (Chalybaus), a 329; (Schleiermacher), XXI, a b 429, a 430, a b 431
Ideagram (Confucius), VI, a 234. See Ideographic signs
Ideal in Art (Cesari), V, b 309; (Fine Arts), IX, a b 183
—— Numbers, XVII, a 630, a b 638; (Zenocrates), XXIV, b 754
Idealism (Æsthetics), I, a 196, b 198; (Arabian Philosophy), II, b 235; (Aristotle), *a* 458; (Averroes), III, b 130; (Bardilli), a 320; (Berkeley), b 510; (Bruno), IV, b 359; (Collier), VI, a 130; (Condillac), b 222; (Eckhart), VII, a b 557; (Evolution), VIII, b 659, b 660; (Hegel), XI, *a* 552, a 553; (Herbart), a b 643; (Lotze), XV, a b 16; (Metaphysic), XVI, b 89, a 92, a 96, b 97, a 107; (Mysticism), XVII, b 142; (Neoplatonism), a 342; (Pessimism), XVIII, a 701; (Plato), XIX, b 211–2, a 214, b 217, a 219, a 221, b 222; (Psychology), XX, a 88 note; (Schelling), XXI, a b 409, a 410; (Schopenhauer), b 477–8; (Socrates), XXII, b 250–1; of Locke (Psychology), XX, b 43, *a* 46
Ideality (Logic), XIV, b 805, a 806; organ of (Phrenology), XVIII, b 859
Ideas (Hartley), XI, b 445; (Hume), XII, a b 366, a b 367, a 368; abstract (Avicenna), III, a b 135; characteristics of (Psychology), XX, b 62–3: immanent, Zeno on Plato's, XXIV, a 818; innate (Hutcheson), XII, a b 426; inseparable (Association of Ideas), II, b 641–2; of relation (Berkeley), III, a 511; representative (Arnauld), II, a 543; train of (Psychology), XX, a 67–70, b 78. See ASSOCIATION OF IDEAS
Ideation (Psychology), XX, a 62–5; and feeling (Psychology), a b 74
Ideational element of thought (Psychology), XX, b 80–1
Ideen zu einer Philosophie der Natur (Schelling), XXI, a 407, b 409
—— *zur Philosophie der Geschichte* (Herder), XI, a b 651, a 652
Idées Napoléoniennes (Napoleon III.), XVII, b 233
Identity, perception (Hume), XII, a b 368; (Metaphysic), XVI, b 89, a b 91, a 92, a 100, a 101, a 102, b 104; category (Psychology), XX, b 84, a b 85; of indiscernibles (Leibnitz), XIV, b 421; law of (Axiom), III, a b 140; personal (Hutcheson), XII, b 426; (Medical Jurisprudence), XV, b 788–9; of terms (Condillac), VI, a 222–3
Ideographic signs (Alphabet), I, b 529, b 531, *a* 532, b 533; (China), V, a 568; (Hieroglyphics), XI, b 709, b 714, a 715, a 719, a b 721; (Inscriptions), XIII, b 120–2; (Pahlavi), XVIII, b 139; reading (Hieroglyphics), XI, a 719
Ideologists, school of (Tracy), XXIII, b 528, a 529
Idero, island. See HYDRA
Ides (Calendar), IV, a b 590
Idiazabal, town (Spain), XXII, b 307
Idioblast, cell (Histology), XII, b 16, a 19
Idiocy, disorder (Insanity), XIII, b 103–5
Idiomelon (Hymns), XII, a 615
Idiopathic causes of Insanity, XIII, a 106, b 110–4; inflammation (Pathology), XVIII, b 410; Tetanus, XXIII, *a* b 217
Idiot Boy, poem (Wordsworth), XXIV, *a* 705, note
Idiots, brain of (Anatomy), I, a 773; physiological training of (Seguin), XXI, a 916
Idjed-Kashem, peak (Vologda), XXIV, a 303
Idjèn, volcano (Geology), X, a 216
IDLE, town, XII, a 737; river (Nottingham), XVII, *b* 612
Idler, periodical (Johnson, S.), XIII, a 735, a b 740
Idocrase (Mineralogy) (Ill.), XVI, b 384, a 392, b 427
Idola of Bacon, III, b 183, note; (Logic), XIV, a 800
IDOLATRY, XII, a b 737; (Adrian I.), I, b 150; (Alcuin), b 417; (Arabia), II, a 230; (Decalogue), VII, b 16; (Hosea), XII, b 310; (Image Worship), a 749–53; (Isaiah), XIII, b 389, a 390, a b 391, note, a 393; (Israel), a 410, a b 412, a 416, b 417, a 418, b 423, note, a b 425; (Leo III., Emperor), XIV, b 453; (Phœnicia), XVIII, b 816; (Templars), XXIII, a 180; origin of (Animism), II, a 51. See Iconoclasm, RELIGIONS, TOTEM, Worship
Idolos Islands (Senegambia), XXI, b 693
Idols (Image Worship), XII, a 749–53; gigantic (Bamian), III, *a* 265; (Rapanui), XX, b 285
Idomenco Re di Creta, opera (Mozart), XVII, a 16
Idorgan (Morphology), XVI, a 869
Idotea, genus (Crustacea) (Ill.), VI, b 563, b 566, b 567
Idoteidæ, family (Crustacea), VI, a 583
IDRIA, town, XII, b 737; (Carniola), V, *a* 107; mines (Mercury), XVI, b 36. a 37
Idrialine wax (Ozocerite), XVIII, b 116
Idrialite (Mineralogy), XVI, b 447–a 448
Idrisi, geographer. See EDRISI
Idsted, battle, 1849 (Denmark), VII, a 78
IDUMEA or Edom, district, XII, b 737–8; (Hyrcanus), a 634; (Palestine), XVIII, b 180. See Edom, Edomites
Idun, goddess (Æsir), I, a 190
Iduna, periodical (Geijer), X, b 115, a 116
Idutwya reserve (Cape Colony), V, b 37, b 42; (Kaffraria), XIII, a b 826
Idyllia (Ausonius), III, a 88
Idyllic poetry (Germany), X, b 477, b 483; (Pastoral), XVIII, b 350
Idylls of the King (Geoffrey of Monmouth), X, b 155
Idylls of Theocritus (Alexandrian School), I, a 441; (Theocritus), XXIII, a b 272
Ierapetra, town (Crete), VI, a 506
Ieropotamo river (Crete), VI, a 504
Ifa or Ife, state (Yomba), XXIV, *a* b 792 (Dictionary), VII, b 167
IFFLAND, August Wilhelm, dramatist, XII, a b 738; (Drama), VII, b 382; (Germany), X, a 484
Igaouaouen, tribe (Kabyles), XIII, a 824
Igasuric acid (Nux Vomica), XVII, b 706
Igbo, district. See IBO
Iggereth Hasshemad (Maimonides), XV, a b 299
Igharghar wady (Sahara), XXI, b 158
Igidi or Gidi district (Sahara), XXI, *a* 158
IGLAU or Jihlava, town, XII, b 738
IGLESIAS, town, XII, a 739; (Sardinia), XXI, b 322, a 323
——, General, president (Peru), XVIII, b 692, note
IGLO, town, XII, a 739
Igmar. See HINCMAR
Ignatius, Saint (Antiphony), II, b 118; (Apostolic Fathers), b 171, a b 172; (Episcopacy), VIII, b 431, a b 432; (Gospels), X, b 724. b 726, a 730, a 731; (Hymns), XII, b 613; (Sunday), XXII, a 688
——, *Epistles of* (Apostolic Fathers), II, b 171, a b 172; (Canon), V, b 8; (Monachism), XVI, a 725; (Polycarp), XIX, b 428–9, b 429; (Popedom), b 503; (Presbyter), b 694
——, patriarch (Nicholas I.), XVII, b 496; (Photius), XVIII, b 832, a b 833, b 834
—— a Jesu, missionary (Mandæans), XV, a 475
Igneous rocks (Geology) (Ill.), X, a 206, b 207–10, a 272–8; contemporaneous rock (Geology), b 277–8; origin of Granite, XI, b 44–5; rock masonry (Building), IV, a 419; metamorphism of (Geology), X, b 280; structure of (Geology), b 205
Ignis fatuus or Will-o-the-Wisp (Phosphorescence), XVIII, a 826
IGNORANTINES, brotherhood, XII, a 739
Igor I., grand-duke (Russia), XXI, b 96–7
——, *Story of* (Russia), XXI, a b 112
Igorrotes or Igolotes, tribe (Philippine Islands), XVIII, a 767
IGUALADA, town, XII, a b 739
IGUANA, lizard (Ill.), XII, b 739–40; (Reptiles), XX, a 461, b 466, a 469, *b* 470
Iguanidæ, family (Basilisk), III, a 364; (Lizard) (Ill.), XIV, a 740, b 741–2
IGUANODON, reptiles, XII, a b 740; (Reptiles) (Ill.), XX, b 455, b 456 note
Iguanodontidæ, family (Reptiles), XX, b 456 note
Iguvine tables. See Eugubine Tables
Iguvium, town (Gubbio), XI, b 215; (Umbria), XXIII, *b* 771, *a* 772
Ihering or Jhering, Rudolph, jurist (Roman Law), XX, b 698, b 703; (Savigny), XXI, *a* 342
Ihibha, author. See Denha
Ihre, Johan, philologist (Grimm), XI, a 179; (Scandinavian Languages), XXI, a 389, b 390; (Sweden), XXII, b 794
Iishm, island (Arabia), II, b 205
Ijaya, town (Ibadan), XII, a 639
Ijesha, state (Yoruba), XXIV, a 792
Ijon, land (Lebanon), XIV, b 394
Ikan prut, fish (Java), XIII, b 616
Ikhsheedees, dynasty (Egypt), VII, b 650, a 651
Iki, islands (Japan), XIII, a 578, a 579
Ikoradu, lagoon (Yoruba), XXIV, a 792
Ikram Ali, writer (Hindustani Literature), XI, *a* b 758
Iksal, town (Zebulon), XXIV, a 811
Ikuvio, town. See GUBBIO
Ila, town. See KULDJA
ILCHESTER or Ivelchester, town, XII, b 740; (Somerset), XXII, *b* 272; swannery (Swan), a 769 note

ILE-DE-FRANCE, district, XII, b 740
Ile de Vache (Hayti), XI, b 485
Ilek, river (Uralsk), XXIV, b 10
Ileocæcal valve (Digestive Organs), VII, b 198
Ilerda, town. See LÉRIDA
Iles d'Or, Les (Hyères), XII, a 600
Iles du Salut, convict station (Guiana), XI, a 226
Ilesha, state and town (Yoruba), XXIV, a 792
Ileum, intestine (Digestive Organs), VII, a b 196; (Nutrition), XVII, *b* 687; changes in (Typhus), XXIII, a 721
Ileus, disease (Colic), VI, b 126
Ilex, trees (Holly), XII, b 104–5; (Oak), XVII, b 713; paraguayensis (Maté) (Ill.), XV, b 633-4
ILFRACOMBE, town, XII, b 740-1; rocks (Geology), X, a 302
Ilha Bananal, island (Brazil), IV, b 199
ILHAVO, town, XII, a 741
—— Governador, island (Rio de Janeiro), XX, a 578
Ili, province (China), V, *b* 554, a 565; (Mongols), XVI, a b 772
ILI, river, XII, a b 741; (Semiryetchensk), XXI, b 672
Iliac arteries (Anatomy), I, b 792, b 793, b 794; veins (Anatomy), a 796
—— table, bas relief (Fabretti), VIII, a 736
Iliad, epic poem (Achilles), I, *b* 89, a 90; (Æneas), a 165; (Ajax), b 383–4; (Broome), IV, a 335; (Cesarotti), V, a 310; (Chapman), *a* 344; (Conington), VI, a 254; (Cowper), b 474; (Derby), VII, b 97; (Drama), b 349; (English Literature), VIII, a 373; (Games), X, b 57; (Greece), XI, b 122, *a b* 123; (Hector), a 544; (Homer), XII, b 111, a b 113, *a* 114, *a* b 115, a *b* 116, *a* 118, *a b* 119, *a b* 120–2, *a b* 123, *a* b 124, *a* b 125; (Hungary), a 392; (Metastasio), XVI, b 108; (Mythology), XVII, a 153; (Poetry), XIX, a b 272, *b* 277, b 278, a b 279; (Pope), XIX, b 497, *a* 500; (Russia), XXI, a 115; (Troad), XXIII, a b 619, a 620; continuation of (Quintus Smyrnæus), XX, a 195
——, manuscripts of (Miniature), XVI, a 457; (Palæography), XVIII, a b 150, b 166
Iliad of Dares (Romance), XX, b 653
Iliat, tribes. See Iliyáts
Ilici or Illici, town. See ELCHE
Ilicic acid (Holly), XII, b 105
Ilicin, extract (Holly), XII, b 105
Ilijsk, town (Ili), XII, *a b* 741
Iliniza, mountain (Ecuador), VII, a b 559, a *b* 561
Ilio-hypogastric nerve (Anatomy), I, b 762; inguinal nerve (Anatomy), b 762
Ilion or Ilios, city (Troad), XXIII, a 616, a 620. See Ilium Novum, Troy
Ilios, Schliemann (Troad), XXIII, b 618
Ilipula, town. See LOJA
Ilissus, river (Attica), III, a 53; (Greece), XI, a 74; (Imbros), XII, b 753
Ilium, bone (Anatomy) (Ill.), I, b 726, b 729; (Ape), II, b 142; (Mammalia), XV, a 363
Ilium Novum, city (Troad), XXIII, a b 616, b 617–9; (Numismatics), XVII, a 663
Iliyás, sháh (Gaur), X, b 101
Iliyáts, people (Khorasan), XIV, a 69, note; (Persia), XVIII, a 639; (Turks), XXIII, a 703
ILKESTON, town, XII, b 741
Ilkhany tables (Geography), X, a 159
Ill, river (Alsace), I, a 560; (Rhine), XX, a 534
Illahun pyramid, XX, b 130
Illampu, mountain (Peru), XVIII, b 685
Ille, river (Ille-et-Vilaine), XII, b 741
ILLE-ET-VILAINE, department, XII, b 741–2
Illegitimacy (Clan), V, b 698 note; (Domicile), VII, b 304, b 305; (England), VIII, a 201; (Germany), X, a 410; (Greece), XI, b 76; (Infanticide), XIII, b 5, a 6; (Italy), a 459; (Oldenburg), XVII, a 779; (Switzerland), XXII, b 817; (Spain), a 313; (Uruguay), XXIV, a 20; (Women), b 674; statistics of (Bastard), III, b 369
Illiger, Johann K. W., naturalist (Ornithology), XVIII, b 17, note, a 26, b 28 note, b 48, note; (Sunbittern), XXII, b 686
Illimani, mountain (Andes), II, a 17; (Bolivia), IV, b 11, a 13; (Peru), XVIII, b 685
ILLINOIS, state (Plate VI), XII, a 742–5; (Maize), XV, b 312; (Reformatories), XX, a b 900, a b 901; (Universities), XXIII, a 913, a b 953–4; (United States), a 795, a 801, b 809, b 811, a 820, a 821, a 822; (Workingmen), XXIV, a b 918, a 919, a 920; statistics (United States), XXIII, b 853, *a* b 855, b 858, b 860, *a* b 863, *b* 864, a b 866, *a* 870, *b* 877, *a* b 878, a 879
Illinois Central R.R. (Rantoul), XX, b 895; (United States), XXIII, a 824
—— Coal field, VI, a 57; (Kentucky), XIV, b 44
—— river (Illinois), XII, b 742, b 743
Illiteracy (Italy), XIII, b 470; (Longford), XIV, b 874; Arab (Mohammedanism), XVI, a 612; of Europe (Germany), X, a 423; statistics of (England), VIII, a b 226
Illoricata, animalcules (Rotifera), XXI, a 12
Illuminants (Lighthouse), XIV, b 632–4
Illuminated manuscripts (Costello), VI, a b 399; (Giotto), X, b 544; (Illumination), XII, b 745; (Mosque), XVI, b 891, a 892; (Palæography), XVIII, b 170. See ILLUMINATION
ILLUMINATI, sects, XII, a b 745; (Rationalism), XX, b 301, a 302
Illuminating apparatus (Microscope), XVI, b 281–4
Illuminating gas (Flame), IX, *b* 247; (Gas-Lighting), X, *b* 80–1, a 89, b 90; (Natural Gas), XVIII, a 895
Illuminating oil (Petroleum), XVIII, b 726, a b 732, a 733, a 890
Illumination, industrial (Clocks), VI, a b 31; (Light), XIV, b 586–7; (Lighthouse) (Ill.), b 622–36; (Magnesium), XV, a 219; (Micrometer) (Ill.), XVI, a 258, a 259, b 263 note; (Telescopic Work), XXIII, a 935; (Transit Circle), XXIII, a 549
ILLUMINATION, art, XII, b 745–7; (Blake), III, a 699–700; (Miniature), XVI, b 456–9. See Illuminated Manuscripts
Illuminés, sect (Illuminati), XII, a 745
Illusions. See APPARITIONS, Hallucination, MAGIC, Spectres
Illustrated Editions of Shakespeare, XXI, a b 806
—— French Newspapers, XVII, b 438 note
—— magazines (Periodicals), XVIII, b 548, a b 554; American (Periodicals), b 555
—— papers (Newspapers), XVII, a b 430, a 447; (American Journalism), a 889; (Typography), XXIII, b 754, a b 755
Illustration Diagrams, VII, b 128–9
ILLYRIA or Illyricum, country, XII, b 747–9; (Alaric), I, a b 392; (Numismatics), XVII, a 658; mines in (Mercury), XVI, b 36
Illyrian tribes (Liburnians), XIV, a 554
Illyricus, Matthias Flacius, theologian (Hermeneutics), XI, b 668. See FLACIUS
Ilmarine, myth (Hephæstus), XI, *a* 605
Ilmen, lake (Novgorod), XVII, b 621, a b 622; (Pskoff), XX, a *b* 40; (Russia), XXI, b 80
Ilmenau, exclave (Saxe-Weimar), XXI, *b* 364, *a* 365; river (Lüneburg), XV, *a* 67
Ilmenite (Iron), XIII, b 292, b 293, b 361; (Mineralogy) (Ill.), XVI, b 401, a 444; (Polarity) (Ill.), XIX, a 325
Ilocana Dictionary, VII, b 166
Ilopango, lake (Cojutepec), VI, b 107; (San Salvador), XXI, *a* b 281
ILORI or Ilorin, town, XII, a 749; (Soudan), XXII, a 292; (Yoruba), XXIV, b 791, *a* 792; state (Yoruba), a b 792
Ilovaiski, historian (Russia), XXI, a 96, b 116
Ilovla river (Saratoff), XXI, b 319
Ilsharh, king of Saba (Yemen), XXIV, a b 777
Iltchi, city. See KHOTAN
Iluro, town. See OLORON
Ilyanthidæ, family (Corals) (Ill.), VI, a b 327, *a* 329
Ilyás, fratricide (Mohammedanism), XVI, b 601
'Imád-addin, historian (Tabarí), XXIII, b 8
'Imad-ed-Deen, soldier (Egypt), VII, *a* 655
Image books. See Block books
Images, colossal. See Idols
——, consecutive (Eye), VIII, a 720; diffusion of (Wave Theory), XXIV, b 453–4, b 457; formation of simple (Wave Theory), b 459; formed by lenses (Light) (Ill.), XIV, b 598–9; method of (Hydromechanics), XII, a 469, a b 474; reflected (Light) (Ill.), XIV, a b 391
IMAGE WORSHIP, XII, a 749–53
    ancient nations, a b 749
    Eastern church, b 750–2
    Greek church, b 752
    Jews, b 749–50
    kinds of images, a b 752
    literature, b 752–3
    primitive Christians, a 750–7
——, (Adrian I.), I, b 150; (Alcuin), b 417; (England, Church of), VIII, b 336; (Leo III., Emperor), XIV, b 453. See Iconoclasm, Idolatry
Imaginaries, congruence of (Numbers), XVII, b 638–9; Equations of, VIII, b 444–6
Imaginary Conversations (Landor), XIV, b 279, b 280
Imaginary elements (Projection), XIX, *a* 820–1
Imagination, faculty (Collier), VI, b 129; (Fine Arts), IX, a b 172, b 182, a b 183; (Hamilton, Sir W.), XI, b 372; (Hume), XII, a b 366, a 368; (Kant), XIII, b 862; (Magic), XV, a 201; (Poetry), XIX, a b 271, a b 275, a 276, b 281, a 282; (Psychology), XX, a 62–5; (Turner), XXIII, b 707, note; memory distinguished from (Psychology), XX, b 67–8; Spinoza on errors of (Cartesianism), V, a b 134; uses of (Wordsworth), XXIV, a b 707–9
Imagination and Fancy (Hunt), XII, b 399
Imagines (Philostratus), XVIII, b 810, a 811, note
—— (Varro), XXIV, a 101
Imago, metamorphoses (Butterflies and Moths), IV, a 529; (Crustacea), VI, a 577, note
IMÁM or Imaum, title, XII, a 753; (Arabia), II, a b 217, a b 227; (Caliph), IV, a 626; (Mohammedanism), XVI, b 612, a 614, b 615; (Mosque), a 891; (Sunnites), XXII, b 696; pretended (Assassin), II, b 632

Imamba, snake (Natal), XVII, a 247
Imám-jum 'a, official (Shi'ites), XXII, *a* b 699
Imandra, lake (Lapland), XIV, a 305
Imarets, hospitals (Constantinople), VI, a 274
Imataca mountains (Guiana), XI, b 221
Imaus, mountains(Ptolemy), XX, b 99
Imbabura, volcano (Ecuador), VII, a 559; (Geology), X, a 223
Imba numa, lagoon (Japan), XIII, a 582
Imbecility (Insanity), XIII, a 104
Imbra, god (Kâfiristân), XIII, a 832
IMBROS or Imoro, island XII, a b 753
Imérina, province (Madagascar), XV, b 169, *a* 170, *a* 172, a b 174, b 176
IMERITIA, district, XII, b 753; (Georgia), X, b 387, *a* 388, *a b* 389, a 390; (Transcaucasia), XXIII, *b* 545
Imeritians, people (Caucasus), V, a 224
Imhoff, Baroness (Hastings), XI, b 458, a 461
Imhotep, god (Egypt), VII, a 623, b 634
Imides (Chemistry), V, a 502
Imitation (Drama), VII, b 338; (Fine Arts), IX, b 176, b 178-84; organ of (Phrenology), XVIII, b 859; of sounds (Philology), XVIII, b 781, a 782, a b 783
Imitation of Christ (Corneille), VI, b 370, a 373; (Gerson), X, *a* 492; (Kempis), XIV, *b* 33, a 34-5; (Latin Language), a 342; (Mysticism), XVII, a 141
Imlay, Gilbert, adventurer (Godwin, M. W.), X, b 638-9
Imma, wife (Eginhard), VII, b 605, note
IMMACULATE CONCEPTION, dogma, XII, b 753-4; (Duns Scotus), VII, a 471; (Gerson), X, a 491; (Mary), XV, a b 597; (Pius IX.), XIX, b 167, a 168; (Trent, Council of), XXIII, b 580; (Vatican Council), XXIV, a 121
Immaculate Conception, painting (Murillo), XVII, b 62, a 63
Immanes, order of birds (Ornithology), XVIII, a 48
IMMERMANN, Karl Leberecht, dramatist, XII, b 754-5; (Germany), X, a 486
Immersion or sacramental submersion in water (Baptism), III, a 303; (Proselyte), XIX, b 845
—— objectives (Microscope), XVI, b 274-a 276, a 279
—— paraboloid (Microscope), XVI, b 283
Immersions, long (Swimming), XXII, b 809-10
Immigration (Argentine Republic), II, *b* 434, a *b* 435; (Brazil), IV, a b 211; (Canada), *b* 678-9; (England), VIII, b 201; (Germany), X, b 410; (Guadeloupe), XI, a 204; (Melbourne), XV, a 847; (Mexico), XVI, a 902; (Wisconsin), XXIV, b 652; (United States), XXIII, a b 920, a 921; assimilation of (United States), a 814; colonial (North Carolina), XVII, b 575; (United States), XXIII, b 779; effects of (United States), a b 871, a 874-5; influence of early (United States), b 802, a 807; relation to slavery (United States), a 818
Immisch's avitreous thermometer (Ill.), XXIII, *b* 313
Immoral Contracts, VI, b 287
—— publications (Copyright), VI, b 319; (Government), XI, b 17
Immortality (Adam), I, b 124; (Arnobius), II, b 546; (Butler), IV, b 520; (Collins), VI, a 133; (Enoch), VIII, a 400; (Epicurus), a 422; (Eschatology), b 475; (Funeral Rites), IX, b 724-6; (Stoics), XXII, a 594; Brahman view of (Vedanta), XXIV, b 129; earthly, legends of (Jew, Wandering), XIII, b 684-5; (Socrates on (Plato), XIX, a b 211, b 221
IMMORTELLE, plant, XII, a b 755
Immrams (Celtic Literature), V, b 269, a *b* 282
Immunities, Ecclesiastical, congregation (Roman Catholic Church), XX, b 645
——, episcopal (Lombards), XIV, *a* 825
IMOLA, town, XII, b 755
Imoshagh, people (Religions), XX, b 374
Impact (Mechanics), XV, b 727-9, a 781; and reaction of water (Hydromechanics), XII, b 539-49; of smooth spheres (Mechanics), XV, b 727-9; infinitesimal (Mechanics), a 729
Impalement (Heraldry), XI, b 611, b 630-1
Impasting (Painting), XVIII, a 143; (Tempera), XXIII, b 173
Impatiens noli-me-tangere, plant (Botany), IV, b 116
IMPEACHMENT, XII, b 755-6; (Clarendon), V, a *b* 704; (Pardon), XVIII, b 276; (Parliament), a 319; bishops' vote on (Peerage), a b 476; Congressional (Pardon), a 277; (United States), XXIII, b 797, a 799; Johnson's (United States), a 830
Impenetrability (Atom), III, a b 34; (Psychology), XX, b 60-1
Impennes, order of birds (Ornithology), XVIII, b 42, a 49
Imperative Statute, XXII, b 486
Imperator, title (Cæsar), IV, a 567; (Emperor), VIII, b 164-5; (Rome), XX, b 785, note, b 786, a 788, note, *a* 791
Imperfect tense (Grammar), XI, b 37-8
Imperforata, sub-class (Protozoa), XIX, b 868-70
Imperial Bank of Germany (Banking), III, a 294
—— British Census, V, b 292-4
—— chamber, court (Germany), X, b 445, b 446, b 449
—— Chancery (Russia), XXI, b 77
—— Cities. See FREE IMPERIAL CITIES
—— court (Rome), XX, a 791, a 796
—— Crown, VI, a b 547
—— indiction (Chronology), V, a 622
Imperialism (France), IX, a 542; mediæval (Luther), XV, b 82
Imperial law (Roman Law), XX, b 721-9
—— vicar (Germany), X, b 454
Imperium, magistrate's (Roman Law), XX, a 728-9
Impetigo, eruption (Skin Diseases), XXII, a 131
Impey, Sir Elijah, judge (Hastings), XI, b 457, *a* b 459, a 460, a 461
Implied Contracts, VI, b 286; Trust, XXIII, b 634
Impoldering (Holland), XII, a 61
Impophoo, species (Antelope), II, b 90
Importants, clique (Mazarin), XV, a 659
Importation of books (Copyright), VI, b 317, a 318, b 320, b 321, b 323; (Protection), XIX, a 931
Importations resisted (United States), XXIII, a b 786, a b 787-8; (Commerce), VI, b 182, a 183; (Corn Laws), b 362-3, a b 364, a b 365, a 366; (Corn Trade), a b 367; (Customs Duties), a 644; (England), VIII, a b 212; (Finance), IX, a b 156; (France), a b 463; (Germany), X, b 415-6; (Hamburg), XI, a 364; (India), XII, b 795-8; (Ireland), XIII, a b 232, a 236, a b 237, a 238, a b 239, a 240; (Italy), a b 463-4, a 466; (London), XIV, a b 840; (National Debt), XVII, b 254; (New York), a b 895, a b 899, a 900; (Russia), XXI, a b 95; (Sweden), XXII, *a* 781; (United States), XXIII, a b 880-1; (Value), XXIV, a *b* 58; duties on (Taxation), XXIII, b 92, a 93, b 95; free and dutiable (Taxation, U. S.), a 924; net (Taxation, U. S.), a 924
Imposing (Typography), XXIII, b 745
Impregnation of Bees, III, b 425-6; ovum (Reproduction) (Ill.), XX, b 429-30
Impressions (Hume), XII, a b 366, *a* b 367, a 368; and images distinguished (Psychology), XX, a b 63-5; invalidity of (Scepticism), XXI, a 397, b 399, note, a 400, a 401
Impressment, English recruiting system (Habeas Corpus), XI, a 321; (Labor), XIV, b 167, note, b 169; (Navy), XVII, b 287, a b 304-5; (Seamen Laws), XXI, a 635; international outrages (United States), XXIII, a 807, a 809
Improvement of Commons, VI, a 187; compensation for (Landlord and Tenant), XIV, a b 275
Improver Improved (Agriculture), I, b 264, a 265, a b 293
Improvisation (Accolti), I, b 85; (Aquila), II, a 201; (Hook, T.), XII, a b 152; (Metastasio), XVI, b 108; Italian (Poetry), XIX, a b 284; orchestral (Music), XVII, b 97 note; poetic (Statius), XXII, a 485
Impulse (Mechanics), XV, b 727, a 743-4
Impulses, mental (Stoics), XXII, a 595-6
Imputed righteousness, dogmatic injustice (Calvin), IV, a 637
Imrailis, tribe (Turks), XXIII, a 703
Imthurneum, building (Schaffhausen), XXI, b 403
Imvro, island. See IMBROS
Ina, Inas or Ine, king of Britain (Glastonbury), X, b 601; (Foundling Hospitals), IX, b 426
Inaccessible island (Tristan da Cunha), XXIII, b 613, a 614
Inachus Kempferi (Crab), VI, b 477; (Crustacea), b 578
Inâms, land grants (Madras), XV, a 187
Inanition (Insanity), XIII, a 108
Inan-lu, people (Turks), XXIII, b 703
Inar, tunic (Ireland), XIII, a 263
Inara or Enare lake (Finland), IX, b 188, *a* 189; (Lapland), XIV, a 305
In-arching (Horticulture), XII, b 217, b 242
Inaros, prince of Marea (Egypt), VII, b 644-5; (Herodotus), XI, b 676; (Persia), XVIII, b 585
Inas, mountain (Malay Peninsula), XV, b 323
Inaswashiro, lake (Japan), XIII, a 582
Inauguration of kings (Ireland), XIII, b 264
Inber Sceine (Ireland), XIII, a 249
Inca, town (Balearic Islands), III, b 239, a 240
—— Drama, VII, b 348; literature (Peru), XVIII, a b 689; ruins (Huaraz), XII, b 341. See Ynca
Incamminati, academy (Caracci), V, a 73
Incandescence (Light), XIV, a b 583
Incandescent lamps (Lighting, Electric), XIV, a 639, note
Incantations (Celtic Literature), V, a 263, b 271; (Magic), XV, b 200, b 201, *a* b 202, *a* b 204, b 206; (Surgery), XXII, a 709
Incarnation, dogma (Celsus), V, b 257; (Clemens Alexandrinus), V, a 717; (Coleridge, S. T.), VI, a 125; (Gospels), X, a 720-1, a 723; (Irenæus), XIII, *a* 280; (Paul), XVIII, b 435 note
—— Era (Chronology), V, a b 618

- Incarnations (Babi), III, a 157; (Mohammedanism), XVI, b 615; Hindu, dogma (Apotheosis), II, b 174. See Avatar
- Incas or Yncas (America), I, b 611, a b 612, a 613, a 615; (Chili), V, a 537; empire of the (America), I, a 611–4; (Bolivia), IV, b 16; (Peru), XVIII, a 687, b 689, a b 690, b 692, a b 693; (Religions), XX, a 377; last of (Peru), XVIII, a b 691. See Yncas
- Inca's baths (Caxamarca), V, b 242
- Inca Tern, bird, XXIII, b 206
- *Incendio del Borgo* (Raphael), XX, a 291
- INCENSE, XII, b 756–60
  - Bible meaning of, a 758
  - Christian ritual, b 759–60
  - Egyptian practices, a 757–8
  - Greeks and Romans, a 759
  - Hindu employment of, b 758–9
  - monumental evidences, b 757, b 758
  - origin of with the Jews, a b 760
  - substances used, b 756–7
- —— (Altar), I, a b 563; (Frankincense), IX, a 625–6; (Juniper), XIII, b 784; (Mecca), XV, b 676, a 677; (Midian), XVI, a 296
- —— cups (Pottery and Porcelain) (Ill.), XIX, b 619, a 620
- —— tree (Incense), XII, a 759
- INCEST, XII, b 760; (Divorce), VII, a b 262; (Ethnography), VIII, *a* b 544
- Inchard loch (Sutherland), XXII, b 763
- INCHBALD, Elizabeth, dramatist, XII, b 760–1
- Inchigeelagh, lake (Cork), VI, b 357
- Inchmarnoch, island (Bute), IV, *a* b 516, a 517
- Incidence of Taxation, XXIII, a 93–5
- "Incident," the, 1641 (Charles I. of England), V, a 352
- Incised Mirror, XVI, *a* 525
- —— plastering (Building), IV, b 454
- Incisor teeth (Dentistry), VII, a b 84; (Digestive Organs) (Ill.), b 202, a b 206; (Horse) (Ill.), XII, a 177, b 182; (Mammalia) (Ill.), XV, a b 353, a b 355, *b* 356
- Inclination or dip of needle (Magnetism) (Ill.), XV, b 221, a 222
- Inclined current (Electricity) (Ill.), VIII, b 66; plane (Galileo), X, *a* 33; particle on (Mechanics), XV, b 710; sliding on (Mechanics), b 711–2
- Inclosure, robbery of the public (Commons), VI, a b 187–8; (Cricket), b 514; Fitzherbert on (Agriculture), I, a 264, a b 269, b 275
- *In Cœna Domini*, papal bull (Pius V.), XIX, b 164; (Popedom), a 519, a 522
- Income of countries (National Debt), XVII, a b 254; Ricardo on (Political Economy), XIX, a b 389
- —— tax (England), VIII, a b 220, a b 233, a 234, b 327; (Finance), IX, b 163–4, *b* 165; (Peel), XVIII, b 466, a 467; (Prussia), XX, b 23–4; (Taxation), XXIII, a 92, a b 93, a 95; (Taxation, U. S.), b 924
- Incomes, British, statistics of (England), VIII, a *b* 233
- Incommensurables (Atom), III, b 33, b 43; (Geometry), X, a b 341; (Pythagoras), XX, a b 148, note
- *Inconstancy Reproved* (Ayton), III, b 143
- "Inconstant," warship (Navy), XVII, b 293, a b 295, a 297
- Incontinence of urine, disease (Vesical Diseases), XXIV, b 206–7
- Incopresentability (Psychology), XX, b 51, b 59, a 67
- Incorporated Law Society, London (Libraries), XIV, a 516
- Incorporating languages (Grammar), XI, b 35
- —— mill (Gunpowder) (Ill.), XI, a b 290–1
- Incorporation Act (Company), VI, a 198
- ——, freedom of (United States), XXIII, a 834
- ——, municipal (United States), XXIII, b 882. See Corporation
- Incorporeal hereditaments (Real Estate), XX, *b* 319
- Increment (Infinitesimal Calculus), XIII, a 15
- Incubation (Birds), III, a b 672; (Instinct), XIII, a b 164, a 165; (Megapode), XV, a 836, a 837; (Python), XX, b 151. See Gestation
- ——, medical (Plague), XIX, b 173; (Scarlet Fever), XXI, b 393; (Typhus), XXIII, a 719; (Yellow Fever), XXIV, b 770
- Incubus, myth (Demonology), VII, b 55; (Witchcraft), XXIV, b 653, note
- *Incunabula* (Bibliography), III, a b 565–6; characteristics of (Typography), XXIII, a 728, a 730
- Incus, bone (Anatomy), I, *b* 783, a 784; (Ear), VII, b 511
- Indals Elf or river (Sweden), XXII, b 774
- Indelible ink (Ink), XIII, a 88; Pencils, XVIII, a 501
- Indelningsverk, institution (Sweden), XXII, a b 781
- Indemnity (Insurance), XIII, b 170; acts of (Pardon), XVIII, a 277; bill of, 1660 (Milton), XVI, a 347
- Indenture (Deed), VII, a 22; (Diplomatics), a 222; master's (Mint), XVI, a 505
- Independence Hall (Philadelphia), XVIII, b 751, a 755
- INDEPENDENTS, XII, a 761–7
  - academies and colleges, b 766

INDEPENDENTS, *continued*
  - American colony, b 764–5
  - authorities, a 767
  - Browne's ideal, b 761–2
  - early leaders, b 762–3
  - in England, b 761–2, a b 764, a b 765–6
  - later leaders, a b 766
  - New England influences, a b 765
  - origin and ideal of, a b 761–2
  - Robinson's writings, a b 763
  - settlement in Holland, a b 763
  - under the Commonwealth, b 765–6
- —— (Brownists), IV, a 353; (Congregationalism), VI, a 238; (Hymns), XII, b 627–8; (Milton), XVI, b 342–3; coalescence of (Presbyterianism), XIX, b 710–11; (Owen), XVIII, a b 89; Irish (Presbyterianism), XIX, b 711; Scotch dislike of (Presbyterianism), XIX, *a b* 707, *a* 708
- *Indes, Histoire des* (Raynal), XX, a 315
- Indeterminate equations (Smith, N. J. S.), XXII, b 182; (Algebra), I, a 488–9
- —— sentence in U. S. (Reformatories), XX, a 903
- INDEX, book, XII, a 767–8; (Dictionary), VII, a 155
- —— of principal articles. These are entered in the Tables of Contents of each separate article. Stars indicate indexes exclusively in the REPRINT
- —— (Acoustics), I, 111; (Africa), 242*; (Agriculture), 368*; (America), 628*; (Amphibia), 677; (Anatomy), 799–800; (Architecture), II, b 400, 401–2; (Archæology), 321–2; (Asia), 613–4; (Asia Minor), 623; (Astronomy), 720–1; (Botany), IV, 148; (Bridges), a b 308; (Building), b 459; (Chemistry), V, 503; (China), 584; (Egypt), VII, 683; (Electricity), VIII, b 98–9; (England), 237–9; (English Literature), 387; (Ethics), a b 537; (Ethnography), a b 550; (Europe), a b 632; (Evolution), a b 676; (France), IX, 600–5; (Geology), X, 333–4; (Germany), 488–9; (Greece), XI, a 136–7; (Horticulture), XII, a b 308; (Hungary), 396; (India), b 851–2; (Ireland), XIII, a b 278; (Mammalia), XV, 453; (Observatory), XVII, a b 737; (Ornithology), XVIII, a b 53; (Pathology), 418; (Physiology), XIX, 71–2; (Rome), XX, 860; (Russia), XXI, 118–9; (Scotland), 561; (Spain), XXII, 379; (Steam-Engine), a 553–4; (Switzerland), 838–9; (Tides), XXIII, a b 407; (United States), a 885–6; (Universities), a 914–5
- —— (Logarithms), XIV, b 779
- ——, instrument (Graduation), XI, a 27
- ——, Congregation of the (Roman Catholic Church), XX, b 645
- INDEX LIBRORUM PROHIBITORUM or *Index Expurgatorius*, XII, a 768–9; (Bibliography), III, a b 570, note; (Owen), XVIII, b 88; (Paul IV.), a 442; (Press Laws), XIX, b 733; (Trent, Council of), XXIII, b 585
- —— numbers (Statistics), XXII, a b 483
- *Indexes to English Periodicals*, XVIII, a 549
- INDIA, empire (Plate VII), XII, a 769–852
  - administration, a 807–13
  - agriculture, b 770, a 771, b 772, a 785–93
  - art industries, a 802
  - bibliography, b 851
  - birds, a 781
  - Burmah, British, a 773
  - cereals, b 785–6
  - chorography, b 769–73
  - cinchona, a b 789
  - commerce, a 795–9
  - communications, b 793–5
  - coffee and tea, b 788–9, 797
  - education, a 813–5
  - excise, b 811–2
  - famines, b 805–7, a 851
  - fibre industries, a b 787, b 796, a *b* 797, b 800–1, a b 802
  - finance, b 812–3
  - fishes, b 781–2
  - flora, a 778–9
  - forests, a 791–2
  - gems, a b 805
  - general description, a 769
  - Himálayan geology, a 773–4
  - HISTORY, b 815–51
    - aboriginal dynasties, a 829–31; races, b 815–8
    - Afghan Mahometan dynasties, b 831–2
    - Amherst period, a b 845
    - Auckland period, a 846–7
    - Bentinck period, b 845–6
    - Brahmans, b 821–3, b 824–5
    - British empire, a 839–51
    - Buddhist period, b 823–5
    - Canning period, b 848–50
    - caste, b 820–3
    - Clive's period, a 839–41
    - Cornwallis period b 842–3, a 844
    - Dalhousie period, b 847–8
    - Dravidians, b 817–8
    - Dutch settlements, b 836–7
    - East India Company, a 837–9
    - Ellenborough - Hardinge period, a b 847
    - English expeditions, a 837
    - European settlements, b 835–9

INDIA, *continued*
 HISTORY
  French and Scandinavian settlements, a 839
  governors-general, a b 851
  Græco-Roman period, b 825-7
  Hastings period, b 841-2
  Kolarians, a b 817
  law-codes, a 822-3
  Mahometan period a 831-5
  Minto and Hastings period, a 841-2
  Mughal dynasties, b 832, b 833-5
  Portuguese settlements, b 835-6
  primitive Hinduism, b 818-23
  religion, early, a 820 *sq.*
  Sepoy mutiny, a 849-50
  Scythic period, a 828-9
  Tibeto-Burmese, b 816-7
  Turkish dynasties, a b 832
  Vedas, a 819-22
  Wellesley period, a 843-4
  viceroyalty, b 850-1
 INDEX, b 851-2
 Indo-Gangetic geology, a b 774
 insects, a 782
 internal trade, a b 799
 irrigation, a 792-3
 land settlement, b 808-11
 live-stock, b 790-1
 mammals, a 779-81
 manufactures, b 799-803
 metal industries, a 801-2
 meteorology, b 772, a 776-8
 minerals, b 772, a 803-5
 nomadic agriculture, a 792
 opium and tobacco, b 787-8
 orography, a 770, b 771-2
 outline boundary, a b 769
 peninsular geology, b 774-6
 population, political analysis, a 782-3
 population, religious and ethnic, b 783-5
 reptiles, a b 781
 river systems, b 770, a b 772
 salt administration, a b 811
 scenery, a 771
 sericulture, b 789-90 b 800-1
 vital statistics, b 783, a 785

——

—— (Alchemy), I, b 407; (Army), II, a 516-9; (Arsenal), a b 554; (Artillery), b 577, b 578, a 579, a 580; (Asia), a 601, a 612; (Bible Societies), III, a 562; (Buddhism), IV, a b 391; (Burke), a 489; (Calico-Printing), b 606; (Caste), V, b 163-7; (Cinchona), b 682; (Clive), VI, b 9-12; (Coal), b 55-6, b 73; (Colony), a b 144; (Commerce), a b 180; (Compass), a b 202; (Corn Laws), b 366; (Cotton), a b 429; (Court Martial), b 460; (Crane), b 484; (Cremation), b 501; (Diamond), VII, b 141-2; (Dupleix), a 474

—— (Ellenborough), VIII, b 136-7; (Elphinstone), a 142-3; (Episcopacy), b 436-7; (Fairs), a 743; (Falconer H.), IX, b 5-6; (Famines), a 23, b 24, a b 25; (Ferishta), b 78, a 79; (Festivals), b 103; (Finance), a 150; (Fire), a 202 note, b 203; (Forests), a 350, a 355-6; (Fowl), a 434; (Fox, C. J.), b 438; (France), *a* b 465; (Fuel), b 710; (Funeral Rites), a 724; (Gipsies), X, b 547, a 551; (Gold), b 661; (Gough), XI, a 4; (Gumbo), *a* 245; (Gunny), a 282; (Gunpowder), *b* 282-3; (Honey), XII, a 141, a 142; (Hunting), a 412; (Hwen T'sang), a 434-5; (Infanticide), XIII, a b 5; (Irrigation), b 379-80; (Iron), *b* 296, b 352-3; (Ivory), b 531 note, a 534; (Labor), XIV, a 172; (Land-Tenures), b 262, a 268; (Lawrences), b 371-3; (Libraries), a b 533, a 552

—— (Lushai Hills), XV, a 71; (Madras), a 185; (Malcolm), b 329, a 330; (Merv), XVI, a 47; (Meteorology), a b 123, b 124, a 128, b 143, b 145, a 147; (Military Law), a b 311; (Mining), b 491; (Mint), a 505; (Mohammedanism), b 598; (Mosque), b 893; (Mules), XVII, a 21; (Mysticism), a 137; (Mythology), *a* 152, b 158-60, b 163-4; (Napier), a b 183; (National Debt), b 253, *a b* 254; (Newspapers), b 443-4; (Numismatics), a b 679; (Opium), *a* 810, a 812-3, b 816; (Patents), XVIII, a 362; (Persia), a b 659, b 660, b 661; (Pepper), a 527; (Plague), XIX, b 174, b 178; (Police), b 353, a 354; (Post-Office), b 594-5, *b* 601; (Precedence), a b 687; (Press Laws), b 731; (Prison Discipline), a 777; (Railway), XX, b 263-4; (Religions), 372, b 373, b 382-3; (Silk), XXII, a 62, *a* b 71; (Sunnites), a 698; (Trigonometry), XXIII, a b 596; (Universities), a b 912; (Veterinary Science), XXIV, b 215, b 216; (Weights and Measures), a b 518; (Wellesley), *a* 520; (Women), b 671; (Wool), a 697

——, Arab histories of (Tabarí), XXIII, b 7, b 8; Chinese history of (Persia), XVIII, b 609-11; early printing in (Typography), XXIII, b 729; English governors, list of (Bengal), III, a 492; English settlements in (India), XII, b 837-9; European adventurers in (Acclimatization), I, a 84; (Geography), X, a b 166, a 168, a 171; forestry (Arboriculture), II, b 275-6, b 283; (Teak), XXIII, *a* b 112; invasion of, by Alexander the Great (Persia), XVIII, a 594; by Cyrus (Persia), b 578; by Darius (Persia), b 581; by Demetrius (Persia), b 601; by Mohammedans, XII, a 831-5; (Mahmud), XV, b 288-9; by Mithradates (Persia), XVIII, a 602, note; by Nádir Sháh (Persia), a b 653; by Timur, XXIII, a 426; penal code (Macaulay), XV, b 128; (Treason), XXIII, a 563; poetical history of (Persia), XVIII, a 670; rainfall in (Asia), II, b 603, a 604; (Meteorology), XVI, b 155, a b 156; surveys of (Rennell), XX, a b 410, a b 411, a 412, a 413; (Surveying), XXII, a b 731-2, b 745-6; tea culture in (Tea), XXIII, b 105, b 106-7, b 109; topographical charting for (Surveying), XXII, b 747

India bill, Burke's, IV, b 486-7; (England), VIII, b 321; Fox's (Pitt), XIX, b 148-9; Pitt's (England), VIII, a 322

——, historical treatises (Lassen), XIV, a 323

——, *History of* (Mill, James), XVI, a b 319, a 320

INDIANA, state (Plate VIII), XII, a 852-4; (Universities), XXIII, a 913, a b 954; history of (United States), a 795, b 809, b 811, a 820, a 822; statistics (United States), b 853, *a* b 855, b 859, b 860, b 864, a 865, a 866, b 872, b 877, a 878, a 879

Indiana, novel (Dudevant), VII, b 439-40

INDIANAPOLIS, city, XII, a b 854

INDIAN ARCHIPELAGO, XII, b 854-60
  bibliography, a b 856, *a* b 857, a 860
  civil government, a 858-9
  Dutch territory, b 858-9
  extent, b 854-5
  fauna, b 856-7
  geology, b 855
  governors-general, b 859-60
  history, a b 859
  languages, b 857
  meteorology, b 855-6
  physical features, a b 855
  political divisions, b 857
  population, a 855, a b 857, a 858
  trade, a 859
  vegetation, a b 856

——

—— Architecture, East, II, a 345-8; (Benares), III, b 479; (Gaur), X, b 103-4; (Kashmir), XIV, b 13

—— art, East, XII, a 802; (Carpets), V, a 114; (Fan), IX, b 25; (Filigree), b 143; (Glass), X, a 580; (Gold Lace), *a* b 671; (Illumination), XII, a 747; (Inlaying), XIII, a b 88; (Ivory), a 534; (Mosaics), XVI, b 881; (Wood-Carving), XXIV, b 683-4. See Hindu Art

—— Chronology, V, b 623-4

—— Contract Act, VI, b 872, b 286

—— Corn. See MAIZE

—— Cress or Tropæolum, plant (Botany), IV, b 116, b 118, a 119, b 137

—— Dictionaries, VII, b 166

—— or Hindu Drama, VII, a 342, a 343-6

Indian Emperor, tragedy (Dryden), VII, b 422, a 423

—— Empire, Order of the (Knighthood), XIV, b 125

—— fauna, East, XII, a 779-82; (Asia), II, b 604, *a b* 605, *a* b 606, *b* 607; (Birds), III, b 659-62; (Buffalo), IV, a 396; (Distribution), VII, a b 236, a 240; (Ornithology), XVIII, b 15-6, a 20; (Reptiles), XX, a 454, b 480-1, b 482-3, a b 486

—— fig (Horticulture), XII, a 275

—— hemp, drug (Insanity), XIII, a 109

—— hill loom (Textiles), XXIII, b 228, a 229

—— Ink, XIII, b 87; (Pigments), XIX, a 97

—— languages (Dictionary), VII, b 165-6; (Gilgit), X, b 533; (Hindustani), XI, a 750; (India), XII, b 816, a 831; (Inscriptions), XIII, a 124-7; (Kashmir), XIV, a 14; (Philology), XVIII, a 793, b 797-8; (Punjab), XX, a 115; genealogy of (Philology), XVIII, b 799. See Aryan, Dravidian, Hindi, Hindu, Pali, Sanskrit, etc.

—— literature (Hindustani), XI, a 753-9; (Libraries), XIV, a b 533, a 552; (Mohammedanism), XVI, a 618; (Nepāl), XVII, a 353; (Periodicals), XVIII, b 549; (Sanskrit), XXI, a 282-309

—— low-water mark, East (Tides), XXIII, b 393-4

—— meridian arc (Earth), VII, b 524, b 525

—— Missions, East, XII, a 814, a b 824; XVI, b 536-7, b 540; (Benares), III, b 479; (Henderson), XI, a 582; (Jesuits), XIII, a 662; (Lahore), XIV, b 213; (Lhasa), b 502; (Ludhiana), XV, a b 60; (Macleod), a 165; (Malabar), a 315; (Mangalore), b 486; (Martyn), a 593, b 594; (Nepāl), XVII, b 353; (Propaganda), XIX, b 833; (Punjab), XX, b 118; (Schwarz), XXI, a b 482; (Tanjore), XXIII, b 51; (Tranquebar), a b 541; (Xavier), XXIV, a b 753;

—— mortality, East (Snakes), XXII, b 201, a 207

—— Mulberry, XVII, b 19

—— Notation (Numerals), XVII, b 641-2

INDIAN OCEAN (Plan), XII, a 860-2; (Meteorology), XVI, b 137, a 156; (Navigation), XVII, b 284; (Pacific Ocean), XVIII, b 133; commerce (Incense), XII, b 757; cyclones (Meteorology), XVI, a 188; winds of (Asia), II, *b* 603

"Indian pieces" (Slavery), XXII, b 906
—— Pink, XIX, b 115
Indian Queen (Dryden), VII, b 422
Indian river (Florida), IX, b 296
INDIANS, American, XII, a 862-74
  antiquities, a 874
  bibliography, a 870
  Canada, b 870, a 871
  CLASSIFICATION, b 865-9
    Algonquins, b 867
    Appalachian, a 868
    Athabascan family, a b 867
    Californian, b 866
    Central American, a 868
    Columbian, a b 866
    Dakota or Sioux, b 867-8
    hyperborean races, b 865-6
    Mexican, a 868-9
    New Mexico Pueblos, b 866
    Shoshone and Pawnee, b 866
    South American races, b 868-70
    Wyandott-Iroquois, b 867
    Yuma stock, a 867
  craniological test, a 862, a 864
  diversity of speech, a b 863, a 865
  modern history, a 870-4
  origin and ethnical relations, a 862-5
  population, b 870
  present distribution, b 871-4
  United States, 870-4

——, American, I, a b 602, a 607, a 616, b 617; (Argentine Republic), II, *b* 429, *a* 430, a b 434, a 435; (Arizona), b 472; (Bolivia), IV, b 14-5, a b 16; (Brazil), a 211; (Campeachy), b 671; (Canada), a 678; (Colombia), VI, a b 140; (Columbia, British), *a b* 152; (Cuca), a b 605; (Deluge), VII, a 50, a 51; (Demonology), b 55, a 56; (Dictionary), b 167-8; (Ecuador), b 558, *b* 562-3; (Flag), IX, b 241; (Funeral Rites), *b* 724; (Guatemala), XI, b 213; (Guiana), *a* 222; (Hayti), b 486; (Honduras), XII, b 133, b 134-5; (Idaho), a 737; (International Law), XIII, *b* 202
—— (Labrador), XIV, b 176; (Lacrosse), a 196; (Maine), XV, b 301-2; (Mexico), XVI, b 215-6, a b 227, a 229, a b 897, a b 898, a 912; (Missions), b 539-40; (Mormons), a b 852; (Mythology), XVII, a b 151, a b 152, a b 163, a b 164; (Natick), a 249; (Nebraska), b 318; (New Brunswick), a 384; (New York), b 465-6; (Nicaragua), a 492; (Nova Scotia), a 618; (Oregon), b 848; (Pipe), XIX, b 119-20; (Pueblo), XX, a 887-90; (Quebec), b 173; (Religions), b 376-7; (Schoolcraft), XXI, b 450, note; (Schools), a 911; (Taboo), XXIII, b 22, a 23; (Totemism), a 497, b 501, b 502, b 504, a b 505; (Uruguay), XXIV, b 19, b 20-1
——, biographies of (Stone), XXII, a 929
——, college for (Harvard), XI, a 447. See Dartmouth College
——, confederacy of (Tecumseh), XXIII, a b 929
——, education of, XXI, a 911; (Quakers in U. S.), XX, b 892. See Schools
——, literature of (Eliot), VIII, a b 128
——, missions among, XVI, b 539-40; (America), I, b 616, b 617; (Jesuits), XIII, a 665; (Smet), XXII, a 910; (Zeisberger), XXIV, b 922-3
——, removal of (United States), XXIII, b 811
——, treaties with (Newark), XVII, a 380; (Penn), XVIII, a 506, b 507; (Quakers), XX, b 158
——, treatises on (Catlin), V, b 208
——, South American (Acclimatization), I, a 85
——, Spanish oppression of (America), I, a 622
——, subjugation of (Slavery), XXII, *a* 907, note; (Taylor), XXIII, a 928; (United States), a 817
—— steel (Iron), XIII, b 352-3
—— -summer (Canada), IV, a 682
—— swords (Iron), XIII, b 342
INDIAN TERRITORY, sketch (Plate IX), XII, a 874-5; statistics (United States), XXIII, a b 853, b 857, b 860, b 862, b 864, b 870, a 878
"—— tobacco" (Lobelia), XIV, b 749
—— Treasure Trove, XXIII, b 563-4
—— twisted grass (Hygrometry), XII, a 604
India Office, London (Libraries), XIV, *a* 517
—— pale ale (Brewing), IV, b 240, a 246
INDIA-RUBBER (Ill.), XII, b 875-83
  BOTANICAL, sources and preparation, b 876-80
    African, b 879-80
    Asiatic, a b 880
    Central American, b 878-9
    South American, b 876-8
  chemistry, b 880-1
  history of discovery, a b 876
  literature, b 883
  manufacture (Ill.), b 881-3
  properties, b 875-6

—— (Calico-Printing), IV, b 613; (Colombia), VI, a 139; (Cork), a 357; (Elasticity), VII, b 694, b 697, b 699, a b 701, b 705-6; (Mexico), XVI, b 221; (Patents), XVIII, b 882; backing (Bookbinding), IV, a 40; plant (Botany), a 77, a 78; (Fig), IX, b 135; stamps (Typography), XXIII, a 749
Indias, Historia de las (Acosta), I, a 93
Indica, ancient books (India), XII, a 826 note
Indican, dye (Chemistry), V, a 497; (Indigo), XII, b 884
Indicator, genus (Honey Guide), XII, *b* 143
Indicator, essays (Hunt), XII, a 399
Indicator (Mechanics), XV, b 774; (Telephone) (Ill.), XXIII, b 145; actual (Steam-Engine) (Ill.), XXII, a b 506; compound (Steam-Engine), b 514-7; errors in (Steam-Engine), b 510-1; examples of (Steam-Engine), b 511-2; ideal (Steam-Engine), b 505; invention of (Watt), XXIV, b 435; Watt's (Steam-Engine), XXII, a 494, a 510
—— card (Horse-Power), XII, a b 211
—— diagrams, VII, b 131-2; (Steam-Engine), XXII, a 921; (Thermodynamics) (Ill.), XXIII, a 304, b 305
—— gas-engines (Steam-Engine), XXII, a 550, a 551, a b 552
Indicator and Monitor (Mas'udy), XV, a b 630
Indicators (Libraries), XIV, a b 537
Indicavit, Writ, XXIV, a 732
"Indicium," definition of (Torture), XXIII, a 496
Indicolite (Mineralogy), XVI, b 426
Indicopleustes, traveller. See COSMAS
Indiction, tax (Finance), IX, a 152
——, cycle of (Calendar), IV, a 595; (Chronology), V, a 622
INDICTMENT, XII, b 883-4; (Pleading), XIX, b 231
Indies (Columbus), VI, b 155, note. See INDIA, INDIAN ARCHIPELAGO, WEST INDIES
——, *History of the* (Oviedo y Valdez), XVIII, a 88
Indifference in the Matter of Religion (Lamennais), XIV, a 240
Indifference theory (Scholasticism), XXI, a b 441, a 442
Indiges, deity (Jupiter), XIII, b 789
Indigestion (Dietetics), VII, b 179-80; (Dyspepsia), b 506-7
Indighirka, river (Siberia), XXII, a 9, a 10
INDIGO, plants, XII, a 884-5; (Aniline), II, b 43; (Behar), III, b 438-9; (Bengal), b 490; (Burmah), IV, b 492; (Dyeing), VII, a 494, a b 498, a 499; (Egypt), a 616; (India), XII, b 787, a 789, a 796, b 797, b 798; (Ink), XIII, b 86; (Lahore), XIV, a 212; (Monghyr), XVI, b 766; (Nadiyá), XVII, *a* 168; (San Salvador), XXI, b 281
—— color (Pigments), XIX, b 95
—— bird (Nonpareil), XVII, b 547
—— -blue (Chemistry), V, a 493, a 497; dips (Calico-Printing), IV, b 611
—— carmine (Nutrition), XVII, b 703, a 704
Indigotin, extract (Calico-Printing), IV, a b 611 (Indigo), XII, b 884-5
Indische Alterthumskunde (Lassen), XIV, a 323
INDIUM, metal, XII, b 885-6; (Chemistry), V, b 407-8, b 461, a 462; chloride spectrum (Spectroscopy), XXII, a 391
Individualism (Kant), XIII, b 857-8 a 860; (Political Economy), XIX, a 383; (Religions), XX, a b 378
Individuality (Metaphysic), XVI, a b 98, b 100, a 106; (Leibnitz), XIV, a b 421; (Psychology), XX, *b* 85; organ of (Phrenology), XVIII, b 859
——, organic (Morphology), XVI, b 867, a 870
Individual totem (Totemism), XXIII, b 496, a b 501
Individuation of organs (Hydrozoa), XII, b 587-8
Individuationis principium, doctrine (Scholasticism), XXI, b 440, a 442, a 445, a *b* 446, a b 447, a 448
Indo-Aryan people (Sanskrit), XXI, a 282, b 283
Indo-Chinese, race (Asia), II, b 609; (Cochin China), VI, a b 87-8; (Dictionaries), VII, a 166; (India), XII, a 784; (Polo), XIX, a 418
Indo-European defined (Philology), XVIII, b 797; family of languages (Grammar), XI, b 35-8; (Persia), XVIII, b 665; (Semitic Languages), XXI, b 674, note, a b 675
—— race, origin of (Slavs), XXII, a b 154, b 155
Indo-Germanic defined (Philology), XVIII, b 797, note; language-group (Greece), XI, a b 113, a b 115; (Sanskrit), XXI, a b 282, *a* 283, a 285; characteristics of (Philology), XVIII, a b 800-3; phonetic laws (Greece), XI, a b 115
—— Religions, XX, 372, a b 373
Indo-Homerite or Himyarite Alphabets, I, b 534
Indol, organic substance (Nutrition), XVII, a 697
Indo-Malayan flora (Distribution), VII, a 252; region (Meteorology), XVI, a 187
Indonesians (Malays), XV, *b* 326, a 327
Indoor relief (Poor Laws), XIX, a b 490, b 493
Indo-Pacific region, fauna (Distribution), VII, a 241, a 242, a b 243, a 244
Indophane (Coal Tar Colors), XVIII, a 905
INDORE, state, XII, a b 886
Indra, deity (Brahmanism), IV, a 183, a *b* 186, b 187, *a* 188; (India), XII, a 820; (Mythology), XVII, a 154, b 158-60, b 162 note; (Sanskrit), XXI, *a* 289; (Zoroaster), XXIV, b 860, *a* 861

Indragiri, river and kingdom (Sumatra), XXII, b 671, a 673, *a* 674

Indramayu, town (Java), XIII, b 616

Indraprástha, city (Delhi), VII, a 43; (N. W. Provinces), XVII, a 587

Indrapura, mountain (Indian Archipelago), XII, b 855; and village (Sumatra), XXII, *b* 671, a b 672

INDRE, department, XII, b 886–7; river (Loire), XIV, b 815

INDRE-ET-LOIRE, department, XII, a b 887

Indris, genus (Lemur) (Ill.), XIV, b 441

Indrisinæ, group (Lemur) (Ill.), XIV, b 441–2

Induction (Algebra), I, b 461–2; (Analogy), I, *b* 694, a 695; (Analysis), b 699; (Aristotle), II, a 454; (Bacon), III, a 185–6, a 187 note; (Dogmatic), VII, a b 292; (Hamilton, Sir W.), XI, b 374; (Hobbes), XII, a 35 note; (Logic), XIV, b 791, a 792, *b* 793, a b 795, a b 796–7, b 799, a b 800; (Metaphysic), XVI, b 100–1, b 102–4; (Political Economy), XIX, a b 379, a b 391, b 407; (Socrates), XXII, a b 249; (Theology), XXIII, a 285–6; (Whewell), XXIV, a 570

—— in Electricity (Ill.), VIII, a 8, b 11, a b 16, b 23–4, a 71–8, b 96–7; a 64 note; (Henry), XI, *a* 602; (Magnetism), XV, b 222, b 224–7, a b 230, b 241–2, b 249–51; (Meteorology), XVI, b 190–1; coefficients of (Electricity), VIII, a b 26; coil (Electricity), b 96–7; constants of (Magnetism), XV, a 253; earth's magnetic (Meteorology) XVI, b 181, a 182; law of (Magnetism), XV, a b 245; mathematical theory of (Electricity), VIII, a 12; (Magnetism), XV, a 244–63; measurement of (Magnetism) (Ill.), b 241–2, b 257; overcoming circuit currents of (Telephone), XXIII, b 143–4; in strongly magnetic bodies (Magnetism), XV, a 252–63

——, ceremony of (Benefice), III, a 483

—— -telegraph, Edison's (Telegraph), XXIII, a 930

Inductive cable working (Telegraph), XXIII, a 133

Inductorium, instrument (Electricity), VIII, a 61, b 96–7

Indulf, king (Scotland), XXI, b 501

INDULGENCE, church, XII, b 887–8; (Jubilee Year), XIII, a 770; (Luther), XV, b 73, *a* b 74, *a* 75, b 77; (Penance), XVIII, a 498; (Pilgrimage), XIX, b 103; sale of (Huss), XII, b 420; (Reformation), XX, b 338, b 340; (Trent, Council of), XXIII, b 184, b 185

——, Declarations of (English), VIII, b 313, b 314; (Independents), XII, a 766; (Owen), XVIII, b 89; (Penn), a 507; (Presbyterianism), XIX, a 710; (Sancroft), XXI, b 267

Indulgence of Nicholas V., 1454 (Typography), XXIII, a b 727, b 730, a b 738

Indulgences, Scotch (Presbyterianism), XIX, *b* 703; (Scotland), XXI, *a* b 538, a b 539

Induration, rock- (Geology), X, a 275

INDUS, river, XII, a 888–9; (Banu), III, a 300; (Bombay), IV, b 20; (Himalaya), XI, *a* 734, b 738; (Hyderabad), XII, *b* 445; (India), *a* b 770, a 774, a 776, b 794; (Ládac), XIV, *a* 198; (Scylax), XXI, b 600–1; (Sind), XXII, *b* 97, a *b* 98; (Tibet), XXIII, b 360, a 361

—— steam flotilla (Kotri), XIV, a 145

—— Swat watershed (Gilgit), X, b 532

Industrial arts (Ethnography), VIII, a 543; (Fine Arts), IX, a 173; (Japan), XIII, b 598–602; (Kabyles), b 823–4; (Lahore), XIV, b 213; (Le Brun), b 396; (Egypt), VII, a 626; (Taxation, U. S.), XXIII, a 925; diversity in (Protection), XIX, a 935; development of (Slavery), XXII, a b 137; (Socialism), a b 219, a 221, a b 223, a b 224, b 225, b 229–30, b 231–2; excellence in (Socialism), a 218; freedom in, rise of theory (Political Economy), XIX, b 370; heroic age (Homer), XII, b 115. See LABOR, WORKINGMEN, etc.

—— assurance (Insurance), XIII, a 188

—— chemistry (Gay-Lussac), X, a b 111

—— colony (Orel), XVII, b 849–50

—— Co-operative Society of Oldham (Communism), VI, b 194–5

—— education (Leeds), XIV, b 408; (Schools), XXI, a 912; (Reformatory Schools), XX, a 350–2; French (Paris), XVIII, a b 286; (Technical Education), XXIII, a b 116–7; German (Technical Education), a 115, *a b* 116; Greek (Sophists), XXII, b 282; in Russia (Academy), I, a 75; school act (Poor Laws), XIX, a 490; Spanish treatise on (Campomanes), IV, a 673. See SCHOOLS and *Technical Schools*

—— organization (Political Economy), XIX, b 414; of Roman Empire (Slavery), XXII, b 143–5. See CO-OPERATION, INTERNATIONAL, LABOR, Organization of

—— partnership (Agriculture), I, a 369–70. See CO-OPERATION

Inedia, disease (Dietetics), VII, a 181

Ineffabilis Deus, bull (Immaculate Conception), XII, b 754

Inequalities (Algebra), I, b 460–1

Inermia, sub-order (Sponges), XXII, a 439

Inertia (Descartes), VII, a 107; (Harbors and Docks), XI, a 412; axes of (Mechanics), XV, a 740–1; centre of (Mechanics), a b 707, a 725, a 727, a 737; effect of (Steam-Engine), XXII, b 534–5; Maxwell, J. C., on (Mechanics), XV, b 756–7; moment of (Mechanics), b 740, a b 741; value of the moment of (Bridges), IV, a b 257

Inescutcheon (Heraldry) (Ill.), XI, a 621

Inez de Castro, tragedy (Ferreira), IX, a 96

Infallibility (Inspiration), XIII, a b 162, a b 163

——, papal (Bossuet), IV, b 62, a b 63; (Old Catholics), XVII, b 775–6; (Pius IX.), XIX, b 168; (Popedom), a 507, b 521; (Vatican Council), XXIV, b 120–4

Infancy (Age), I, b 249; (Dietetics), VII, a 174–5, a 180; (Medical Jurisprudence), XV, b 788; (Rickets), XX, a b 563; (Tetanus), XXIII, a b 217; blood circulation in (Vascular System), XXIV, a 118; brain weight in (Anatomy), I, b 772; death-rate from syphilis (Vaccination), XXIV, b 32; skull (Anatomy), I, b 724; spine (Anatomy), b 720. See Infantile

——, *Physiological and Moral Management of* (Combe, A.), VI, b 160

Infangthef, franchise (Theft), XXIII, a 251

INFANT, XIII, a 3–5; (Abandonment), I, b 12; (Alien), b 506, a b 507; (Contracts), VI, b 286; (Labor), XIV, b 172; (Partnership), XVIII, b 335; damnation of (Augustine), III, a b 68; (Champeaux), V, b 335; Norwegian exposure (Baptism), III, a 301. See Children

—— Baptism, III, b 302; (Limbus), XIV, b 652–3

INFANTICIDE, XIII, a 5–6; (Brahmanism), IV, a 190; (China), V, b 582; (Cutch), VI, b 645; (Ethnography), VIII, a 544, a 549; (Foundling Hospitals), IX, a b 425; (India), XII, b 783; (Italy), XIII, a 459; (Madagascar), XV, b 173; (Magic), b 201; (Máinpurí), a b 306; (Medical Jurisprudence), b 789, b 790–1; (Muzaffarnagar), XVII, a 121; (Polynesia), XIX, b 438; (Tahiti), XXIII, a 29

Infantile Paralysis, XVIII, b 260, a 261; (Pathology), b 401; remittent fever (Typhus), XXIII, b 720

Infantry (War), XXIV, b 374–8; Austrian (Army), II, a 529; British, a 508; French, b 527; Prussian, b 521–2; Russian, a 532; Spanish, a 536; Turkish, a 540

Infant schools (Oberlin, J. F.), XVII, b 723; (Owen, R.), XVIII, b 90, b 91

Infection (Cemetery), V, b 286; (Cholera), b 593, b 594; (Medicine), XV, b 805, a b 806; (Murrain), XVII, a 64, b 67; (Pathology), XVIII, a 411–7; (Phthisis), b 870; (Plague), XIX, a b 172; (Quarantine), XX, 163–4; (Scarlet Fever), XXI, b 394; (Sweating Sickness), XXII, b 773; (Typhoid Fever), XXIII, b 720; cancerous (Pathology), XVIII, b 388, a b 389, a 390, b 390–1; in inflammation, theory of (Pathology), b 410; organisms of (Surgery), XXII, b 714, b 719, a b 721, a 722; specific (Pathology), XVIII, b 412–7; syphilitic (Surgery), XXII, a 722; in the thyroid (Pathology), XVIII, b 393. See Contagion, Germ Theory of Disease, etc.

Inferential meters (Water-Supply), XXIV, a 432

Infernal deities (Hermes), XI, a b 670; (Pluto), XIX, a b 247

Infernillos, craters (Nicaragua), XVII, a 491

Inferno, Dante's (Roveredo), XXI, a 34. See *Divina Commedia*

Infidel states (Treaties), XXIII, b 564

Infidels, conversion of (Mohammedanism), XVI, b 613

Infinite, the (Hamilton, Sir W.), XI, a 374; (Locke), XIV, a b 766; (Neoplatonism), XVII, a 345; apprehension of (Theism), XXIII, a 265; positive nature of (Cartesianism), V, b 126, b 127–8; Spinoza on (Cartesianism), b 135–6, a b 137

INFINITESIMAL CALCULUS, XIII, a 6–79
  DIFFERENTIAL, b 14–36
    Arbogast's system, b 22–3
    asymptotes, a b 28
    Bernoulli's system, a b 22
    change of independent variable, b 33–4
    curvature and evolutes, b 28–31
    definition of terms, b 14–5
    derived functions, method of finding, b 16–8
    envelopes, a 30–1
    independent variables, functions of two or more, b 26–7
    indeterminate forms, a 24–5
    infinitesimals, b 15–6
    Jacobians, b 34–6
    Lagrange's theorem a 23, a 25
    limits of magnitude, b 15
    Maclaurin's series, b 21–2, a 25
    maxima and minima, a 25–7

- INFINITESIMAL CALCULUS, *continued*
  - DIFFERENTIAL
    - partial differentiation, a 19-20
    - successive differentiation, a 18-9
    - symbolic methods, a 31-3
    - tangents and normals to curves, b 27-8
    - Taylor's theorem, a 20-2, b 23
  - HISTORY, a 6-14
    - Barrow, Roberval, b 9
    - bibliography, b 13-4
    - Cavalieri, b 7
    - Descartes, a b 8
    - Fermat, b 8-9
    - fluxions, method of, a 12-3
    - Greek mathematicians, b 6-7
    - Kepler, a 7
    - Lagrange, b 13
    - Newton, Leibnitz, b 9-12
    - objectors, a b 13
    - Pascal, b 7-8
    - Wallis, a 8
  - INTEGRAL, b 36-79
    - areas of plane curves, b 54-6
    - bibliography, b 79
    - cubature of solids, a 58-60
    - definite integrals, a 44-8
    - differentiation under the sign of integration, a b 48
    - Dirichlet's theorem, a 52
    - discontinuous integrals, a b 50
    - elliptic integrals, b 63-79; Abel, a 72-6, b 78; Euler, a 66-8, a 69; Fagnani, a b 64, b 69; Gauss, a 72; Jacobi, a 72, a 73-8; Lagrange, a 68, b 70; Landen, b 65, a 70; Legendre, a b 65, b 68-75; theta functions, a b 78
    - Eulerian integrals, b 50
    - Frullani's theorem, b 46
    - fundamental integrals, a b 37
    - geometric properties of curves, a 79
    - integration under the sign of integration, b 48-50
    - irrational functions, b 41-4
    - Lagrange's theorem, b 49-50
    - Legendre's formula, a 53
    - Li*x*, Ei*x*, Si*x*, and Ci*x*, a 53-4
    - multiple integrals, b 61-3
    - preliminary observations, b 36
    - quadrature of surfaces, a 60-3
    - rectification of curves, b 56-7
- INFINITESIMAL CALCULUS, *continued*
  - INTEGRAL
    - rectification of curves of double curvature, b 57-8
    - reduction of integrations, b 37-41
    - Taylor's theorem, a 45

——

- —— (Kepler), XIV, a 49; (Pascal), XVIII, b 343
- —— magnet (Magnetism), XV, a b 229, a b 232, a 235
- Infinitesimals in drugs (Homœopathy), XII, a 130, a b 131
- Infinitive, mood (Grammar), XI, b 37; (Sanskrit), XXI, b 283; development of (Greece), XI, a 115; Græco-Italian (Greece), b 116
- Infinity, mathematical (Algebra), I, b 462, a b 495; (Curve), VI, b 633, note, b 634; (Infinitesimal Calculus), XIII, b 7; point at (Geometry), X, b 346, a b 347
- Infirmary (Abbey), I, a b 19, a 20, a b 23, a 25; (Aberdeen), a 44; (Hospital), XII, b 314; Royal (Edinburgh), VII, b 576
- Inflammation (Pathology), XVIII, b 407-10; (Pleurisy), XIX, b 233-5; (Pneumonia), b 261-3; (Skin Diseases), XXII, a 130-1; in rickets (Pathology), XVIII, b 380; theory (Vascular System), XXIV, a 115
- Inflected notes (Music), XVII, a 92
- Inflectional languages (Grammar), XI, b 35, a 36-8; (Philology), XVIII, a 788, a 793
- Inflections, grammatical (Philology), XVIII, b 784, a 785, a 787, b 791, b 792, a 794, b 796; Castilian (Spain), XXII, a 364; Catalan (Spain), a 366; Chinese equivalents, V, a 571-2; Dutch (Holland), XII, b 92; English (Grammar), XI, b 38; German, X, a b 462, a b 465, b 466; Gothic, a b 758; Greek, XI, b 114-5, a 116-7; Hebrew, a b 532; (Hieroglyphics), a b 721; (Hindustani), b 751, a b 752-3; Indo-Germanic (Philology), XVIII, a b 803; Latin, XIV, a b 328; (Varro), XXIV, a 102; Portuguese (Spain), XXII, a 366; (Provençal Language), XIX, a b 895-6; Romance (Latin), XIV, b 341
- "Inflexible," ship (Gunnery) (Plate VI), XI, a 279; (Navy), XVII, b 294, 296; (Shipbuilding), XXI, b 850, b 859
- Inflexions of Curve, VI, a 635-6; (Geometry), X, b 367-8; points of (Infinitesimal Calculus), XIII, a 29
- Inflorescence (Botany) (Ill.), IV, b 108, b 109-13; (Grasses), XI, a 49-50, b 51; (Hops), XII, b 159-60; (Morphology), XVI, a 870, b 872; (Muscineæ), XVII, a 75, b 76
- Inflowering, process (Perfumery), XVIII, b 533
- INFLUENZA, XIII, a b 80; (Pathology), XVIII, b 412; (Veterinary Science), XXIV, b 219-20
- INFORMATION, law-term, XIII, b 80; laying (Summary Jurisdiction), XXII, b 675; writ of (Quo Warranto), XX, b 196
- Informers, devils employed in corrupt government (Ireland), XIII, a 275; (Nerva), XVII, b 361
- Infringement (Copyright), VI, b 317, a 318, a 325; (Patents), XVIII, a 361; (Protection), XIX, a b 928, a 929
- Infusoria (Animal Kingdom), II, a 46; (Biology), III, b 588, a 594; (Parasitism), XVIII, a 263; (Touch), XXIII, a 508. See PROTOZOA
- Ingævones, tribes (Germany), X, a 425; (Saxony), XXI, a 367
- Ingauni, tribe (Liguria), XIV, b 646; (Paulus), XVIII, b 446
- Inge the Elder, king (Sweden), XXII, b 783
- Ingebiorg, queen (Scotland), XXI, a 503, a 504
- Ingeland, Thomas, dramatist (Drama), VII, b 359
- Ingelgar, count (Anjou), II, b 52
- INGELHEIM, town, XIII, b 80
- INGEMANN, Bernhard Severin, poet, XIII, b 80-8; (Denmark), VII, a 81
- Ingena, town. See AVRANCHES
- Ingenhousz, Jan, physician (Electricity), VIII, a 9
- "Ingenios," sugar estates (Cuba), VI, a 602
- Ingham, Benjamin, minister (Methodism), XVI, a 193 note
- ——, S. D., statesman (Taney), XXIII, b 921
- Ingjald Illrede, king (Sweden), XXII, a 783
- Inglefield, Edward A., explorer (Polar Regions), XIX, a b 334
- Inglis trip gear (Steam-Engine) (Ill.), XXII, b 531, a 532, note
- Ingoda river (Tchita), XXIII, b 103
- *Ingoldsby Legends* (Barham), III, a 323
- INGOLSTADT, town, XIII, a 81
- Ingot iron (Iron), XIII, b 288; increase of (Iron), b 369; steel (Iron), b 288, b 354
- Ingots (Money), XVI, a 757; (Mint), b 508
- Ingouville, town (Havre), XI, b 470
- Ingrain Carpets, V, a b 114
- Ingram, J. H., author (Poe), XIX, b 267, b 268
- Ingrassias, J. P. (Anatomy), I, b 709
- INGRES, Jean Auguste Dominique, painter, XIII, b 81-3; (Montauban), XVI, a 804
- Ingul river (Russia), XXI, a 81
- INGULPHUS, abbot, XIII, b 83; (Domesday), VII, b 303
- Ingumar. See HINCMAR
- Ingur, river (Caucasus), V, b 220, a 223, a 224
- Ingvar monuments (Scandinavian Languages), XXI, b 386
- Inherence, doctrine of (Herbart), XI, b 642
- INHERITANCE, law-term, XIII, b 83-5; (Bastard), III, a 368-9; (Borough-English), IV, b 57; (Brehon Law), a 226; (Copyright), VI, b 324, a 325; (Family), IX, b 17, b 18, b 22; (Hotch-Pot), XII, a 322; (Land), XIV, a b 271; (Law), b 362-3; (Salic Law), XXI, a b 224; (Siam), a 892; (Women), XXIV, b 672, b 676; barbarian (Women), b 672-3; evils of (Saint Simon), XXI, a 208; Hebrew (Ruth), a 120; Hindu (Caste), V, a 167; in jus civile (Roman Law), XX, b 708-10; jus gentium (Roman Law), a 715; jus naturale (Roman Law), b 725-6; Justinian code (Roman Law), b 732, a 733-4; (Women), XXIV, b 671, a 672; prætorian law of (Roman Law), XX, a 720-1; in regal period (Roman Law), b 690-2
- —— tax (Succession Duty), XXII, a b 649, note; Roman empire (Finance), IX, a 152
- Inhibition (Physiology), XIX, a b 25-6; of reflex action (Physiology), XIX, a 33, a b 41
- Inhibitory action (Magnetism, Animal), XV, a b 283; (Physiology) (Ill.), XIX, a b 34
- Inia, genus (Mammalia), XV, b 397, b 401
- Inishturk, island (Mayo), XV, a 657
- Inispatrick, island (Dublin), VII, a 427
- Initial Cross, VI, a 542
- —— directors (Typography), XXIII, a 730
- Initials (Illumination), XII, b 746; in early printing (Typography), XXIII, a 730, a b 741
- Initiation (Mysteries), XVII, b 132, b 133, a b 134; clan (Totemism), XXIII, a b 500
- Injecting tissues (Anatomy), I, a 712
- Injectio, process. See Manus injectio
- Injectors, boiler (Hydromechanics), XII, a b 465; (Steam-Engine) (Ill.), XXII, a b 522
- INJUNCTION, law-term, XIII, a 85
- Injuries, compensation to employees for (Labor), XIV, a 175; liability for (Labor), b 174-5; to the person (Medical Jurisprudence), XV, a 790-3; treatment of (Surgery), XXII, a 715-8

INK, XIII, a 86-8; (Lithography), XIV, b 704, b 705, *b* 706; (Mineralogy), XVI, a 418; (Tannin), XXIII, b 52; ancient (Book), IV, a 34; (Palæography), XVIII, b 149; marking (Nut), XVII, a 684; printers' zinco-graphic (Surveying), XXII, b 752; printing (Linseed), XIV, a 684; (Typography), XXIII, b 750, a 755; sympathetic (Cobalt), VI, a 76
Ink-bag (Cuttle-Fish), VI, a 650; (Mollusca), XVI, b 701, a b 702, a 707
Inkberry (Holly), XII, b 105
Inklings of Adventure (Willis), XXIV, b 900
Inkose, chief (Kaffraria), XIII, a 829
Inkpen Beacon, XXIV, a 625
Ink-recorder (Telegraph) (Ill.), XXIII, a b 128, a 129
Inland Sea (Japan), XIII, *a* b 580
INLAYING, XIII, a b 88; (Agra), I, a 256; (Buhl-work), IV, b 399; (India), XII, a 802; (Japan), XIII, a b 601; (Lacquer), XIV, b 195; (Monghyr), XVI, b 766; Greek (Metal-Work), a b 80
Inn, river (Alps), I, *b* 552, a 553; (Bavaria), III, b 389; (Engadine), VIII, *a b* 193; (Grisons), XI, a 182; (Switzerland) XXII, b 814, *a* 815; valley (Tyrol), XXIII, a b 758, *a* 759
Innate ideas (Aristotle), II, a 459; (Cartesianism), V, b 128; (Condillac), VI, b 221; (Cumberland), b 619-20; (Locke), XIV, b 764-5
"Inner Circle," London (Railway), XX, a 248, a b 249
Innere Stadt, town (Vienna), XXIV, *a b* 237, b 239
Innerleithen, town (Peebles), XVIII, a 463
Inner Temple (Inns of Court), XIII, b 93, *a* 94, a b 96; (Libraries), XIV, a 516
Innervation (Psychology), XX, b 56, b 60; (Respiration), a 494-5; of blood-vessels (Vascular System), XXIV, b 119-20; cardiac, b 111-2
Innes, Thomas, antiquary (Columba, St.), VI, b 150
Innisfallen, island (Killarney), XIV, a 78
Innistrahul, island (Donegal), VII, a 313
INNKEEPERS, law relating to, XIII, b 88; (Lien), XIV, b 573
INNOCENT I., pope, XIII, a 89; (Bernard), III, a b 520; (Canon), V, b 12; (Pelagius), XVIII, b 482; (Popedom), XIX, a 505-6, b 523
INNOCENT II., pope, XIII, a b 89; (Lothair, Saxon), XV, a b 11; (Louis VII.), *b* 19; (Malachy, St.), a 318; (Popedom), XIX, b 514; (Rome), XX, b 809-10
INNOCENT III., pope, XIII, b 89-91; (Albigenses), I, b 402; (Canon Law), V, a 18; (Crusades), VI, a b 555; (England), VIII, a 276; (Francis, St.), IX, b 610; (Frederick II.), *a* b 643; (Germany), X, b 440; (Heresy), XI, b 657; (Inquisition), XIII, *a* 99; (Interdict), a 194; (Italy), a 485; (John of England), b 724, *a* 725; (Langton), XIV, *a* 287; (Liguori), b 644; (Limbus), a 653; (Monachism), XVI, a 736; (Otho IV.), XVIII, b 70; (Pessimism), a 703; (Popedom), XIX, a 515, b 524; (Portugal), b 556-7; (Rome), XX, b 812-3; (Templars), XXIII, b 178; (Universities), b 890-1
INNOCENT IV., pope, XIII, a 91; (Abbey), I, a 21; (Carpini), V, *b* 116; (Embroidery), VIII, a 149; (Galicia), X, b 24; (Germany), a 441; (Grosseteste), XI, b 187, *a* 188; (Holland), XII, b 74; (Italy), XIII, b 485; (Manfred), XV, a 486; (Popedom), XIX, a 515, a 525; (Rome), XX, a b 814; (Torture), XXIII, b 492; (Universities), b 889, b 890
INNOCENT V., pope, XIII, a 91
INNOCENT VI., pope, XIII, a b 91; (Roman Catholic Church), XX, b 645; (Rome), b 818; (Universities), XXIII, b 889
INNOCENT VII., pope, XIII, b 91; (Rome), XX, b 821-2
INNOCENT VIII., pope, XIII, b 91-2; (Alexander VI.), I, b 431; (Demonology), VII, b 55; (England, Church of), VIII, b 334; (Rome), XX, b 823-4; (Waldenses), XXIV, a 345; (Witchcraft), b 653
INNOCENT IX., pope, XIII, a 92
INNOCENT X., pope, XIII, a 92; (Alexander VII.), I, b 433; (Jansenism), XIII, b 576; (Popedom), XIX, b 520, b 524; (Roman Catholic Church), XX, b 645; (Velazquez), XXIV, a 147
INNOCENT XI., pope, XIII, a b 92; (Burnet), IV, b 502; (Liguori), XIV, b 641, b 644, *a* b 645; (Molinos), XVI, b 653; (Popedom), XIX, a 521, b 524
INNOCENT XII., pope, XIII, b 92; (Popedom), XIX, a 521, b 524
INNOCENT XIII., pope, XIII, b 92
Inns (Japan), XIII, a 587; (Lydia), XV, b 101
——, theatrical (English Literature), VIII, b 374
—— of Chancery (Inns of Court), XIII, *b* 93, *b* 94
INNS OF COURT, XIII, b 93-8
    Gray's Inn, a 97
    history, b 93-4, *a b* 95-7
    Inner Temple, a 96
    Ireland, a b 97
    Lincoln's Inn, b 96
    members, a b 94
    Middle Temple, a b 96
    Scotland, b 97
    usages, a 94, a b 95
—— (Barristers), III, a 340; (London), XIV, b 827
INNSBRUCK, town, XIII, b 92-3; (Colin), VI, b 127; (Sculpture), XXI, b 592; (Tyrol), XXIII, *b* 758, *a* 759; (Universities), a 902, a 905
Innuits, race (Indians), XII, b 862, b 865-6
Inny, river (Longford), XIV, a *b* 874; (Westmeath), XXIV, b 540
Inoceramus bed (Nebraska), XVII, b 317
Inoculation (Hydrophobia), XII, b 578; (Jenner), XIII, a b 634; (Kant), b 854; (Mather), XV, a 638; (Montagu), XVI, b 793; (Murrain), XVII, a 65, a *b* 66, a 67; (Nepāl), b 351; (Rabies), XX, a b 206, b 208-9 note; (Schizomycetes), XXI, b 417, a 424, b 425; (Smallpox), XXII, a b 174. See VACCINATION
Inoculative tubercle (Pathology), XVIII, b 416
Inogene substance (Nutrition), XVII, b 698; (Physiology), XIX, a b 23
Inosite (Chemistry), V, a 490
INOWRAZLAW, town, XIII, a 98
Inquartation (Assaying), II, b 634
Inquest, Coroner's, VI, b 381-2; Norman, sworn (Jury), XIII, b 793-4
Inquiry, art of (Logic), XIV, a b 800
——, Writ of, XXIV, a 732
——, courts of (Court-Martial), VI, a 460, a 461
Inquiry on Morals (Scepticism), XXI, *a* 400
Inquisitio Eliensis (Domesday), VII, a 303, a 304
INQUISITION, ecclesiastical school of argument, XIII, a 98-101
    Dominican, b 98-b 99
    introductory, a 98
    literature, b 101
    Patristic period, b 98
    Spanish, b 99-a 101
    suppression of, b 101
—— (Abano), I, b 12; (Albigenses), b 402; (Alexander IV.), b 430; (Anatomy), b 708; (Bibliography), III, b 569-70; (Bruno), IV, a 360; (Campanella), b 664; (Caranza), V, b 117; (Castillejo), b 171; (Cecco d'Ascoli), b 245; (Craig), VI, a 480; (Ferdinand V., Castile), IX, a 72; (Foxe, J.), b 443; (Galileo), X, b 30, b 31; (Gentili), *b* 144; (Giannone), a b 510; (Heresy), XI, a 658; (Holland), XII, a b 77; (Jesuits), XIII, b 657, *b* 660; (Joan of Arc), b 707; (John III., Portugal), b 725; (Lithgow), XIV, b 702; (Molinos), XVI, b 653, a 654; (Peru), XVIII, b 691; (Pius V.), XIX, *a b* 164; (Portugal), a b 561, a 567; (Reformation), XX, a 337; (Roman Catholic Church), a 645; (Socinus), XXII, b 241, b 242; (Spain), a 341; (Torture), XXIII, b 492-3; (Templars), a b 180
——, Venetian (Morosini), XVI, a 863
Inrolments, statute of (Trust), XXIII, a 634
Insálah, town (Oases), XVII, a 715
Insane, brains of (Anatomy), I, b 772; commitment of the (Medical Jurisprudence), XV, a b 790
—— asylum (Belgium), III, a 451; (Buffalo), IV, b 396; (Cincinnati), V, a 685; (England), VIII, a 230; (Gheel), X, a 503; (Hospitals), XII, a 315; (Paris), XVIII, a 288, a 289; (Tuke), XXIII, *a* 642; reform of (Conolly), VI, b 258
INSANITY, XIII, a 101-9
    ACQUIRED, b 105-7
        acute mania, b 112-3
        acute melancholia, b 111-2
        bibliography, b 117
        classification, b 109-15
        dementia, primary, b 113
        evolutional periods, a 108-9, a b 115
        general morbid conditions, b 107-8, a 115
        idiopathic causes, a 106-7
        mania and melancholia, b 110-4
        nervous diseases, a 107, b 114-5
        paralysis, b 113-4
        pathology, b 105-9
        statistics, a b 117
        terminations of, b 115
        toxic causes, a 109, b 115
        traumatic causes, a 107, b 114
        treatment of, a 116
        tumors of the brain, b 107, a 115
    CONGENITAL, b 103-5
        bibliography, b 105
        cretinism, a b 105
        idiocy, b 103-5
        statistics, b 104-5
    definitions, a 101-2
    external influences, b 102-3
    law, b 117-9
    literature, b 119
—— (Crime), VI, a b 517; (Epilepsy), VIII, b 426; (Esquirol), a 485; (Hypochondriasis), XII, b 632, a 633; (Hysteria), b 635; (Italy), XIII, b 465, note; (Medical Jurisprudence), XV, a b 790; (Méryon), XVI, a 50; legal relations of (Warren), XXIV, b 394, note; theory of (Psychology), XX, b 88-9; treatment of (Pinel), XIX, a 115
INSCRIPTIONS, (Plate I), XIII, a 120-40
    bibliography, a 124, b 128, a b 130, a 131, a 140
    cuneiform, a 120-2
    GREEK, a 127-30
        classification, b 128-9

INSCRIPTIONS, *continued*
- GREEK
  - collections, b 129-30
  - date, b 129
  - editors and collectors, a b 128
  - general description, a 127-8
- Indian, a 124-7
- ROMAN, a 130-40
  - characters used, a 131-2
  - decrees, a b 138
  - dedicatory, a 133
  - editors and collectors, a 130-1
  - honorary, a b 134
  - instrumenta, personal, a 136-7
  - official instrumenta leges, a 137
  - private documents, b 139
  - religious worship, a 139
  - sepulchral, b 132-3
  - tituli operum publicorum, a 135
- Semitic, a 122-4

—— (Abyssinia), I, a 64; (Amalekites), b 573; (Ambarvalia), b 577; (Arbroath), II, b 284; (Artaxerxes), a *b* 560, b 561; (Bactria), III, a 192; (Bashan), a 355; (Behistun), b 439; (Bells), b 464; (Belshazzar), a 478; (Boeckh), a 740; (Capri), V, a 70; (Carpentras), b 112; (Celtic Literature), b 283; (Chichester), b 533; (Chronology), a 617; (Darius), VI, b 726; (Egypt), VII, a 608, b 611, a b 621, *b* 622, b 623, *b* 625, *a* b 632, b 633, a 635, note, *a* 636, note, a 637, a 638, a 644; (Elam), *a b* 689; (Encaustic Tiles), VIII, b 171; (Ethiopia), b 538; (Etruria), b 560-1; (Eugubine Tables), b 582; (Evemerus), b 644; (Genoa), X, a 140, b 141; (Gezer), a 499; (Goths), a 757 note

—— (Greece), XI, b 117, b 118, *a* 119, a b 120; (Grotefend), a b 193; (Gruter), b 200; (Halicarnassus), a 343; (Hamadan), b 358; (Hamath), b 358; (Heraclea), b 606; (Herculaneum), b 648; (Hezekiah), *b* 702, note; (Hieroglyphics), b 722; (Himalaya), *b* 745; (Hittites), XII, *a b* 28, *a b* 29; (Homer), b 115; (India), b 823, a 824; (Incense), *b* 757; (Ireland), XIII, a 250, b 251, a 252; (Isaiah), b 388, b 394; (Israel), b 424, a 441; (Italy), b 453, a 455; (Java), a 620; (Kandahar), b 845; (Kurdistan), XIV, a 157, b 159, *a* b 160, note; (Lambese), b 238; (Lassen), *a* 323; (Latin), a 327, *a b* 329, a 337; (Lycia), XV, b 95; (Mausolus), a 650; (Mysia), XVII, b 130; (Mysteries), a 132, a 134, note; (Nabatæans), *a* 167; (Nebuchadnezzar), a 319; (Nepāl), a 353; (Numerals), b 641-2; (Numismatics), b 648-9, b 671, b 672, a b 673, *a* b 678

—— (Oscans), XVIII, b 58; (Pahlavi), a 140; (Palestine), b 178, a b 180; (Pâli), a 188, a 189; (Palmyra), a b 203 note, b 204, a 206, note, a 207; (Peking), a b 481; (Persepolis), b 569, note; (Persia), b 574, notes, b 576, a 577, note, b 581, a b 667; (Phœnicia), b 815, a 818, a 819, b 822; (Phrygia), b 864, note, a 866, note; (Pompeii), XIX, a 465; (Pottery), a b 622, a 623, a b 628-9, a b 635, a 638; (Pyramids), XX, b 130; (Sanskrit), XXI, b 285; (Scandinavian Languages), b 382, *a* b 383, b 385, note, a b 386-7, *a* 388, a b 389; (Scotland), a 493; (Segan-Foo), a b 653, note; (Semitic Languages), a b 676, note, a 677, b 678, note, *a b* 679, a *b* 680, a 683, b 685, b 686, note; (Sepulchre), b 704 note; (Siam), a b 893, a 894, b 895; (Sumatra), XXII, a 674; (Syria), b 861; (U), XXIII, a 762; (Yemen), XXIV, b 776-8

——, Abbreviations in, I, a 31-3

——, Academy of, France, I, b 73-4

Inscrutabile, bull (Propaganda), XIX, a 831

Insect beds, lias (Geology), X, b 314

Insecticide (Ant), II, b 87, a 88; (Phosphorus), XVIII. b 829; (Gooseberry), X, b 693

Insectivora, order (Africa), I, a 232; (Mole), XVI, b 630, b 632; (Mammalia), XV, a 356, a 367, a b 375, b 403-9, *b* 420, *b* 421, a 422; reproductive organs (Mammalia), b 370, a 372. a 373

INSECTIVOROUS PLANTS (Ill.), XIII, a 140-7
- bibliography, b 147
- Cephalotus (Ill.), a 140, b 145-6
- concluding remarks, b 146-7
- Dionæa (Ill.), b 142-3
- distribution, b 140
- doubtful plants, a 146
- Drosera (Ill.), b 140-1
- Droseraceæ (Ill.), a b 140-4
- experiments on Drosera, b 141-2
- morphology of pitchers (Ill.), b 145-6
- Nepenthes (Ill.), b 140, a b 145
- Sarraceniaceæ (Ill.), b 140, b 144-5
- taxonomy, a b 140
- Utriculariæ (Ill.), a b 144

INSECTS, XIII, a 147-61
- aberrant forms, a b 160
- bibliography, b 160-1
- classification, b 153-4
- Coleoptera, b 164-5
- Diptera, b 156-7
- distribution, time and place, b 147-8
- economic entomology, b 148-9
- external structure, b 149-51
- galls, b 149

INSECTS, *continued*
- general observations, a 147, a 148
- Hemiptera, b 159-60
- Hymenoptera, a b 154
- internal structure, a 151-3
- Lepidoptera, a 157-8
- luminosity, a b 149
- metamorphoses, a b 153
- Neuroptera, a b 158
- Orthoptera, b 158-9
- parasitism, a 149
- reproduction, a 152-3

—— (Acclimatization), I, b 80, a 81, b 82; (Africa), a 233; (Alps), I, b 557-8; (Arabia), II, a b 212; (Arachnida), II, a *b* 237, a 238; (Arthropoda), a 567; (Asia), b 608; (Brazil), IV, b 204; (Crustacea), VI, b 577; (Distribution), a 233, b 234, a b 235, *a b* 236, a 237, *a b* 238, a *b* 245, 246, a b 247; (Ecuador), b 561; (Egg), *a* 604; (Egypt), a 618; (Europe), VIII, a b 610; (Famines), IX, a 24; (Flight), a *b* 271, a *b* 272, *a b* 273, note, a b 274, a *b* 276-7; (Galls), X, a 40-2; (Guatemala), XI, a 213; (Hazel), a 490; (Hibernation), b 704-5; (Himalaya), a 745; (Hemiptera), b 576-7; (Honduras), XII, b 134; (Horticulture), a 220; (India), a 782; (Madeira), XV, a 180; (Natal), XVII, a 247; (New South Wales), a 421; (Parasitism), XVIII, b 263, a 264; (Pennsylvania), b 513; (Réaumur), XX, b 321; (Reproduction), a 421, a 422, b 426, a 429, b 431-2; (Sex), XXI, a 757; (Siberia), XXII, b 12-3; (Smell), b 175; (Spain), a 312; (Sweden), a 780; (Touch) (Ill.), XXIII, b 508

——, anatomy of, XIII, b 149-53; (Leeuwenhoek), XIV, b 411; fossil, oldest (Geology), X, b 306; hop (Brewing), IV, b 243; injurious (Diptera), VII, b 223; (Wheat) (Ill.), XXIV, b 564-6; mimetic (Mimicry), XVI, a 353, a 354, a 355, a 356; muscles of (Histology) (Ill.), XII. b 10-11; nerves of (Physiology), XIX, b 35-6; timber-eating (Arboriculture), II, b 277, a 278, a 279

Insects. General History of (Swammerdam), XXII, b 768

—— *of Missouri*, Riley (Insects), XIII, b 148, b 160

Insect-Wax, XXIV, a b 485

Inselberg, mountain (Saxe-Coburg-Gotha), XXI, *a* 363; (Thuringia), XXIII, a 353

Insensibility (Magnetism, Animal), XV, a 284

Insessores, birds (Ornithology), XVIII, a 32, b 33, b 34, a 35

Inside clinch, knot (Seamanship) (Ill.), XXI, b 618, a 619

Insignia (Cardinal), V, b 87; (Prætor), XIX, b 675; of rank (Burmah), IV, a 494. See Heraldry, Regalia

Insolation. See SUNSTROKE

Insolvency (Insurance), XIII, b 187, b 189; of Amsterdam Bank, III, a 291; fraudulent (Bankruptcy), III, a 295; of American free banks, b 292, a 293; of English banks in 1814-16 (Banking), b 276; in United States (Banking), b 292-3

Insomnia, disease (Sleep), XXII, b 166-7

Inspection working (Navigation), XVII, a b 272

Inspectors, officers (Navy), XVII, 302; (Poor Laws), XIX, a 488; (Prison Discipline), b 776, a 778; of shops and trades (Paris), XVIII, b 289

INSPIRATION, dogma, XIII, a 161-3
- Fathers on, b 161-2
- Jewish, b 161
- notions of, various, a 161
- Protestants, b 162
- schoolmen, b 162-3

—— (Apologetics), II, a 167; (Buxtorf), IV, a b 536; (Camisards), b 658; (Church), V, a 664; (Hebrew Literature), XI, a 537; (Mohammedanism), XVI, a 621; (Theodore), XXIII, a b 274. See BIBLE, Dæmon, Scripture

——, pulmonary (Respiration) (Ill.), XX, b 492-3, b 495

Instance courts (Admiralty), I, b 145, a 146

Instantius, bishop (Priscillianists), XIX, *a* 766

Instauratio Magna (Bacon), III, a 182, *sqq.*

INSTERBURG, town, XIII, b 163-4

INSTINCT, XIII, a 164-6
- difficulties of theory, a b 166
- heredity, b 165-6
- origin, a b 164
- variability, b 164-5

—— (Ant), II, a b 85, a 87; (Bees), III, b 421-2; (Birds), a 667; (Stoics), XXII, b 595-6; thieving (Glutton), X, a b 621. See Transmission of characters

Institute des jeunes Aveugles (Blind), III, a 718, b 719, b 721-2

—— of Charity, order (Rosmini), XX, a 876

INSTITUTE OF FRANCE, XIII, b 166-7; (Academy), I, b 69, b 72, b 74; (Guizot), XI, a 239, a 241; (Libraries), XIV, a 525, b 547

—— of Technology, Boston (Women), XXIV, 912

Institutes of the Christian Religion (Calvin), IV, b 633, a 634, a 635, b 636-7

—— of Gaius, X, a *b* 16; (Law), XIV, a 364, note; (Niebuhr, B. G.), XVII, a 505

—— of Justinian (Dorotheus), VII, b 319; (Justinian I.), XIII, *a* 803; (Law), XIV, a 358, a 360, b 362, a 364, note; (Roman Law), XX, *a* b 734, a b 735; (Tribonian), XXIII, b 590

Institutiones Grammaticæ (Priscian), XIX, a b 763-5
—— *Physiologicæ* (Blumenbach), III, a 731
—— *Theologiæ Christianæ* (Limborch), XIV, a 652
Institutioni Armonichi (Zarlino), XXIV, *b* 809, note
Institutio Oratoria (Quintilian), XX, a 194-5
Instituto di Corrispondenza Archeologica, Rome, II, a 302
—— Forestale (Italy), XIII, b 471
Instruction sur les États d'Oraison (Guyon), XI, a 307
Instrumenta, leges (Inscriptions), XIII, a 137-40
Instrumental contouring (Surveying), XXII, a b 748
Instrumentation (Music), XVII, b 100-1, a b 105
Insubres, tribes (Rome), XX, a 767
Insula of Reil (Anatomy), I, b 767, *a* 771
Insular floras (Distribution), VII, b 252
Insulation (Electricity)(Ill.), VIII, a 34-8; (Telegraph), XKIII, b 123; rupture of (Telegraph), b 127
Insulators (Electricity), VIII, a 10, a 16, a b 48, a 51, a b 93; (Telegraph), XXIII, a b 121; resistance measurement (Telegraph), b 125-6
INSURANCE, XIII, a 167-94
- FIRE, b 168-75
  - arson, a 174
  - Canada and France, b 174-5
  - common scale, a 173
  - contract, a 170-1
  - distribution of loss, methods of, a b 169
  - extinguishing fires, b 173-4
  - growth, b 168-9
  - loss, adjustment of, b 170-1
  - premiums, a b 172
  - re-insurance, b 171
  - risk, a 170, b 172, a b 173
  - United States, a b 174
- LIFE, a 175-90
  - Act of 1870, English, b 187
  - American, b 188-90
  - calculations, principles of, b 177-9
  - contract, conditions of, a b 186
  - constitution of offices, a 180
  - division of surplus, b 184-5
  - foreign, a b 190
  - government, a b 188
  - history, b 186-8
  - loading, a 179-80, a 183
  - married women, a 189
  - mortality tables, b 175-7, b 189
  - non-forfeiture, b 185, b 189
  - premiums, a 178-9
  - selection of lives, b 180-1
  - statistics, a b 188, a b 190

INSURANCE, *continued*
- LIFE
  - surrender values, a b 185
  - tontine, a 190
  - valuation of liabilities, b 181-4
  - varieties of, b 175-7
- MARINE, b 190-4
  - conditions of contract, a 191-2
  - loss, adjustment of, a 193-4
  - memorandum, the, a 193
  - policies, b 190
  - risk, nature of, b 192
- special forms, a 168

—— (Census), V, b 293; (Connecticut), VI, b 256; (Flanders), IX, a 254; (Hartford), XI, a 444; Premiums, II, a 471; (Probability), XIX, b 796
——, life, XIII, a 175-90; (Husband and Wife), XII, b 417; (New Zealand), XVII, b 483; (Temperance), XXIII, a 175; (Tontine), b 472
——, marine, XIII, b 190-4; (Abandonment), I, a 12; (Adjustment), a 141; (Average), III, a b 129; (Bottomry), IV, a 153; (Company), VI, a 197; (Hamburg), XI, a 364; (Lloyds), XIV, b 747-8; (Prize), XIX, b 786; (Sword-Fish), XXII, a 843
Insurance Cyclopædia (Annuities), II, a 71; (Insurance), XIII, a 175
—— *Register* (Insurance), XIII, a 188
—— *Year Book* (Insurance), XIII, b 174, b 188
Insurrections, Roman servile (Slavery), XXII, a b 141
Intaglio (Agate), I, a 248; (Cameo), IV, a 653; (Garnet), X, a 74; (Gems), a *b* 122, a 123, b 124, *a* 125
Intarsiatura, wood-work (Mosaic), XVI, a 882
Integral calculus (Infinitesimal Calculus), XIII, b 10, a 13, b 36-79; (Tables), XXIII, a 19
Integrals (Variable), XXIV, b 79, *a b* 80, a 81, a *b* 82, a 83; (Variations), a b 93, a 94, b 96, a *b* 97; discontinuous (Infinitesimal Calculus), XIII, a b 50; double and simple (Variable), XXIV, a 80; non-numerical (Tables), XXIII, b 19-20; sine, etc. (Tables), b 19
Integrating machine (Harmonic Analysis), XI, b 431
Integration, law of (Hamilton, Sir W.), XI, *a* 373
Integripallia, sub-order (Mollusca), XVI, a 711
Integumentary system (Botany), IV, b 78-81
Intellect, the (Arabian Philosophy), II, a b 233, b 234, b 235, *a* b 236; (Kant), XIII, b 859; (Metaphysic), XVI, b 106; development of (Comte), VI, a b 210; ethical nature of (Cartesianism), V, b 138; functions of (Schleiermacher), XXI, b 429; theory (Avicenna), III, b 134; (Schopenhauer), XXI, a 475; unity of (Avempace), III, a 126; (Averroes), a 131. See Mind, PSYCHOLOGY, Understanding
Intellection (Philosophy), XVIII, b 807; (Psychology), XX, b 79-88; feeling and (Psychology), a b 74
Intellectus Emendatione, De (Spinoza), XXII, b 416-7
Intelligencers (Newspapers), XVII, a b 425
Intemelü, tribe (Liguria), XIV, b 646
Intemperance (Epilepsy), VIII, a 427; (Insanity), XIII, a 103, a 109, b 115; (Ireland), a 245; animal (Flying Fox), IX, a 309. See Alcoholism, Drunkenness, Liquor Laws
Intensity of attraction (Gravitation), XI, a b 59
—— in Magnetism, XV, a 229
—— in Music, XVII, b 111-2
—— of Light, XIV, b 586-7; (Wave Theory), XXIV, b 443, a b 444-5, a 471-2; analysis of, b 454-5, a 456-8; transmitted, b 480
——, radiant (Radiation), XX, b 220, a 224
—— of sound (Ear), VII, b 512; (Acoustics) (Ill.), I, a 99, b 100; (Voice), XXIV, b 294-5. See Sound
Intention (Negligence), XVII, a 325
Interamna, town (Terni), XXIII, a 207
Interbedded rocks (Geology), X, b 277-8
Intercalary month, Chinese (Chronology), V, a 623
—— year, Egyptian (Chronology), V, b 621-2; Mahometan (Calendar), IV, b 602; Persian (Chronology), V, b 622
Intercalated fossils (Geology), X, a b 286; igneous rock (Geology), a 275-6
Intercalation (Calendar), IV, *a b* 591-2, a 594, a b 596
Intercellular substance (Histology), XII, b 16, a 17, b 18-9
"Intercessio" in Roman law (Tribune), XXIII, b 592, a 593
Interchangeable parts (Patents), XVIII, b 878, a b 879, a 880
Intercolonial Railway (New Brunswick), XVII, b 383
Intercolumniation (Architecture), II, a b 359, a *b* 385, b 407, a 411
Intercostal arteries (Anatomy) (Ill.), I, a *b* 793, a 794; muscles (Respiration) (Ill.), XX, a b 493; nerves (Anatomy), I, b 761-2; Neuralgia, XVII, a b 373; veins (Anatomy), I, b 795
Intercursus magnus, treaty, 1493 (Finance), IX, a 155
INTERDICT, Church, XIII, a 194; Gregory VII., 1100 (Poland), XIX, b 298; Hadrian IV., 1155 (Rome), XX, a 811; long, 1324 (Mysticism), XVII, b 140
—— of Mecca (Mohammedanism), XVI, a 574
INTERDICT, Scotch law-term, XIII, a b 194; (Chalmers), V, a b 327
INTERDICTION, XIII, b 194-5
Interdictum, judicial instrument (Writ), XXIV, b 728
—— in jus civile (Roman Law), XX, *a* 704; jus naturale (Roman Law), a b 728
INTEREST, English law of, XIII, b 194-5
—— (Arithmetic), II, b 470; (Babylonia), III, *b* 166; (Banking), a b 285; (Damages), VI, a 694, a 695; (Exchange), VIII, b 691-2; (Finance), IX, a b 160, a 161; (Jews), XIII, b 693; (National Debt), XVII, a b 251, b 253; (Savings Banks), XXI, b 343
—— on currency (Money), XVI, a 752; demanded from governments (National Debt), XVII, b 253; on deposits (Banking), III, b 285, a 286; Hume on (Political Economy), XIX, b 377; morality of (Salmasius), XXI, b 230; rates (Insurance), XIII, b 183, a b 184, a 189; (Usury), XXIV, a 23; in France (Banking), III, 292; Roman laws on (Political Economy), XIX, a 364; 17th century theories of (Political Economy), a 370, a 371; Smith on (Political Economy), a 381, b 383; tables (Annuities), II, b 66-7; taxes on (Taxation), XXIII, a 94
—— of assured in fire Insurance, XIII, b 170, a b 171; in marine Insurance, *a* b 191
Interference of light (Butterflies), IV, b 527; (Light), XIV, a b 608, b 610-13, a 614, a 616; (Wave Theory), XXIV, b 444; of polarized light (Wave Theory), b 470-3; bands (Radiation), XX, b 220; fringes (Wave Theory), XXIV, a 447-8; grating (Light), XIV, a b 612; spectrum (Light), b 612-3
—— of sound (Acoustics), I, a 103, b 108-11; of Waves, XXIV, b 442-3
Interglacial beds (Geology), X, b 326
Interim, Augsburg (Charles V.), V, a 361; (Trent, Council of), XXIII, a 581; (Germany), X, b 447
—— Copyright, VI, a 322
Interior lines in War, XXIV, a b 373
INTERLAKEN or Interlachen, town (Map), XIII, a b 195; (Switzerland), XXII, b 815
Interlocking signals (Railway), XX, b 244, b 247-8
Interlocutory motion (Costs), VI, a 400
Interludes, plays (Drama), VII, b 359, a 370; (Heywood, John), XI, a 702; (Shakespeare), XXI, b 786
Intermediate frame (Cotton), VI, a b 438
—— state (Eschatology), VIII, a b 475; (Purgatory), XX, a 120-1

Interments (Funeral Rites), IX, a 724-6; number of (Catacombs), V, a 185
Intermezzo or operetta (Music), XVII, a 101; (Pergolesi), XVIII, a 539 note
Intermittent fevers (Malaria), XV, b 319, b 321; (Pathology), XVIII, b 403, a 404-5
—— light (Lighthouse) (Ill.), XIV, a b 631, b 634; service (Water-Supply), XXIV, b 431
Internal combustion gas-engines (Steam-Engine) (Ill.), XXII, b 550-3
—— revenue (Taxation, U. S.), XXIII, a b 924; (United States), b 824
International, The. See INTERNATIONAL Working-men's Association
—— African Association (Zaire), XXIV, b 803
—— arbitration (Cobden), VI, b 80; book exchange (Libraries), XIV, b 541; code of Navigation, XVII, b 285; comity (Trade Marks), XXIII, b 530
—— Copyright, VI, a 322-3; (Protection), XIX, b 927, b 928, b 931; exchanges (Value), XXIV, a 58
—— Exhibitions, VIII, b 702-4; (Albert, Prince), I, b 400, a 401
—— Institute of Statistics, XXII, b 483-4
INTERNATIONAL LAW, XIII, b 196-203
  development of, a b 197
  hostilities, conduct of, a 200-1
  independent sovereignties, a b 198-9
  intercourse of nations, a b 199
  neutrality, b 201-2
  pirates and savages, b 202-3
  public and private, b 197-8
  territories of States, a 199
  theories of, b 196-7, a 203
  warfare, effects on, b 199-202

—— Law, XIV, a 357; (Ambassador), I, *b* 578; (Canon Law), V, a 20; (Declaration of Paris), VII, b 20-1; (Diplomacy), a 219; (Fisheries), IX, a 235; (Gentili), X, b 144-6; (Grotius), XI, a 194, a b 195-6; (Marriage), XV, a b 575; (Moser), XVI, a 888; (Possession), XIX, b 576; (Prescription), b 725; (Prize), b 786; (Pufendorf), XX, b 105-6; (Real Estate), a 321; (Statute), XXII, b 488; (Stowell), a b 609; (Treaties), XXIII, a 564-6; (Will), XXIV, a 606; of preëmption (Sale), XXI, b 219
International Law, Elements of, Wheaton, XIII, b 197, a 201, a 203; (Wheaton), XXIV, b 567, a 568, *b* 892
—— Metric Bureau, Paris (Weights and Measures), XXIV, a b 507; Money, XVI, a b 760; Navigation law, XVII, b 286-7; Patents, XVIII, b 363; Pharmacopœia, need of, a b 745; Postal Union (Post-Office), XIX, b 600-2; register (Tonnage), XXIII, b 470-2; Signal Service, XXII, *a* 905
—— Social Democratic Alliance (Socialism), XXII, a 228
—— tournaments (Chess), V, a 522, a b 523
—— trade (Political Economy), XIX, a 389, a b 395
INTERNATIONAL Working-men's Association, XIII, a 195-6; (Communism), VI, b 191; (Socialism), XXII, a 221, b 225-6, b 227, *a* 231
Internationalism (Europe), VIII, b 630-1
Interoceanic canal (Paterson), XVIII, b 365, note; (Panamá), a b 213
Interocrea, town (Sabines), XXI, b 137
INTERPLEADER, law-term, XIII, b 203
Interpolation Tables, XXIII, b 17
Interpretation, On (Aristotle), II, a 453
—— (Dreams), VII, a b 392-3; of law (Thibaut), XXIII, a 322; (Statute), XXII, b 486-7
——, Biblical (Hermeneutics), XI, b 635-9; (Isaiah), XIII, b 388-94
Interpretatio Naturæ (Bacon), III, b 173
Interregnum, the great, 1254-73 (Germany), X, a 442
Interrex (Consul), VI, b 279
Intersecting axes (Mechanics), XV, b 698-9
Intersections, real (Curve), VI, a 638
Inter-State Commerce Act, 1887 (United States), XXIII, b 834
Intervals, musical (Music), XVII, a b 85, a 99, a b 113; (Acoustics), I, a 101; (Sanskrit), XXI, a 308
Intervention, national (International Law), XIII, b 198; in France (Mirabeau), XVI, b 519, a 520; European (Monroe), b 787
Intervertebral joints (Anatomy), I, b 732; substance (Mammalia), XV, b 359
Interview Island (Andaman Island), II, a b 12
INTESTACY, XIII, b 203-4; (Hotch-Pot), XII, a 322
Intestate succession (Domicile), VII, b 305, a 306; in jus civile (Roman Law), XX, b 709-10; in jus naturale (Roman Law), a 726; Justinian code (Roman Law), b 732, b 733-4; Prætorian (Roman Law), a 721
Intestinal Respiration, XX, b 500
Intestines (Anatomy), I, b 756; (Ape), II, a 145; (Birds), III, a b 629; (Digestive Organs) (Ill.), VII, a 196-9; (Dysentery), a 506; (Horse), XII, b 183-4; (Ichthyology), b 692-3; (Mammalia) (Ill.), XV, a b 365, a 428; (Nutrition), XVII, b 687-8, b 689-90, b 693-4, b 695, b 696; (Reptiles), XX, b 470, a b 471; bloodvessels of (Anatomy), I, a b 793, b 794, a 796; changes in (Typhus), XXIII, a 724; removal of parts of (Surgery), XXII, a 727; villi in (Anatomy), I, *b* 796, a 797
Intieri, Bartolommeo, economist (Genovesi), X, b 142; (Political Economy), XIX, *a* 375
Intimations of Immortality poem (Wordsworth), XXIV, a 708, a 709
Intimidation (Trade Unions), XXIII, b 531
Intonaco, plaster (Fresco), IX, b 680
Intonation (Speech-Sounds), XXII, a 399
Intoxication (Drunkenness), VII, a 416-7; (Kara), XIV, a 20
Intralobular capillaries (Digestive Organs), VII, a b 200, a 201
Intrenched camp (Fortification), IX, a 412
Intrinsic thermoscopes (Heat), XI, b 499-500
Introduction (Drama), VII, a 340
Introvert or proboscis (Mollusca), XVI, b 672, b 675-6
Intrusive rocks (Geology) (Ill), X, b 272, a 273-7
Intscharo mountain (Caucasus), V, b 221
Intuition in Ethics, VIII, a 531-2
—— in Mysticism, XVII, b 136-7
—— in psychology (Hamilton, Sir W.), XI, *b* 372, b 373, b 375; (Kant), XIII, b 861, b 862, a b 863; (Locke), XIV, b 764, a 768; (Logic), *b* 799; (Psychology), XX, b 57, a 60-2, a 83 note; of cause (Psychology), b 86, b 87-8
Intuitive truths, criteria of (Hamilton, Sir W.), XI, a b 373
Inulin, chemical substance (Botany), IV, a 78; (Histology), XII, *a* 15; (Taraxacum), XXIII, a 67
Inundations (Famines), IX, b 23; (Holland), XII, a 62, b 65, b 74; (Hungary), b 377, a b 389; (India), b 792-3, b 805, a 806; (Mecca), XV, a 678; annual (Mekong), a 841; of the Nile (Egypt), VII, a b 612, a 637; (Nile), XVII, b 520, a 521; (River Engineering), XX, b 586-8; deposits (Hydromechanics), XII, b 532; notice of (Signal Service), XXII, b 904-5. See Floods
Inuus, deity (Lupercalia), XV, *a* 68
Invalidation of a Will, XXIV, b 604
Invalide Russe (Newspapers), XVII, b 441
Invariants (Curves), VI, a b 637
Invasions, Book of (Celtic Literature), V, *b* 268-9
Invention in philosophy (Condillac), VI, b 222
—— of the Cross, VI, b 539-40
Inventions, History of (Beckmann), III, a 414
——, important (Patents in the United States), XVIII, a 873-84; (United States), XXIII, a 817
—— of Sir Marc I. Brunel, IV, a 358; of P. H. Girard, X, b 553
——, textile (England), VIII, a 322
Inventor (Fine Arts), IX, a b 173; defined (Patents), XVIII, a 360
Inver, loch (Sutherland), XXII, a 764
INVERARAY, town, XIII, b 204-5; (Argyllshire), II, a b 439, a b 440, a 441; (Bute), IV, b 516
Inverarite (Mineralogy), XVI, a 409
Invernairn, town (Nairn), XVII, b 173
INVERNESS, county, XIII, a 205-7; (Scotland), XXI, a b 545, a *b* 551, b 556; town, XIII, a 206-7
Inverse square, law of (Magnetism), XV, b 237-9
Inversion, chemical (Sugar), XXII, a 656
——, Electric, VIII, b 30-2; thermo-electric, a 11
—— of spectrum defined (Sun), XXII, a 680
—— of strata (Geology), X, b 266
—— of the Tides, XXIII, b 376, b 382, a 400
"Inversor" (Poggendorff), XIX, a 286
Invertebrata (Cuvier), VI, a 655; (Embryology), VIII, b 155; (Lamarck), XIV, *a* 232; (Skeleton), XXII, b 113-4; tissues of (Histology) (Ill.), XII, b 8-12; nervous system of (Physiology), XIX, a 35-6
Invertebrata, Report on the (Gould), XI, a b 5
Invertin, ferment (Physiology), XIX, b 57
Investigation, statistical method of (Statistics), XXII, a b 481
INVESTITURE, ceremony, XIII, b 207-8; (Abbot), I, b 28; (Anselm), II, a 82; (Glove), X, a 617; (Pallium), XVIII, b 193; disputes about (Adrian IV.), I, b 150; (Gregory VII.), XI, a b 158; (Henry I., England), b 585; (Henry V., Emperor), a 593; (Paschal II.), XVIII, a 344; (Popedom), XIX, b 513, b 514; (Rome), XX, b 807, b 808, a b 809; Scotch (Conveyancing), VI, a b 288; wars of (Germany), X, a b 438, a 439; (Italy), XIII, b 481-2
Investments by trustees (Trust), XXIII, a 636
Inviolability of Ambassador, I, b 578
Invocation (Brahmanism), IV, a 183, b 184, a 186; (Litany), XIV, a 702; (Saint), XXI, a 164
Involucre (Botany), IV, b 107-8; (Grasses), XI, *a* 50

Involuntary movements (Magnetism, Animal), XV, a 282; muscles (Anatomy), I, a 752
Involute (Infinitesimal Calculus), XIII, a 29; (Mechanics), XV, b 686-7
—— teeth (Mechanics), XV, a b 767
Involution (Algebra), I, a 464-5; (Geometry), X, a 360-1; (Projection), XIX, a b 816, b 820-1; conic (Geometry), X, b 361-3; of surds (Algebra), I, a b 472
—— of ideas (Psychology), XX, b 66
Inward light, doctrine (Quakers), XX, a 154, a b 156
Inyak, island (Delagoa Bay), VII, b 36
Inyo range, mountains (California), IV, a 619, b 622
Io, myth, XIII, a 208; (Hermes), XI, a 670
Io (Plato), XIX, b 208
Iobates, Lycian king (Bellerophon), III, a 471
Iodic acid (Chemistry), V, a 430, *b* 431; anhydride (Chemistry), a 428
Iodide, ammonium (Chemistry), V, b 442; cuprous (Chemistry), a 458, b 459; of Methyl, XVI, a 203, *b* 204; Potassium, XIX, a 609; in syphilis (Surgery), XXII, b 721; of Silver, a 79; of Thallium, XXIII, a 238; (Chemistry), V, a 460
Iodides (Chemistry), V, b 414; (Collodion), VI, a 134; (Iodine), XIII, *b* 208; (Mercury), XVI, b 38, b 39; phosphorus (Chemistry), V, *b* 447, a 450, platinum group (Chemistry), a 466; silicon (Chemistry), a b 452, *b* 453; sulphur group (Chemistry), b 434
IODINE, XIII, b 208-9; (Davy), VI, a 745; (Gay-Lussac), X, a 111; (Goitre), b 658, a 659; (Iquique), XIII, a 219; (Kelp), XIV, b 31; (Mineral Waters), XVI, a b 453; (Nitrogen), XVII, b 531; and its compounds (Chemistry), V, b 424-8, a 430-1, a b 433; heat in combinations of (Chemistry), a b 411; green (Coal Tar Colors), XVIII, a 904; scarlet (Pigments), XIX, a 96; vapor dispersion (Light), XIV, b 607; vapor test (Pyrometer), XX, a b 137
Iodite (Mineralogy), XVI, a 400
Iodized plates (Photography), XVIII, a b 836
Iodobutanes (Chemistry), V, b 490
Iodoform (Chemistry), V, a 491; (Iodine), XIII, b 208
Iol, town (Mauretania), XV, a 644
Iolcus, town (Thessaly), XXIII, a 320
Iolite (Mineralogy) (Ill.), XVI, b 389, a 390, a 436
Iolo Morganwg, pseudonym (Celtic Literature), V, a 273, *b* 276
Iol-etan, provincial statistics (Russia), XXI, b 76
ION of Chios, poet, XIII, a b 209; (Drama), VII, b 350
Ion, tragedy (Euripides), VIII, a 593
Ion, tragedy (Talfourd), XXIII, b 34
IONA, island, XIII, b 209-10; (Argyllshire), II, *b* 439; monastery of (Columba, St), VI, a 150; (Monachism), XVI, b 729, a 733, a 741; (Scotland), XXI, *b* 496, *a* 497, a *b* 498, a *b* 499, a 500, b 503; monks of (England, Church of), VIII, b 332; (English Literature), a 362. See Hi
Ione, legend (Antioch), II, b 115
IONIA, country, XIII, a 210-11; (Mimnermus), XVI, a 357; (Phrygia), XVIII, a b 865
Ionian chroniclers (Thucydides), XXIII, a 346; coins (Numismatics), XVII, a 650, b 663-4
IONIAN ISLANDS, XIII, b 211-3; (Corfu), VI, a 352; (Greece), XI, a b 73, a b 76, a 78, b 79, a 81, b 108; (International Law), XIII, a 198; (Knighthood), XIV, a 125; (Napier, Sir C. J.), XVII, b 182-3
—— letters (Pottery and Porcelain), XIX, a 628; mariners (Jason), XIII, b 606; mercenaries (Egypt), VII, a b 644; philosophy (Metaphysic), XVI, b 86; (Sophists), XXII, b 277
—— revolt against Persia, XVIII, a 582-3; (Darius I.), VI, a 727; (Greece), XI, a b 89
Ionians, race (Dorians), VII, b 317, *a* 318; (Greece), XI, b 81, a *b* 82, *b* 83, a *b* 86, b 88-9, *a* 122; (Neleus), XVII, b 329
Ionic architecture (Archæology), II, a 304, b 309, a 314; Grecian (Architecture) (Plate XI), II, a 355-6, *b* 358, b 359; Roman (Architecture) (Plates XV, XXIV), b 363, a 366, b 382, b 384
—— dialect (Greece), XI, b 119, *a* 122; (Homer), XII, a b 117
—— League (Ionia), XIII, a b 210
Ionica (Panyasis), XVIII, b 220
Ions in electrolysis (Diffusion), VII, a b 190; (Electricity), VIII, b 44; (Electrolysis), b 100, b 101-8
Iopolis, town (Antioch), II, b 115
IOWA, State (Plate II), XIII, b 213-5; (California), IV, b 625; (Reformatories), XX, b 898, a 899, a 901; (Universities), XXIII, a 913, a b 954, b 960; history (United States), a 817, a 822; statistics (United States), b 853, a b 855, a *b* 856, b 858, a 860, a b 863, b 864, a 865, note, a 870, a b 873, *b* 877, *a* b 878, a 879
IOWA CITY, XIII, b 215-6
Ipanéma, São João de, town (Brazil), IV, a b 202
IPECACUANHA, plant and drug (Ill.), XIII, a 216-7; (Botany) (Ill.), IV, *a* 81, b 83, b 84, a 87, b 102; (Dysentery), VII, b 506; (Egypt), a 618 note; (Helvetius), XI, a 573
IPEK, town, XIII, a b 217
Ipermnestra, opera (Metastasio), XVI, b 109
Iphianassa (Iphigeneia), XIII, b 217
IPHICRATES, general, XIII, b 217; (Egypt), VII, a 615; (Persia), XVIII, a 590; (Timotheus), XXIII, a b 425
Iphicratides (Iphicrates), XIII, b 217
IPHIGENEIA, heroine, XIII, b 517; (Agamemnon), I, b 244-5
Iphigenia, play, Euripides (Drama), VII, b 382; (Euripides), VIII, b 593, b 594
——, play, Goethe (Germany), X, a b 481; (Goethe), a b 649, a b 650
——, *Sacrifice of*, painting (Archæology), II, b 317
Iphigénie, opera (Piccini), XIX, a 88
——, play (Racine), XX, b 213-4
——, operas (Gluck), X, a *b* 619
Iphitus of Elis, king (Games), X, b 57-8
Ipomæa, plant (Jalap), XIII, a 557; batatas (Potato), XIX, a 615
Ippolito of Este, cardinal (Ariosto), II, b 442; (Cardinal), V, b 86
Ipsambul, town. See Abu-Simbel
Ipsario, mountain (Thasos), XXIII, b 240
Ipse dixit, assertion, origin of (Ethics), VIII, b 507, note
Ipsus, battle of, 301 B.C. (Antigonus I.), II, a 113; (Macedonian Empire), XV, a 143
IPSWICH, Australia, XIII, b 218-9; (Queensland), XX, a 178, b 179, a 182
IPSWICH, England, town (Map), XV, a b 218; (Suffolk), XXII, *b* 654
IQUIQUE, town, XIII, a 219
Ira Dei, De (Lactantius), XIV, b 196
IRAK ADJEMI, province, XIII, a 219
IRAK ARABI, district, XIII, b 219; (Mesopotamia), XVI, a 52, b 54, a 55-7; (Mohammedanism), a b 585, b 586, a 587-9, b 593, b 594, b 595, a 598, a 606; (Plague), XIX, a b 170, a 171, b 177-8; history of (Tabarí), XXIII, b 6; school of (Mohammedanism), XVI, a 617
—— Pass (Hindú Kúsh), XI, a 748, a 749
IRAN, ANCIENT, country (Persia), XVIII, a 573-7; (Zoroaster), XXIV, a 859, a b 860, a 861
Iranian deities (Persia), XVIII, a 617; languages (Persia), XVIII, a 665-68; (Philology), a 798; mythology (Devil), VII, a b 118; Religions, XX, 372, b 373; (Priest), XIX, b 745
Iranians, race (Ispahan), XIII, b 405
IRAWADI or IRRAWADDY, river, XIII, b 219-20; (Bassein), III, a b 367; (Burmah), IV, a b 492, a 493, a 499; (Burmah, British), *b* 499-500; (Henzada), XI, *b* 604; (India), XII, a 773, b 794; (Prome), XIX, a b 829; (Tharrawaddy), XXIII, a 240; (Thayetmyo), b 240; (Thún-Khwa), b 351; (Tibet), a b 362; sediment (Geology), X, b 244; Flotilla Company, XIII, b 219-20
Irawen, mountains (Sahara), XXI, b 157, b 158
IRBIT, town, XIII, a b 220; (Perm), XVIII, b 561, a 562; fair (Siberia), XXII, a 15
Irchester, Roman station (Northampton), XVII, a 570
Ircoul mountain (Garhwal), X, b 72
IRELAND, country (Plate III), XIII, a 220-78
  GEOGRAPHY and STATISTICS, 220-48
    agriculture, b 224-35
    area and population, 221
    bibliography, a b 248
    classification of lands, agricultural, a b 229
    climate, b 224
    commerce, b 238-40
    cotton and silk manufactures, b 237-8
    crops, 227-30
    distribution of lands, holdings, 226-7
    education, 246, a 247-8
    emigration, a b 243
    finance, b 240-2
    geology, a 220-2
    government aid, a 233
    history of landholdings, a 225-7
    islands, a 222
    linen manufacture, a 236-7
    live-stock, 230-2
    minerals, a 223-4
    miscellaneous industries, a b 238, a 240
    peat, b 223
    political features, a 244-6
    population, a 242-3
    proprietors, 234-5
    railways, b 241, a 242
    religion, 245, a b 246-7
    tenant rights, b 233-4
    vital statistics, a 242-3, a b 244
    water systems, a b 222
    woollen manufacture, a 235-6

IRELAND, *continued*
  HISTORY, 248-78
    assemblies, mediæval, a b 264
    Britain, invasions of, b 251-3
    Charles I., England, b 272-3
    Charles II., England, b 273-4
    church, early, b 253-5
    Clontarf to the English invasion, from, a 260-1
    conversion of, a b 253
    Cromwell, a b 273
    Dal-Cais dynasty, b 258-9
    Desmond rebellions, a 270-1
    dress and equipments, mediæval, a 263
    eighteenth century, a b 275-7
    Elizabeth, England, b 269-71
    Henry II., England, b 264, a b 265
    Henry VII., England, a 268
    Henry VIII., England, a 268-9
    Húi Néill dynasty, b 255-7
    industrial features, mediæval, b 261, a 262
    James I., England, b 271-2
    James II., England, a 274-5
    Lancaster, House of, a b 267
    mediæval times, a 261-4
    Milesian legends, b 249-50
    Munster, kingdom, a b 251
    Northmen, invasions of, a 257-8
    Plantagenet kings, early, b 265-7
    political organization, mediæval, a 261, b 263-4
    pre-historic period, a 248-50
    professions, mediæval, a b 264
    reformation period, a b 269
    Scoti, a 250-1
    social usages, mediæval, b 262-3
    Union period, a 277
    William III., England, b 274
    York, House of, b 267
  index, 278

—— (Admiralty), I, a 148; (Banking), III, b 289, *a* b 290; (Bankruptcy), a 297; (Baronets), b 335-6; (Barrows), a 343; (Census), V, *b* 291, a 292, b 293-4; (Chancellor), b 337; (Climate), VI, b 6, *b* 7; (Coal), b 51; (Columba, St.), b 149-50; (Commerce), a 181, note; (Corn Trade), b 367-8, note; (Cotton), b 446; (Crannogs), a b 489; (Deaf and Dumb), VII, a b 6; (Education), b 590-1; (Enamel), VIII, b 167-8; (Fisheries), IX, b 229-31; (Flax), a b 259; (Forests), a 351; (Freemasonry), b 658-9; (Funeral Rites), b 724; (Glass), X, a 582; (Heraldry), XI, b 612-3, a 614, a 615
—— (Illumination), XII, a 746; (Insanity), XIII, a 105, a 117; (Libraries), XIV, b 522-3, b 542-6; (Linen), a b 673, *a* b 674; (Methodism), XVI, a 199; (Navy), XVII, b 304; (Newspapers), a 434; (Peerage), XVIII, a 477; (Petty), b 737-8; (Police), XIX, a 346, a 349, b 353; (Post-Office), a 582; (Presbyterianism), a 711-2; (Press Laws), a 731; (Public Health), XX, a 103; (Quarter Sessions), a b 166; (Railway), *a b* 233, a b 234, a b 235, a b 236, *a b* 237, 238, b 250 (Real Estate), b 320; (Reformation), b 349-50; (Reformatory and Industrial Schools), a 352; (Registration), a 356, b 358; (Riot), a 580; (Round Towers), XXI, b 27-8; (Statute), XXII, a 488; (Suicide), *a* b 663; (Summary Jurisdiction), a 676; (Sunday), b 690-1; (Treason), XXIII, a 561; (Theatre), a 246; (Typography), b 729, a 741; (Unitarianism), a 774; (Universities), b 911-2; (Will), XXIV, a 605; (Witchcraft), a 656
——, ancient church and schools of (Celtic Literature), V, b 263-4; Catholic emancipation in (Anglesey), II, b 29; (O'Connell), XVII, b 741-2; conquest by Henry II. (Adrian IV.), I, b 150; (Brehon Laws), IV, a 226; (England), VIII, a 278; (Episcopacy), b 435; by Cromwell, VI, a b 531; (Ireton), XIII, a 281; early history of (Fenians), IX, a 66-7
——, English government of (Burke), IV, a 483, b 486, b 490; (Clarendon), V, a 743; (Derby), VII, a 96-7; (Dublin), b 432; (Ormonde), XVII, a 879-80; (Pitt), XIX, a b 155; (Raleigh), XX, a b 274; (Strafford), XXII, a 614-5; (Test Acts), XXIII, b 216-7
——, fishery laws in (Salmonidæ), XXI, b 236-7; flax in (Agriculture), I, b 337, a 338; geology of (Geology), X, b 273, *a* b 274, b 292, b 295, a 299, b 307, a 309; (Jukes), XIII, a 778
——, invasions by British (Essex), VIII, b 490; by Robert Bruce, 1316, XX, b 610; by William III., 1689 (Ginckell), X, a 538; (Schomberg), XXI, b 449; (William III.), XXIV, b 611, a 612
——, land-tenure in (Land), XIV, a 266, a b 270; (Landlord and Tenant), a 277-8; monasteries in (Columba, St.), VI, *a* 150; (Monachism), XVI, b 732-3, a 786; oppression of (Shipping), XXI, b 866-7; (Warrant), XXIV, a 392; papal grant of (Brehon Law), IV, a 226; parliamentary representation (United Kingdom), XXIII, a 775; potato in (Agriculture), I, b 323
——, savings deposits of (Post-Office), XIX, a 590; survey of (Petty), XVIII, b 737-8
——, union with England (Londonderry), XIV, b 864, a 865; (Parliament), XVIII, a b 314; (Precedence), XIX, a 681, a 682 note, a 836 note; repeal of (O'Connell), XVII, a b 742; (Peel), XVIII, a 467
——, *View of the State of* (Spenser), XXII, *b* 408-9, b 410
IRELAND, Samuel, author, XIII, a 278
IRELAND, Samuel William Henry, Shakespearean forger, XIII, b 278-9; (Shakespeare), XXI, a 807
——, W. W., physician (Insanity), XIII, b 103, a 104
Ireland's Eye, island (Dublin), VII, *a* 427
Irem, fabulous city (Arabia), II, b 222
Iremel mountain (Ufa), XXIII, a 764
IRENÆUS, bishop, XIII, a 279-80; (Acts of the Apostles), I, *a* 115, a 119; (Apostolic Fathers), II, b 171, b 172; (Basilides), III, b 362; (Canon), V, a 3, a b 7, a 8, a 9, b 10; (Cerinthus), *a* b 301; (Creeds), VI, a b 495; (Episcopacy), VIII, *a b* 432; (Gnosticism), X, a *b* 626, *a* b 627, b 628; (Gospels), a b 727, a 728 note, *b* 729, *a* 730, note, b 731; (Heresy), XI, *b* 655; (Hermeneutics), a b 667; (John, Apostle), XIII, *a* 718; (John, Epistles of), b 718; (Liturgy), XIV, a 714; (Millennium), XVI, a 329; (Polycarp), XIX, *a* 428, notes, a 430; (Popedom), a 504, b 506; (Purgatory), XX, a 121; (Sacrifice), XXI, a 147; (Valentinus), XXIV, *b* 43, *a b* 44, a 45, b 46
IRENE, Byzantine empress, XIII, b 280-1; (Chess), V, b 520, a 521; (Greece), XI, b 102; (Image Worship), XII, b 751; (Mohammedanism), XVI, a 603, b 604, a 605
——, princess (Photius), XVIII, b 832
——, St., patron (Thera), XXIII, a 301
Irene, tragedies (Johnson, S.), XIII, b 731, a 734; (Voltaire), XXIV, *b* 311
Irene pellucida (Hydrozoa) (Ill.), XII, a 596
Irenic (Dogmatic), VII, b 289
Irenicum (Stillingfleet), XXII, *a* 579
IRETON, Henry, general, XIII, a b 281
"Irex," cutter (Yachting), XXIV, a b 760
Irghiz rivers (Samara), XXI, b 254, b 255
Iriarte, Juan de, librarian (Iriarte, T. de), XIII, b 281
IRIARTE or Yriarte, Tomas de, poet, XIII, b 281; (Spain), XXII, a 375
Iridaceæ, order (Flag), IX, a 244
Iridectomy (Ophthalmology), XVII, b 804, b 805; history of (Surgery), XXII, b 711
Iridescence (Annelida), II, b 58, a 61, a 64; (Glass), X, b 584, b 594; (Opal), XVII, a 799; cause of (Pearl), XVIII, a 457
Iridescent hair (Mammalia), XV, a 351
Iridin, drug (Iris), XIII, a 282
IRIDIUM, metal, XIII, b 281-2; (Chemistry), V, a 465-6; (Mineralogy), XVI, b 398; (Pen), XVIII, *b* 494; alloys (Gold), X, a 669; (Platinum), XIX, b 202, *b* 203, note, a b 204; (Ural Mountains), XXIV, a 10
Irido-cyclitis, disease (Ophthalmology), XVII, a 804
Iridosmium (Mineralogy), XVI, a 399
Irinyi, Joseph, translator (Hungary), XII, b 394
"Iris" cruiser (Navy), XVII, b 294, *b* 295, a 297
Iris of the eye (Anatomy), I, a 778, a b 779, a 781, a 782; visual (Eye), VIII, b 718-9; (Ophthalmology), XVII, b 803-4. See Iridectomy
IRIS, plant, XIII, a b 282; (Botany) (Ill.), IV, b 80, a 87, b 97, b 98, b 115, b 119, b 121, b 122, b 124, b 130, a b 131, *b* 135, b 138, a 140; (Flag), IX, a 244; (Horticulture), XII, b 264; (Orris-Root), XVIII, b 55
IRIS, the rainbow, XIII, a 282
—— river (Asia Minor), II, a 618; (Pontus), XIX, b 473, a 474; (Tokat), XXIII, b 460
Iris-diaphragm (Microscope), XVI, b 279, b 281-2
Irish Acts of Parliament, I, b 114; agriculture (Protection), XIX, b 934; archæology (Petrie), XVIII, b 725-6; (Petty), a 738; art (Miniature), XVI, b 457; Athletes, III, b 13; banks (Banking), *a* b 290; bar (Curran), VI, b 630-1; (O'Connell), XVII, a b 741; Boroughs, IV, a b 56; Brigade in France (Camisards), a 658
Irish Bulls, Essay on (Edgeworth), VII, a 567, a 569
—— cannon game (Bagatelle), III, b 198; Catholics (Moore), XVI, a 832, b 833; (O'Connell), XVII, a 741-3; Celtic Literature, V, b 266-71, b 283-4
—— Channel (Tides), XXIII, a 398; character (Moore), XVI, a 832; (Morgan), b 849

Irish Church (Ireland), XIII, a b 246, a 266, b 269–70, b 272, a 273, b 274, b 277; (Archbishop), II, a 324; (Articles), b 572; (Campbell), IV, b 669; (Canon Law), V, b 17; (Celtic Literature), b 263-4. See Celtic Church; mediæval (Ireland), XIII, b 261; modern Episcopal (Episcopacy), VIII, a b 435; (Liturgy), XIV, a 715, b 717; (Peerage), XVIII, a 477; (Trench), XXIII, b 575; reduction of (Derby), VII, b 95, b 96-7

—— coinage (Numismatics), XVII, b 674; (Swift), XXII, b 804; confederation (O'Brien, W. S.), XVII, b 728; constabulary (Peel), XVIII, b 464; law courts (Judicature), XIII, a 775; customs (Primogeniture), XIX, b 754, a b 755

—— dialects (Celtic Literature), V, *b* 258–60, b 261; Dictionaries, VII, a 163; Ecclesiastical Law, b 543; education, improvement of (Peel), XVIII, b 464, a 467; elective reform acts (Parliament), b 314, a 315

—— elk, fossil (Deer), VII, a 24; emigrants (New York), XVII, a *b* 472, a 473; ethnic traditions (Celtic Literature), V, a 260-1; Gothic Architecture, II, b 375; greyhound (Dog), VII, b 285

—— Harp (Ill.), XI, b 437; historians (Celtic Literature), V, a b 268, b 283; Inscriptions, XIII, a 250, b 251, a 252; Ivy (Ill.), a 536, b 537; jewellery (Filigree), IX, a 144

—— *Lands, Down Survey of* (Petty), XVIII, a 738

—— or Erse language (Celtic Literature), V, b 258–9; (Donegal), VII, a 314; (Gaelic), X, a *b* 8–9, a 11; (Mayo), XV, b 657; present use of (Armagh), II, a 479; works on (Celtic Literature), V, b 283

—— law (Treason), XXIII, b 561-2; learned classes, early (Celtic Literature), V, b 263–4; manuscripts (Celtic Literature), a b 265, b 266, b 283; (Palæography), XVIII, b 161–3; Marble, XV, b 536

Irish Melodies (Moore), XVI, a 833

—— metal work (Niello), XVII, a 508; Militia, XVI, a 313; minstrelsy (Carolan), V, b 110

IRISH Moss or Carrageen, XIII, b 282; (Algæ), I, a 449

—— mythology (Celtic Literature), V, a b 260, a b 269, a b 282; Ornithology, XVIII, a 22

—— Parliament (Dungannon), VII, a 469; (Flood, H.), IX, a 288; (Grattan), XI, a b 55

—— peasantry (Agriculture), I, b 365; pedigrees (Celtic Literature), V, a 267; peers (Peerage), XVIII, b 469, a 477; Picts (Patrick), b 421, note; population (United States), XXIII, a *b* 874, *a* 875

—— Presbyterianism (Abernethy), I, a 49; (Presbyterianism), XIX, a 711–2; Prison Discipline system, a 774, b 776, a 777; Protestants (Orangemen), XVII, b 836

—— rebellion, 1641 (Bedell), III, a 416; (Boyle, Richard), IV, b 166, a 168; (Monk), XVI, a b 778; (Ormonde), XVII, a 879; (Westmeath), XXIV, b 541

—— rebellion, 1798 (Abercromby, Sir R.), I, b 41; (Carlow), V, a 99; (England), VIII, b 324; (Moore, Sir J.), XVI, b 830

—— Royal Academy (Gaelic), X, a 12; schools, early (Celtic Literature), V, b 264–5; Society (Company), VI, a 200; (Londonderry), XIV, *b* 863, a 864; sorcerers (Druidism), VII, a 413; theatre (Drama), b 375

Irishtown (Kilkenny), XIV, a *b* 77

Irish wools (Agriculture), I, a 354; writing (Palæography), XVIII, b 161–3, a b 167, a b 170

Irite (Mineralogy), XVI, a 402

Iritis, disease (Ophthalmology), XVII, b 803–4

Irkut, river (Irkutsk), XIII, a b 283

IRKUTSK, government XIII, b 282-3; (Buriats), IV, *b* 480, a 481; (Siberia), XXII, a b 6, note, b 8, a *b* 14, *a* 16; (Yeniseisk), XXIV, a b 779; statistics of (Russia), XXI, b 76

—— town (Plan), XIII, a b 283; (Prison Discipline), XIX, a 782; (Siberia), XXII, *b* 10, *a* 11, a 14, a b 16; (Yakutsk), XXIV, b 761, a 762, a 763

Irminsul, idol (Charlemagne), V, b 349

IRNERIUS of Bologna, jurist, XIII, b 283; (Bulgarus), IV, *a* 463; (Gloss), X, b 612, note; (Roman Law), XX, a b 735; (Universities), XXIII, a 888, a 893

IRON, metal (Ill.), XIII, a 284-370
  analyses of cinder and pig, a b 314
  analyses of waste gases, a 316–7
  analysis of articles, a 284
  analysis of ores and metal, b 294–6
  analytical tables of iron and steel, a b 288
  appliances used in making malleable iron (Ill.), b 335–7
  basic process, a b 355
  Bessemer process, b 341–4
    Mushet process (Ill.), a 353
  blast-furnaces, construction of (Ill.), a 304–7
  blast, production of, b 308–10
  case-hardening, a b 351
  cast-steel (Ill.), b 350–1
  casting under pressure, a b 366

IRON, *continued*
  Catalan forge (Ill.), b 344–5
  cementation process, a 349–50
  chemical changes of blast-furnaces, a 317–19
  chemical and physical relations, b 285–7
  chromium steel, b 361–2
  classification of iron and steel, b 288–9
  classification of methods of reduction, a b 297
  cold and hot-blasts compared, b 325-6
  cold rolling (Ill.), b 339
  collection of cinder and pig, b 313
  constituents of iron and steel, effects of, a 289–91
  converters (Ill.), b 353–4
  crucible steel (Ill.), b 351
  economy of blast-furnaces, a 323–6
  fluxes and cinder, b 302-4
  foundry operations, b 365–6
  fuel, smelting, b 298–302
  furnaces, puddling (Ill.), a 329–30, b 331–4
  gaseous fuel (Ill.), a b 300–2
  gas-producers (Ill.), b 300, a 302
  hardening, tempering, and annealing, b 362–3
  heat in blast-furnaces, b 319–20
  Heaton process, a 344
  hematites, a 292-3
  history of manufacture, a 296–7
  hoists and lifts (Ill.), b 307-9
  hot-blast stoves (Ill.), a 310-11
  ironstone, a 294
  Jones's process, b 348–9
  labor-saving machinery in puddling (Ill.), a 330-1
  magnetic ores, a b 293
  malleable cast-iron, b 326-7
  malleable iron and steel, direct production from the ore (Ill.), b 344-9
  manganese bronze, a 362
  meteoric, a 291
  ores, classes of, b 291–4
  oxidation, surface protection from, b 366–8
  Pernot and Ponsard furnaces (Ill.), b 358–9
  preliminary treatment of ores (Ill.), b 297
  processes of puddling, a 334–5
  properties of, a 284–5
  puddling, b 328–9
  pure metal, preparation of, b 285
  pyrites, b 294
  refining and fining (Ill.), a 327–8
  relations between iron and steel, a 287–91
  rolling-mills (Ill.), a 337–9
  Siemens-Martin process, a 357–8
  Siemens's precipitation process (Ill.), b 346–8

IRON, *continued*
  Siemens's regenerative furnace (Ill.), a 301–2
  siliconeisen, b 361
  silicon-manganeisen, b 361
  spathic ores, b 293
  spiegeleisen and ferromanganese (Ill.), b 359-61
  spongy metal processes (Ill.), b 345-6
  statistics, a 368–9
  steel, puddled and natural, a 341
  temperature, effect on strength, a 365
    of blasts, a 311–2
    of blast-furnaces, b 322
  tenacity of iron and steel, a 363–4
  tungsten steels, a 362
  tuyeres (Ill.), b 312-3
  Uchatius process, b 356–7
  United States, a b 368, a 369
  utilization of cinder, b 314–5
  waste heat, utilization of, b 340
  waste gases, collection of (Ill.), a 315–6
  THERAPEUTIC USES OF, a 369–70

—— (Chemistry), V, a 462–4; (Cobalt), VI, b 75, *a* b 76, *a* 77; (Elasticity), VII, 708, a b 709; (Meteor), XVI, a 117, *a* 118; (Mineralogy), b 406–7, a b 409, b 414, a b 418, b 420, b 421, a b 422, b 423–4, a b 425, b 427–8, b 433, a 434; (Mineral Waters), b 453; (Zinc), XXIV, a 825

——, action of (Electricity), VIII, b 70, a 74; on lead (Building), IV, b 449; action of water vapor on (Sainte - Claire - Deville), XXI, a b 175; bisulphuret of (Mineralogy), XVI, b 394; bronzing (Bronze), IV, a 331; carburet of (Plumbago), XIX, a b 242

——, cast (Strength of Materials), XXII, b 627, a b 631, b 632, a b 634; conductivity of (Heat), XI, b 516, *b* 517, a b 518, a 523; diffusion through (Heat), *b* 519, a 523; durability of (Harbors and Docks), b 414

—— electrolytic (Magnetism), XV, a 263; magnetic (Pacific Ocean), XVIII, a b 130; manganiferous (Pacific Ocean), b 129–30; Meteoric, XVI, a 117, a 118; (Plumbago), XIX, b 242

——, mines and deposits of (Afghânistân), I, a 208; (Alabama), b 388, a 389; (Alais), b 390; (Algeria), a 498; (America), a b 597; (Asia Minor), II, a b 621; (Austria), III, b 104; (Belgium), *b* 452; (Biscay), b 683; (Bongo), IV, b 29; (Brazil), a 202; (Burmah), b 492, a 495; (California), b 622; (Ceylon), V, a b 314; (Charleroi), b 350; (China), a b 551, *a* 552, b

Iron, *continued* 555, a 556, a b 558; (Chutiá Nágpur), a 671, a 672; (Clackmannan), a 697; (Congo), VI, a 236; (Connecticut), a 255; (Cumberland), b 617; (Denbigh), VII, b 67; (Elba), a 717; (England), VIII, a 206-7; (Eure), a 590; (Fife), IX, a 132; (Finland), *b* 189; (France), b 461; (Greenland), XI, a 150; (Guipuzcoa), *a* 235; (Holland), XII, b 64; (India), b 775, a 803; (Irbit), XIII, a b 220; (Ireland), b 223; (Italy), a 452; (Jabalpur), b 538; (Japan), b 582; (Lugansk), XV, a 62; (Marne, Haute-), a 569; (Mexico), XVI, a 908, b 909; (Michigan), b 247; (Middlesborough), b 290; (Missouri), b 548-9; (Monmouth), b 780; (Moravia), b 836; (Narsinhpur), XVII, a 241; (New South Wales), b 419; (Nord), b 548; (Northampton), a b 569; (Norway), a 592; (Nova Scotia), b 616, a 617; (Ohio), a 756; (Ontario), b 796; (Pennsylvania), XVIII, a 511, b 512-3; (Prussia), XX, a b 19; (Pyrenees), b 134; (Savoie), XXI, b 347; (Somerset), XXII, b 271; (Spain), b 315; (Sweden), b 780; (Texas), XXIII, b 221; (Transvaal), b 550; (Ural Mountains), XXIV, a 8, *a* 10; (Washington), b 407; (Westphalia), b 545; (Wisconsin), b 651; (York), a *b* 784

——, plant absorption of (Physiology), XIX, a 56; sea corrosion of (Geology), X, b 252; spectrum of (Spectroscopy), XXII, a b 391; stability of (Building), IV, b 400, a 404; strength of (Hodgkinson), XII, b 43

——, submarine meteoric (Geology), X, b 255; telluric (Mineralogy), XVI, a 397; tempering by stress (Elasticity), VII, b 709; use of in Building, IV, a 404, a 405, b 407, b 416, a 422; in filtering (Water-Supply), XXIV, b 430; value of (Magnetism), XV, b 262; velocity of sound in (Acoustics), I, *a* 98

——, wrought (Metal-Work), XVI, a 81, b 83; (Strength of Materials), XXII, a 625, a 627, b 630, a b 631, a b 633, a b 634

—— age (Archæology), II, b 292, a b 293, b 297-300; (Anthropology), b 108; (Barrows), III, b 343; (Brooch), IV, b 332; (Cave), V, b 234; (Helmet), XI, a 569; (Metal-Work), XVI, a 77; (Norway), XVII, a 598

—— alloy (Gold), X, b 668

—— armor (Fortification) (Plate VIII), IX, b 398-401

—— Bridges, IV, a 300, b 301, b 307; cage (Piacenza), XIX, a 72

Ironclad battery (Stevens), XXII, b 927; ships (Anchor), II, 6, a 7, b 8; (England), VIII, a 223; (Europe), a 620; (Navy), XVII, a 292-7; (United States), XXIII, b 825; (War), XXIV, a 385

Iron coast (Morocco), XVI, b 857; coasts (Pas de Calais), XVIII, b 344; crown, Lombardy (Monza), XVI, b 824; Enamelling, VIII, b 169; filings (Magnetism), XV, a b 226; flint (Mineralogy), XVI, a 405

—— Gate (Derbend), VII, b 92; pass (Hissar), XII, *a* 5; pass (Macedonia), XV, a 138

—— Gates (Danube), VI, a 721, a 722; (Roumania), XXI, a 19

—— Grand Piano (Ill.), XIX, a 85

—— industries (Ayr), III, a 142; (Barrow-in-Furness), *a* b 341; (Creuzot), VI, b 508; (Darlington), a 729; (Dudley), VII, a 441; (Essen), VIII, a 486; (Fairbairn, Sir W.), b 744, a 745; (Founding), IX, *a* 423; (Fourchambault), a 431; (Germany), X, b 406, b 407-8; (Glamorgan), a 565; (Glasgow), a 576; (Hanover), XI, a b 399; (Königshütte), XIV, b 140; (Malstatt-Burbach), XV, a 341; (Merthyr Tydfil), XVI, a 46; (Meurthe-et-Moselle), a 213; (Monghyr), b 766; (Neviansk), XVII, b 378; (Nièvre), b 509; (Nijne-Taghlisk), b 513; (Nijni-Novgorod), b 515-6; (Pas de Calais), XVIII, a 345; (Pennsylvania), a 513; (Perm), b 561; (Pittsburgh), XIX, a 161; (Scotland), XXI, a 557; (Spain), XXII, *b* 315-6; (Stirling), b 581; (Sussex), a b 764; (Tredegar), XXIII, b 567, note; (United States), b 780, a 781, b 809, b 813, *b* 863, *a* 864, a 866-7, b 870; (Würtemberg), XXIV, b 736

—— liquor (Calico-Printing), IV, a 609

IRON MASK, XIII, b 370-1

—— Mining, XVI, a 489-92, a b 493. See Iron, mines of

—— mountain (Mining), XVI, b 461; (Missouri), a 549; (United States), XXIII, *b* 866; mountains (United States), b 844

—— ore (Mineralogy), XVI, a 386, a 392, b 401, a b 406, b 418

—— ores (Appalachian Mountains), II, a 176; (Australia), III, *a* 95; (Chili), V, a 541; (Coal), VI, a 49; (Ishpeming), XIII, b 396; (Mineralogy), XVI, a 386, a 392, b 401, a b 406, b 418; (New Jersey), XVII, b 406; (New York), b 465; (North Carolina), b 573, *a* 574, note, a 575; (Pennsylvania), XVIII, b 512-3; (Poland), XIX, b 319, a 322; (Russia), XXI, a 94; (Sweden), XXII, b 778; (Texas), XXIII, b 221; (United States), a 853, b 866-7; hæmatite (Michigan), XVI, b 247; (Mineralogy), b 401; (Mining), a 461, a 491; Laurentian (Geology), X, b 290-1; Ridge (Wisconsin), XXIV, b 650; spathic (Mineralogy) (Ill.), XVI, b 383, a 392; specular (Mineralogy), b 384, b 385, a 387, a 392, a 397, b 401-2, b 403. See Iron, mines of, Iron Pyrites and Ironstone

—— oxides, minerals (Geology), X, a 204; piers (Harbors and Docks), XI, b 415-6; platina (Mineralogy), XVI, b 398

—— Pyrites, XX, b 134-5; (Coal), VI, b 45, b 74-5; (Gold), X, b 660, b 667; (Mining), XVI, a 462, a b 489-90

—— retorts (Gas-Lighting), X, a 81, *a* 82; rod (Lightning Conductor), XIV, b 640; rust (Metals), XVI, b 75; Cement, V, a b 285

—— salts, printing with (Photography), XVIII, b 845, a b 852; sands (Iron), XIII, a 292, b 293; protective use of (Iron), a 367

—— ships (Magnetism), XV, b 253; (Navy), XVII, b 298; (Quarantine), XX, a 163; (Shipbuilding), XXI, b 852, a 853, b 854-5, a 859; rules for equipment of (Anchor), II, 5, note

Ironsides regiment (Cromwell), VI, b 529, a 530, b 531

Iron sleepers (Railway), XX, a b 254; springs (Mineral Waters) (Table), XVI, b 453

Ironstone (Geology), X, b 207; (Iron), XIII, b 297, b 298; (Mineralogy), XVI, b 414; (New Caledonia), XVII, b 385; (Pennsylvania), XVIII, b 512; black-band (Coal), VI, a 51; chrome (Chromium), V, b 612; (Iron), XIII, b 295; clay (Geology), X, b 260-1; (Iron), XIII, b 291, a 292, b 302, a 323; (Mineralogy), XVI, b 412; Cleveland (Iron), XIII, b 303, *a* 304, a *b* 323, *a* 324; Scotch (Iron), a 326, note

—— jewellery (Pearl), XVIII, b 459

Iron stoves (Heating), XI, a b 528; struts and pillars, strength of (Bridges), IV, b 289-90; supports (Mining) (Ill.), XVI, b 470

IRONTON, city, XIII, b 371

Iron Virgin, torture (Nuremberg), XVII, b 681; wheels (Clocks), VI, a 29; Wire, XXIV, a 648; conducting power of (Electricity), VIII, b 9

IRON-WOOD, XIII, b 371-2; (Hornbeam), XII, a 172

Iron-work (Metal-Work), XVI, a b 77, a 78, a b 81, a *b* 82, *b* 83; mediæval (Architecture), II, a 410

—— works. See Iron Industries

Irony of Fourth Gospel (Gospels), X, a 743

Iroquois Indians, XII, a b 865, b 867, *b* 871; (America), I, a 606; (Ethnography), VIII, b 544-5; (Montreal), XVI, b 821; (Mythology), XVII, a 160, a 163; (New York), b 465, a b 466, a 467; (Totemism), XXIII, a 497, b 502

—— legend (Cannibalism), IV, a 713; tradition (America), I, b 608

Irradiation (Eye) (Ill.), VIII, b 719-20; (Parallax), XVIII, b 250-1

Irrational functions (Infinitesimal Calculus), XIII, b 41-4; magnitudes (Pythagoras), XX, a b 148, note

Irreducible cubic equations (Algebra), I, a 484, a 485; functions (Numbers), XVII, b 638

IRRIGATION (Ill.), XIII, a 372-80
  bedwork, b 374-5
  catchwork (Ill.), b 375-7
  foreign, b 379-80
  grasses treated, meadow, a b 374
  history, b 380
  management, a 378
  reasons for, a b 372
  subterranean, a 377
  theory of, a b 379
  warping, a 377-8
  water, quality and quantity, a b 373

—— (Abana), I, a 12; (Agriculture), b 305-8, b 332-3, b 360; (Arabia), II, b 212, b 231; (Bundelkhand), IV, a 466; (Ceylon), V, *a* 320; (Damascus), VI, a 696; (Egypt), VII, a b 613, a 614; (Euphrates), VIII, a 587, a 588; (Godávari), X, b 636-7; (Herat), XI, a 637; (Hyderabad), XII, *b* 445; (Hydromechanics) (Ill.), b 500-3; (India), b 772, a b 792-3, b 805; (Jalandhar), XIII, b 555; (Japan), a 584; (Jumna), a 783; (Kandahar), a 846; (Káveri), XIV, *a* 21; (Khiva), a *b* 65; (Kistna River), a 105; (Lahore), a b 212; (Madeira), XV, b 178-9; (Madras), b 186, a 187; (Merv), XVI, b 47, a 48; (Mesopotamia), b 55; (Milan), a 304; (Mexico), a 911; (Mysore), XVII, b 130; (N. W. Provinces), b 586; (Nubia), b 626; (Punjab), XX, a b 114; (Spain), XXII, b 313; (Turkestan), XXIII, a 677; (Washington), XXIV, a 407; (Zerafshan), a 820; in Italy (Hydromechanics), XII, b 501; in Minorca (Balearic Islands), III, b 239

——, broad (Sewerage), XXI, b 746-7; sewage (Paris), XVIII, b 285; underground (Persia), a 632, b 642

Irrigation in Southern Europe (Hydromechanics), XII, b 502

Irritability of nerve fibre (Physiology), XIX, b 27; of protoplasm (Physiology), a b 17

Irritant Poisons, XIX, a 289-91

Irrotational motion (Hydromechanics), XII, b 463, a 467-8

Irtish river (Semipalatinsk), XXI, *a b* 671; (Siberia), XXII, b 9, a 10, b 14, *a* 17; (Tobolsk), XXIII, b 457
Irulas, tribe (Nilgiri Hills), XVII, b 522
IRUN, town, XIII, b 380
IRVINE, town, XIII, a 381; (Ayr), III, *a* b 142; (Glasgow), X, b 570; capitulation of, 1297 (Robert), XX, b 608; (Wallace), XXIV, b 347
IRVING, Edward, minister, XIII, a 381-3; (Scotland), XXI, b 563-4
IRVING, Washington, author, XIII, a 383-4; (American Literature), I, b 631, b 634, b 635-6, b 638; (Faber, Cecilia), VIII, a 730; (Goldsmith), X, b 680; (James, G. P. R.), XIII, a 571
Irvingia barteri, tree (Oils), XVII, a 768
Irvingites, sect (Catholic Apostolic Church), V, a 207; (Drummond, H.), VII, b 414; (Irving, E.), XIII, b 382-3
Irwan or Erivan, town, VIII, b 464
Irwell, river (Lancashire), XIV, a 253; (Manchester), XV, b 467
Irwin river (Western Australia), XXIV, *b* 535
Is, town (Hit), XII, a 27
Isa or Issa tribes (Somali), XXII, a 269
ISAAC, patriarch, XIII, b 384; (Abraham), I, a b 55, a 56; (Philo), XVIII, b 776; sacrifice of (Altar), I, b 562
ISAAC I., Comnenus, emperor, XIII, b 384-5; (Greece), XI, a 104
ISAAC II., Angelus, emperor, XIII, a 385; (Andronicus I.), II, b 22; (Greece), XI, a 106
—— of Antioch, poet (Syriac Literature), XXII, a 870
—— of Nineveh, monk (Syriac Literature), XXII, b 877
—— or Yishak, rabbi (Rashi), XX, b 296, note
Isaac's Anchor, II, *b* 7, a 8
Isaacson, biographer (Andrewes), II, *b* 20, a 21
Isaaki, Solomon. See RASHI
Isa al-Marwazī, lexicographer (Syriac Literature), XXII, a 891
'Isa Bágdur, royal gentleman (Gilgit), X, a b 533
Isabella II. of Portugal, empress (Charles V.), V, b 359, a 360, b 361, a 362
—— of Portugal, queen of Castile (Spain), XXII, a 336
ISABELLA I., the Catholic, queen of Castile and Leon, XIII, a b 385; (Columbus), VI, a 154, b 156, a 157; (Ferdinand V., Castile), IX, b 71, b 72; (Henry IV., Castile), XI, a 599; (Inquisition), XIII, b 99-101; (Miniature), XVI, b 459; (Slavery), XXII, a 146; (Spain), b 336, a 339, *a* 340-2, b 360
—— of Angoulême, queen, England (Costume), VI, a 413; (John), XIII, b 724
—— of France, queen, England (Costume), VI, b 413; (Edward II.), VII, *a* 593; (Orleans, Charles d'), XVII, b 875
—— of Bavaria, queen, France (Joan of Arc), XIII, b 706
—— of Spain, queen of Portugal, XIX, b 560; (Spain), XXII, a b 341
——, St., of Aragon, queen, Portugal, XIX, a b 558
—— II. of Spain (Alhambra), I, a 503; (Ambassador), a 579; (Army), II, b 536; (Bourbon), IV, a 158; (Clarendon), V, b 705-6; (Ferdinand VII.), IX, a 74; (France), b 551; (Palmerston), XVIII, b 198, b 199; (Prim), XIX, a 752; (Quintana), XX, b 193; (Spain), XXII, *b* 359, a b 360
—— of Austria, Clara Eugenia, duchess (Rubens), XXI, b 49, b 50
ISABEY, Jean Baptiste, painter, XIII, b 385-6
'Isa b. Músá, general (Mohammedanism), XVI, a b 602
Isac, river (Loire-Inférieure), XIV, b 817
Isacides, rabbi (Rashi), XX, a 296-8
ISÆUS, Greek orator, XIII, a 386-8; (Greece), XI, a 127
Isafjardardjúp, bay (Iceland), XII, a 651
Isagoge, Porphyry's (Scholasticism), XXI, a *b* 437
—— *in artem analyticam*, algebra (Vieta), XXIV, a 242
Isagoras, leader (Greece), XI, *a* 88
ISAIAH, prophet, XIII, a 388-95
    authorship, b 389
    chronology of the prophecies, b 388-9
    commentaries, b 394
    comparative exegesis, b 393-4
    final twenty-seven chapters, b 389-91
        analysis of, b 390-1
    first thirty-nine chapters, b 391-2
    personal history, a 388
    religious peculiarities of, b 392-3
    traditionalists, a 393
—— (Apocalyptic Literature), II, a 158; (Bible), III, a b 553; (Costume), VI, b 406; (Haggai), XI, *a b* 331, a 332; (Israel), XIII, b 418, a b 423-5; (Jeremiah), a b 638; (Job), a 714; (Messiah), XVI, b 58, a 59, a 60; (Micah), a b 233-4; (Moab), b 558, a 559, note; (Prophet), XIX, *b* 840, *a b* 841, b 842, a 843; (Zephaniah), XXIV, *a b* 819
Isaiah, Michaelangelo's statue (Schools of Painting) (Ill.), XXI, a 453
Isak race (Somali), XXII, a 269
Isàlo mountains (Madagascar), XV, a b 169
Isar river (Bavaria), III, b 389
Isatin, chemical substance (Indigo), XII, a 885
ISAURIA, province, XIII, a 395
Isbarta, town (Pisidia), XIX, b 139
Isblink, glacier (Greenland), XI, b 149
Iscanderun, town. See SCANDEROON
Isca Silurum, town (Caerleon), IV, *b* 561
Ischalis, military station (Ilchester), XII, b 740
ISCHIA, island and town, XIII, a b 395; (Naples), XVII, a 195 note
Ischium (Anatomy) (Ill.), I, a 727, b 729; (Ape), II, b 142; (Mammalia), XV, a 363
ISCHL, watering-place, XIII, b 395
Ischnogaster, genus (Wasps), XXIV, b 413
Iscla, island (Ischia), XIII, a 395
Isé, temples of (Pilgrimage), XIX, *a* 101
ISEGHEM, town, XIII, b 395
Iselin, Isaac, historian (Switzerland), XXII, b 836
Isenburg, counts of (Offenbach), XVII, *b* 752
Isengrim the Wolf (Germany), X, a 467, a 472
Isenheim altar piece (Grimewald), XI, a b 200
Isentropics (Heat), XI, a 509
Isepipteses (Birds), III, a 666
Iser river (Elbe), VII, a 717
ISÈRE, province, XIII, b 395-6
—— river, XIII, b 395-6; (Drôme), VII, a 407; (France), IX, b 457; (Grenoble), XI, a 165; (Romans), XX, a 746; (Savoie), XXI, *b* 347, *a* 348; valley (Irrigation), XIII, a 380
Isergebirge, mountains (Germany), X, b 403
Iserine (Mineralogy), XVI, b 401
ISERLOHN, town, XIII, a 396
ISERNIA, town, XIII, a b 396
Isert, Paul Edmond, traveller (Touraco), XXIII, a 518
Ishbaal, king (David), VI, b 738; (Israel), XIII, *b* 414
Ishbosheth, son of Saul (Abner), I, b 52
Isherwood, Benjamin F., engineer (Steam-Engine), XXII, a 507
Ishkaman valley (Gilgit), X, a 533, a 534
Ishkashm, town (Badakhshan), III, b 192, a 193
ISHMAEL, patriarch, XIII, b 396; (Abraham), I, b 54, a b 55, a 56; (Arabia), II, a 224; (Mecca), XV, a *b* 679; (Pentateuch), XVIII, a 518
—— ben Elisha, rabbi (Israel), XIII, b 438 note
Ishmaelites, race (Gipsies), X, b 546
——, sect. See Ismaelites
Ishō' bar Nōn, catholicus (Syriac Literature), XXII, a 892
Ishō'-dădh of Merv (Syriac Literature), XXII, a 892
Ishō'-dĕnah of Kasrā, bishop (Syriac Literature), XXII, b 888
Ishō' Maruzāyā, lexicographer (Syriac Literature), XXII, a 891
Ishō' Sabhran, martyr (Syriac Literature), XXII, b 885
Ishō'yabh of Arzon, catholicus (Syriac Literature), XXII, b 879, a 880, note
—— of Gĕdh, patriarch (Syriac Literature), XXII, a 885
—— of Hĕdhaiyabh, bishop (Syriac Literature), XXII, b 885, a b 886
—— bar Malkōn, bishop (Syriac Literature), XXII, b 896-7
Ishō'zĕkh of Rabban, monk (Syriac Literature), XXII, a 880
ISHPEMING, Mich., city and township, XIII, b 396
Ishtar or Istar, divinity (Babylonia), III, b 167; (Yemen), XXIV, a 778; (Zodiac), a b 830, a 831
Ishtib, town. See ISTIB
Isiacorum Portus, town. See ODESSA
Isidia, excrescences (Lichens), XIV, a 557, b 560
Isidias the Spartan (Eastlake), VII, b 532
Isidore of Charax. *Itinerary* of (Persia), XVIII, a 603, b 605
Isidorus of Miletus, architect (Constantinople), VI, b 271
ISIDORUS HISPALENSIS or Isidore of Seville, bishop, XIII, b 396-7; (Astrology), II, a 646; (Canon), V, b 13; (Encyclopædia), VIII, b 174; (Goths), X, a 757; (Hincmar), XI, a 747; (Hymns), XII, b 615, a 616; (Map), XV, b 524; (Ornithology), XVIII, b 7; (Pen), a 494, note; (Ptolemy), XX, a 92; (Salic Law), XXI, *b* 226; (Scholasticism), b 437
Isidorian Decretals (Canon Law), V, b 16-7, b 21; (Hincmar), XI, a 747; (Nicholas I.), XVII, a 497; (Popedom), XIX, b 505, a b 507, a 511, b 513, a 522
Isigny, town (Butter), IV, b 526; (Calvados), b 631
Isinglass (Adulteration), I, a 156; (Chemistry), V, a 503; (Gelatin), X, a 119, a 120; (Ichthyology), XII, a 704; (Sturgeon), XXII, a 644
Isis, genus (Corals), VI, a 342, a 343
——, goddess (Busiris), IV, a 514; (Egypt), VII, *a* 620, *a* b 621, a 622, note; (Io), XIII, b 208; (Mysteries), XVII, b 135; (Mythology), a 158; Temple of (Pompeii), XIX, a 462
——, river (Oxford), XVIII, b 96, a 98; (Thames), XXIII, b 238
Isis, periodical (Oken), XVII,
Isis and Osiris (Plutarch), XIX, b 245
Isis-headed columns (Architecture), II, b 342
"Iskander," pseudonym (Hertzen), XI, a 691
—— Beg, patriot. See SCANDERBEG
—— Muda, sultan (Achín), I, a b 90, a 91

Iskardoh, gorge of (Indus), XII, b 888
ISKELIB or Eskilup, town, XIII, a 397
Iskenderun, town. See SCANDEROON
Isker, town (Tobolsk), XXIII, b 458
Iskimid, town. See ISMID
Iskorost, city (Russia), XXI, *a* 97
Isla, river (Forfar), IX, *b* 361
ISLA, José Francisco de, satirist, XIII, a b 397; (Spain), XXII, b 374
——, Rodrigo de, explorer (Patagonia), XVIII, b 358
—— d'Amat (Tahiti), XXIII, a 27, b 29
—— de Leon, city (San Fernando), XXI, b 274
—— del Norte (Chincha Islands), V, a 584
—— de los Faisanes (Guipuzcoa), XI, a 235
Islam. See MOHAMMEDANISM
ISLÁMÁBÁD, town, XIII, b 397; (Chittagong), V, b 586
Islands, continental (Mediterranean Sea), XV, a 829, note; mythical (Brazil, Island), IV, a b 216; (Celtic Literature), V, b 282-3
Isla Verde (Brazil, Island of), IV, *a* 216
ISLAY, island, XIII, b 397; (Argyllshire), II, a *b* 439, a b 440, a 441; (Hebrides), XI, *a* b 542
Islebia, town. See EISLEBEN
Isle of Avalon (Somerset), XXII, a 271, b 272
—— of Caphtor (Greece), XI, a 82
—— of Dogs, peninsula (Middlesex), XVI, b 291; (London), XIV, a 827, *b* 840, a 842
—— of France (Mauritius), XV, a 646-8
—— of Man. See MAN, Isle of
—— Oronsay (Lighthouse) (Ill.), XIV, b 630
—— of Pines (New Caledonia), XVII, b 335
—— of St. Jean (Prince Edward Island), XIX, b 758, b 760
Islemniye or Islimye, town. See SLIVEN
Islendinga Saga (Iceland), XII, b 661
Isletta tribes (Indians), XII, a 865, a 867
Islington, parish (Abattoir), I, b 13, a 14; (London), XIV, a b 827, a b 829, a 830, b 838, a b 842, b 856, a 858, a 861
Islip, Simon, archbishop (Wycliffe), XXIV, b 744
Ismaelites, Ismailians or Ismá‘ilia, sect (Assassins), II, b 631, a 632; (Mohammedanism), XVI, b 615; (Seljuks), XXI, *a* 667; (Shi‘ites), XXII, a 700
Ismaël Pacha, governor (Charles XII.), V, a 365
ISMAIL, town and district, XIII, a 398
Isma‘il I., sháh (Persia), XVIII, b 645, a 646-7, a 652; (Shi‘ites), XXII, b 698
—— II., sháh (Persia), XVIII, a b 648
—— ben, Ahmad, king (Sámánid Dynasty), XXI, b 233
—— ben Ali pasha (Egypt), VII, a b 663
Ismail Cengic, Death of the Agha (Servia), XXI, a 724
ISMAILIA, Egypt, town, XIII, a 398; (Port Said), XIX, b 548; (War), XXIV, a b 370, note
ISMAILIA or Gondokoro, mission-station, XIII, a 398
Ismailians or Ismá‘ílíya, sect. See Ismaelites
Ismail Khán, chief (Jhang), XIII, a 701
—— Pasha, khedive (Canal), IV, b 698; (Egypt), VII, a b 665, b 680, a b 681; (Slavery), XXII, b 152
ISMID, Iskimid or Isnikmid, town, XIII, b 398; (Bithynia), III, b 688; (Nicomedia), XVII, a 504; gulf (Bithynia), III, b 688
—— Opium, XVII, *b* 811
Isnè, Esneh or Latopolis, town, VIII, b 483; (Egypt), VII, b 678; calendar (Egypt), a 632
Isni or Aulabár, town (Tiflis), XXIII, b 411
Isnik, town (Nicæa), XVII, a 490
Isoama dialect (Ibo), XII, a 645
Isobars, lines of equal pressure (Climate), VI, a 7; (Meteorology) (Ill.), XVI, a 144, b 148, b 152, a 161, a 187; (Norway), XVII, b 593
Isochasmic curves (Aurora), III, a b 85
Iso-chromatic films (Photography), XVIII, b 851
Isochronism (Clocks), VI, a b 14; (Hodograph), XII, b 45; of governor (Steam-Engine), XXII, a b 530
ISOCRATES, orator, XIII, b 398-404
  bibliography, b 403
  character of, a b 401
  death and epoch of, a b 400
  early history of, b 398-9
  political period of, b 399
  scholastic period of, a 399
  style of, a 402
  writings, b 402-3
—— (Greece), XI, a 127; (Persia), XVIII, a 592; (Rhetoric), XX, b 523-4; (Sophists), XXII, *b* 278, *a b* 281, a 282, a b 283; (Theopompus), XXIII, b 297
—— of Apollonia, orator (Isocrates), XIII, b 399
Isocrymes (Pacific Ocean), XVIII, b 122
Isocyanates (Chemistry), V, a 499
Isocyanides (Chemistry), V, b 481, a 482, b 499; (Methyl), XVI, a 205
Isodynamic surfaces (Magnetism), XV, a 249
Isoetes, group (Botany), IV, b 95, b 103, a 127, b 146; (Ferns), IX, b 94; (Vegetable Kingdom), XXIV, a *b* 141, b 142, *a* 143
Isogamous reproduction (Vegetable Kingdom), XXIV, a 137
Isola Bella (Borromean Islands), IV, b 57
—— Farnese, town (Etruria), VIII, b 557
—— Madre (Borromean Islands), IV, b 57
Isolating languages (Grammar), XI, b 35; (Philology), XVIII, b 787-8
Isologous organic compounds (Chemistry), V, b 478
Isomastigoda, order (Protozoa), XIX, b 881-3
Isomeric alcohols (Chemistry), V, a b 488, a b 489
Isomerides, benzine (Chemistry), V, a b 486; olefine (Chemistry), V, a 485
Isomerism (Allotropy), I, a 517; (Chemistry), V, b 476-7; (Paraffin), XVIII, b 241; (Tartaric Acid), XXIII, b 75; (Wöhler), XXIV, a 660; in organic acids (Chemistry), V, b 493-4
Isomorphism (Chemistry), V, a 408; (Crystallography), VI, b 597; (Mineralogy), XVI, a 395; (Mitscherlich), a b 555
Isomya, order (Mollusca), XVI, a 711; (Teredo), XXIII, a *b* 201
Iso-no Zenji, dramatist (Drama), VII, a 348
Isonzo, river (Austria), III, a 101; (Görz), X, a b 700; (Italy), XIII, a 446
Isoparaffins (Chemistry), V, b 483, a 484
Isoperimeters, process of (Squaring the Circle), XXII, b 452
Isoperimetry (Bernoulli), III, b 522; (Pythagoras), XX, b 148; theorems (Maxima and Minima), XV, a *b* 650; (Variations), XXIV, a b 95
Isophthalic acid (Phthalic Acid), XVIII, a 869
Isopleura gastropoda (Mollusca) (Ill.), XVI, a 664-7
Isopoda, group (Crustacea), VI, b 561, a 563, note, a 564, b 566, b 567, b 568, a *b* 572, a b 573, b 574, note, b 578, b 579, b 580 note, b 582, b 583, a 584
Isoprene, oil (India-Rubber), XII, a 881
Isopropyliodide (Glycerin), X, b 623
Isopurpuric acid (Carbolic Acid), V, b 76
Isosceles triangle (Geometry), X, b 335-6, a 340
Isosoma, insect (Hymenoptera), XII, b 610-11
Isothermal expansion (Steam-Engine), XXII, a 499, a 504; Carnot's cycle (Thermodynamics), XXIII b 304
Isotherms (Atlantic Ocean), III, a b 20; (Baltic), b 254; (Humboldt), XII, b 357; (Meteorology) (Ill.), XVI, a 119, b 137-41; (Norway), XVII, a 593; (Norwegian Sea), a 608; (Pacific Ocean), XVIII, b 121, b 122; (Pneumatics), XIX, a b 256; (Russia), XXI, b 83; (Scotland), b 550; (Siberia), XXII, a 11; (United States), XXIII, a 854-6; bathymetrical (Atlantic Ocean), III, b 21-2, b 23; (Pacific Ocean), XVIII, b 123
Isotropic substances (Elasticity), VII, b 697, a b 698-9, b 716; (Electricity), VIII, b 39; (Magnetism), XV, a 245, b 246, a b 248, a b 250-1; elasticity of (Wave Theory), XXIV, b 443-4, b 470
ISPAHÁN or Isfahán, city, XIII, a 404-6; (Opium), XVII, *b* 813, a 814; (Persia), XVIII, a 638, a 639, b 640, a 643, a b 651; Bridge at, IV, b 299
Ispalis, town. See SEVILLE
Ispravnik, magistrate (Russia), XXI, b 77
ISRAEL, XIII, a 406-41
  Amos, a 420-1
  Assyrian overthrow of, b 421-2
  David, a 414-15
  dispersion, a b 439
  exile, a b 427
  Exodus period, b 406-7
  Ezra, time of, b 428
  Hasmonæans, b 431-3
  Herod the Great, a 435-6
  historical authorities, a b 441
  Idumæan rulers, b 434-6
  invasion of Palestine, a b 410
  Isaiah, period of, a 423-4
  Jehu dynasty, a 418
  Jeremiah, time of, b 425-7
  Judah, kingdom of, b 422
  Judaism, development of, b 429-30
  judges, period of, a 412-3
  Law, Mosaic, b 409-10
  Manasseh, a b 425
  Mediæval Jews, a 440-1
  Omri, house of, b 416-8
  origin, a 406
  Pharisees and Sadducees, b 433-5
  Ptolemies, the, a 430
  Rabbinical Judaism, a 438-9
  restoration, b 427-8
  Religion, mosaic, a 408-9
  Roman province, b 436-8
  Samaria, kingdom, secular features of, a 418-9
    religious features of, b 419-20
  Saul, a 413-4
  Seleucidæ, b 430-3
  Sennacherib, invasion of, b 423-4
  separation of ten tribes, a 416
  settlement, permanent, a b 411
  Solomon, b 415-6
  unification of, b 407.
 See Hebrews, Jews
—— (David), VI, b 739, a 740; (Hosea), XII, a 310-1; (Kings), XIV, b 85-8; (Lamentations), b 241-3; (Levites), a 489; (Prophet), XIX, a b 839, *a b* 840, a b 841, a b 842, a b 843; (Palestine), XVIII,

Israel, *continued* b 180; lost tribes of (Eldad ben Malchi), VII, b 718; place in history of (Ewald, H.), VIII, a 678; religion of (Bible), III, a 548 *sq.*; (Theism), XXIII, a 258; restoration of (Isaiah), XIII, b 388, b 389-91, a b 393. See Israelites
——, histories of, XIII, b 413-4, b 441; (Hitzig), XII, b 30
——, servant of Jehovah (Isaiah), XIII, b 392
—— Baal Shem or Besht, sectary (Jews), XIII, b 691-2
—— Dehn, pseudonym (Norway), XVII, a 606
Israel in Egypt, oratorio (Handel), XI, *b* 389; (Stradella), XXII, a 613
Israelites, race (Afghânistân), I, a 212, b 213, a 214; (Agriculture), a b 260; (Ammonites), b 651; (Amorites), a 655; (Canaanites), IV, a b 674, a b 675; (Circumcision), V, a *b* 690, a 691; (Egypt), VII, a b 643, a 644; (Hebrew Language and Literature), XI, a 531; (High Place), a b 725; (Hor), XII, a 163; (Palestine), XVIII, a 175, b 177, a b 179, a b 180; (Phœnicia), b 820; (Semitic Languages), XXI, *a* 674, a 675, a 677. See ISRAEL
Issa, ancient town. See LISSA
ISSACHAR, tribe, XIII, a 442
Issaron in Weights and Measures, XXIV, b 512
Issedones, tribe (Cannibals), IV, a 713; (Scythia), XXI, a 604; filial duties of (Sacrifice), b 145, note.
ISSIK-KUL, lake, XIII, a 442; (Semiryetchensk), XXI, *b* 672; (Turkestan), XXIII, a 674
ISSOIRE or Issiodurum, town, XIII, a b 442
ISSOUDUN, town, XIII, b 442
Issue-peas (Orange), XVII, b 835
Issus, town (Cilicia), V, *b* 679; battle of, 333 B.C. (Alexander the Great), I, a b 426; (Greece), XI, a 94
Issus, Battle of (Mosaic) (Ill.), XVI, a 878
Istaby inscription (Scandinavian Languages), XXI, a 383
Issy, articles of (Guyon), XI, b 306
Istævones, tribes (Germany), X, *a* 425, b 426
Istakhr, city (Mohammedanism), XVI, b 589; (Persepolis), XVIII, a 570, b 571, note, a 572; (Persia), a b 618, a 627
Istakhri, Al, traveller (Geography), X, *a* 159
Istalif, town (Afghânistân), I, a 207
Istamboul. See CONSTANTINOPLE
Istanchio, island. See Cos
Istapa, town (Guatemala), XI, a 214
Istar, goddess. See Ishtar
ISTHMIAN GAMES, XIII, b 442; (Corinth), VI, b 354; (Games), X, a 59; (Greece), XI, b 88; (Rome), XX, b 767
Isthmus of the fauces (Anatomy), I, b 734; of fish (Ichthyology), XII, b 673
ISTIB or Ishtib, town, XIII, a 443
Istoricheski Viestnik (Russia), XXI, b 117
Istorie Fiorentine (Machiavelli), XV, b 151-2
ISTRIA, province, XIII, a b 443; (Greece), XI, a 86
——, Dora d', authoress (Greece), XI, b 136
Istrianorum Portus. See ODESSA
Istriones, actors (Drama), VII, a 354
Istrogranum, town (Gran), XI, b 40
Istulia, river. See VISTULA
Isurium, town (Aldborough), I, a 418
Isus of Helice, founder (Sybaris), XXII, b 843
Isvara, demiurge (Vedanta), XXIV, *a b* 129, a 130
Itabirite, mineral (Gold), X, a 662
Itacolumi, mountain (America), I, b 589, a 590; (Brazil), IV, b 199; (Ouro Preto), XVIII, a 78
Itacolumite, rock (Brazil), IV, a 202; (Mineralogy), XVI, b 396
Itajahy, colony (Brazil), IV, b 211
Italian, novel (Radcliffe), XX, *a* 218
Italian allies, ancient enfranchisement of (Rome), XX, b 777, a b 778, b 780, a b 782
—— Architecture (Plates XXI-XXIV), II, a 372, a 380-7, b 398; (Etruria), VIII, a b 560, a 562; (Lombards), XIV, b 825; (Malta), XV, a b 343; (Orcagna), XVII, b 838-9; (Palermo), XVIII, b 173, a 174; (Palladio), b 191-2; (Pistoia), XIX, a 141; (Raphael), XX, a b 293; (Ravenna), b 308-9; (Venice), XXIV, a 160-9; (Verona), a 187. See Architecture and Roman Architecture
—— Army, II, a 535-6; XIII, a b 468; (Arsenals), II, a 555
—— art (Archæology), II, b 320; (Carving), V, a 147; (Enamels), VIII, b 168; (Fan), IX, b 25, a 26; (Fresco), a 676, *a* 681; (Glass), X, b 596-600, a 601; (Illumination), XII, b 747; (Metal-Work), XVI, a 80; (Miniature), a 457, a 458, b 459; (Mural Decoration) (Ill.), XVII, a 41, a b 49-50; (Niello), a 508; opera (Music), b 94, a b 100, a 106; (Plate), XIX, b 194-5; (Pottery) (Ill.), a 633-5, a 643-8; (Schools of Painting) (Ill.), XXI, a 451-7, a 462-3, a 465, a b 466, b 467-8; (Sculpture) (Ill.), a 594-7; (Tempera), XXIII, b 173-4; (Terra-Cotta) (Ill.), b 211-2; (Textiles) (Ill.), b 227-8; (Wood-Carving) (Ill.), XXIV, a b 682; history of (Vasari), XXIV, b 102-3
—— cartography (Map), XV, b 525-7, b 528
—— cities, mediæval, XIII, a 482-3; (Guelfs), XI, a b 217; (Lombards), XIV, a b 825; (Nobility), XVII, a b 542. See Italian Republics
—— *Civil Code*, VI, b 96
—— Coins, XIII, a 477; (Numismatics), XVII, b 652-3, a 673, b 675-6; (Money), XVI, b 750
—— Drama. See Drama, Italian
—— economists (Political Economy), XIX, b 374-6, b 400, a b 408, b 415; (Protection), b 941
—— Fisheries, XIII, b 451, b 464-5; (Oyster), XVIII, b 111, b 113
—— Hemp, XI, *b* 578
—— Historians and Histories, XIII, a b 519, a 522, a b 524, b 525; (Botta), IV, a 150; (Ginguené), X, a b 539; (Guicciardini), XI, a 227-8; (Jovins), XIII, b 766, a 767; (Machiavelli), XV, a 150-2; (Sismondi), XXII, *a* b 107; versified forms, XIII, a 516. See specific titles of treatises
—— influence, ecclesiastical (Trent, Council of), XXIII, a 580, a 586, note; (Vatican), XXIV, a 122, a 123; on English literature (Shakespeare), XXI, b 793-4, *b* 797, b 799
—— Labyrinth, XIV, a 181
ITALIAN LANGUAGE, XIII, a 501-9; (Dante), VI, a 716, a 717; (Dictionaries), VII, b 159, a b 161; (Europe), VIII, b 614; (Latin), XIV, a b 327, a b 332, a 342, note; (Philology), XVIII, a 798, a b 799, note; (Sicily), XXII, b 30-1; vowels in (E.), VII, a 508. See Romance Languages
—— Learned Societies, XXII, a b 236, a b 237, b 238, a b 239, a b 240; (Academy), I, b 71-2
ITALIAN LITERATURE, XIII, a 509-26; (Ariosto), II, a b 443; (Boccaccio), III, b 734; (Dante), VI, a 716-21; (Foscolo), IX, b 416-7; (Ginguene), X, a b 539; (Jovius), XIII, b 766, a 767; (Lanzi), XIV, b 292; (Leopardi), b 464-5; (Manutius), XV, b 520, a b 521; (Manzoni), a b 522; (Medici), a 797; (Palæography), XVIII, a 165; (Petrarch), b 722-5; (Renaissance), XX, a b 396-7; (Tasso), XXIII, a 82-5; (Tiraboschi), a 434; language of, XIII, a 507-8
—— mountain (Colorado), VI, b 145
—— Poplar, XIX, b 526
—— Republics, XIII, b 481, b 482, a 490; (Aristotle), II, a 456; (Numismatics), XVII, a 673; *history of* (Sismondi), XXII, *a* b 107. See Republics
—— Shorthand, XXI, a b 881
—— Theatres, XXIII, *b* 243
—— Universities, XXIII, a 888-9, b 891-3, b 899-900, b 907
—— war of Napoleon III. (Austria), III, b 120. See Franco-Austrian War.
Italian War and Mission of Prussia (Lassalle), XIV, a 321
Italians, character of (Italy), XIII, b 458, b 464, b 466
Italic type (Bibliography), III, b 565; (Typography), XXIII, b 739
Italica, town (Rome), XX, a 778
Italiotes, people (Græcia Magna), XI, a b 28
ITALY, country (Plates IV-VI), XIII, a 443-526
GEOGRAPHY and STATISTICS, a 443-77
agricultural methods, b 459-62
area and population, a 457-9
army and navy, a b 468
banks, a 476-7
beneficence, a 472-3
bibliography, b 477
central, a 447-8; primitive tribes of, a 453
climate, a 450-1
commerce, b 465-7
communication, systems of, a 467-8
consolidation. Roman, a b 456
crops, a 451-2, a 459-60
currency, a b 477
divisions, political, a b 457
education, a 470-2
finance, a 475-6
fisheries, b 464-5
geology, a b 452
islands, a 450
judicial administration, a b 473
lakes, b 449-50
land tenures, b 461-2
live-stock, a b 461
local administrations, a 474-5
lower classes, a 465
manufactures, b 462-4
Northern, b 444-7; primitive tribes, a 455-6
political administration, b 473-5
products, natural, b 450-2
religion, b 468-9
religious foundations, a 469-70
shipping, a 467
Southern, b 448-50; primitive tribes, a 453
statistics, a 457-77
textile industries, a 462-4
titles, b 477
topography, a 443-50
vital statistics, a 458-9
HISTORY, a 477-501
age of invasions, a 491-2
Angevine house, decline of, b 488
Bourbons, restoration of the, b 495-6

ITALY, *continued*
- HISTORY
  - Charles V., period of, a 492–3
  - companies of adventure, b 487–8
  - extinction of ducal families, a 494
  - fall of the Western Empire, b 477
  - federated powers, b 490–1
  - Florence of the Medicis, b 489, a 491
  - Franconian emperors, a 480
  - Frankish emperors, a 479
  - Frederick Barbarossa, a b 483
  - —— II., emperor, a b 485
  - free cities, rise of, a 482–3
  - Gothic and Lombard kingdoms, a 478
  - Guelf and Ghibelline wars, a b 486
  - Innocent III., a 485
  - Investitures, war of, b 481–2
  - Lombard League, a 484
  - Mazzini and Cavour, a 497–500
  - Milan, duchy of, under the Visconti, a b 489
  - Naples, extinction of Hohenstaufen line, b 485–6
  - Napoleon I., period of, b 495
  - Papacy, fourteenth and fifteenth centuries, b 490
  - Pius IX., a 498
  - Podesta, rise of, b 484
  - revolution of 1848, a b 498
  - revolutionary period, b 496–7
  - Savoy, duchy of, a 493
  - Saxon emperors, a b 480
  - tyrannies, rise of, a 487
  - union under house of Savoy, b 500–1
  - Venice, decay of, a 494; republic of, a 490
  - Victor Emmanuel, a b 499
  - wars of succession, period of, b 494–5
- INDEX, 526
- LANGUAGE, a 501–9
  - Corsican, b 504–5
  - dialects of Umbria and the Marches, b 506–7
  - Franco-Provençal dialects, a b 502
  - Gallo-Italian dialects, a 503
  - Latin dialects, b 502–3
  - literature, b 508
  - Neapolitan, b 505–6
  - Sardinian dialects, b 503–4
  - Sicilian, a b 505
  - Tuscan, a 507–8
  - Venetian, b 504

ITALY, *continued*
- LITERATURE, a 509–26
  - Boccaccio, b 514–5
  - contemporary period, a 525–6
  - Dante, b 512–4
  - decadence period, a b 521
  - development of the Renaissance, a 519–21
  - eighteenth century revival, a 522–5
  - fourteenth century, b 512–16
  - genius of mediæval Italy, a 509
  - patriotism and classicism, a 523–4
  - Petrarch, a 514
  - Purists, b 524–5
  - Renaissance, b 516–9
  - rise of vernacular literature, a 510
  - thirteenth century poetry, a 510–11; prose, b 511–2
  - Tuscan school, a 511, b 512

—— (Ballot), III, a b 251; (Bible Societies), b 562; (Brochi), IV, b 322; (Coal), VI, b 55; (Condottieri), a b 227; (Corn Laws), a b 366; (Cotton), b 433; (Fig), IX, a 135; (Forests), b 349, a b 350, b 354–5; (Fortification), b 391; (Foundling Hospitals), a b 426; (France), *a* 480, b 488–9, b 549–50; (Frederick I., Emperor), b 641–3; (Germany), X, a 434, b 435–6, b 458; (Græcia Magna), XI, a b 28; (Ichthyology), XII, b 667, a 671; (Innocent III.), XIII, a 90; (Inquisition), b 99, a 101; (Irrigation), a 380; (Jews), a 696

—— (Libraries), XIV, a 514, a 527–30, a 550–1; (Liquor Laws), b 695; (Meteorology), XVI, b 147; (Metternich), b 208, a 210; (Military Law), a 312; (Mining), b 490; (Monachism), b 739, a 741; (Napoleon I.), XVII, a 202, b 203–7; (Napoleon III.), a b 234; (National Debt), a 253, 254; (Navy), a 300, b 308, *a* 309; (Newspapers), a b 423, a b 442; (Observatory), a b 734; (Olive), *b* 783, *a* 785; (Paper), XVIII, a 222; (Patents), a b 363; (Periodicals), a b 553

—— (Post-Office), XIX, a b 600, b 601; (Press Laws), b 732–3; (Prison Discipline), b 780; (Railway), XX, b 262; (Reformation), a 341–2; (Renaissance), *b* 393, a 394, a 396–400, a 401, a b 402; (Savings Banks), XXI, b 346–7; (Sicily), XXII, a b 19, a 20, b 27, a b 28, a 29, a 30, b 32; (Silk), *a b* 71, a b 72; (Slavery), b 145; (Suicide), b 662, *a* b 663, a 664, *a* 665; (Switzerland), a b 824, a b 828; (Technical Education), XXIII, a 116, a 117; (Torture), b 495–6; (Weights and Measures), XXIV, b 514, a b 516; (Wines), *a* 636, b 642–3

——, ancient use of name (Italy), XIII, a b 453, a 456; coast of (Geology), X, a 247; colonies of (Greece), XI, a 86; conquest of (Rome), XX, b 757–63; early printing in (Typography), XXIII, a 729; expulsion of the Goths, X, a *b* 756

——, independence of United, XIII, a 497–501; (Azeglio), III, a b 145; (Cavour), V, b 238–40; (Manin), XV, a b 496; (Mazzini), a 661–3; (Palmerston), XVIII, a 200; (Panizzi), b 216, a 217; irrigation in (Hydromechanics), XII, b 500–1; under Augustus (Rome), XX, a b 790. See Italian

Italy, poem (Rogers), XX, b 637; (Turner), XXIII, *b* 708

Itamaracá, town (Pernambuco), XVIII, a 563

Itamara Sabai, prince (Yemen), XXIV, a 777

Itambe mountain (Brazil), IV, b 200

Itanus, town (Phœnicia), XVIII, *b* 818

Itaparica island (Bahia), III, a 207

Itapéra bay (Madagascar), XV, a 169

Itapicurú, town (Brazil), IV, a 201

Itard, Jean Marie Gaspard, physician (Seguin), XXI, a 916

Itasca, lake (Minnesota), XVI, a 498

Itàsy, lake (Madagascar), XV, a 170

Itatiaiossú, mountain (Brazil), IV, a b 200

Itch, disorder (Homœopathy), XII, b 129, b 131; (Medicine), XV, b 823; (Parasitism), XVIII, a 275; (Skin Diseases), XXII, b 131. See Itch-mite, Psoriasis, Scabies

Itchen river and suburb (Southampton), XXII, b 295

Itching river (Hampshire), XI, b 384

Itch-mite (Arachnida), II, a 242; (Mite) (Ill.), XVI, b 552

Iter per patriam (Iceland), XII, a 663

—— *subterraneum* (Holberg), XII, *b* 59

ITHACA, island, XIII, a b 527; (Ionian Islands), b 211, a 212; (Numismatics), XVII, a 660; discoveries in (Plate), XIX, b 191

ITHACA, N. Y., XIII, b 527

Ithacius of Ossonuba, bishop (Priscillianists), XIX, *a* 766

Ithná-'Ashiríya, sect (Shi-'ites), XXII, b 698

Ithobal or Ethbaal I., Tyre (Ahab), I, a 373; (Phœnicia), XVIII, b 820

—— II., Tyre (Phœnicia), XVIII, b 821

Ithomæa, festival (Messene), XVI, b 57

Ithome, mountain (Greece), XI, a 74, a 93; (Messene), XVI, a b 57; (Messenia), a 58

—— of Homer (Meteora), XVI, b 119

Ithon river (Radnor), XX, a 224

Itil, capital (Khazars), XIV, *a* 61, a b 62

Itinerancy (Jesuits), XIII, a 657; (Methodism), XVI, b 194–5, b 197, b 200

Itineraria Picta (Itinerarium), XIII, b 527

—— *Scripta* (Itinerarium), XIII, b 527

ITINERARIUM, book, XIII, b 527–8; *Alexandri* (Romance), XX, *a* 656; *Johannis Abbatis* (Malmesbury), XV, b 339; *Septentrionale* (Gordon, A.), X, *b* 695

Itinerary, Morison's (Magpie), XV, a 287

Itinerary of a Chinese Traveller (Klaproth), XIV, a 109

ITIUS PORTUS, XIII, a 528

Itsch Ili, district (Cilicia), V, b 678

Itsmiadsin, town. See ETCHMIADZIN

ITURBIDE or Yturbide, Augustin de, emperor of Mexico, XIII, a b 528; (America), I, a 623; (Mexico), XVI, a b 228, b 897; (Santa Ana), XXI, *a* 905

Itys (Holland), XII, b 97

Itzamal, town of Yucatan, XXIV, b 796, a 797; (America), I, a 618

ITZEHOE, town, XIII, b 528–9

Itztli, mineral (Obsidian), XVII, a 738

Iuka, battle of, 1862 (Grant), XXIII, a 838

Iulis, city (Ceos), V, b 298

Ivan, lake (Don), VII, *b* 308

IVAN I., Kalita, grand-duke, Moscow, XIII, a 529; (Russia), XXI, b 99

IVAN II., grand-duke, Moscow, XIII, a 529; (Russia), XXI, b 99

IVAN III., the Great, grand-duke, Moscow, XIII, a 529; (Moscow), XVI, a 887; (Novgorod), XVII, a 623; (Poland), XIX, b 301; (Russia), XXI, b 99–100

IVAN IV, the Terrible, grand-duke and czar, XIII, a b 529; (Moscow), XVI, a 887; (Novgorod), XVII, a 623; (Poland), XIX, b 301, a 302, a b 303; (Russia), XXI, b 100–1, *b* 111

IVAN V., czar, XIII, b 529; (Peter I.), XVIII, a 712; (Russia), XXI, a b 105

IVAN VI., czar, XIII, b 529; (Catherine II.), V, a 204; (Russia), XXI, a b 107

—— the Black, prince of Montenegro (Cettinje), V, a 311

Ivancica, mountain (Croatia), VI, a 523

Ivangorod, town (Poland), XIX, b 323

Ivanhoe, baths (Ashby-de-la-Zouch), II, a 596

IVANOVO-Voznesensk, town, XIII, a 530; (Shuva), XXI, a 889

Ivar, Widfadme, king (Ireland), XIII, b 258–9; (Sweden), XXII, a 783

Ivel river (Dorset), VII, a 321
Ivernia, island (Ptolemy), XX, b 99
Ives's exploration (Surveys), XXII, a 936
Iviça or Iviza, island and town (Balearic Islands), III, a 239, a 240
Ivigtut, village (Greenland), XI, a 150, a 151, b 152
Ivo of Chartres, bishop (Canon Law), V, b 17
IVORY (Plate VII), XIII, a 530-4
  carvings, a b 533
  commercial, b 531
  description of, a 530
  industrial applications, b 533-4
  mechanical treatment, a b 532
  sources of, b 530-1, a b 532-3
  vegetable, b 534

— (Bleaching), III, a 715; (Ismailia or Gondokoro), XIII, a b 398; (Mammalia), XV, a b 352; (Mammoth), a 455; (Narwhal), XVII, b 241
IVORY, James, mathematician, XIII, b 534-5; (Capillary Action), V, b 51; his theorem, XIII, a 535
— -black, pigment (Ivory), XIII, a 534
— -carving, V, b 146-7; (Sculpture) (Ill.), XXI, b 582-3, a 584, note; Nineveh (Mosaic), XVI, b 876
IVORY COAST, XIII, a 535; (Africa), I, *b* 207, a b 208, *a* 209, a 241
— Gull, XI, a 243
— tablets (Palæography), XVIII, a 148
IVREA, town, XIII, a b 535
Ivry-la-Bataille, town (Ivry-sur-Seine), XIII, b 535; battle of, 1590 (France), IX, a 497
IVRY-SUR-SEINE, town, XIII, b 535; (Seine), XXI, b 655; gas works (Gas-Lighting), X, b 82
Ivuktoke Inlet (Labrador), XIV, a 176
IVY, plant (Ill.), XIII, b 535-7; (Botany), IV, a b 84, b 91, b 111, b 113
I-wu-lu, town (Hami), XI, *a* 366
Ixeutica, poem (Oppian), XVII, *b* 820
IXION, hero, XIII, b 537
Ixmal, town. See Itzamal
Ixodides, family (Arachnida) (Ill.), II, a 242
Ixolyte (Mineralogy), XVI, a 447
Ixtaccihuatl, mountain (Popocatepetl), XIX, a 527
Ixtlilxochitl, king (Mexico), XVI, a 216, b 222
Iyémitsu, chief (Japan), XIII, b 592-a b 593
Iyéyasu, general (Japan), XIII, b 592, a 593, a 594; shrine of (Nikko), XVII, a b 516
Iynx, genus (Wryneck), XXIV, a 734
Iyrcæ, people (Scythia), XXI, a 602
Izabal lake (Guatemala), XI, *a* 212; town (Guatemala), a 214
Izalco, volcano (San Salvador), XXI, *a* 281
Izana, peak (Canary Islands), IV, a 705
Izbornik, encyclopædia (Russia), XXI, b 111
Izdubar, hero (Zodiac), XXIV, *a* 831
Izdubar lay (Deluge), VII, a 49, a 51
Izhora, race (Russia), XXI, a 87
Izhuatlan, town. See ORIZABA
Iziaslaff I., Jaroslavitch, grand-duke (Russia), XXI, a 98
'Izz al-Daula, emir (Mohammedanism), XVI, a 610
Izzed-din, sultan (Seljuks), XXI, b 669
'Izzuddin al Husain, king (Ghûr), X, a b 509

J, letter, XIII, a 537-8
Ja'afar or Giafar, vizier (Barmecides), III, b 325; (Haroun al Raschid), XI, *b* 436; (Mohammedanism), XVI, a 604, a 605
Jaak-tash river (Syr-Daria), XXII, b 857
Jabal in Genesis (Lamech), XIV, a 239
Jaballah of Ghassán, king (Nicephorus), XVII, a 495
JABALPUR or Jubbulpore, district and town, XIII, b 538-9
Jabarites, sect (Mohammedanism), XVI, b 614
Jabesh, city (Israel), XIII, a 413
Jabin, king of Hazor (Israel), XIII, b 410
JABIRU, bird (Ill.), XIII, a b 539
Jabliak, town (Cettinje), V, a 311
Jablonski, Johann Theodor, editor (Encyclopædia), VIII, b 178
Jablunka mountains (Carpathian Mountains), V, a 112
Jabneel of Jabneh, town. See JAMNIA
JABORANDI, plants (Ill.), XIII, b 539-40
Jabus river (Senaar), XXI, b 689
JACA, city, XIII, b 540
JACAMAR, bird, XIII, b 540-1; (Birds), III, a 645
JACANA, bird (Ill.), XIII, a b 541; (Rail), XX, b 230
Jacaranda, tree (Rosewood), XX, b 874
Jacaré, species (Alligator), I, b 515; (Crocodile), VI, b 525
Jacatra, town (Batavia), III, b 373
Jaccetani, tribe (Jaca), XIII, b 540
"Jachmi" (Pottery and Porcelain), XIX, b 640
Ja-chu, river (Tibet), XXIII, b 360, b 362, a 363
JACINTH, mineral, XIII, b 541-2
—, plant. See HYACINTH
Jack or Jak, tree (Bread-Tree), IV, a 217
—, circuit (Telephone), XXIII, a 145
JACKAL, mammal (Ill.), XIII, a b 542; (Anubis), II, b 128, a 129; (Dog), VII, b 281, a 282; (India), XII, b 779
JACKDAW, bird, XIII, b 542-3
Jack Downing, pseudonym (Smith), XXII, a 913
Jacket, cylinder- (Steam-Engine), XXII, b 492, a 493; (Watt), XXIV, b 434; effect of (Steam-Engine), XXII, b 507-8, a 510; in marine engine (Steam-Engine), a 546
Jackman, Charles, explorer (Polar Regions), XIX, b 328
"Jacks," spinnet (Pianoforte) (Ill.), XIX, a 76
Jack Snipe, XXII, b 211, note
JACKSON, Michigan, city, XIII, a 543
JACKSON, Mississippi, town, XIII, a 543; battle at, 1863 (United States), XXIII, b 826
JACKSON, Tennessee, town, XIII, a 543; (Tennessee), XXIII, a 194
JACKSON, Andrew, president, XIII, a 543-4; (Benton), XXIII, *b* 836; (New Orleans), XVII, *a* 414; (Philadelphia), XVIII, a 755; (Republican Party), XX, b 907; (Scott), XXI, b 576 note; (Taney), XXIII, b 921; (Tennessee), a 195; (United States), a b 809, b 810, *a* 811, a 812-3, *b* 814, *a* 815; (Whig), XXIV, *a* 894
—, A. E. A., entomologist (Trematoda), XXIII, a 569, b 571, *a* 575
—, Charles Thomas, chemist, *b.* 1805, *d.* 1880 (Wells), XXIV, a b 890
—, Claiborne F., governor (Missouri), XVI, b 550
—, George, optician (Microscope), XVI, a 288, b 289
—, J. Hughlings, physician (Physiology), XIX, a 48; (Pathology), XVIII, a b 402, note; (Surgery), XXII, b 724, a 725
—, Lowis D'A., tables of (Hydromechanics), XII, a 520
—, T. G., traveller (Venice), XXIV, b 162 note
JACKSON, Thomas Jonathan, "Stonewall," general, XIII, a 544-5; (United States), XXIII, b 825, *a* 826, *a* 827
—, Walter M., inventor (Petroleum), XVIII, a 733
JACKSON, William, musician, XIII, a b 545
JACKSONVILLE, Florida, city, XIII, b 545
JACKSONVILLE, Illinois, town, XIII, b 545
Jackson-Zentmayer compound microscope (Ill.), XVI, b 287-8
Jack the Giant Killer (Geoffrey of Monmouth), X, a 155
Jacmel, bay (Hayti), XI, b 485
JACOB, patriarch, XIII, b 545-6; (Esau), VIII, b 472; blessing of (Issachar), XIII, a 412; well of (Gospels), X, a b 740
— bar Salībī, bishop (Syriac Literature), XXII, b 895-6
— bar Shakkō, bishop (Syriac Literature), XXII, b 897
— Burdĕʿānā, bishop. See Baradæus
— of Edessa, bishop (Jacobite Church), XIII, b 548; (Syriac Literature), XXII, b 863, b 865, a 866, note, a 870 note, a 872, b 873 note, a 874, a 875 note, b 881-3
— of Gundē-Shabhor, bishop (Syriac Literature), XXII, b 887
— of Nisībis, bishop (Syriac Literature), XXII, a *b* 867
— of Sočrūgh, bishop (Syriac Literature), XXII, a b 872, *b* 873, b 882 note
—, Henry, theologian (Independents), XII, *a* 764, note
Jacoba of Bavaria, countess (Holland), XII, b 75
JACOBÁBÁD, town, XIII, a 546
JACOBI, Frederich Heinrich, philosopher, XIII, a 546-8; (Cousin), VI, *b* 463, a 464; (Germany), X, a 484; (Goethe), a b 647, *b* 651, a 656; (Hamilton, Sir W.), XI, b 375; (Lessing), XIV, a b 482; (Mendelssohn), XVI, b 13; (Rationalism), XX, a b 302-3
—, Johann Georg, author (Heinse), XI, b 560
—, John Christian, translator (Hymns), XII, b 620, b 623
—, J. T., theologian (Canticles), V, *a* 31
JACOBI, Karl Gustav Jacob, mathematician, XIII, a b 548; (Algebra), I, a 456; (Earth), VII, b 520; (Hydromechanics), XII, a 465; (Infinitesimal Calculus), XIII, b 34-6, b 62, b 72, a *b* 73; (Tables), XXIII, a 19, a 20; his form of the integral (Variable), XXIV, b 82, a 83; symbol of (Numbers), XVII, a b 634; theorem of (Earth), VII, b 525
—, Moritz Hermann, physicist (Electricity), VIII, a 11, b 15; (Electro-Metallurgy), a 108; (Energy), a 192; (Traction), XXIII, a 526, a 528; process of (Iron), XIII, b 298
—, Stephen Ludwig, naturalist (Ichthyology), XII, a b 703; (Pisciculture), XIX, b 136-7
— on the Jains, XIII, a 554
Jacobians, functions (Infinitesimal Calculus), XIII, a 34-6, a 78
Jacobin club (Couthon), VI, b 469; (Danton), a 719; (France), IX, a 525, b 528, a 535; (Napoleon I.), XVII, *b* 201, a 203, b 208, a 209, a b 210, *a* 213; (Pitt), XIX, a 154, a b 155, a 157; (Robespierre), XX, *a* b 618, a 619, a 620, a 621; (Roland), a 641; priory (Abbey), I, a 27
— pigeons (Dove), VII, b 328

JACOBITE CHURCH, XIII, b 548; (Copts), VI, a b 314; (Eutyches), VIII, b 635; (Greek Church), XI, a 138, a 139; (Malatia), XV, *a* 323; (Nisibis), XVII, a 528; literature of (Syriac Literature), XXII, b 881-4, b 888-90, a 892-3, a 895–6; origin of, a 874, a 881
Jacobites, British party (Alien), I, b 506; (Anne), II, b 56-7; (Atterbury), III, a *b* 49, a 50; (Bolingbroke), IV, a b 7; (Charles Edward), V, b 369; (James, Pretender), XIII, *b* 570; (Johnson, S.), a 730, b 732; (Lovat), XV, a 29-3; (Manchester), *a* 472; (Scotland), XXI, b 539, *b* 540, a 541, *a* b 542; (Pitt), XIX, *a* 155; (Walpole), XXIV, *b* 356; rebellion of, 1745 (Forbes), IX, *b* 341-2; songs of (Nairne), XVII, a 174
JACOBS, Christian Friedrich Wilhelm, scholar, XIII, b 548-9
Jacobsen, Oscar, chemist (Sea Water), XXI, a 641 note, a 642, *b* 643
Jacobsite (Mineralogy), XVI, a 402
Jacob's ladder (Alchemy), I, a 408, a 411
Jacobson, Louis L., naturalist (Ornithology), XVIII, b 24
Jacobson's organ (Smell), XXII, a 176
Jacopone, poet (Hymns), XII, b 618; (Italy), XIII, b 510
Jacotin, Pierre, engineer (Egypt), VII, b 607 note, b 667
JACOTOT, Jean Joseph, educationalist, XIII, a 549; (Education), VII, a 588, a 589
JACQUARD, Joseph Marie, inventor, XIII, a b 549; (Net), XVII, b 368; loom of (Weaving) (Ill.), XXIV, a b 491–2
Jacqueline Bell, Paris, III, a 463
Jacquelin's process (Chromium), V, a 613
Jacquemin, Émile, naturalist (Ornithology), XVIII, a 31 note
Jacquemont, Victor, traveller (Lahore), XIV, a b 216
Jacquerie, La, revolt (Charles V. of France), V, b 355; (France), IX, *b* 482, a 565; (Paris), XVIII, a b 295
Jacquerie (Mérimée), XVI, a 42
JACQUES. See CUJAS
Jacques le Fataliste (Diderot), VII, b 169
Jacquio, Ponce, sculptor (Sculpture), XXI, b 589
Jactitation of marriage (Divorce), VII, a b 263
Jaculus, genus (Jerboa), XIII, b 636, a 637
Jacutinga, ore (Brazil), IV, a 202
JADE, ornamental stone, XIII, b 549–51; (Burmah), IV, a 493; (Mineralogy), XVI, b 435, b 438; (Mining), b 491
——, river (Oldenburg), XVII, b 778
Jadeite, stone (Jade), XIII, a b 550
Jadu, Rájput, clan (Kerauli), XIV, b 6
Jadwiga, queen (Poland), XIX, a b 300-1, b 311
JAEN, province and city, XIII, a 551; (Spain), XXII, b 309, b 312, a 313, b 315
Jaeschke, H. A., orientalist (Tibet), XXIII, a 366, b 368, note, *b* 369, a b 370
Jafar Khán, or Jaffier Ali Khan, nawáb (Clive), VI, *b* 10, *a b* 11, a 12; (India), XII, a 840
—— Muhammed Ben Musa, librarian (Geography), X, a 159
Jaffa, town. See JOPPA
Jaffé, philologist (Palæography), XVIII, a 159
JAFFNA, or Jaffnapatam, town, XIII, b 551; (Ceylon), V, *a* 313, *a* 314, a 315, a 317, a 320
Jaffray, Alexander, provost (Quakers), XX, *a* 158
JAGÁDHRI, town, XIII, b 551
Jagannath, town. See Juggernaut
Jagatai, chief (Jenghiz), XIII, a *b* 632; (Mongols), XVI, a 767, b 768, a 769
——, plain (Khorásán), XIV, a b 68; dialectsof (Turks), XXIII, b 703, a b 704; (Dictionaries), VII, a 167
Jagdalpur, town (Bastár), III, a 368
Jagellon, Alexander I., king (Poland), XIX, b 300-1
Jäger, G., philosophical writer (Evolution), VIII, b 673, a 674; (Morphology), XVI, a b 869, b 870
Jägerndorf, principality (Leobschütz), XIV, a 454
Jaggery or Palm-Sugar, XXII, *a* 661
Jaghers or Stoffels, Hendrickie, servant (Rembrandt), XX, b 388
Jagic, Ignaz Vatroslaff, philologist (Russia), XXI, b 117; (Servia), a b 724; (Slavs), XXII, b 158, *a* 159, b 160, a 163
Jagiello of Lithuania (Poland), XIX, *b* 300-1
Jagír land (India), XII, a 834
JAGUAR, mammal (Ill.), XIII, b 551-2; (America), I, a 599
Jaguaron, town (Paraguay), XVIII, a 249
Jahán Sháh (Delhi), VII, a b 42, b 43; (Hindūstānī), XI, a 750, a 752; (Hyderabad), XII, a 445; (Lahore), XIV, b 215; (Tabriz), XXIII, b 23; (Punjab), XX, a 117; palace of (Agra, City), I, b 255–6
JAHÁNÁBÁD, town, XIII, a 552
Jahangipur, town. See JANGIPUR
Jahángír, emperor (India), XII, a 834, b 837, a 838; (Lahore), XIV, a b 215; (Numismatics), XVII, b 679; (Punjab), XX, b 116–7
Jahángírábad, town (Bulandshahr), IV, b 461
Jahde bay (Germany), X, b 420
JAHN, Johann, orientalist, XIII, b 552
JAHN, Otto, archæologist, XIII, b 552-3
Jahrbücher für Wissenchaftliche Kritik (Hegel), XI, b 550
Jahveh or Jahwé, deity. See JEHOVAH, Yahveh
Jaí, city (Ispahán), XIII, a 406
Jaideo, teacher (Hindustani Literature), XI, a 753, *a* 754
Jaihún, river. See Oxus
Jail fees (Prison Discipline), XIX, a 767, b 768; fever (Typhus), XXIII, b 718
Jails, county (Reformatories, U. S.), XX, *b* 902. See Prison
Jaiminíya-bráhmana (Sanskrit), XXI, a 291
Jain temples (Abu), I, b 59–60; (Ahmadábád), b 375; (Ajmír), b 384, a 385; (Architecture), II, b 346-7; (Gwalior), XI, a 309
JAINS or Jainas, sect, XIII, a 553–4; (Khandwa), XIV, a 59; (Pálitána), XVIII, b 191; (Religions), XX, a 382; (Tamils), XXIII, a b 48
JÁINTIA HILLS, XIII, a b 554; XIV, a b 60
Jáipal of Lahore, rájá (India), XII, *b* 831
Jaipur, state. See JEYPORE
Jais, town (Rai Bareli), XX, a 229
JÁISALMIR, state, XIII, b 554-5; (Rájputána), XX, a b 272
Jaisamand lake (Udaipur), XXIII, a 763
Jái Sinh II., mathematician (Jeypore), XIII, *b* 699
JÁJPUR or Jajpore, town, XIII, a 555; (Cattack), V, a 212
Jakjokarta, town (Java), XIII, a 611 note, b 617
JAKOB, Ludwig Heinrich von, economist, XIII, a b 555; (Political Economy), XIX, a 401
Jakob, T. A. L. von or Talvi, authoress. See Robinson
Jakobshavn, district (Greenland), XI, b 152
Jakutsk, government. See YAKUTSK
Jalâlâbâd, town (Afghânistân), I, b 206, a b 207, a 210, b 215, a 216; (Persia), XVIII, b 610
Jaláluddin, Jelád al Din or Jelál ed Din, amír of Kharezm (Ghazni), X, a 502; (Ghúr), b 509; (Jenghiz), XIII, *a* 633; (Mongols), XVI, b 767; (Oxus), XVIII, a 105; (Prester John), XIX, a 736; (Turks), XXIII, b 702
——, Shaikh, hermit (Ibn Batuta), XII, a 643
—— Rumi, poet. See RUMI
JALANDHAR or Jullundur, district and town, XIII, b 555–6; (Hushiápur), XII, a b 418; (Punjab), XX, b 112, b 114, a 115, a b 118
JALAP, drug (Ill.), XIII, a 556–7
JALAPA or Xalapa, town, XIII, a 557; (Jalap), a 556
Jalapin, drug (Scammony), XXI, a 381
JALÁUN, district and town, XIII, a b 557
Jalee work (Marble), XV, a 537
Jalisco, state (Mexico), XVI, a 223, b 899, b 908–9, b 911
Jalk, district (Persia), XVIII, b 629
Jallabert, Jean, physicist (Electricity), VIII, *a* 7
JÁLNA or Jaulna, town, XIII, b 557–8
Jalno, title (Lhasa), XIV, a 501
Jalomitza, river (Róumania), XXI, a b 19
Jalon river (Spain), XXII, a 308
JÁLPÁIGURI or Julpigoree, district, XIII, a b 558; town, b 558
Jalpaite (Mineralogy), XVI, a 408
Jaluit island (Micronesia), XVI, b 268
Jam, sweetmeats. See JAMS
Jámá Masjid, mosque (Delhi), VII, b 42, b 43; (Jaunpur), XIII, *b* 610
Jamabandi court (India), XII, a 810
JAMAICA, island (Plate VIII), XIII, b 558–61
  early history, a 560
  emancipation period, b 560
  Kingston, a b 560
  natural features, b 558–9
  political organization, b 560-1
  statistics, b 559–60
—— (Buccaneers), IV, b 367, *a* 368; (Columbus), VI, a 156, a b 157; (Jalap), XIII, b 554; (Libraries), XIV, b 552; (Patents), XVIII, a 362; (Slavery), XXII, a 147; (Treason), XXIII, a 563; (West Indies), XXIV, a *b* 538, b 539, a 540
——, town (Long Island), XIV, b 876, a 877
—— Pepper, XVIII, a 528; (Pimento), XIX, a 106
Jamal al-Din, theologian (Sunnites), XXII, b 694
—— Báris, mountains (Kirmán), XIV, b 101-2
Jamandaria river (Syr-Daria), XXII, a 858
Jaman-tau, mountains (Ural Mountains), XXIV, *a* 9
Jamaspa, minister of Vishtâspa (Zoroaster), XXIV, a b 860
Jambi, kingdom and river (Sumatra), XXII, b 671, *a* 673, *a* b 674
Jambs, door (Building) (Ill.), IV, a b 440
Jamesand Jacob. Equivalent forms, Diego, Diogo, Iachimo, Iago, Jacobus, Jacomo, Jacopo, Jacques, Jaime, Jakob, Jayme
—— river (Richmond), XX, b 560, a 561; (Virginia), XXIV, a 280
James or Dakota river (Dakota), VI, b 681
JAMES, son of Alpheus, apostle, XIII, a 562, a 563
James, St., the Less, bishop, XIII, a 562–3; (Episcopacy), VIII, a 431

JAMES, son of Zebedee, apostle, XIII, b 561-2

JAMES, *General Epistle* of, XIII, b 563-5; (Bible), III, a b 555; (Peter), XVIII, a 711

James or Jayme I., Aragon, king (Balearic Islands), III, a 241; (Pedro), XVIII, a 461; (Spain), XXII, a 332, a 337, *b* 377

—— II., Aragon, king (Pedro), XVIII, b 460-1; (Sicily), XXII, *a* b 33; (Spain), b 337

JAMES I., England, and VI. of Scotland, XIII, b 567-9; (Abbot, George), I, *a* 30; (Armagh), II, b 478; (Bacon), III, b 175, a b 176, *a* 177, a b 178, b 179, a 180; (Baronet), a *b* 335; (Bartas), a 346; (Buchanan), IV, *a* 371; (Buckingham), b 374-5; (Casaubon), V, b 151, *a* b 152; (Chancery), *a* 338; (Coke, E.), VI, b 109; (Costume), a b 419; (Cotton, Sir R. B.), *a* 452; (Demonology), VII, b 56; (Dumfries), b 456; (England), VIII, a 308-9; (England, Church of), a 338; (English Bible), b 347; (Fawkes), IX, b 51; (Finance), b 156, a 157; (Football), a 321; (Fowler, W.), *b* 434; (Golf), X, b 680 note, b 681, a 682; (Great Britain and Ireland), XI, b 71-2; (Holland), XII, *b* 81; (Horse), b 185, a 186, a 204; (Hymns), *b* 624-5; (Inverness), XIII, a 207; (Ireland), b 271, b 272; (Knighthood), XIV, a 123 note; (Lithgow), *b* 702; (London), a 834, a *b* 858, a 859; (Londonderry), b 863; (Melville), XV, b 852; (Montgomery), XVI, a b 16; (Morton), b 876; (Parliament), XVIII, a 313; (Poor Laws), XIX, b 480; (Presbyterianism), b 700, a b 701-2, a b 706; (Raleigh), XX, a *b* 275, a 276; (Scotland), XXI, b 538-9, a 540; (Somerset), XXII, *b* 273, a 274; (Sports), a 448; (Stafford), a 613; (Stuart), *a* b 642; (Suarez), b 648; (United States), XXIII, a 777; (Usher), XXIV, a 21; (Witchcraft), a 654, b 655; (Wotton), a 721; reign of (Scotland), XXI, a b 527, a b 528, a 529-33; works of (Scotland), a 568

JAMES II., of England, duke of York, XIII, a 569-70; (Abdication), I, a 35; (Admiral), b 142, b 143, b 145; (Anne), II, b 55-6; (Argyll), b 438; (Army), b 499; (Berwick), III, a 527; (Birmingham), b 682; (Bunyan), IV, b 473; (Burnet), a b 502; (Clarendon), V, a b 704, a 705; (Compton), VI, a 204; (Dockyards), VII, b 274; (Dublin), b 433; (Dundee), *a* 465; (England), VIII, a b 314; (Godolphin), X, b 637; (Golf), b 681; (Halifax, Marquis), XI, b 345-6; (Ireland), XIII, a b 274; (Jeffreys), b 629; (Ken), XIV, a 36; (London), b 860; (Marlborough), XV, b 560; (Monmouth), XVI, a b 782-3; (Navy), XVII, b 290-1; (Newton), a 456; (New York), *a* 467; (Ormonde), a b 880; (Oxford), XVIII, b 100; (Pamphlets), a 209; (Penn), a b 504, b 505, b 506, a 507; (Pepys), b 530, a b 531; (Poor Laws), XIX, b 481; (Post-Office), a b 580; (Presbyterianism), b 703, b 710; (Quakers), XX, b 155; (Sedley), XXI, b 651; (Signals), XXII, a 55; (Slavery), b 906; (Sunderland), *b* 692; (Torture), XXIII, a 495; (United States), *a* 778; (William III.), XXIV, *a* *b* 611; (Worcester), a 703; (Wycherley), a 744; (Yachting), *b* 758

—— I., Majorca, king (Roussillon), XXI, b 33. See James I. of Aragon

—— II., Majorca, king (Spain), XXII, b 337

—— III., Majorca, king (Spain), XXII, a 338

JAMES I., Scotland, XIII, a 565-6; (Archery), II, b 325, a 327; (Chaucer), V, a 391; (Edinburgh), VII, b 572; (Scotland), XXI, a 505, b 513-5, a 566

JAMES II., Scotland, XIII, a b 566; (Edinburgh), VII, b 572; (Scotland), XXI, b 515-6

JAMES III., Scotland, XIII, b 566; (Edinburgh), VII, *b* 572, a 574, b 575; (Orkney), XVII, b 873; (Scotland), XXI, b 516-8; (Stirling), XXII, a 582

JAMES IV., Scotland, XIII, b 566-7; (Dunbar, W.), VII, *b* 459; (Edinburgh), b 572, a 574, a 575; (Golf), X, a b 681; (Leith), XIV, b 432; (Scotland), XXI, a 518-9

James IV., Scottish Historie of (Greene, R.), XI, b 147

JAMES V., Scotland, XIII, a b 567; (Gipsies), X, a 547; (Golf), b 681; (James I., Scotland), XIII, a 566; (Lyndsay), XV, b 107-8; (Murray, Earl of), XVII, b 68; (Reformation), XX, b 349; (Scotland), XXI, b 519-21

—— VI. of Scotland. See JAMES I. of England

—— of Aragon, prince, conspirator, 1347 (Spain), XXII, b 337-8

JAMES the Pretender, England, XIII, a b 570; (Atterbury), III, a *b* 49, a *b* 50; (Bolingbroke), IV, b 6, a *b* 7; (Charles Edward), V, *a* 369; (George I.), X, *a* 379; (Spain), XXII, b 351

——, Edwin, geologist (Surveys), XXII, b 935, note

JAMES, George Payne Rainsford, novelist, XIII, a 571

JAMES, John Angell, preacher, XIII, a b 571

——, Richard, traveller (Russia), XXI, b 111; (Slavs), XXII, b 157 note

——, Thomas, explorer (Polar Regions), XIX, a 330

——, William T., manufacturer (Steam-Engine), XXII, a b 923

JAMESON, Anna, art writer, XIII, b 571-2

JAMESON or Jamesone, George, painter, XIII, b 572; (Schools of Painting), XXI, b 460, a 464

JAMESON, Robert, naturalist, XIII, b 572-3; (Goodsir), X, b 689, *a* 690

——, William, botanist (Ecuador), VII, a 561, b 563; (Quito), XX, *b* 195

Jamesonite (Mineralogy), XVI, a 411

JAMESTOWN, New York, XIII, a 573

——, St. Helena, XXI, b 179, *a* 180

——, Virginia (Slavery), XXII, b 906; (United States), XXIII, a 777, note; settlement of (Smith), XXII, a b 185

JÁMI, Nuruddin 'Abd-urrahmán ibn Ahmad, poet, XIII, a 573; (Persia), XVIII, a 670, a 672, b 673

Jamie, yacht (Yachting), XXIV, b 758

JAMIESON, John, lexicographer, XIII, a b 573

Jamin's theory (Wave Theory), XXIV, b 482

Jámká river (Balasor), III, b 235

JAMNIA or Jabneh, city, XIII, b 573; (Gamaliel), X, a 54

Jamnitzer, Wenzel, silversmith (Plate), XIX, a 195

JAMRUD, fort, XIII, b 573

JAMS and JELLIES, XIII, b 573-4

Jamshídís, tribe (Herat), XI, *b* 638

JAMU or Jummoo, town, XIII, a 574; territory (Kashmír), XIV, b 11, a 12

Jamuná river. See JUMNA

Jan of Czarnkow, historian (Poland), XIX, b 311

——, G., naturalist (Reptiles), XX, a b 453

Jand, city (Seljuks), XXI, a 666

Janda, lake (Spain), XXII, b 309

Jane or Johanna Beaufort, queen (Scotland), XXI, a 514, *b* 515

Jane Eyre (Bronte), IV, *a* *b* 329; (Poetry), XIX, a 271

JANESVILLE, Wisconsin, XIII, a 574

Janet, Paul, philosophical writer (Evolution), VIII, b 671; (Socialism), XXII, b 216, b 232

JANGIPUR or Jahángírpur, town, XIII, a b 574

Jangomai, town (Siam), XXI, b 892

Janibeg Khán, chief (Mongols), XVI, b 773

Janicki, Clement, poet (Poland), XIX, a 312

Janiculum, hill (Janus), XIII, b 578; (Rome), XX, b 824-5, a 831

JANIN, Jules Gabriel, critic, XIII, b 574-5

JANINA, Joannina or Yanina, town and lake, XIII, a 575; (Albania), I, a 396, *a* 397; (Ali Pasha), *b* 505; (Turkey), XXIII, b 693

Janissaries (Army), II, b 539-40; (Algeria), I, *a* 499; (Amurath I., II., III.), I, a 686; (Greece), XI, b 107, a 110; (Turkey), XXIII, a 682, a 684, b 685, *a* 686, a 687, *b* 689, a 690, a 691

Janissary, Memoirs of a (Poland), XIX, a 301, b 311

Jan Mayen, island (Norwegian Sea), XVII, a b 607; (Seal), XXI, b 607, b 608, *a* *b* 609, a b 610; (Whale), XXIV, a b 557

Janna, garden (Paradise), XVIII, a 241

Jannæus, Alexander, I, a 430; (Israel), XIII, b 433-4

JANSEN or Jansenius, Cornelius, bishop, XIII, b 575-6; (Duvergier de Hauranne), VII, b 489; (Jesuits), XIII, b 664

——, Cornelius, painter. See Janssen

——, Kristoffer, poet (Norway), XVII, b 605

——, Zacharias, optician (Telescope), XXIII, a b 147

JANSENISM, XIII, a 576-7; (Arnauld), II, a b 542; (Education), VII, a 586; (France), IX, a 505, a 510, *b* 529, a 582; (Gerberon), X, b 397-8; (Liguori), XIV, b 642; (Longueville), a b 878; (Molina), XVI, b 653; (Pascal), XVIII, b 339, b 340, b 342; (Petau), a 707; (Popedom), XIX, b 519, b 521; (Port Royal), a b 548; (Sacy), XXI, b 149

Jansenist Church of Holland (Episcopacy), VIII, a b 436; journal (Periodicals), XVIII, b 550

Janskerk, church (Gouda), XI, a 3

Jansonius, Jacobus, theologian (Jansen), XIII, b 575

JANSSEN or Jansen, Cornelius, painter, XIII, a b 577; (Harvey), XI, b 449

——, Laurens, poet (Holland), XII, a 95

—— on solar spectrum (Astronomy), II, *b* 689, b 690

JANSSENS or Jansens, Abraham Van N., painter, XIII, b 577

JANSSENS or Jansens, Victor Honorius, painter, XIII, b 577

Janszoon, Lourens, sheriff (Typography), XXIII, a 735

Janthina, genus (Mollusca) (Ill.), XVI, b 672, a 675

Janthinidæ, family (Mollusca), XVI, b 672

Janua Linguarum Reserata (Comenius), VI, a 163

JANUARIUS, St., or San Gennaro, Naples, XIII, b 577-8; (Naples), XVII, a 196

—— Candidatus, translator (Syriac Literature), XXII, b 883

—— of Cordoba, St., XIII, a 578

JANUARY, month, XIII, a 578; (Calendar), IV, b 590, a b 591, a 601; barometrical pressures for (Atmosphere), III, b 26, *a* 27, *a* 28;

JANUARY, *continued*
  calendar, British (Horticulture), XII, a 302–3; calendar, U. S. (Horticulture), a b 306; isobars (Meteorology) (Ill.), XVI, a 144-7; isotherms (Meteorology) (Ill.), a 140-1; rains (Meteorology), b 157, a b 158; temperatures (Meteorology), b 122, a 140–1; winds (Meteorology) (Ill.), a b 142
JANUS, Roman god, XIII, b 578; temples of (Rome), XX, a 835
——, pseudonym (Huber), XII, a 312
Janus-head (Monster), XVI, a 792
JAPAN, empire (Plate IX), XIII, a 578–602
  administration, political, b 588-9, a 590
  agriculture, a 588
  animals, b 584–5
  art, a 598-602
  bibliography, b 602
  carving, a 602
  characteristics of art, a b 598, a b 599
  climate and earthquakes a b 583
  cloisonne work, b 601
  coast system, a b 580
  communication, systems of, b 585–7
  dialects, b 595–6
  divisions, political, b 578–80
  education, b 588
  feudal system, b 592-3
  finance, b 589-90
  history, b 590–4
  inland waters, a 581-2
  lacquer ware, a b 601
  language, b 594-6
  literature, b 596–8; of art, b 597, a 599
  metal and bronze in art, b 601
  military usurpations, early, a b 591
  minerals, a 582-3
  mountains, b 580–1, b 583
  population, b 589
  pottery and porcelain, a 600–1
  primitive history, a 590–1
  religion, a b 590
  Shôgunate, a b 592, b 593
  textile arts, a b 602
  towns, a b 587
  treaty period, b 594
  vegetation, b 583-4
  wall-paper, a 602
  written language, b 595–6
—— (Asia), II, a 601; (Bullion), IV, b 464; (China), V, b 563; (Coal), VI, a 56; (Corea), a *b* 350; (Filter), IX, b 146; (Fire), b 203; (Forests), b 356; (Funeral Rites), a 725; (Ink), XIII, b 87; (Lew-Chew Islands), XIV, a 490; (Libraries), b 533, a 552; (Mining), XVI, b 491; (Nara), XVII, b 235–6; (National Debt), *a* b 254; (Railway), XX, a 264; (River Engineering), a 588; (Saghalin), XXI, b 155; (Sewerage), b 753; (Siam), b 894; (Siebold), XXII, b 41–2; (Silk), a 62, *b* 65, *a b* 71; (Tea), XXIII, a 105; (Weights and Measures), XXIV, a 518; European travellers in (Geography), X, a b 166
—— current (Pacific Ocean), XVIII, a 122. See Kuro Siwo
—— Pepper-Tree, XVIII, a 530
—— Quince, XX, a 189
—— rose. See Japonica
—— Sea (Pacific Ocean), XVIII, a 120, a 125, a b 126; (Siberia), XXII, b 10, a 13
Japanese alloys (Gold), X, a 668
—— art, XIII, a 598–602; (Carving), V, a b 147; (Drawing), VII, *a* b 387; (Enamel), VIII, a 168; (Fan), IX, *b* 25; (Inlaying), XIII, a b 88; (Mirrors), XVI, b 524; (Pottery) (Ill.), XIX, b 654–5; (Wood-Carving), XXIV, a 684; literature of, XIII, b 597, a 599
—— coins (Numismatics), XVII, a 680
—— embassy, first to U. S. (Tatnall), XXIII, b 923
—— fauna, XIII, b 584–5; (Birds), III, a 654; (Distribution), VII, b 234, a 235, a 242; (Ichthyology), XII, b 713, a b 717, a 718; (Reptiles), XX, a 454, b 481
—— flora, XIII, b 583-4; (Distribution), VII, *b* 249, a 251, a 252
—— fowls (Poultry), XIX, a 666
—— historians, XIII, b 596–7; (Kaempfer), *a* 825
—— lacquer. See Japanning
—— language, XIII, b 594–6; (Alphabet), I, a 531; (Dictionaries), VII, a 167; (Hoffmann), XII, a 49; (Ural Altaic), XXIV, b 5, a 7
—— literature, XIII, b 596–8; (Drama), VII, a b 348
—— Learned Societies, XXII, b 236, a b 238, *b* 240
—— migration (Polynesia), XIX, b 440
—— missions, XVI, b 540; (Jesuits), XIII, a 660, b 662, a 565; (Propaganda), XIX, a 833
—— Palace (Dresden), VII, b 404, a 405
—— Peppermint, XVIII, a 529
—— Pilgrimage, XIX, a b 101
—— Primrose, XIX, a 757
—— printing, early (Typography), XXIII, b 724
—— Religions, XIII, a b 590; XX, *b* 375, a 376; (Cosmogony), VI, a 395
—— Sword, XXII, a 841
—— Wax, XXIV, a 485, a 486
—— Wolf, XXIV, b 662
Japanned peafowl (Peacock) (Ill.), XVIII, a b 454
JAPANNING, XIII, a 603; (Lacquer), XIV, a b 195; (Tar), XXIII, a 63; (Varnish), XXIV, a 100
Japara, town (Java), XIII, a 617
Japazaws, chief (Pocahontas), XIX, a 923
Japhet ben Heli, rabbi (Hermeneutics), XI, a 665
JAPHETH, patriarch, XIII, b 603; (Noah), XVII, *b* 536
Japicx, Gysbert, poet (Frisians), IX, b 692, a 693
Japjī (Hindustani Literature), XI, b 754
Japonica (Camellia), IV, a 652; (Horticulture), XII, b 257
Japp, Alexander Hay, author (Thoreau), XXIII, b 334 note
Japura, river (Colombia), VI, a 138
Jaquemart, Jules, collector (Shoemaking), XXI, a 869
Jarales, regions (Spain), XXII, a 311
Jarama, river (Madrid), XV, *b* 190
Jarchi. See RASHI
Jardin des Plantes, Paris (Desfontaines), VII, b 111–2; (Fourcroy), IX, b 431; (Herbarium), XI, b 639; (Ichthyology), XII, a 670; (Paris), XVIII, a 287, b 297
Jardine, Sir William, naturalist (Ornithology), XVIII, b 13 note, b 16, b 20, a 22; (Wilson), XXIV, a 622
Jardræka, bird (Godwit), X, a 642
Jargoon, mineral (Jacinth), XIII, b 541
Jarl, hero (Edda), VII, b 564; class (Sweden), XXII, *b* 782; dispersion of (Harold I.), XI, a 433
JARNAC, town, XIII, b 603–4; battle of, 1569 (Condé I.), VI, b 218
——, Guy Chabot de, Seigneur, soldier (Duel), VII, a 442
JAROMIERZ, town, XIII, a 604
Jarosite (Mineralogy), XVI, a 419
Jarosse, plant (Lentil), XIV, a 448
JARRAH WOOD, XIII, a 604; (Western Australia), XXIV, a 536
Jarret, principality (St. Chamond), XXI, a 168
Jarring (Magnetism), XV, b 270-1, note; of ship (Magnetism), *b* 252
JARROW-ON-TYNE, town, XIII, a 604; monastery (Bede), III, *a b* 415
—— Slake, bay (Jarrow-on-Tyne), XIII, a 604
Järsbärg inscription (Scandinavian Languages), XXI, b 382
Jarson. See GERSON
Järta, Hans, statesman (Sweden), XXII, a 796
Jasa Sinh, rájá (Unao), XXIII, a 772
Jaschi, town. See JASSY
Jashar, Book of (Donaldson), VII, a 310; (Hebrew Language and Literature), XI, a b 534; (Israel), XIII, b 418
JASHPUR, tributary state, XIII, b 604; (Chutiá Nágpur), V, b 671-2
Jasion, god (Cabiri), IV, b 551
JASMIN, Jacques, poet, XIII, b 604–5
JASMINE or Jessamine (Ill.), XIII, a 605-6
Jasminum (Jasmine), XIII, a 605–6
Jasmund, peninsula (Rugen), XXI, b 62, a 63
Jasno Gura, monastery (Czenstochova), VI, b 665–6
JASON, hero, XIII, b 606; (Pelias), XVIII, b 485; legend of (Argonauts), II, a b 437
——, king of Pheræ (Isocrates), XIII, b 403, note
——, high priest (Israel), XIII, b 430, *a* 431
Jason, Les fais du (Romance), XX, b 655
JASPER, mineral, XIII, b 606–7; (Mineralogy), XVI, a 405, a 406
JASSY, Jash or Jaschi, town, XIII, a b 607; (Roumania), XXI, *b* 20, b 24, a b 25, *a* b 26; treaty of, 1792 (Turkey), XXIII, a 689
Jasus gulf (Caria), V, b 90
Jaswan Dun, valley (Hushiarpur), XII, a 418
Jászay, Paul, historian (Hungary), XII, a 395
Jászay Codex (Hungary), XII, a 391
JÁSZ-BERÉNY, town, XIII, b 607
Jātaka, folk-lore (Buddhism), IV, b 385, note; (Pâli), XVIII, b 189
Játaki, language (Jats), XIII, b 607-8
JATIVA or San Felipe de, city, XIII, b 607
Játras (Sanskrit), XXI, a 299
Jatropha, plant (Botany), IV, b 126, a 131, b 142
JÁTS or Jits, Indian people, XIII, b 607-8; (Afghânistân), I, *b* 211; (Bhartpur), III, *b* 543; (Bhatuiár), b 543; (Gipsies), X, a 551; (India), XII, b 828; (Montgomery), XVI, b 815, a 816
JAUBERT, Pierre Amédée Emilien Prode, orientalist, XIII, a 608
Jaucourt, Louis de, editor (Encyclopædia), VIII, *a* 181
JAUER, town, XIII, b 608
Jauf, oasis. See Jowf
Jaufré (Provençal Literature), XIX, a 901
JAUHARY, Arabic philologist, XIII, b 608
Jaulna, town. See JÁLNA
JAUNDICE, disease, XIII, b 608–10; (Vaccination), XXIV, b 31; chronic (Dietetics), VII, a 180
JAUNPUR, district, XIII, a b 610; town, b 610
Jaunsár Bawar, district (Dehra Dún), VII, *b* 30
JAVA, island (Plate VIII) (Ill.), XIII, a 610–20
  administration, a 616
  agriculture, b 613–14
  antiquities (Ill.), a b 619
  climate, a 612
  descriptive geography, a b 611
  ethnological features, b 617
  geological features, b 611-2
  history, b 620
  language and literature, b 618–9
  mechanic arts, a 615
  natural history, b 612–3
  population, a b 615
  religion, a 618
  towns, chief, b 616–7

Java (Asia), II, b 600, a 602; (Cinchona), V, b 682; (Fowl), IX, a 434; (Indian Archipelago), XII, *a b* 855, note, *a* b 856, a *b* 857, a b 858, *a* b 859; (Numismatics), XVII, a 680; (Raffles), XX, b 226, a 227; (Weights and Measures), XXIV, a 518
——, avifauna of (Birds), III, b 662; Coffee, VI, a b 101; organic forms in (Asia), II, *a* b 607; rubber (India-Rubber), XII, *b* 880
——, Little, island. See Bali
Javan, patriarch (Japheth), XIII, b 603; (Joel), a 716, note; sons of (Greece), XI, b 82
Javanese, people (Java), XIII, b 617, b 618-19
—— language, XIII, b 618-9; (Dictionaries), VII, b 166; (Indian Archipelago), XII, b 857
Javans, community (Caste), V, a b 163
Jaw, bones of (Skeleton), XXII, b 122, a 124; fossil (Mammalia) (Ill.), XV, a 378-9; lower (Mammalia), b 358
Jawāib (Newspapers), XVII, a 443
Jawam, Kazim 'Ali, author (Hindustani Literature), XI, *a* 758
JAWAROW, town, XIII, b 620
Jāwī, language (Malays), XV, b 328
—— Pekan, race (Prince of Wales Island), XIX, a 761
Jaxartes river (Aral), II, b 268, a 269; (Caspian Sea), V, b 157; (Ferghana), IX, b 74, a 75; (Himalaya), XI, b 734; (Oxus), XVIII, b 104, a 108; (Ptolemy), XX, a 101; (Transcaspian), XXIII, b 544. See SYR-DARIA
JAY, bird (Ill.), XIII, a 621-2; (Mythology), XVII, b 153
JAY, John, statesman, XIII; a 622-3; (United States), XXIII, b 790, a 793, b 800; his Treaty, 1794 (Jay, J.), XIII, a 623; (Monroe), XVI, a b 787; (United States), XXIII, b 803-4, b 806
JAY, William, author, XIII, a b 623
Jayaveda, dramatist (Sanskrit), XXI, a 299, note
Jaylan, district (Arabia), II, b 222
Jayme of Aragon. See James
—— of Majorca, geographer (Geography), X, b 161
Jayntiya hills. See JAINTIA HILLS
Jazyges, tribe (Hungary), XII, a 382
Jeaffreson, John Cordy, author (Shelley), XXI, a 831
Jealous Husband, painting (Metsu), XVI, b 207
JEAN D'ANGELY, Saint, town, XIII, b 623
Jean de Meung, poet (France), IX, a b 566; (William of Lorris), XXIV, b 616
Jean de Paris (Boieldieu), III, a 750; (Romance), XX, b 675
—— le Bel, chronicler (Froissart), IX, *b* 700, b 702
Jeanne of Aragon. See Joanna Henriquez
—— or Johanna, princess (Franche Comté), IX, b 605
—— of Navarre, queen (Spain), XXII, a 339
Jeanne Darc. See JOAN OF ARC
Jeannin, Pierre, lawyer (France), IX, b 498
Jean Paul, author. See RICHTER, J. P. F.
Jebal or Jibal, province (Irak Adjemi), XIII, a 219
Jebb, Sir Joshua, philanthropist (Prison Discipline), XIX, a 772, a 773
——, Richard Claverhouse, classicist (Troad), XXIII, b 618. See List of Contributors
——, Samuel, antiquary (Periodicals), XVIII, a 546, b 547
Jebel, Bahr-al. See Bahr-al-Jebel
—— Abu Senun, mountain (Kordofan), XIV, b 141
—— Aja (Arabia), II, b 208
—— Ajlûn, region (Gilead), X, b 531; (Palestine), XVIII, a 177
—— Akhdar, mountains (Arabia), II, a 205, b 207, b 209, b 222
—— Akra, mountain (Syria), XXII, b 860
—— al-Akhdar, district (Tripoli), XXIII, a 612
—— al-Túr, mountains (Sinai), XXII, a 96
—— Aseer, mountain (Arabia), II, b 217, a 221, *a* 229
—— Chellia, mountains (Numidia), XVII, a 643
—— el-Baruk, mountains (Lebanon), XIV, a 394
—— -el-Druz or Hauran, mountains (Bashan), III, a b 354
—— el-Tíh, mountain (Sinai), XXII, b 95
—— esh Sheikh (Hermon), XI, a 672
—— es-Síh, mountain (Palestine), XVIII, b 175
—— -es-Soda, mountains (Africa), I, a 224
—— Jermak, mountain (Palestine), XVIII, b 175
—— Jilad, region (Gilead), X, a 331
—— -Júdí, mountain (Kurdistan), XIV, a 157, note
—— Kabkab, mountain (Mecca), XV, a 677
—— Kora, mountain (Arabia), II, a 206
—— Kordofan, mountain (Kordofan), XIV, b 141
—— Kuneiseh, mountain (Lebanon), XIV, a 394
—— Músá, mountains (Morocco), XVI, b 856, a 857
—— Nebi Baruh, mountain (Lebanon), XIV, a 394
—— 'Osha, mountain (Palestine), XVIII, a 177
—— Sarsar, mountain (Morocco), XVI, a 857
—— Soghír, mountain (Morocco), XVI, b 858
—— Solma, mountain (Arabia), II, b 208
—— Teir or Tur, island (Africa), I, b 225; (Red Sea), XX, a 329
—— Tezah, mountain (Morocco), XVI, a 858
—— Túr, range (Kurdistan), XIV, a 157
—— Zerlai, mountains (Darfur), VI, b 724
—— Zugur, island (Red Sea), XX, a 329
JEBEIL, Jubeil or Djebail, town, XIII, b 623-4
Jebu, state (Yoruba), XXIV, *a* b 792
Jebus, city (Israel), XIII, a 415
Jebusites, tribe (Jerusalem), XIII, b 649
Jed, river (Roxburgh), XXI, *b* 39, a 40
JEDBURGH, town, XIII, a 624; (Roxburgh), XXI, a b 40
Jeddah, town. See Jiddah
Jeens, artist (Engraving), VIII, a 394
Jefât or Jotapata, town (Galilee), X, b 26
Jefferson, Mount (America), I, b 595; (Oregon), XVII, a 846; (United States), XXIII, a 851
—— river (Lewis, M.), XIV, b 493
JEFFERSON, Thomas, president, XIII, a 624-7
  administrations of, b 626-7
  colonial Virginia, b 624-6
  Continental Congress, a b 625
  educational period, a b 624
  retirement, b 627
  Revolutionary War, a 626
—— (Adams), I, *b* 130, *a* 131; (American Literature), b 631, a 633; (Burr), XXIII, a 837; (Census), V, b 294; (Charlottesville), b 372; (Franklin, B.), IX, a b 631; (Gallatin), X, *b* 36; (Livingston, R.), XIV, a 726; (Madison), XV, b 183, a *b* 184; (Monroe), XVI, a b 787; (Patents), XVIII, b 873, a 877; (Schools), XXI, *a* 911; (Slavery), XXII, *a* 150, *b* 908; (Surveys), b 938; (Taylor, J.), XXIII, *a* b 927; (Tracy), a 529; (United States), b 779, b 782, *b* 790, b 794, a 795, a b 801, a b 803, a *b* 804, a 805, *a b* 806, b 807, a 812; (Universities), a 960; (Washington), XXIV, a 411; (Whig), a 894; (Zoology), b 926
JEFFERSON CITY, Missouri, XIII, b 627
Jeffersonite (Mineralogy), XVI, a 434
JEFFERSONVILLE, Indiana, town, XIII, b 627
JEFFREY, Francis, Lord, critic, XIII, b 627-9; (Æsthetics), I, b 200-1; (Bell), III, b 467; (Campbell), IV, a 668; (Moore), XVI, b 832-3; (Phrenology), XVIII, b 858, b 861, b 862; (Scott), XXI, *b* 573, *a* 574; (Smith), XXII, a 187; (Wilson), XXIV, b 623, a 624; (Wordsworth), b 709, note, a b 710 note
JEFFREYS, George Jeffreys, Lord, judge, XIII, a 629-30; (Baxter), III, *b* 394; (Newton), XVII, a 456; (Sidney), XXII, *a* 40; (Taunton), XXIII, b 89
——, J. Gwyn, naturalist (Brachiopoda), IV, b 175, *a* 176; (Toredo), XXIII, b 201, *a b* 202
Jeffries, Dr. John (Aëronautics), I, a b 172
Jehan, sháh (Aurungzebe), III, *b* 86, *a* 87
Jehmarc of Argyll, chief (Scotland), XXI, a 502
Jehoiakim, king (Israel), XIII, b 426
JEHOL or Cheng-te-fu, city, XIII, a 630
Jehoram, king (Israel), XIII, a b 417
JEHOVAH, Jahveh or Yahveh, XIII, a b 630; (Bible), III, *a* 548, b 550, a 551; (Hosea), XII, a 310, a 311; (Isaiah), XIII, a 390, a b 391, *b* 392, a 393; (Israel), b 407, note, a b 408-9, a 410, b 412, note, b 417 note, b 419, a b 420-1, a 422, a 426, b 427, b 429; (Messiah), XVI, b 58, a 59; (Prophet), XIX, *a* b 838, *a b* 839, *a* b 840, a b 841, a 842; (Psalms), XX, b 34; (Theism), XXIII, a 258, note; worship of (Abraham), I, b 55-6; (Ahab), b 373; (Bible), III, *b* 548; (Philistines), XVIII, b 770 note
Jehovistic or Yahvistic documents (Bible), III, *b* 550; (Deluge), VII, a b 49; (Lot), XV, a 10; narrative (Pentateuch), XVIII, a b 517, a b 518, b 519; contrasted with *Priestly Code* (Pentateuch) b 522-3. See Elohist
Jehu, king (Hosea), XII, a 309, a 311; (Israel), XIII, a 418, b 422; (Kings), XIV, *b* 87
Jehuda Halevi or Judas Levita, theologian (Theism), XXIII, a 262
JEJEEBHOY or Jijibhai, Sir Jamsetjee, merchant, XIII, b 630; (Parsîs), XVIII, a 332, a 333
Jejunum, intestine (Digestive Organs), VII, a b 196, a 198; (Nutrition), XVII, *b* 687
Jekyll, Sir Joseph, lawyer (Chubb), V, a 662
Jelál-al-din of Kharezm, amír. See Jaláluddin
JELÁL-ED-DIN, Mohammed er-Rúmí, poet, XIII, b 630. See RUMI.
Jelene, Gregory Houby Z., philologist (Slavs), XXII, a 161
Jelinek purification process (Sugar), XXII, *a* 660
Jellachich, Joseph von Bazim, ban (Austria), III, *b* 119; (Hungary), XII, *b* 386, a b 387
Jellet analyzer (Wave Theory), XXIV, a 477
Jellies (Elasticity), VII, b 694, b 699; (Jams and Jellies), XIII, b 573-4
Jellinek, Adolph, rabbi (Midrash), XVI, a 299 note
Jellinge, village (Barrows), III, b 343

Jelly-fish (Phosphorescence), XVIII, b 826, b 828; muscular cells (Histology) (Ill.), XII, a 11; nerve cell (Histology) (Ill.), a 12
Jelöen, island (Norway), XVII, a 590
Jem, king, Persia (Ispahán), XIII, b 405
Jemaladin Said Abdallah Tnooh, emir (Druses), VII, b 419
Jemalledin, Maured Allatafet, historian (Carlyle), V, a 101
Jemappes. See JEMMAPES
Jemez springs (New Mexico), XVII, a 411
——, tribe (Indians), XII, a 867; (Pueblo Indians), XX, *b* 888, *b* 889
Jem-gird, castle (Ispahán), XIII, b 405
Jemkseylon, island (Burmah), IV, a 497
JEMMAPES or Jemappes, village, XIII, a 631; battle of, 1792 (Austria), III, b 113; (France), IX, b 532; (Mons), XVI, a b 788
Jemtland, province (Sweden), XXII, b 780, b 787
JENA, town, XIII, a b 631; battle of, 1806 (Hegel), XI, b 548; (Napoleon), XVII, b 217; university of (Hegel), XI, *a* 548; (Pufendorf), XX, a 105
Jenatsch, George, pastor (Valtellina), XXIV, a 52
JENGHIZ KHAN or Chenghiz Khán or Gengis-Khan, Mongol emperor, XIII, b 631–3; (Asia), II, b 611, b 612; (Balkh), III, a 244; (Bamian), a 265; (China), V, *b* 545, b 557, b 561–2; (Ghazni), X, a 502; (Kashgar), XIV, a 10; (Mohammedanism), XVI, b 610; (Mongols), a 767; (Polo), XIX, b 417–8; (Prester John), b 735
—— Khan, ruler of Tibet (Lhasa), XIV, b 502
Jenil river (Spain), XXII, b 308, b 309, b 311
Jenîn or En Gannim, village (Galilee), X, a 26
Jenkin, Fleeming, physicist (Electricity), VIII, a 87, b 97; (Friction), IX, b 683; (Hydromechanics), XII, b 502; (Sewerage), XXI, b 753; (Steam-Engine), XXII, b 535, a b 550 notes; (Telegraph), XXIII, b 124 notes; (Traction), b 527, b 528; (Zoology), XXIV, b 853. See List of Contributors
Jenkins, Francis, captain (Tea), XXIII, *b* 105
—— or Jenkyns, Sir Leoline, jurist (Contraband), VI, b 284; (International Law), XIII, b 197; (Sea Laws), XXI, *a* 612
—— and Lee's regulator, marine (Steam-Engine), XXII, b 533
Jenkinson, Anthony, ambassador (China), V, a 547; (Persia), XVIII, a b 649; (Shemaha), XXI, a 831
——, Charles, statesman. See LIVERPOOL, Earl of
——, Robert Banks, statesman. See LIVERPOOL, Earl of
Jenkins's Ear, war of, 1739 (Spain), XXII, a 353
Jenks, Joseph, inventor (Patents), XVIII, a 873
Jennah, town ('Oneiza), XVII, b 795
JENNER, Edward, physician, XIII, b 633–6; (Hunter, J.), XII, b 401, a 402; (Medicine), XV, b 824; (Vaccination), XXIV, b 28, *b* 29, a b 30, a 31, a 36
——, Sir William, physician (Pathology), XVIII, a 381, b 382 note, a 383; (Typhus), XXIII, b 720
Jennet, Spanish (Horse), XII, a 185
Jennie or Timbuktu (Africa), I, b 242
Jennings, John, divine (Doddridge), VII, a 278
——, Sarah, duchess of Marlborough, XV, *b* 560, *a* 561, *b* 562
Jensen, Christen, author (Norway), XVII, a 604
——, Peter Andreas, poet (Norway), XVII, b 605
Jenson, Nicolas, printer (Manutius), XV, b 520; (Typography), XXIII, a 724, a 729, b 730, a b 731, a 733, a 739
Jenyns (afterwards Blomefield), Leonard, naturalist (Ornithology), XVIII, a 22
JENYNS, Soame, apologist XIII, a 636
JEPHTHAH, Judge, XIII, b 636; (Mizpah), XVI, b 555
Jequitinhanha river (Brazil), IV, b 199
Jerablûs, town (Hierapolis), XI, *b* 706
Jerabub, convent (Sahara), XXI, b 159; (Tripoli), XXIII, b 612
Jerash or Gerash, city. See GERASA
Jerba, island (Gerba), X, b 397; (Tunis), XXIII, *a* 660
JERBOA, rodent, XIII, b 636–7; (Arabia), II, a 212; (Mammalia), XV, a b 421, a 422, a 425
JERDAN, William, journalist, XIII, a b 637
Jeremiah, patriarch (Greek Church), XI, a 141
JEREMIAH, prophet, XIII, b 637–9; (Ark of the Covenant), II, b 473; (Baruch), III, b 348–9, a 350; (Bible), a b 553, a 554; (Cryptography), VI, a 593; (Hebrew Language and Literature), XI, *a* 535; (Israel), XIII, b 425, a 426–7; (Job), a 714; (Jonah), b 747; (Lamentations), XIV, a b 242–3; (Messiah), XVI, b 58, a 59; (Micah), a 233; (Moloch), b 722; (Obadiah), XVII, *a* 722; (Prophet), XIX, *b* 841, a b 842; (Scythia), XXI, a 604, note
Jeremy, Epistle of (Baruch), III, a 350
JEREZ DE LA FRONTERA, city, XIII, a 640; (Wine), XXIV, *b* 639
JEREZ DE LOS CABALLEROS, city, XIII, a 640
Jerichau, Jens Adolf, sculptor (Sculpture), XXI, b 597
JERICHO, city, XIII, a b 640; (Dead Sea), VII, a b 4
Jerked meat (Preserved Food), XIX, a 727
Jerkin (Costume), VI, a 416, b 417, *a* 418, *b* 419
Jerm river (Hindú Kúsh), XI, b 748, a 749
Jermûk mountains (Galilee), X, b 26
Jermyn Street Museum (Pottery and Porcelain), XIX, a 664
Jeroboam I., king (Israel), XIII, a b 416; (Kings), XIV, *a* 86, a 87
—— II., Israel (Amos), I, a 656; (Hosea), XII, *a* b 309; (Israel), XIII, a 418, a b 420; (Moab), XVI, b 558
Jerolimo (Holland), XII, b 97
JEROME, ST., or Eusebius, Sophronius Hieronymus, XIII, b 640–2; (Bible), III, b 559; (Canon), V, a 3, a b 6, *a* 8, b 10, a 12–3; (Catacombs), a 180, b 181; (Catullus), *a* b 215; (Chronicles), b 613, a 616; (Clemens Alexandrinus), *a b* 716; (Crusades), VI, b 549; (Damasus I.), *b* 698, note; (Episcopacy), VIII, a *b* 431; (Fathers of the Church), IX, b 44, a 45; (Gospels), X, a 722, a 725 note, a 730; (Hermeneutics), XI, b 667–8; (Jesus Christ), XIII, b 681; (Jovinianus), a 766; (Jude), b 771; (Mary), XV, a 597; (Millennium), XVI, b 329; (Monachism), b 728; (Origen), XVII, a 867; (Orosius), XVIII, a b 54; (Palæography), b 148, b 149 note; (Pelagius), b 481, a b 482, a 484; (Pilgrimage), XIX, b 102; (Popedom), b 504; (Rufinus), XXI, *a b* 61; (Tertullian), XXIII, *b* 214; (Ursula, St.), XXIV, b 17, b 18; (Varro), b 100; (Vigilantius), *b* 242
Jerome, Vision of St., painting (Parmigiano), XVIII, a 323
Jerome's *Psalter* (Psalms), XX, *a* 39; version (Bible), III, a 558
JEROME of Prague, reformer, XIII, b 642–3; (Hussites), XII, b 422
Jerrard, G. B. (Algebra), I, a 455
JERROLD, Douglas William, dramatist, XIII, a 643–5
——, Samuel, actor, XIII, a 643
JERSEY, island, XIII, a 645–6; (Agriculture), I, *b* 366, a 367; (Channel Islands), V, *a b* 340, *a* b 341; (Presbyterianism), XIX, b 705; coins of (Mint), XVI, a 505
—— Blues (New Jersey), XVII, a 409
—— or branching Cabbage, IV, a 549
—— cattle (Agriculture), I, a 345
JERSEY CITY, N. J. (Plan), XIII, a b 646
Jerubbaal, judge (Gideon), X, a 526
Jerún, island (Ormus), XVII, a b 881
JERUSALEM, city (Plate X), XIII, a 646–55
  ancient (Ill.), a 649–53
  David's time, b 649–50
  Hasmonean city, b 651–2
  Herodian city, a 652–3
  literature, a b 655
  modern city, a 653–5
  name, a 646
  post-exile city, a b 651
  separation of tribes, city during, b 651
  topography (Ill.), a 647–9
—— (Crusades), VI, a b 549, b 554; (David), a 736, b 738; (Fortification), IX, a 389; (France), a 475; (Hezekiah), XI, a 703; (Israel), XIII, a b 415, a b 416, *a b* 423–4, *a* b 426–7, a b 430, a *b* 431, a 432, *a b* 434, a 435, a 437–8, b 439; (James), b 562, a 563; (Jews), b 697; (Mosaic), XVI, b 880, a 881; (Mosque), a 891, a 893; (Numismatics), XVII, b 667–8; (Palestine), XVIII, b 177, a 178, a b 181, a 182; (Persia), b 608, b 625; (Pilgrimage), XIX, b 101, a 102, *a* b 103; (Sepulchre, Holy), XXI, a b 703–5; centralization of worship at (Pentateuch), XVIII, a b 520, a 521; climate of (Syria), XXII, a 861; fall of, 588 B.C. (Isaiah), XIII, b 393; fall of Latin Kingdom of, 1187 (Templars), XXIII, a 177–8; Mohammed's night journey to (Mohammedanism), XVI, b 574; patriarchate of (Greece), XI, a 138; Protestant bishopric of (Bunsen), IV, b 468; rebuilding of (Artaxerxes), II, a b 561; siege of, 1098 (Crusades), VI, a b 553; topography (Temple) (Ill.), XXIII, a 182, a 185–7; *Histories* of, Kingdoms of (William of Tyre), XXIV, a 616
—— artichoke, II, b 571; (Horticulture), XII, a 295; (Sunflower), XXII, a 694
—— chamber (Abbey), I, a 20; (London), XIV, b 847–8
Jerusalem, my happy home (Hymns), XII, a b 626
—— *the Golden* (Hymns), XII, b 618
——, the Heavenly (Paradise), XVIII, b 240
—— *Urbs beata* (Hymns), XII, b 617, a *b* 619
——, Karl Wilhelm, critic (Goethe), X, a 646
Jervis, Cape (South Australia), XXII, a b 297
——, Sir John, admiral. See ST. VINCENT, Earl of
——, John B., engineer (Steam-Engine), XXII, b 923
Jerzed, game (Arabia), II, b 210
JESI, city, XIII, a 655
Jessamine, plant. See JASMINE
——, Carolina (Gelsemium), X, a 121
Jesse, father of David, VI, a 737

Jesse, Edward, naturalist, XIII, a 655
Jesse, John Heneage, historian, XIII, b 655
—— tree (Wood-Carving), XXIV, b 680-1
Jessonda (Spohr), XXII, b 426
Jessop's rail (Railway), XX, a 231
Jessor or Jessore, district, XIII, b 655-6
Jessur, serpent (Snake), XXII, a 210
Jest (Camoens), IV, b 660-1
Jester (Fool), IX, a 320
Jesuit conspiracies (Scotland), XXI, a b 530; contests with La Chalotais, XIV, b 192; controversies in France (Pamphlets), XVIII, b 209, a 210; Education, VII, b 584-5; (Universities), XXIII, a 898, *b* 901, *a* b 902; (Vega Carpio), XXIV, a 132; intrigues (Russia), XXI, b 102, note; against Queen Elizabeth (Parsons), XVIII, a b 333
—— missionaries (Clement, XI.), V, a 719; (Minnesota), XVI, b 499; (Philippines), XVIII, a b 766; in Asia (Geography), X, *a* 168
—— missions (Benedict), III, b 482; (Lhasa), XIV, b 502-3; (Peru), b 689; (Propaganda), XIX, b 832, a b 833; (Punjáb), XX, *b* 116; (Uruguay), XXIV, b 19, a 21
Jesuitesses, order (Monachism), XVI, b 738 note, b 742
Jesuitism (Casuistry), V, b 177-8; (Ethics), VIII, a 524; (Vatican Council), XXIV, b 120-1
Jesuits, The, XIII, a 656-67
  attacks, theological, upon, b 660-1
  bibliography, b 667
  Clement XIV., a 666
  constitutional structure of order, a b 658-9
  counter-reformation, a b 659
  eighteenth century, a 665-6
  history, b 662-7
  influence of, recent, b 662
  intellectual limitations of, b 661-2
  Jansenist epoch, b 664-5
  Laynez to Acquaviva, a b 664
  Loyola period, b 662-4
  mobility, a 657
  nineteenth century, b 666
  obedience, a b 657, a 662
  odium and failures of, b 659-60
  papacy, relations to, a 659, a b 662
  social relations of, b 656

—— (Arnauld), II, a *b* 542-3; (Brazil), IV, *a* 206, *b* 207, a 215; (California), b 615; (Campian), a 673; (Choiseul), V, a 592; (Clement XIII.), b 719; (Descartes), VII, a b 110; (Fawkes), IX, b 51, a b 52; (Ferdinand VII., Spain), b 73; (France), b 522, b 588; (Francis Borgia, St.), b 611-2; (Freemasonry), b 658, a 660; (Germany), X, *a* 448; (Gioberti), b 540, a 541; (Gresset), XI, b 167; (Guatemala), a 214; (Hungary), XII, *b* 384; (Immaculate Conception), b 754; (Innocent XIII.), XIII, b 92; (Ireland), b 271; (Italy), a 493, a b 494, a 495, *a* 496, a 526; (Jansenism), *a b* 576-7; (Liguori), XIV, b 642, a 646
—— (Loyola), XV, b 32; (Lucerne), a 42; (Madagascar), a 176; (Mariana), *b* 546; (Maté), a 634; (Michelet), XVI, a 244; (Molina), a-b 653; (Molinos), b 653, a 654; (Monachism), a b 738, b 740, b 742; (Oates), XVII, b 716, *a* 717; (Pius IX.), XIX, a b 167, a 168; (Poland), a b 309, a 312; (Popedom), a 518, a b 519, a 520, a b 521, a 522, a 523; (Scaliger), XXI, a b 380; (Tong-King), XXIII, a 469
—— in China (Alenio), I, b 422; (Asia), II, a 613; (Missions), XVI, b 536, b 540; (Ricci), XX, b 550-2; (Surveying), XXII, b 731
——, English toleration of (Roman Catholic Church), XX, a 648; expulsion of (Spain), XXII, b 355; (France), IX, b 522; (Universities), XXIII, b 906; rise of (Trent, Council of), a 583; suppression of (Clement XIV.), V, a b 719; (Pius VI.), XIX, a 165; (Popedom), a 522
—— in Paraguay (America), I, *a* 613, b 616-7; (Paraguay), XVIII, a b 249
—— of the short robe, XIII, a b 658
Jesuits' bark (Cinchona), V, *b* 682
—— tea. See Maté
Jesus Christ, XIII, a 667-83
  betrayal and death, b 678-9
  characteristics, a 680-1
  Christian sources of knowledge of, b 669-70
  christology, history of, a 681-2
  chronology of life, b 670-1
  early ministry, St. John's account, a 674-6
  flight, a 677
  Galilean ministry, early, b 674-5
  heathen sources of knowledge of, a b 668
  infancy, b 671-2
  Jewish sources of knowledge of, a 669-70
  John the Baptist period, a 673-4
  journey to Jerusalem, last, b 677
  literature, a b 683
  name, a 667
  nativity, a 671
  Nazarene period, a b 672
  opposition period, a 676-8
  resurrection period, b 679-80
  state of the world, b 672
—— (Abgar), I, b 50; (Acrostic), a 113; (Acts of the Apostles), a b 115; (Apologetics), II, a b 167; (Bogomili), III, a 746; (Celsus), V, a 257; (Docetæ), VII, a 269; (Dogmatic), a 290, a 291; (Elisha), VIII, a 132; (Fasting), IX, b 41; (John, Epistles of), XIII, a b 719; (Manichæism), XV, *a* 491; (Marcion), a 542; (Messiah), XVI, a 61; (Sabbath), XXI, b 132, a 133; (Theism), XXIII, b 258; (Theology), b 288; (Valentinus), XXIV, b 44, *a* 45, *a b* 46; biographies of (Keim), XIV, b 29; (Paulus), XVIII, a 446; (Strauss), XXII, b 620, a 621
—— and his contemporaries (Christianity), V, a b 599; and the scribes (Bible), III, b 554; dignity of (Monarchianism), XVI, a b 745; Gnostic theory of (Carpocrates), V, a 117; (Gnosticism), X, a b 628; Hegel's view of, XI, a 547, a 554; John's view of His agony (Gospels), X, a *b* 735-6; Pauline doctrine of (Paul), XVIII, a 435-6; poem on passion of (Euripides), VIII, b 595; protest of (Sacrifice), XXI, b 146; second advent of (Eschatology), VIII, b 472, b 473; (Shí'ites), XXII, b 700. See Christ
——, *True Gospel of* (Chubb), V, a *b* 662
Jesus College, Cambridge (Alcock, Bishop), I, a 415; (Cambridge), IV, a 647; Oxford (Libraries), XIV, b 518, b 545; (Oxford), XVIII, b 100
—— de Monte, shrine (Braga), IV, b 180
—— patibilis and impatibilis (Manichæism), XV, a 491
Jesus, the son of Sirach, XIII, a 683; (Apocrypha), II, a b 159, a 160
Jesu von Nazara, Keim (Jesus Christ), XIII, b 682, b 683
Jeswant Ráo, king (Indore), XII, b 886
Jet, mineral, XIII, a 683-4; (Coal), VI, a 45; (Mineralogy), XVI, b 448; (Whitby), XXIV, b 579
—— of fluids (Hydromechanics), XII, a 481, a 492-3, b 496-9, b 539-43; contraction (Hydromechanics) (Ill.), XII, a 483-5, a 491-2, b 493-4; inversion (Hydromechanics) (Ill.), XII, b 485-6; measurement (Hydromechanics), a b 483; photometer (Gas Lighting), X, b 90; propeller (Hydromechanics) (Ill.), XII, b 544; pump (Hydromechanics) (Ill.), XII, b 497, b 498-9; velocity of filaments in (Hydromechanics), XII, a b 492; vibrations (Hydromechanics), XII, a b 486
—— in types (Typography) (Ill.), XXIII, b 744
Jetee (Fibres, Textile), IX, a 116
"Jethart Justice" (Jedburgh), XIII, a 624
Jethro, priest (Moses), XVI, b 888
Jetties (River Engineering) (Ill.), XX, a b 592, b 595, a b 596; (Galveston), X, b 49; (Mississippi), XVI, a b 544; Clyde (Glasgow), X, b 570, a 571
Jettison (Average), III, a b 127
Jettons, medals, Dutch (Numismatics), XVII, b 674, b 675
Jetsam, goods lost (Flotsam), IX, a 300
Jetur, son of Ishmael, XIII, b 396
Jeu-parti, dialogue poem (France), IX, b 567
Jevdet Pasha, historian (Turkey), XXIII, b 699
Jevons, William Stanley, political economist, *b.* 1835, *d.* 1882 (Condillac), VI, b 224; (England), VIII, a 205; (Mint), XVI, a 507; (Political Economy), XIX, b 372, b 394, b 408, b 409, a b 412. See List of Contributors
Jew, The Wandering, XIII, a 684-5. See Wandering Jew
Jewar, town (Bulandshahr), IV, b 461
Jewel or Jewell, John, bishop, XIII, b 685-6; (English Literature), VIII, a 372
Jewelled Sèvres ware (Pottery and Porcelain), XIX, a 658
Jeweller's Cement, V, b 285; rouge (Copper), VI, a 311; (Copperas), a 313
Jewellery (Plates XI, XII), XIII, a 686-90
  ancient, a 686-7
  European antique, b 687-8
  Greek, Roman and Etruscan, b 686, a b 687
  handmade, a b 689
  imitation, a 690
  Indian smith, b 688
  machine made, a b 690-1
  modern, a 689
  oriental, a b 686
  Schliemann's discoveries, b 686-7

—— (Adulteration), I, b 160; (Amber), b 579; (Cairngorm), IV, b 572; (Ear-Ring), VII, b 515-6; (Etruria), VIII, a b 564; (Filigree), IX, a 143-4; (India), XII, a b 801; (Italy), XIII, b 464; (Marcasite), XV, a b 539; (Rhode Island), XX, b 538; alloys (Gold), X, a 668; Aztec (Mexico), XVI, b 221; Greek Terra-cotta, XXIII, a 210
Jewett, Charles Coffin, librarian (Smithsonian), XXII, a 914
Jewish Architecture, II, b 343-5; Baptism, III, b 300-1; Catacombs, V, a 186; Catechisms, b 191
—— Christians (Acts of the Apostles), I, b 118; (Hebrews), XI, b 539-41; (James), XIII, b 563-4; (Paul), XVIII, b 428, b 430; (Peter), b 710

Jewish church (Elder), VII, a 719; (Proselyte), XIX, b 845; *History of* (Stanley), XXII, b 468, b 469; Confessions, VI, b 228; Costume (Ill.), VI, a 405-7; (Jews), XIII, b 694; cubit (Weights and Measures), XXIV, a b 511; era (Chronology), V, *b* 619-20; Ethics, VIII, b 518-9; Excommunication, VIII, b 698-9; (Penance), XVIII, b 495; Hermeneutics, XI, a b 664-5
—— law (Israel), XIII, a b 408-9, a 410, a 419, b 428-9; (Maimonides), XV, a b 298; (Midrash), XVI, a 297-300; (Mishnah), a 526-31; (Taboo), XXIII, b 22, a 23; (Talmud), a 40-3
—— literature (Bible), III, b 548-53; (Canon), V, b 4-7; Apocalyptic, II, b 153-7; (Antichrist), II, a 111; (Revelation), XX, b 510-11; Greek (Israel), XIII, a 430. See HEBREW LANGUAGE AND LITERATURE
—— marriages (Ring), XX, b 576
—— philosophy (Alexandrian School), I, b 441-2; (Arabian Philosophy), II, b 236, a 237; (Averroes), III, a 131; (Kabbalah), XIII, a 820-3; (Philo), XVIII, b 773-8
—— priesthood (Levites), XIV, b 487-9; (Priest), XIX, b 746-9; psalm tones (Plain Song), a b 180; Temple, XXIII, a 182-7; in Egypt, VII, a 647, a 648
—— theology (Inspiration), XIII, b 161; (Mysticism), XVII, b 137; mediæval (Theism), XXIII, a 262, note
Jewish War (Josephus), XIII, a 762
Jewish year (Calendar), IV, a 601-2
Jew of Malta, tragedy (Marlowe), XV, *a* 564
Jews, ancient (Apocrypha), II, b 159, a 160; (Babylonia), III, b 167; (Beard), III, b 399; (Education), VII, a 582; (Fasting), IX, b 40-1; (Festivals), b 101; (Millennium), XVI, a 328; (Samaritans), XXI, b 256, a b 257, a 258; (Semitic Languages), a 677-8, b 679, a b 680
Jews, Antiquities of the (Josephus), XIII, b 762
——, captivity of. See Babylonian Captivity; return from (Haggai), XI, b 331-2; colonies of (Israel), XIII, b 439; dispersion of (Israel), a 430, a 439-41; (James), b 563; (Talmud), XXIII, b 43; Grecian (Hellenists), XI, b 568
——, *History of the* (Milman), XVI, b 335; loss of independence (Pentateuch), XVIII, a b 521; rebellions of (Hadrian), XI, b 325; (Israel), XIII, a b 431, a b 434, a 437-8; (Trajan), XXIII, a 537; restoration of (Israel), XIII, b 427-8; at Rome (Romans), XX, b 746-7; worship of (Image-Worship), XII, b 749-50; (Pilgrimage), XIX, b 101; (Tabernacle), XXIII, b 9-10. See ISRAEL and Hebrews
JEWS, modern, XIII, a 690-8
  Africa, a 698
  America, a b 698
  Asia, b 697-8
  Austria, a 696
  Baltic States, b 696-7
  Danubian States, a 697
  emancipation, b 692, a 693, b 694
  England, b 694-5
  France, a b 693
  internal sects, Germany, a 691
  literature, b 698
  Mediterranean States, a b 696
  Mendelssohn, Moses, b 690-1
  North Sea, Continental States, b 696
  Orthodox, a b 691-2, a 695
  periodicals, b 698
  Portugal, b 696
  reformed, a 691
  Sanhedrin at Paris, a b 693
  scholasticism, modern, Germany, a b 692
  Turkey, a b 697
—— (Ablution), I, a b 52; (Acclimatization), a b 84; (Africa), b 234, a 235; (Bastard), III, b 369; (Bokhara), IV, a b 3; (Brody), a 324; (Cochin), VI, b 85; (Commerce), a 177; (Coronation), a b 380; (Cremation), *b* 500; (Cromwell), a 534; (Cyprus), a 661; (Dyeing), VII, a 493; (Egypt), a 631, b 656; (Ferdinand V., Castile), IX, a 72; (France), b 452, b 477; (Gibraltar), X, b 522; (Heine), XI, a 558-9; (Holland), XII, b 67, a 69; (Hungary), b 379, b 388; (Hygiene), b 600
—— (Innocent III.), XIII, b 90; (Inquisition), b 99, a 101; (International Law), a 197; (Ispahán), a 406, note; (Israel), XIII, a 440-1; (Jew, Wandering), a b 685; (K'ai-Fung Foo), a 833; (Karaites), XIV, a 4; (Kharasu-Bazar), b 5; (Khazars), b 62; (London), b 855, a 856, a 859; (Magic), XV, a 204; (Mahzor), b 294-5; (Malta), a 345; (Mohammedanism), XVI, a 571, b 573, b 574, b 575, b 576-7, a 579, a 580, a 581; (Morocco), a b 860; (Narbonne), XVII, *b* 236; (Persia), XVIII, b 591, note, a 620, a 622; (Poland), XIX, b 309, *b* 321, a 322, b 323; (Portugal), b 552, b 560, a b 561; (Prague), a 678; (Prussia), XX, b 21; (Russia), XXI, b 87, b 88, b 89; (Usury), XXIV, *b* 23; (Worms), a 720; (Zhitomir), b 822
——, Abyssinian, I, *a* 63; (Falashas), IX, a b 3; at Basel (Buxtorf, J. J.), IV, a b 535; in England (Cromwell), VI, a 534; (Friendly Societies), IX, a b 687; (Peters), XVIII, a 716; (Sunday), XXII, a 691; in Europe, speech of (Anthropology), II, b 105-6
——, *Histories of* (Jost), XIII, a 764
——, Italian (Mahzor), XV, a 295, notes
——, persecution of (Brussels), IV, a 365; (Deggendorf), VII, a 30; (Germany), X, a 444; (Rosh), XX, a 875 note; (Spain), XXII, b 323, a *b* 324, a 341
—— at Rome (Carnival), V, b 108, a b 109; (Popedom), XIX, b 502, a 503; return of (Syria), XXII, b 862; statistics of (Germany), X, a b 421, a b 422, *b* 423
Jews' Castle (Karaites), XIV, b 4
JEW'S HARP or Jew's trump, XIII, b 698-9
Jews' quarter (Alexander), I, a 436
JEYPORE or Jaipur, state, XIII, a b 699; (Jodhpur), a 715; (Rájputana), XX, b 272; city, XIII, b 699
Jeysulmere, state. See JÁISALMIR
Jezebel, queen (Ahab), I, a b 373; (Israel), XIII, b 417
Jezira, district (Babylonia), III, a 159; (Mesopotamia), XVI, a b 53, b 56
Jezírat el-Jesírát, island (Senaar), XXI, b 689, a 690
JEZREEL, city, XIII, b 699-700; plain of (Israel), b 411; (Palestine), XVIII, b 175, a 176; (Galilee), X, *a* 26, a 27
Jhajhar, town (Bulandshahr), IV, b 461; (Rohtak), XX, *b* 639
Jhálakátí or Mahárájganj, town (Bákarganj), III, a 214
JHÁLÁWÁR, state, XIII, a b 700
JHANG, district, XIII, b 700; (Punjab), XX, b 112, b 114; town, XIII. a 701
JHÁNSI, district, XIII, a b 701; (India), XII, b 848, a 850; city, b 701; (Bundelkhand), IV, *a b* 466
Jharijá Rájputs (Cutch), VI, a b 645
JHELUM, or Jhilam, district, XIII, b 701-2; (Punjab), XX, b 112, a 115; town, XIII, a 702
—— or Behat, river (Kashmír), XIV, *a* 12, *a* 15; (Punjab), XX, *a b* 112, note, b 114; (Sháhpur), XXI, *b* 771-2
Jhering, jurist. See Ihering
Jhils or lakes (Hardoi), XI, a 424
JHIND or Jind, state, XIII, a b 702
Jib, beam (Crane), VI, b 484-5
Jiboa river (San Salvador), XXI, a 281
Jiboya species (Boa), III, b 731
Jibs (Sail), XXI, b 161
Jidah river. See Djidja
JIDDAH or Juddah, town, XIII, b 702-3; (Arabia), II, a 214, a 221, b 223, a b 228
Jigat, town (Dwârakâ), VII, b 489
"Jigg" (Horse), XII, b 186, a 188
Jigger, insect (Flea), IX, a 263; (Insects), XIII, a 157
——, ore-separator (Mining) (Ill.), XVI, b 485-6
Jihád, holy war (Mohammedanism), XVI, a 578
Jihlava, town (Iglau), XII, b 738
Jihun river (Asia Minor), II, b 619; (Cappadocia), V, b 67; (Cilicia), a 679
Jiljûlieh, town (Gilgal), X, b 532
JILOLO, Gilolo or Djilolo, island, XIII, b 703-4; (Indian Archipelago), XII, a 855, note, b 859; (Reptiles), XX, a 483
"Jim crow" (Machine Tools), XV, a 156
JIMENES or Ximenes de Cisneros, Francisco, cardinal, XIII, a 704-5
Jinas, prophets (Jains), XIII, a b 553
Jinghiz-tau mountains (Semipalatinsk), XXI, a 671
Jingô, empress (Japan), XIII, a 579, a 594
Jingri mountains (Tibet), XXIII, a 363
Jinns, demons (Mohammedanism), XVI, a 570, a 574
Jinos, Rio do, river (São Leopoldo), XXI, b 315
Jin-riki-sha, vehicle (Japan), XIII. b 586
Jin-tsung I., emperor (China), V, b 561
——, Mongol emperor (China), V, b 562-3
Jin valley (Borgu), IV, *b* 48
Jipe, river and lake (Kilimanjâro), XIV, a 76
Jiphthah-el, valley (Galilee), X, *a* 26
Jirecek, Hermenegild, historian (Slavs), XXII, b 162
——, Joseph Constantine, historian (Schafarick), XXI, a b 403; (Slavs), XXII, b 162
Jirgalan, river (Issik-Kul), XIII, a 442
Jirim, district (Badakhshan), III, b 192
Jirjeh, town (Girgeh), X, b 555
Jitomir, town. See Zhitomir
Jizak, town (Syr-Daria), XXII, a 860
Jmud', race (Lithuanians), XIV, b 707, *b* 708
Joab, general (Abner), I, b 52; (David), VI, b 738, b 739-40; (Israel), XIII, b 414, a b 415
Joachim (Mary), XV, a 597
—— I., Brandenburg, elector, Nestor (Prussia), XX, b 8
—— II., Brandenburg, elector (Prussia), XX, b 8-9
—— Frederick, Brandenburg, elector (Prussia), XX, b 9
JOACHIM of Floris, abbot XIII, b 705; (Millennium), XVI, a 330; (Mysticism), XVII, b 139; (Renaissance), XX, b 394
——, George, mathematician, See RHETICUS

JOACHIMSTHAL, town, XIII, a 706; (Bismuth), III, b 687; (Uranium), XXIV, b 11, a 12
Joal, town (Senegal), XXI, b 692, a 693
JOAN, female pope, XIII, a b 706
—— I., queen (Province), XIX, a *b* 903
JOAN OF ARC, Maid of Orleans, XIII, b 706–8; (Charles VII. of France), V, b 356; (France), IX, a b 485; (Orleans), XVII, a 874, *a* b 875; (Paris), XVIII, b 296; (Talbot), XXIII, a 31
Joan of Arc, poem (Southey), XXII, b 304
——, Fair Maid of Kent, princess (Edward, Black Prince), VII, b 595
Joanna, queen of Castile (Ferdinand V.), IX, b 72; (Padilla), XVIII, b 135; (Spain), XXII, b 341, *a* 342, *a* 343
—— I., Giovanna or Joan, Naples (Boccaccio), III, b 733; (Clement VI.), V, b 718; (Italy), XIII, b 488
—— II., Naples (Alphonso V.), I, a 543; (Rome), XX, *a b* 822
—— of Navarre, queen, England (Costume), VI, a 416
—— of Portugal, queen of Castile (Spain), XXII, b 336
—— of Castile, La Beltraneja, princess (Ferdinand V.), IX, b 71–2; (Spain), XXII, b 336, *a* 340
Joanna or Jeanne Henriquez, queen of Aragon (Charles IV., Navarre), V, a 367; (John II., Aragon), XIII, b 726; (Spain), XXII, *a* b 339
—— de Jesu-Maria, nun (Stigmatization), XXII, b 577
—— Maria della Croce, nun (Stigmatization), XXII, b 577
Joannes. See John
——, jurist (Bassianus), III, b 367
——, usurper (Aquileia), II, a 201
JOANNES DAMASCENUS, saint, VI, b 695; (Barlaam), III, b 324; (Dogmatic), VII, a b 294–5; (Fathers of the Church), IX, b 44; (Greece), XI, a 130, a 131; (Hymns), XII, a 614, b 615; (Image Worship), *a* 751; (Mary), XV, a 598
—— Pediasimus, scholiast (Greece), XI, a b 130
—— III., Scholasticus, patriarch (Canon Law), V, a 16
Joanneum (Gratz), XI, b 57
Joannina, town and lake. See JANINA
Joannitius (Medicine), XV, b 814
João. See John of Portugal
Joár, grain (India), XII, a 771, a 786
Joash, king (Israel), XIII, b 422
JOB, Book of, XIII, b 708–14
    analysis of, b 709–11
    authorship, a 714
    contents, b 708–9
    date, a b 713
    design, a 709–10
    integrity, b 711–13
—— (Bashan), III, b 354; (Bible), b 552; (Devil), VII, b 117, a 118; (Ecclesiastes), a b 541; (Hebrew Language and Literature), XI, a 535; (Israel), XIII, a 430, note; (Pessimism), XVIII, b 699–700; (Physiognomy), XIX, a 8; (Pilgrimage), b 102; (Uz), XXIV, b 27; (Zechariah), a 812; illustrated (Blake), III, b 699, b 700; *Paraphrased* (Abbot, George), I, b 30; prologue to (Yemen), XXIV, a 776
Jobbers, stock (Stock Exchange), XXII, b 585
Jobelins, partisans (Voiture), XXIV, b 297
Jobite khalifate (Caliph), IV, b 626
JOB'S TEARS, seeds, XIII, a b 714; (Grasses), XI, a b 50
Jobst or Jodocus of Moravia, margrave (Germany), X, b 444; (Prussia), XX, a 7; (Wenceslaus), XXIV, b 528, a 529
Jocelyn, bishop (Glasgow), X, a 569
Jochebed (Holland), XII, a 101
Jockey Club, England (Horse), XII, a 205; clubs U. S. (Horse), XII, b 207
Jockeys, English (Dwarf), VII, a 490; training of (Horse), XII, b 202–3
Joculares or Joculatores. See Jongleurs
Jodelet, play (Scarron), XXI, *a* 395
Jodelle, Stephen or Étienne, Sieur du Lymodin, dramatist (Drama), VII, a 366; (France), IX, b 572, *b* 573
JODHPUR, state, XIII, b 714–15; town, b 714, a 715
Jodocus. See Jobst
—— of Ghent, painter (Van Eyck), VIII, b 713
JOEL, Book of, XIII, a 715–7; (Isaiah), *b* 390, b 391; (Obadiah), XVII, b 722
Joerbeth, god (Magic), XV, a 202
Jo Erdeni temple (Lhasa), XIV, b 496, note, b 498–9
Joggles (Building) (Ill.), IV, a b 422, a b 423, b 427, b 428, b 429, *b* 430
Jogis, devotees (Penance), XVIII, a 495
Joglars. See Jongleurs
Johanna, island (Comores), VI, *b* 196
Johanna, princess. See Jeanne or Joanna
—— Beaufort, queen of Scotland, XXI, a 514, *b* 515
Johannes, king (Abyssinia), I, b 66
—— of Epiphaneia (Byzantine Historians), IV, b 544
—— de Varanis, rector (Universities), XXIII, b 889
Johannesburg, town (Transvaal), XXIII, b 550, b 551
Johanngeorgenstadt, town (Saxony), XXI, b 372, a 373
Johannine doctrine (Logos), XIV, a 814
Johannisburg, building (Aschaffenburg), II, b 592
Johannists, sect (Chrysostom), V, b 661
Johannite (Mineralogy), XVI, b 418
Johansson, Lars, poet (Sweden), XXII, a 793
John. Equivalent forms, Giovanni, Hans, Ivan, Jan, Jean, Joanes, Joannes, João, Johann, Johannes, Juan, Yohann
JOHN, apostle, XIII, b 717–8; (Cerinthus), V, *a* 301; (Gospels), X, b 725 note–6, a 728, a b 729, a 730, a b 747; (Mark), XV, *b* 558; (Patmos), XVIII, b 418; (Peter), b 707; (Revelation), XX, a 514–5; (Theology), XXIII, a 280; (Tonsure), b 472
JOHN, Epistles of, XIII, b 718–20; (Antichrist), II, a b 111; (Gospels), X, a *b* 729; gospel compared with (Gospels), a 737–8
——, *Gospel of St.*, X, a 728–47; (Bible), III, a 555, a 556; (Bretschneider), IV, a b 234; authorship of (Gospels), X, b 747, a 749; critical history of, a 749; external evidence for, b 729–38; parts common to John and Luke (Gospels), a b 735. See Gospel, Fourth
JOHN the Baptist, XIII, b 720; (Baptism), III, b 300–1; (Elijah), VIII, a 128; (Gospels), X, b 707, b 720, b 733, *b* 739–40; (Jesus Christ), XIII, a b 673, a b 674, a 675; (Mandæans), XV, a 475, note, a 477, *a* 478; head of (St. Jean D'Angely), XXI, a 181
—— the Presbyter or Elder (Gospels), X, b 725, note, a 726 note, *b* 729–30, *b* 747; (John, Epistles of), XIII, a 718, a 720; (Mark), XV, a 559
JOHN I., St., pope, XIII, b 720; (Boetius), III, a 745
JOHN II., pope, XIII, b 720
JOHN III., pope, XIII, a 721
JOHN IV., pope, XIII, a 721
JOHN V., pope, XIII, a 721
JOHN VI., pope, XIII, a 721; (Rome), XX, b 801
JOHN VII., pope, XIII, a 721
JOHN VIII., pope, XIII, a b 721; (Methodius), XVI, *a* 202; (Photius), XVIII, b 833; (Popedom), XIX, b 511; (Troyes), XXIII, b 627; (Palæography) (Ill.), XVIII, b 160
JOHN IX., pope, XIII, b 721
JOHN X., pope, XIII, b 721; (Rome), XX, a b 805
JOHN XI., pope, XIII, b 721; (Rome), XX, *b* 805, a 806
JOHN XII., Octavian, pope, XIII, b 721–2; (Otho I.), XVIII, b 69; (Popedom), XIX, b 511, a 524; (Rome), XX, a *b* 806
JOHN XIII., pope, XIII, a 722; (Rome), XX, a 807
JOHN XIV., pope, XIII, a 722
JOHN XV., pope, XIII, a 722; (Rome), XX, b 807
JOHN XVI., pope, XIII, a b 722
JOHN XVII., pope, XIII, b 722
JOHN XVIII., pope, XIII, b 722
JOHN XIX., pope, XIII, b 722; (Guido), XI, a 229; (Rome), XX, *a* 808
JOHN XXI., pope, XIII, b 722; (Popedom), XIX, a 571; (Scholasticism), XXI, b 447, b 448 note
JOHN XXII., pope, XIII, b 722–3; (Alchemy), I, b 411; (Canon Law), V, *b* 18; (Cardinal), b 86; (Germany), X, *b* 443; (Louis IV.), XV, *b* 18; (Music), XVII, b 91; (Occam), a 738, a b 739; (Popedom), XIX, a 516, b 524; (Reformation), XX, b 335; (Robert), *b* 610; (Rome), b 816, a 817; (Trinity Sunday), XXIII, b 611; (Universities), b 894
JOHN XXIII., pope, XIII, b 723; (Alexander V.), I, b 430; (Gerson), X, b 491, a 492; (Huss), XII, *b* 420, *a* 421; (Mannheim), XV, b 501; (Medici), b 794; (Popedom), XIX, a 517, b 524; (Rome), XX, a 822
JOHN I., emperor of the East, Zimisces, XIII, b 723; (Greece), XI, a b 103, a 104; (Paulicians), XVIII, a 445
JOHN II., emperor of the East, Comnenus, XIII, b 723–4; (Greece), XI, *a* 105
JOHN III., emperor of the East, Ducas, XIII, a 724
JOHN IV., emperor of the East, Lascaris, emperor, XIII, a 724; (Michael VIII.), XVI, b 235
—— V., emperor of the East, CANTACUZENUS, V, b 25–6; (Byzantine Historians), IV, b 545; (Greece), XI, b 107
JOHN VI., emperor of the East, Palæologus, XIII, a 724; (Cantacuzenus), V, b 25–6; (Innocent VI.), XIII, b 91; (Palæologus), XVIII, a 170
JOHN VII., emperor, Palæologus, emperor, XIII, a 724
—— of Anjou, prince (Ferdinand I., Naples), IX, *a* 69
JOHN I., Aragon, XIII, b 726; (Spain), XXII, *a* 338
JOHN II., Aragon, XIII, b 726–7; (Spain), XXII, *b* 338–40, a *b* 340
JOHN of Austria, Don, general, XIII, a 727–9; (Cervantes), V, b 302, a b 303; (Farnese), IX, *a* 34; (Holland), XII, *b* 79; (Messina), XVI, b 62; (Perez), XVIII, b 535; (Philip II.), b 758, a 759, a 760; (Spain), XXII, a *b* 347; (Tunis), XXIII, *a* 661; (Turkey), a 685; (Venice), XXIV, *a* 157
—— of Austria, son of Philip IV. (Charles II.), V, *a* 363
—— of Austria, Baptist, vicar imperial (Germany), X, b 454; (Napoleon I.), XVII, a 221
—— of Bohemia, the Blind Luxembourg prince (France), IX, a 482; (Germany), X, a *b* 443
—— I. of Brabant, Victorious, IV, a 169; (Holland), XII, a b 93
—— III. of Brabant, Triumphant, IV, a 169

John III., Brandenburg, Cicero, elector (Prussia), XX, b 8
—— IV., Brandenburg, George, elector (Prussia), XX, a b 9
—— V., Brandenburg, Sigismund, elector (Prussia), XX, b 9
—— of Burgundy, Fearless, IV, a 479; (Charles VI. and VII.), V, *a* 356; (France), IX, a b 484; (Paris), XVIII, a 296
—— of Calabria, prince (Spain), XXII, b 339-40
JOHN I., Castile and León, XIII, a 727; (Portugal), XIX, a 559; (Spain), XXII, b 335
JOHN II., Castile and Leon, XIII, a 727; (Mena), XVI, a 5; (Spain), XXII, a 336
—— of Castile, regent, c. 1320 (Spain), XXII, a 334
—— of Eltham, prince, effigy of (Duke), VII, b 448
JOHN, king, England, XIII, a 724-5; (Alnwick), I, a 525; (Bristol), IV, a 315; (Channel Islands), V, b 340-1; (Costume), VI, a 413; (Effigies), VII, b 602; (England), VIII, b 275-6; (France), IX, b 477, a b 478; (Horse), XII, a 184; (Innocent III.), XIII, b 90; (Ireland), b 265; (Langton), XIV, *a* 287; (Lincoln), b 662; (Liverpool), b 720, *b* 722-3; (Municipality), XVII, b 36; (Navy), *a* 287; (Normandy), *a* 559; (Peerage), XVIII, b 478; (Scotland), XXI, *b* 506, *a* 507; (Shakespeare), b 779; (Waterford), XXIV, *a* b 423; (Worcester), a 702
JOHN I., France, XIII, a 725
JOHN II. the Good, France, XIII, a 725; (Charles), V, b 355; (Charles II., Navarre), a 367; (France), IX, a *b* 482; (Libraries), XIV, b 523; (Petrarch), XVIII, a 722
—— of Gaunt. See Lancaster, Duke of
—— of Hapsburg, count (Albert I.), I, a 399
—— I. of Holland, count, XII, b 74-5
—— II. of Holland, count of Avennes, XII, a b 75
—— I. of Poland, Albert, king, XIX, b 301-2
JOHN II. of Poland, Casimir, XIII, a 725
JOHN III. of Poland, Sobieski, XIII, a 725; (Poland), XIX, a b 307-8. See Sobieski
JOHN I. or Joas, Portugal, XIII, a b 725; (Portugal), XIX, a b 559; (Spain), XXII, *b* 335
JOHN II., Portugal, XIII, b 725; (Columbus), VI, a 154; (Gama), X, b 52-3; (Navigation), XVII, a 257; (Portugal), XIX, a b 560
JOHN III., Portugal, XIII, b 725; (Brazil), IV, a 205; (Jesuits), XIII, b 663; (Portugal), XIX, a b 561; (Xavier), XXIV, b 752-3; court of (Camoens), IV, b 659, *a* 660
JOHN IV., Portugal, XIII, a 726; (Portugal), XIX, a b 563
JOHN V., Portugal, XIII, a 726; (Lisbon), XIV, b 697; (Mafra), XV, b 197; (Portugal), XIX, b 564-5
JOHN VI., Portugal, XIII, a 726; (Brazil), IV, a 208-9; (Miguel), XVI, a 302; (Portugal), XIX, b 565-7
JOHN, king Saxony, XIII, a b 726; (Saxony), XXI, *b* 371-2
—— I., Saxony, elector, Constant (Luther), XV, a 81, a 82, b 83, a 84; (Saxony), XXI, a 369
—— of Saxe-Weimar, duke (Saxony), XXI, a 372
—— I., Swerkerson (Sweden), XXII, a 784
—— III., king (Sweden), XXII, b 786
—— of Amid, translator (Syriac Literature), XXII, a 864
—— of Antioch, bishop (Nestorius), XVII, *a* 365
—— I., of Antioch, or John of the Sedras, patriarch (Syriac Literature), XXII, a 881
—— bar Aphtonya, abbot (Syriac Literature), XXII, a 874
—— bar Cursus, bishop (Syriac Literature), XXII, a 874
—— bar Ma 'dani, bishop (Syriac Literature), XXII, b 897, *a* 898
—— bar Shūshan, patriarch (Syriac Literature), XXII, a 870
—— bar Zo'bi, grammarian (Syriac Literature), XXII, a 897
—— of Barbançon (Aremberg), II, a 424
—— of Beth Garmai, monk (Syriac Literature), XXII, a 886
—— of Brienne, king of Jerusalem (Templars), XXIII, b 177-8
John Bull (Hook, T.), XII, a b 152
—— II., of Cappadocia, patriarch (Justinian I.), XIII, a 805
—— de Cella, abbot (St. Albans), XXI, b 164
—— of Cologne, printer (Bibliography), III, a 565
—— of Damascus. See Damascenus and Joannes Damascensis
—— of Dāra, bishop (Syriac Literature), XXII, a 890
—— of Dāsen, bishop of Nisibis (Syriac Literature), XXII, *b* 886
—— of Douay or Giovanni da Bologna, sculptor (Sculpture), XXI, a 596
—— of Ephesus, chronicler (Syriac Literature), XXII, a 863; (Syriac Literature), b 873 notes, *b* 874, a 875, b 876-7
—— of Fidenza. See BONAVENTURA
—— of Giscala, leader (Israel), XIII, *b* 437, *a* 438
—— of Glasgow, bishop (Scotland), XXI, b 504
—— of Guadaloupe (Franciscans), IX, b 615
—— of Hagulstadt, bishop (Deaf and Dumb), VII, b 9
—— of Harrān and Mārdin, bishop (Syriaç Literature), XXII, a b 895, a 896 note
—— of Hildesheim, monk (Prester John) XIX, a 737
—— of the Indies, patriarch (Prester John), XIX, a 734, a 736
—— of Jerusalem, fourth century, bishop (Epiphanius), VIII, *b* 428
—— of Leyden or Bockhold (Anabaptists), I, a b 690
—— of Malvern (Higdon), XI, b 723
—— of Maron, abbot (Maronites), XV, a 569; (Syriac Literature), XXII, b 892
—— of Montecorvino. See Montecorvino
—— of Mosul, monk (Syriac Literature), XXII, b 900
JOHN of Nepomuk or Pomuk, saint, XIII, a 729; (Wenceslaus), XXIV, b 528
—— of Nisibis, commentator (Syriac Literature), XXII, a 878
—— Orbelain, chief (Prester John), XIX, a 736
—— of Palermo, courtier (Pisanus), XIX, a b 134
—— of Parma, mystic (Renaissance), XX, b 394
—— of Plano Carpini, monk (Geography), X, b 159
—— of Ravenna, scholar (Latin), XIV, b 342
—— of Rochelle, theologian (Scholasticism), XXI, a 445
—— of Rutherwycke (Chertsey), V, b 509
—— of Sacrobosco, monk (Calendar), IV, b 595
JOHN of Salisbury, bishop, XIII, a b 729; (Peter of Blois), XVIII, b 711, a 712; (Scholasticism), XXI, a 439, *a* b 441, b 443, a 444
—— Frederick of Saxony, elector (Charles V.), V, a *b* 360; (Cranach), VI, b 482; (Germany), X, b 447; (Jena), XIII, a 631; (Saxony), XXI, a b 369, *a* 372; (Universities), XXIII, b 900
—— Frederick IV., elector Palatine (Mannheim), XV, b 501
—— Frederick of Würtemberg, XXIV, a 738
—— George I. of Saxony, XXI, a 370
—— George III. of Saxony, elector (Spener), XXII, a 407
—— George IV., elector (Saxony), XXI, a 370
John-Day river (Oregon), XVII, a 846, b 847
John-Dory, fish, VII, b 324
Johnestoun, Patrick, poet (Scotland), XXI, b 566, note
John o' Groat's House (Caithness), IV, a 575
John Sābhā, ascetic (Syriac Literature), XXII, a b 877
Johns Hopkins Hospital, XII, a 321; University, XXIII, *a* 914, a b 955, *a* 961, a 962; (Maryland), XV, b 610
JOHNSON, Andrew, president, XIII, b 729-30; (Impeachment), XII, b 756; (Republican Party), XX, *b* 906; (Stanton), XXII, b 472, a 920; (United States), XXIII, a 828, *b* 829-30
——, Arbella, heroine (Salem), XXI, a 221
——, Esther, "Stella" (Swift), XXII, b 801, note, a *b* 803, a 804
——, Francis, divine (Ainsworth), I, b 378; (Independents), XII, *a* 763
——, James, physician (Pathology), XVIII, b 405
——, Michael, bookseller (Johnson, S.), XIII, a 730
——, Richard Mentor, vice-president (Tecumseh), XXIII, b 929
JOHNSON, Samuel, critic, XIII, a 730-40
  advent in London, b 731-2
  America, attitude toward, b 738-9
  associates, early London, a 733
  Cave's hack, a 732-3
  dictionary engagement, b 733, b 734-5
  early life, a 730-1
  final scenes, a 740
  Garrick, b 733-4
  Juvenal labors, b 732, b 733
  literary club, b 736-7
  Lives of the Poets, a b 739
  Rambler, a b 734
  Rasselas, a b 735
  Scotch journey, a b 738
  Shakespeare, edits, a b 736
  teaching epoch, a b 731
  Thrales, the, b 737, b 739-40

—— (Apparitions), II, *b* 178; (Art), a 557; (Birmingham), III, b 681; (Boswell), IV, b 68, *a* b 69; (Brocklesby), a 323; (Burke), *b* 484; (Burney), b 503-4; (Chatham, Earl of), V, b 381, b 384; (Chesterfield), b 527, *a* 528; (Churchill), a 670; (Cibber), *a* 673; (Congreve), VI, b 240; (D'Arblay), b 723-4; (Defoe), VII, a 28; (Dodd), b 277; (Dictionary), *a* 156, a 157; (Dodsley), b 280; (Donne), b 316; (English Literature), VIII, b 381; (Epitaphs), b 439; (Excise), b 697; (Floyer, Sir J.), IX, b 305; (Garrick), X, b 75, *a* b 76; (Goldsmith), *a* 678, a *b* 679, *a* 680; (Hawkins), XI, b 478
—— (History), XII, a b 24; (Jenyns), XIII, a 636; (Junius), b 785; (London), XIV, b 841, b 860, a b 861; (Mandeville), XV, b 479, a 480, b 482; (Newspapers), XVII, a 427; (Oxford), XVIII, a 101; (Oxford, Earl of), b 104; (Pamphlets), b 209, b 210; (Parnell), a 324; (Periodicals), b 546, a 548; (Piozzi), XIX, a b 119; (Pitt), b 151; (Pope), b 496, a 497, b 498, a 502; (Prior), b 762, a 763; (Psalmanazar), XX, b 33; (Romance), b 675; (Ruddiman), XXI, a 56; (Smith, A.), XXII, a 180 note;

Johnson, *continued*
  (Tea), XXIII, a 108; (Tickell), *a* 374; (Warton), XXIV, a 399; (Watts), a b 437; (Wedderburn), *a* 502; (Wilkes), a 599; *Life of* (Ana), I, b 689 (Porson), XIX, a 538; portrait of (Schools of Painting), XXI, b 460
——, Thomas, painter (Gerard, John), X, b 396
——, Sir William, soldier (Saratoga Springs), XXI, b 320
—— -Brooke, Charles, rajah (Sarawak), XXI, *a* 322
Johnson's process, J. R. (Photography), XVIII, a 845
Johnston, Albert Sidney, general, XIII, b 740; (Mormons), XVI, b 853; (United States), XXIII, a 825
Johnston, Alexander Keith, geographer, XIII, b 741-2
——, Archibald, of Warriston, lawyer (Presbyterianism), XIX, a 702, b 703, a 708; (Scotland), XXI, *a* b 534, b 539
——, George (Aquarium), II, b 189
——, Isaac, immigrant (Boston, U. S.), IV, b 64
——, Johannes, naturalist (Ornithology), XVIII, a 8 note; (Reptiles), XX, a 446
——, Joseph Eccleston, general (United States), XXIII, b 825, b 826, a b 827, a *b* 828
——, W. G., chemist (Phosphorus), XVIII, b 830
Johnstone River (Australia), III, a 93; (Queensland), XX, a b 178, a 180
Johnstone, town, XIII, a 741
Johnstown, Pa., XIII, a 741
John Woodvil (Lamb), XIV, b 235
Johore, state and town, XIII, a 741; (Malay Peninsula), XV, *a* 325; river (Malay Peninsula), a 324
Joigny, town, XIII, a b 741
Joinery (Building) (Plate XXVI, Ill.), IV, b 433-47
Joint, law-term, XIII, b 741; adventures (Partnership), XVIII, b 337
Jointed system, changes of (Mechanics), XV, a b 705
Joint kingship (Ireland), XIII, b 256-7
—— life Annuities, II, a b 75-6
—— -oil (Skeleton), XXII, b 118. See Synovial fluid
—— -products, law of (Value), XXIV, a 58
Joints, corporeal (Anatomy) (Ill.), I, a 730, b 732, a b 733, b 735, a b 736, b 737, a 738; (Dislocation), VII, a 225; defined (Skeleton), XXII, b 117; diseases of (Gout), XI, b 6, *a b* 7; (Rheumatism), XX, b 530-3; (Surgery), XXII, a 720-1; (Pathology), XVIII, b 397; injuries to (Surgery), XXII, a *b* 716-7; rheumatic fever in (Pathology), XVIII, b 406, a b 407
Joints, engineering term, XIII, b 741-4
  classification, b 741
  metal, b 741-4
  stone, b 741
  strength, principles of, b 742-3
  wood, b 741-2
  working, b 741, b 742-4
——, arch (Bridges), IV, a b 273 Builder's, b 426-7, b 428, a b 429 31, b 436-8; forms of (Building)(Plates XXIII, XXIV), a b 429, b 436-7; mortar (Building) (Ill.), a 413; packing (Cement), V, b 285; pavement (Roads and Streets), XX, b 600-1; riveted (Strength of Materials), XXII, b 631, note
——, Geological (Ill.), b 262-3; dyke (Geology), X, a 277; erosion along (Geology), a 332; metamorphic rock (Geology), b 280
Joint-stock banks (Banking), III, a b 282, b 283, b 285; France (Banking), b 291; Ireland (Banking), 291; increase of (Banking), a 278
—— Companies, VI, a 197-8; (Corporation), b 384-5; (Insurance), XIII, b 169, a 187
—— -Tiles (Ill.), XXIII, a b 414
—— -worm (Galls), X, b 41
Joinville, village of Algiers (Blidah), III, a 717
——, counts of (Joigny), XIII, b 741
Joinville, Jean de, chronicler, XIII, a 744-6; (France), IX, b 568; (Gunpowder), XI, a 283
Joists, floor (Building) (Ill.), IV, *b* 404, b 407, a 416, a *b* 431
Jókai, Maurice (Hungary), XII, a b 394
Joktan, son of Heber (Arabia), II, a 224; tribe (Hebrew Language and Literature), XI, b 531
Jökull, ice hills (Iceland), XII, b 651; (Norway), XVII, b 592
Jökulsá á Fiöllum, river (Iceland), XII, b 652
Joliba, Kawara or Quorra, river (Africa), I, b 220, *a* 221, a b 227; (Niger), XVII, a 510. See Quorra
Joliet, Illinois, XIII, a 746
——, Louis, traveller (Louisiana), XV, b 23; (Wisconsin), XXIV, a 652
Jolly Beggars (Burns), IV, b 506, a 508
Jolly's specific gravity Balance, III, b 225; thermometer (Pyrometer) (Ill.), XX, b 137-8
Joló archipelago (Philippine Islands), XVIII, a 766
Joly, E. and N., entomologists (Ephemeridæ), VIII, a b 407
Jomini, Henry, baron, historian, XIII, a b 746; (War), XXIV, *a* 366, a 367
Jommelli, Nicolo, composer, XIII, b 746-7; (Music), XVII, a 100
Jon, François du. See Junius, Franciscus
Jonadab, patriarch (Rechabites), XX, b 322
Jonah, Book of, XIII, a 747-8; prophet (Elijah), VIII, a 127; (Mosul), XVI, a 896; (Perseus), XVIII, b 572; (Persia), b 642; mound of (Nineveh), XVII, a b 525, note; statue of (Raphael) (Ill.), XX, b 293-4
Jonah of Cordova, rabbi, XIII, a 748
Jonas, Justus, reformer, XIII, a b 748; (Luther), XV, b 77, b 83, b 84
——, P., traveller (Venezuela), XXIV, a 151, b 153
——, Rudolphus, grammarian (Scandinavian Languages), XXI, b 384, a 385
Jonathan, prince (David), VI, *b* 737, b 738; (Israel), XIII, a 413, b 414
—— Apphus, high priest (Israel), XIII, *b* 432, a 433
——, *Targum of* (Semitic Languages), XXI, *a* 680
Jonathan Wild (Fielding, H.), IX, *b* 127
Joncourt, Elie de, author (Tables), XXIII, b 12
Jonctijs, Daniel, poet (Holland), XII, a 99
Jones, David (Annuities), II, b 73, b 74, a 76
——, E. T., inventor (Bookkeeping), IV, b 40
——, George, astronomer (Zodiacal Light), XXIV, b 835, *a* 836, a 837
——, Sir Harford, envoy (Persia), XVIII, a b 659
——, Henry, pseudonym Cavendish (Whist), XXIV, a 575, b 576. See List of Contributors
Jones, Inigo, architect, XIII, b 748; (Architecture), II, a b 387, a 389; (Davenant), VI, b 735; (Freemasonry), IX, a 658; (Jonson), XIII, b 752, a 753, a 754, note; (Palladio), XVIII, a 192; (Theatre), XXIII, b 243
—— of Jersey, physician (Surgery), XXII, b 711
——, John, antiquary (Celtic Literature), V, b 272, b 284
——, Sir John (Fortification), IX, b 402, a b 403
Jones, John Paul, admiral, XIII, b 748-9; (Carrickfergus), V, b 121; (Navy), XVII, b 309; (United States), XXIII, a 792
——, Joseph, physician (Yellow Fever), XXIV, a 771
——, J. Taylor, orientalist (Siam), XXI, b 895, b 896
Jones, Owen, antiquary, XIII, a b 749; (Arthur), II, a b 569; (Celtic Literature), V, a 273
Jones, Owen, architect, XIII, b 749; (Architecture), II, a 398, b 400; (Building), IV, b 455, b 456; (Carpets), V, *b* 115-6
——, Richard, publicist (Political Economy), XIX, a b 391, a 410 note
——, R. L., inventor (Clocks), VI, b 25-6
——, Samuel, teacher (Butler), IV, a 519; (Independents), XII, b 766
——, Thomas ap Catesby, commodore (California), IV, a 616
——, Thomas Wharton, biologist (Embryology), VIII, a b 153
Jones, William, divine, XIII, b 750-1
Jones, Sir William, philologist, XIII, b 749-50; (Chess), V, b 519, *a* 520; (Persia), XVIII, b 665; (Philology), a b 794; (Sanskrit), XXI, a 299 note, b 300 note, b 301 note
——, William Basil, bishop (Ireland), XIII, a b 252
—— and Laughlin's rolling-process (Iron), XIII, b 339
—— and Walsh's roaster (Sodium), XXII, b 255
Jones's bequest (Pottery and Porcelain), XIX, a 658
—— process (Iron), XIII, b 348-9
—— Hydrometer (Ill.), XII, b 571
Jong river (Liberia), XIV, b 507; (Sierra Leone), XXII, a 51
Jongleurs, Joglars, Joculares, or Joculatores (Ballads), III, b 244; (Drama), VII, a b 357; (France), IX, a 562, a 564; (Italy), XIII, a 510; (Music), XVII, a 91; (Provençal Literature), XIX, b 898-9, a 900
Jonkoping, town, XIII, a 751
Jonquil, plant (Horticulture), XII, *b* 265, a 266
Jónsbók, laws (Scandinavian Languages), XXI, a 385
Jonson, Ben, poet, XIII, a 751-6
  arrests and offences, a b 752
  characteristics, personal, a b 754
  dramatic activity, period of, a 753
  editions of, a 756
  James I., time of, b 752-3
  laureate, the, a 754
  literary labors, estimate of, b 754-6
  masks and pastorals, b 755-6
  theatrical engagements, early, b 752-3
  youth, a b 751
—— (Alleyn), I, *a* 514; (Beaumont and Fletcher), III, b 405, *a* 408, *a* 409; (Comus), VI, b 212; (Congreve), b 241; (Dekker, T.), VII, b 34, *a* 35; (Drama), *a* b 373, a 374; (Drummond), a 415; (Duel), b 442; (English Literature), VIII, b 375; (Epigrams), a 425; (Epitaph), a 439; (Herrick), XI, b 682; (London), XIV, b 858, a 859; (Marston), XV, b 582; (Munday), XVII, b 29; (Pastoral), XVIII, a 352; (Shakespeare), XXI, b 792, a 802, a 803; (Theatre), XXIII, b 243; (Women), XXIV, a 908
Jonsson, Finn, bishop (Iceland), XII, a 663
——, Karl, historian (Iceland), XII, b 660

Jon's Table Talk, bishop (Iceland). XII, a 662
Joo-ning Foo, defence of (China), V, *b* 562
JOPLIN, Mo., XIII, a 756
JOPPA, town, XIII, a 756; (Palestine), XVIII, b 181
Jora, river (Caucasus), V, a 222
Joram, king (Moab), XVI, b 558
Jorat, mountain (Switzerland), XXII, a 814
JORDAENS, Jacob, painter, XIII, b 756
JORDAN, river, XIII, b 756; (Dead Sea), VII, a *b* 3, a b 4; (Ichthyology), XII, a 711; (Lake), XIV, b 218; (Palestine), XVIII, a b 175, a b 177, a b 178, b 182
JORDAN, Camille, politician, XIII, a b 757
——, Dorothea, actress (William IV.), XXIV, b 612
——, Professor, archæologist (Rome), XX, a b 846, a b 854
JORDANES or Jornandes, historian, XIII, b 757–8; (Goths), X, *a* b 753, *a b* 754, a 755; (Huns), XII, *a* 398; (Slavs), XXII, b 154, a 155
Jordanite (Mineralogy), XVI, b 411
Jordan's creek (Nile), XVII, a 518, note
Jordánszky Codex (Hungary), XII, a 391
Joris, David. See George, David
JORTIN, John, theologian, XIII, a b 759
Jorullo, mountain (America), I, a 592; (Geology), X, b 221; (Mexico), XVI, a 224, note
JOSAPHAT. See BARLAAM
Joseite (Mineralogy), XVI, a 396
JOSEPH I., emperor, XIII, a 760; (Hungary), XII, a 385
JOSEPH II., emperor, XIII, a 760–1; (Austria), III, a 113; (Banat), b 265; (Belgium), b 454; (Concordat), VI, b 215; (Foundling Hospitals), IX, b 426; (Frederick II.), b 649; (Germany), X, b 451–2; (Holland), XII, b 85; (Hungary), a b 385; (Jews), XIII, a 696; (Mozart), XVII, a b 16, a 17; (Pius VI.), XIX, a 165; (Popedom), a 522; (Scheldt), XXI, a 406; (Turkey), XXIII, a 689; (Unitarianism), a 773; (Wellington), XXIV, a 525
JOSEPH, carpenter, XIII, a 760; (Mary), XV, *b* 596, *a* 597
——, patriarch, XIII, b 759; (Egypt), VII, a 638, b 642; (Philo), XVIII, b 776; (Persia), a 670
Joseph's Coat, painting (Velasquez), XXIV, b 145
JOSEPH, tribe, XIII, b 759; (Israel), b 407, b 410, a 411, b 415, a 416
——, Father, political agent (France), IX, a b 501, a 502
——, G., naturalist (Arachnida), II, b 244, a 245
—— of Arimathea (Glastonbury), X, b 601, a 602; (Grail, the Holy), XI, b 31, *a b* 32
Joseph of Arimathea (English Literature), VIII, b 364; (Romance), XX, *b* 660, b 661, a 665
—— of Exeter, poet (Romance), XX, b 654
—— of Hazzāyā, tractarian (Syriac Literature), XXII, b 879–80
—— of Hūzāyā, grammarian (Syriac Literature), XXII, a 878, b 879 note, b 882
—— of Melitēne, monk (Syriac Literature), XXII, b 892
—— of Merv, bishop (Syriac Literature), XXII, a 888
—— of Seleucia, catholicus (Syriac Literature), XXII, a 879
Joseph Andrews, novel (Fielding, H.), IX, a b 127, b 128
—— ben Meir, rabbi (Typography), XXIII, a 733
—— Bonaparte. See BONAPARTE
—— Emmanuel, king, Portugal (Pombal), XIX, a 456; (Portugal), a 565
JOSEPHINE, empress, France, XIII, a b 761; (Hortense), XII, a 214; (Junot), XIII, a 789; (Napoleon I.), XVII, a 203, b 212, b 214, b 221–2, a 229
Josephinum, Vienna (Surgery), XXII, a 711
JOSEPHUS, Flavius, historian, XIII, b 761–2; (Acts of the Apostles), I, b 116, a b 117; (Amalekites), b 572, a 573; (Army), II, a 493; (Astronomy), b 650; (Canon), V, b 4, b 6; (Essenes), VIII, *a b* 486, *b* 487; (Eve), b 643; (Exorcism), a 705; (Gadara), X, *a* b 6; (Galilee), b 25, *b* 26, *b* 27; (Gerizim), b 399 notes; (Gospels), b 721, note, a 722; (Inspiration), XIII, b 161; (Israel), *b* 437, a b 439, a b 441; (James), a 563; (Jesus Christ), a b 669; (John the Baptist), b 720; (Manetho), XV, b 486–7; (Mendoza), XVI, b 13; (Midrash), a 299 note; (Moses), a 888, a 889; (Palestine), XVIII, *a* 181; (Peter), b 711; (Phœnicia), b 817, note, a b 820, note, a 823; (Weights and Measures), XXIV, a 508, a 511, *b* 512; manuscripts of (Palæography), XVIII, a 158, b 159
Joses, apostle (Barnabas), III, a 326
Josh Billings, pseudonym (Shaw), XXI, b 921
JOSHUA, soldier, XIII, b 762–3; (Canaanites), IV, b 674; (Circumcision), V, a b 690; (Israel), XIII, b 410; (Tabernacle), XXIII, a 10
——, high-priest (Israel), XIII, a 428; (Zechariah), XXIV, *b* 811, a 812
—— the Stylite (Syriac Literature), XXII, a b 873, b 876
——, *Book of* (Palestine), XVIII, a 177, a b 179, a b 180; (Pentateuch), b 523–5; (Samaritans), XXI, a 258
JOSIAH, king, Judah, XIII, a b 763; (Habakkuk)), XI, a 320; (High Place), b 724; (Israel), XIII, b 425, *a* 426; (Lamentations), XIV, *b* 242; (Prophet), XIX, a b 841; his reforms (Pentateuch), XVIII, a b 520
JOSIKA, Miklós or Nicholas, baron, novelist, XIII, b 763–4; (Hungary), XII, b 394
Josselin, John, secretary (Parker), XVIII, *a* 306; (Turkey), XXIII, a 700 note
JOST, Isaak Markus, historian, XIII, a 764; (Jews), b 692; (Mishnah), XVI, a 529
Jotopata, siege of (Josephus) XIII, a 762
Jotun Fjelde or mountains (Norway), XVII, a 589, b 591, a *b* 592
Jouanne river (Mayenne), XV, a 655
Joubert, Barthélemy Catherine, general (France), IX, a 539; (Napoleon I.), XVII, b 208, a 209
——, Joseph, writer (France), IX, b 591
JOUFFROY, Theodore Simon, philosopher, XIII, a 764–5; (Cousin), VI, b 464; (Damiron), a b 700
Joule, James Prescott, physicist (Electricity), VIII, a 11, a b 14, b 15, b 83, *a b* 84, *a b* 85, *a b* 86–7, b 88, *a* 98; (Electrolysis), a 103, b 105; (Energy), b 189–90; (Heat), XI, b 497–8, b 501, a 502; (Meteorology), XVI, a b 120; (Steam-Engine), XXII, a 496, a 497; (Thermodynamics), XXIII, a 303, a 306, a 308
—— and Thomson's experiments (Heat), XI, b 511–2; thermometer (Heat), a b 513–4
Joule's equivalent (Mechanics), XV, b 777; experiment (Atom), III, b 35–6; (Dietetics), VII, a 182; (Elasticity), b 705–6, b 707; law (Electricity), VIII, a 14, a b 53, a b 54, a b 90; (Steam-Engine), XXII, b 498
JOURDAIN, Alfonse, crusader, XIII, a 765
Jourdain de Blaves or *de Blaye* (Romance), XX, b 668
Jourdain, François Claude, archæologist (Scot), XXI, b 490, a 491
Jourdan, Jean Baptiste, marshal (Austria), III, *b* 113, *a* b 114; (France), IX, a 534, a b 535, b 536, a 537; (Napoleon I.), XVII, b 208, a 209; (Pichegru), XIX, a b 88
Journal (Bookkeeping) (Ill.), IV, 41, *a* 42
—— in Mechanics, pressure of, XV, a 776
—— affiche, broadside (Tallien), XXIII, b 37
Journal of Commerce (American Journalism), XVII, b 884, a 885; (Tappan), XXIII, b 922
—— *des Débats* (Girardin, S. M.), X, b 554; (Newspapers), XVII, b 436, a b 437, *a b* 438
—— *Étranger* (Periodicals), XVIII, b 550
—— *historique et littéraire* Belgium (Periodicals), XVIII, b 553
—— *of the Institute of Actuaries* (Annuities), II, b 75
—— *de Paris* (Newspapers), XVII, a 436
—— *des Savants* (Periodicals), XVIII, a b 546, b 549, a 550
—— *to Stella* (Swift), XXII, b 801–2
Journalism (Agriculture), I, a 272; (Fonblanque), IX, a 315–6; (France), b 591–2; (Greeley), XI, b 143–4; (Hungary), XII, b 392, a b 396; (India), a b 815; (Janin), XIII, b 574; (L'Estrange), XIV, b 482–3; (Massachusetts), XV, a 621; (Motherwell), XVII, b 8; (Nodier), a b 544–5. See NEWSPAPERS
JOURNALISM, AMERICAN, XVII, a 883–93
  advertisements, b 890
  Associated Press, a b 885
  cheap newspapers, b 883–4, a 890
  circulation, a b 890
  civil war, effects of, a b 986-7
  comic papers, a b 889
  coöperative lists, b 889–90
  correspondents, special, b 886–7
  cost, b 890–1
  development of, causes, a b 883
  foreign languages, journals in, a 889
  illustrated papers, a 889
  magazines and reviews, a 892–3
  national capital, organs at, a 887
  news centres, a b 887
  political agitation, b 885–6
  progress of, a b 888
  specialized journals, b 887
  staff organization, a b 891
  statistics, b 887–9
  telegraphic news, b 884–5
  tendency of, b 891

Journey to the Hebrides (Johnson), XIII, a b 738
—— *to Musardu* (Mandingoes), XV, b 483
—— *of Peter*, XVIII, a 710
"Journey weights" (Mint), XVI, b 506
Jourt, Kirghiz Tent, XXIII, a 200
Jousts (London), XIV, *a* 856; (Tournaments), XXIII, a b 520
Jouve, Duval, botanist (Grasses), XI, b 49, b 53
JOUVENET, Jean, painter, XIII, a 765
Joux, Fort de (Jura), XIII, b 791
JOVELLANOS, Gaspar Melchor de, economist, XIII, a b 765; (Political Economy), XIX, b 400; (Spain), XXII, a 375
——, Salvador, president (Paraguay), XVIII, b 249

JOVIANUS, Flavius Claudius, emperor, XIII, b 765-6; (Athanasius), II, a b 726; (Rome), XX, a 797
JOVINIANUS or Jovianus, monk, XIII, a 766; (Monachism), XVI, a b 729
JOVIUS, Paulus, historian, XIII, a 766-7
Jowett, Benjamin, critic (Paul), XVIII, b 440; (Plato), XIX, b 214 note, b 215-16, a 222, a 224; (Thucydides), XXIII, b 347
Jowf or Jauf, oasis (Arabia), II, a b 206, a 208, a 211, a 218, a b 221, a b 229; (Yemen), XXIV, a 777
Joyce's Country (Galway), X, b 50-1
Joyeuse entrée, constitution (Brabant), IV, a 169
Joy's valve-gear (Steam-Engine) (Ill.), XXII, a b 527, *b* 547, b 548
Ju, image (Lhasa), XIV, b 498-9
Juan. See John
——, Don George or Jorge (Navigation), XVII, b 265
Juana., See Joanna
JUANES or Joanes, Vicente, painter, XIII, a 767; (Valencia), XXIV, b 39, b 40
Juan de Fuca, straits of (Seal), XXI, b 610; (Washington), XXIV, *b* 406, a 408
JUAN FERNANDEZ, island, XIII, b 767-8; (Birds), III, b 646-7; (Chili), V, a 535; (Selkirk), XXI, a 671
—— Manuel, infant, author (Spain), XXII, b 368-9
Juangs, tribe (India), XII, b 816
Juapa or Chuapa, river (Zaire), XXIV, b 802
JUAREZ, Benito Pablo, president, XIII, b 768-9; (Mexico), XVI, *b* 228, b 897, b 899, a 903
Juba, river (Africa), I, b 226, b 228
JUBA I., Numidia, XIII, a 769
JUBA II., Numidia, XIII, a b 769; (Numidia), XVII, b 642
Jubæa, palm (Horticulture), XII, b 276
Jubainville, D'Arbois de, ethnologist (Iberians), XII, b 640
Jubal, patriarch (Lamech), XIV, a 239
Jubbulpore. See JABALPUR
Jube gallery (Architecture), II. a 410, b 415
Jubeil, town. See JEBEIL
Jubilee Meeting of the Civic Guard (Teniers), XXIII, a 190
JUBILEE, Year of, Jewish, XIII, b 769-70
JUBILEE YEAR, Roman Catholic, XIII, a 770; (A'Becket), I, a 37; (Carnival), V, a 109; (Urban), XXIV, b 13; 1824 (Leo XII.), XIV, b 452
Jubilees, Book of (Apocalyptic Literature), II, a b 155; (Bible), III, a 554
Jubinal, Achille, collector (Tarbes), XXIII, a 67
Jucar, river (Cuenca), VI, b 611, a 612; (Valencia), XXIV, a 39
Juckes's furnace (Steam-Engine), XXII, a 523
Judah, kingdom of (Agriculture), I, a b 260; (Israel), XIII, b 422-7; (Josephus), b 761-2; (Kings), XIV, a b 86-8; (Micah), XVI, a 233; (Moab), b 558, a 559; (Nabatæans), XVII, a 167; (Philistines), XVIII, b 769, note; boundary of (Palestine), a 180; desert of (Palestine), b 176; mountains of (Dead Sea), VII, b 3
JUDAH, tribe, XIII, a b 770; (Commerce), VI, a 177; (David), a b 738, b 739, a 740; (Isaiah), XIII, b 388; (Israel), a b 410-11, a 414-16; (Joel), a b 716; (Palestine), XVIII, b 179, a b 180, a 182; priesthood (Levites), XIV, b 487-9
——, Hayyug, grammarian (Hebrew Language), XI, a 536
Judaism (Christianity), V, b 598-9, a 601-2; (Colossians), VI, b 148; (Europe), VIII, *a* 626; (Israel), XIII, b 428, a b 429, a 430, b 431, b 433, a 438-9, note; (Mahzor), XV, b 294-5; (Mandæans), a b 477, a 478; (Marcion), a b 541, *a* 542; (Mohammedanism), XVI, a 571, a 577, a 622, b 628; (Mysticism), XVII, b 137; (Relics), XX, b 368; (Religions), 374, *a b* 381, a b 382; conservatism of (Sabbath), XXI, b 133, critical works on (Geiger), X, a b 115; of the dispersion (Tobit), XXIII, a b 456; Hellenistic (Gnosticism), X, a 625; (Philo), XVIII, b 773-4; study of (Jews), XIII, a b 692
Judaizing Christians (Bible), III, a 555; (Galatians), X, a b 19; (Nazarenes), XVII, b 311-2
JUDAS ISCARIOT, XIII, b 770-1; (Elder, plant), VII, b 719; (Jesus Christ), XIII, a 675, a b 678, a 679; (Jew, Wandering), b 685
—— Levita or Jehuda Halevi, theologian (Theism), XXIII, a 262
—— Maccabæus, general (Israel), XIII, b 431-2; (Maccabees), XV, a 132
JUDAS TREE, XIII, b 771; (Botany), IV, a 90, a 118
Judd, Sylvester (American Literature), I, a 638
Juddah, town. See JIDDAH
JUDE or Judas, apostle, XIII, b 771; (James), b 562, b 563
——, Book of (Apocalyptic Literature), II, b 155
JUDE, epistle, XIII, b 771; (Peter), XVIII, a b 711
——, Gospel of (Gnostitism), X, a 627
Judex, title (Switzerland), XXII, *a* 821
JUDGE XIII, b 772-3; (Admiralty), I, b 146, *a* 147; (Areopagus), II, a 425; (Costume), VI, a b 423; (Magistrate), XV, b 217; (Peerage), XVIII, b 470, b 477; (Precedence), XIX, a b 683 note; (Prerogative), a 693-4; (Prussia), XX, a b 23; (Sunday), XXII, b 689; function of (Law), XIV, b 365-6. See Judiciary
Judge-advocate (Admiralty), I, b 147; (Court-Martial), VI, a b 460, a 461; general, British (Army), II, b 513-4
—— conservators (Consul), VI, a 281
Judges in Israel (David), VI, a 736, b 738; (Israel), XIII, b 407, b 409, a 412-3
JUDGES, Book of, XIII, a 773-4; (Canaanites), IV, *b* 674; (Israel), XIII, b 410-11, a 412 note; (Samuel), XXI, *a* 265
Judgment (Category), V, b 195; (Hamilton, Sir W.), XI, b 372, a 373; (Hume), XII, a 366; (Hutcheson), a 425; (Kant), XIII, a b 864; (Logic), XIV, b 795, *b* 798, *a* 800, a 802, a 803 note, a b 804, a 805, b 806, a b 808, a 809; (Ramus), XX, b 280-1; (Schleiermacher), XXI, a 430; (Stoics), XXII, a 595; analytic and synthetic (Analysis), I, b 699; formation of (Psychology), XX, a b 82-3; rise of (Psychology), b 89
JUDGMENT, law-term, XIII, b 774; execution of (Women), XXIV, b 675
——, Day of (Ecclesiastes), VII, a b 541
Judgment of Love, The (Provençal Literature), XIX, a 901
—— *of Solomon* (Giorgione), X, *a* 543
JUDICATURE ACTS, XIII, b 774-5; (Appeal), II, *a* 183; (Chancellor), V, b 337; (Chancery), b 338; (Code), VI, a 97; (Common Law), a 186; (Costs), a b 400; (County), a b 456; (Nisi Prius), XVII, b 528; (Pleading), XIX, a b 230
Judices dativi (Rome), XX, a 807
—— de clero (Rome), XX, a 803, a b 805, a 807
—— de militia (Rome), XX, a 803, a b 805, *a* 807
——, imperial (Roman Law), XX, a b 730
——, jus civile (Roman Law), XX, a 699, *a* 701, a 702, a b 704
—— "perpetual courts" (Rome), XX, b 781, note, *a* 785
——, republican (Roman Law), XX, b 716
Judicia bonæ fidei (Roman Law), XX, a 727
Judicial combat (Duel), VII, *b* 441-2
—— Committee (Privy Council), XIX, b 785-6
—— corruption (Bribery), IV, a 248; (United States), XXIII, *a* 832
—— Costume, VI, b 422-4
—— legislation (Law), XIV, a 358, a b 361, b 365, a b 366, a 367
—— officers, Mohammedan (Sunnites), XXII, b 696, a 699
—— Procedure. See PROCEDURE
—— Sale, XXI, a b 219
—— Warrants, XXIV, a b 392, a 393; (Writ), b 729, a 731-2
Judiciary (Brazil), IV, *b* 212-3; (England), VIII, a b 268, a 315; (Government), XI, a b 15; (Italy), XIII, a b 473; Aztec (Mexico), XVI, b 218; elective (New York), XVII, a 468; federal (Switzerland), XXII, a b 834; imperial (Russia), XXI, b 77-8. See Courts
Judicis postulatio, process (Roman Law), XX, *b* 698
Judith mountains (United States), XXIII, b 847
——, queen of Abyssinia, I, b 64
—— of Bavaria, empress (Germany), X, *a* 431; (Louis I.), XV, *a* 18
JUDITH, Book of, XIII, a 775-6; (Apocrypha), II, b 159, *a* 160; (Caedmon), IV, a 561; (Persia), XVIII, a 592 note
Judith and Holofernes, paintings (Allori, C.), I, a 517; (Gentileschi), X, a 144
JUDSON, Adoniram, missionary, XIII, a 776; (Burmah), IV, *a* 496
Juel, Jens, painter (Denmark), VII, a 82
Juen-Juen, people (Turks), XXIII, a 701, note
Juf district (Sahara), XXI, *a* 158, note, b 159
Jugal or malar bone (Skeleton), XXII, a *b* 123, a 124
Jugerum (Weights and Measures), XXIV, b 511, a 512
Juggernaut, Jaganath or Jugernath, deity (Orissa), XVII, b 869; (Puri), XX, b 121; temple of (Architecture), II, b 348
Jugglers (Ireland), XIII, a 262, a 263; Hindu (Cobra), VI, a 84; (Magic), XV, b 210, a 211
Juglans regia, tree (Arboriculture), II, b 278
Jugular ganglion (Anatomy), I, a 775; vein (Anatomy), b 795, b 796
JUGURTHA, king of Numidia XIII, a 776-7; (Metellus), XVI, a 111
Jugurthine war, 111 to 106 B.C., XIII, b 776-7; (Rome), XX, a 777; (Sulla), XXII, b 665
Juine river (Seine-et-Oise), XXI, a 656
Juive, La (Halévy), XI, b 341-2
Juji Khan (Jenghiz), XIII, a *b* 632
JUJUBE, fruit, XIII, a b 777
Jujuy, city (Bolivia), IV, a 14, a 17
Jukes, the, family (Ethnography), VIII, a 541
JUKES, Joseph Beete, geologist, XIII, b 777-8; (Geology), X, a 259 note, b 263, b 270, a b 271, a 272, b 273-4, b 276, b 301, b 307
Julamerik, town (Greek Church), XI, b 138
Juleum (Heimstädt), XI, b 569

Julfa, town (Ispahán), XIII, a 405, b 406
Jülg, Bernhard, philologist (Calmucks), IV, a 629. See List of Contributors
Julia, daughter of Augustus (Agrippa), I, a b 371; (Ovid), XVIII, a 83; (Tiberius), XXIII, b 356, *a* 357
——, daughter of dictator (Cæsar), IV, a 565, a 566
——, grand-daughter of Augustus (Ovid), XVIII, b 83, a 84
—— Domna, empress (Severus), XXI, b 731, a 734
—— Mæsa, princess (Severus), XXI, *b* 734
—— Joza, town (Tarifa), XXIII, a 71
Julian Alps, I, a 547, *a* 555; (Austria), III, b 100
JULIAN, Flavius Claudius, emperor, XIII, a 778-9; (Antioch), II, b 116; (Athanasius), a 726; (Beard), III, a 400; (George of Cappadocia), X, *b* 385; (Gregory Nazianzus), XI, b 160; (Libraries), XIV, b 511; (Neoplatonism), XVII, *b* 343, b 346, b 348; (Paris), XVIII, a 293; (Persia), b 620; (Rome), XX, b 796, a b 797 note, a 798; palace of (Paris), XVIII, b 287
——, Cardinal. See Cesarini
——, governor (Mohammedanism), XVI, a 596
—— of Antioch, patriarch (Syriac Literature), XXII, a 878
—— of Apulia, bishop (Pelagius), XVIII, a 483
—— era (Calendar), IV, b 591-2, b 593, a b 595; (Chronology), V, b 617, b 621
—— laws (Roman Law), XX, b 715, a b 723
—— Rōmāyā, patriarch (Syriac Literature), XXII, b 881
Julianehaab, town (Greenland), XI, *b* 150, b 152
Juliani, Pedro. See Pope JOHN XXII.
Julianists, sect (Syriac Literature), XXII, b 884
Julianite (Mineralogy), XVI, b 411
Julianus, Salvius, jurist (Roman Law), XX, a b 723, a b 730
Julião, jurist (Portugal), XIX, *a* 557
Julia Titi, intaglio (Beryl), III, a 530
JULICH, town, XIII, b 779; duchy (Prussia), XX, b 9, *a* b 13, a 16
Julidæ, family (Centipedes), V, *a* 296; (Myriapoda), XVII, a b 125, a 126
JULIEN, Noel or Stanislas Aignen, philologist, XIII, b 779-81; (Drama), VII, b 346, b 347; (Hwen T'sang), XII, a 434, *a* 435; (Laotsze), XIV, a 296, a b 297
—— car (Traction), XXIII, *a* 527
Juliers, town. See JULICH
——, dukes of (Guelderland), XI, *b* 216
Julin, Charles, anatomist (Tunicata), XXIII, a 648, b 649 note, b 650, b 658
Juliobona, town. See LILLEBONNE
Juliopolis, town (Gordium), X, a 695
JULIUS I., pope, XIII, a 781; (Popedom), XIX, a 505, b 523
JULIUS II., pope, XIII, a b 781-2; (Alexander VI.), I, b 431; (Ariosto), II, b 442; (Fano), IX, b 26; (Ferdinand V., Castile), b 72; (France), *b* 489; (Italy), XIII, b 411-2; (Michel Angelo), XVI, b 238, b 239-41; (Raphael), XX, *b* 289, a b 290, *a* 291, note, a 292, note; (Reformation), a *b* 336-7, *a* 338; (Rimini), a b 574; (Tiles), XXIII, a 416; mausoleum of (Michel Angelo), XVI, b 239, a 241, b 242; statue of (Michel Angelo), XVI, a 240
JULIUS III., pope, XIII, a 782; (Carnival), V, b 108; (Palestrina), XVIII, a 183; (Perugia), a 694; (Popedom), XIX, b 518, b 524; (Trent, Council of), XXIII, b 579, a 581, a 582
—— Africanus, historian (Chronology), V, a b 620, b 624. See AFRICANUS
—— of Brunswick-Wolfenbüttel, duke (Universities), XXIII, b 900
Julius Cæsar, play (Shakespeare), XXI, b 800, a 805
Julius Capitolinus, historian (Antoninus, Wall of), II, a 123
—— Vestinus, grammarian (Gloss), X, *a* 612
Julius's Hof (Scotland), XXI. a 495
Jullundur, district. See JALANDHAR
Julpigoree, district. See JALPAIGURI
Julus, genus (Myriapoda) (Ill.), XVII, a b 124, a *b* 125, a 126, *b* 127
JULY, month, XIII, a 782; (Calendar), IV, *b* 590, a b 591; (Suicide), XXII, *a* 665; barometrical pressures for (Atmosphere), III, b 26, *a* b 27, *a* 28; calendar, British (Horticulture), XII, b 304-5; calendar, U. S. (Horticulture), b 307; isobars (Meteorology) (Ill.), XVI, 146-7; isotherms (Meteorology) (Ill.), a 140; rains (Meteorology), b 157, a b 158; winds (Meteorology), b 150, b 153
Jumel Cotton, VI, *a* 430
JUMET or Jumetz, town, XIII, a 782
JUMIÈGES, village, XIII, a 782
JUMILLA, town, XIII, b 782
JUMNA or Jamuná, river, XIII, b 782-3; (Brahmaputra), IV, *b* 190; (Dacca), VI, a 667; (Dehra Dún), VII, *b* 30; (Ganges), X, a 62; (Karnál), XIV, a 7; (Maimansinh), XV, *a* 297; (Máinpurí), *a* 306; (N. W. Provinces), XVII, b 585-6
Jumper, tool (Mining) (Ill.), XVI, b 464
Jumping (Horse), XII, a 201-2
—— -Hares (Jerboa), XIII, a 637; (Mammalia), XV, b 421, a 425
—— mouse (Jerboa), XIII, b 636, a 637; (Mammalia), XV, a 425
JUNÁGARH, state, XIII, a b 783
Juncaceæ, order (Botany), IV, a 114; (Grasses), XI, a 48, b 51
Juncal, mountain (Chili), V, b 535
Junction City (Kansas), XIII, a 852, *a* 853
JUNE, month, XIII, b 783; (Calendar), IV, b 590, b 597; (Suicide), XXII, *a* 665; barometer oscillations (Meteorology), XVI, b 128; calendar, British (Horticulture), XII, b 304; calendar, U. S. (Horticulture), a b 307
Juneau, Solomon, trader (Milwaukee), XVI, b 352
Jung, Joachim, botanist (Morphology), XVI, a 864; (Ray), XX, b 313, a 314
JUNG, Johann Heinrich or Stilling, poet, XIII, b 783-4; (Germany), X, b 483; (Goethe), a 645, a 647
——, M., staff officer (Iron Mask), XIII, b 371
—— of Innsbruck, ethnologist (Vlachs), XXIV, b 288
Jungaria, kingdom (Calmucks), IV, *a* 629
Jung-Breslau, town (Inowrazlaw), XIII, a 98
Junge Goethe, Der (Goethe), X, a 656
Jungermann, Ludwig, botanist (Horticulture), XII, a b 225
Jungermannia, genus (Botany) (Ill.), IV, b 143, a 144, b 147
Jungermanniaceæ, class (Liverworts), XIV, b 725; (Muscineæ) (Ill.), XVII, b 73, *a b* 74, *a b* 75, *a b* 76; (Vegetable Kingdom), XXIV, *b* 140
Junge's *Länge der Sinus und Cosinus* (Tables), XXIII, b 13
Jungfernstieg, street (Hamburg), XI, b 361
Jungfrau von Orleans (Schiller), XXI, b 414
Jungholz, commune (Germany), X, a b 415
Junghuhn, Franz Wilhelm, naturalist (Java), XIII, a b 611, note, b 612, b 620; (Sumatra), XXII, a 672, b 673
Junglache, town (Tibet), XXIII, b 361, b 363
Júng-lám, road (Tibet), XXIII, a b 363
Jungle-fowl (Fowl), IX, a 434
Jungmann, Joseph, philologist (Slavs), XXII, a 160, b 161
Jungwein (Wine), XXIV, a 634
Junian law (Roman Law), XX, a 723, b 732
Juniata iron (Pennsylvania), XVIII, b 512
Junilius, bishop (Canon), V, a 13
JUNIPER, tree, XIII, a b 784; (Arboriculture), II, b 280; (Cedar), V, a *b* 248; (United States), XXIII, b 862; fruit of (Botany), IV, a 135, a 139; (Gin), X, b 537, a 538
JUNIUS, pseudonym, XIII, b 784-7
  authorship, original speculations about, b 785
  effect of his letters, a 785
  Sir Philip Francis, b 785-7
  Merivale's theory, a 786
  Temple theory, a 787
—— (Almon), I, a 523; (Burke), IV, b 485, b 486; (Glover), X, a 618; (Tooke), XXIII, b 473; (Wedderburn), XXIV, b 502
——, *Letters of* (Francis, Sir P.), IX, b 613, a 614; (Libel), XIV, b 506; (Newspapers), XVII, b 427
Junius Ascertained (Chalmers), V, b 324
JUNIUS, Franciscus, theologian, XIII, b 787-8
JUNIUS, Franciscus, 2d, philologist, XIII, a 788; (Typography), XXIII, *b* 740
——, Hadrianus, author (Typography), XXIII, b 732, a 733, *a* 735, *a* 736
——, Lucius, consul (Rome), XX, b 766
Junk Ceylon, island (Malay Peninsula), XV, b 323; (Siam), XXI, b 890, a 895
Junker, Carl, engineer (Aqueduct), II, b 199
JUNO, goddess, XIII, a b 788. See HERA
Juno, asteroid (Astronomy), II, a 706; (Parallax), XVIII, b 254
Junonia, city (Carthage), V, a 142
JUNOT, Andoche, general, XIII, b 788-9; (Masséna), XV, a 624; (Napoleon I.), XVII, a b 219, a 220; (Portugal), XIX, a b 566; (Wellington), XXIV, *a* 523
JUNOT, Laure Permon, duchesse d'Abrantes, XIII, a 789; (Mirabeau), XVI, a 518
JUPITER, god, XIII, a 789-90; (Ægis), I, a b 164; temple of (Pompeii), XIX, a b 461. See Temple, ZEUS
—— Ammon, oasis of (Egypt), VII, a 680
Jupiter, planet (Astronomy) (Ill.), II, a 707-9
  belts of (Ill.), b 707
  brightness of, b 708
  elements of, 684
  physical condition of, a 708
  rotation of, b 707
  satellites, a 709
——, eclipses of satellites of (Parallax), XVIII, b 250, a 256; (Light), XIV, b 588; light of (Photometry), XVIII, b 856; measurements (Micrometer), XVI, b 260; subsystem of (Tides), XXIII, a *b* 405-6; satellites of (Galileo), X, b 29 30, a 32; (Navigation), XVII, b 263, a 266, b 267, a 268; (Telescopic Work), XXIII, a 936
Jupon, garment (Costume), VI, b 414
JURA, department, XIII, a 792

JURA, island, XIII, b 792-3
JURA, mountains, XIII, b 790-2; (Europe), VIII, a b 600; (France), IX, a 446
—— Sound (Whirlpool), XXIV, a b 572
Jura majestatis circa sacra, secular claims (Concordat), VI, b 214
Jurassic fossils (Distribution), VII, b 245, 246, b 247; (Mammalia), XV, a 378; (Reptiles), XX, a 47; (Zoology, U. S.), XXIV, a b 925
—— system (Geology), X, a 314-7; (Greenland), XI, b 149; (Jura), XIII, b 790; (Russia), XXI, b 81; (Scotland), a 544; (Syr-Daria), XXII, b 859
Juridici, magistrates (Rome), XX, b 790, note
JURIEU, Pierre, theologian, XIII, a 793; (Bayle), III, *a* 396
Jurin, James, physician (Capillary Action), V, b 50; (Vascular System), XXIV, a 105
Juris-consults (Advocate), I, b 161; imperial (Roman Law), XX, b 721, a b 722, b 723-4, b 730-1
Jurisdiction (Admiral), I, *b* 143; (Admiralty), I, a b 145, a 148; (Chancery), V, b 338; (Quarter Sessions), XX, a 166; alien court (Judgment), XIII, b 774; regal period (Roman Law), XX, a 695-6
Jurisics, Nicolas, soldier (Guns), XI, b 295
Jurisprudence (Austin), III, b 89; (Gans), X, a 65; (Gothofred), a b 752; (Grotius), XI, b 195-6; (Hotman), XII, b 322, a 323; (Political Economy), XIX, a 406; (Savigny), XXI, a b 341, a 342; (Thibaut), XXIII, b 321-2; (Zachariae), XXIV, b 800-1; American (Kent, J.), XIV, a 42; analytical (Law), a b 355-62; comparative (Law), b 355, a b 367; early writers on (Scotland), XXI, b 568; historical (Law), XIV, a b 355-67; mediæval (Italy), XIII, a b 509; Moslem (Mohammedanism), XVI, b616-7; Roman (Labeo), XIV, a b 165; (Roman Law), XX, b 716-7, b 724; Sawaiori (Polynesia), XIX, a 439
——, Medical. See MEDICAL JURISPRUDENCE
Jurists, Roman (Latin), XIV, a 339; (Justinian I.), XIII, b 801, *a* b 802; (Slavery), XXII, a 142
Jurjani, poet. See Asadi
Juromenha, visconde de (Camoens), IV, b 659, *b* 660
Jurors, Perjury of, XVIII, b 559
JURY, XIII, a 793-7
  development of, a 793-4
  France, a 797
  functions of, a b 796
  merits of system, b 796
  origin of, b 793
  Scotland, a 797
  twelve, analogy of, b 794, note
  United States, a 797
  varieties of, a 795
—— (Alien), I, a 507; (Damages), VI, a 694, a 695; (Feuerbach, P. J. A. von), IX, a b 109; (Oath), XVII, b 717, b 720; (Witness), XXIV, a b 657
—— courts (Prætor), XIX, *b* 675, a 676; powers of (Libel and Slander), XIV, b 506; Roman (Province), XIX, a 911
——, Trial by, XXIII, b 589, a 590; (Assize), II, a 638; (Chancery), V, b 338; (England), VIII, b 268, *b* 276, a 277; (Evidence), a 648; (Henry II., England), XI, a 587; (Hundred), XII, b 374; (Italy), XIII, a 473; (Venue), XXIV, a b 176; abrogation of (Summary Jurisdiction), XXII, a 675; diminished opinion of (England), VIII, b 237; rise of (Scotland), XXI, b 507; Swedish (Press Laws), XIX, b 733; vindicated (Penn), XVIII, a 504, a 505
Jurymen of Athens (Pericles), XVIII, b 540
Jus Ælianum (Roman Law), XX, a b 698, a 717
—— *Canonicum* (Canon Law), V, b 15
JUS CIVILE (Roman Law), XX, a 696-713; (Civil Law), V, a 696
—— divinum (Church History), V, a 664; (Presbyterianism), XIX, a 697, a 704, a 706, *a* b 708, a 712
—— exilii (Præneste), XIX, b 674
—— *Feciale* (International Law), XIII, a 197
—— *Feudale* (Craig, Thomas), VI, *b* 480
—— Flavianum (Roman Law), XX, a 698, b 716
JUS GENTIUM (Roman Law), XX, b 704, b 710, a b 713-21; (Civil Law), V, a 696; (International Law), XIII, a *b* 197
—— Hamburgicum (Hamburg), XI, a 361
JUS HONORARIUM, XX, b 713-21
—— imaginum (Genealogy), X, b 128; (Nobility), XVII, b 539, b 541, a 543; (Rome), XX, b 774
—— in personam (Law), XIV, a 362
—— in re aliena (Roman Law), XX, b 708
—— in rem (Law), XIV, a 362
—— *Magdeburgicum*, XV, b 198; (Poland), XIX, b 299, a 300, a 305
—— naturæ (Political Economy), XIX, b 372, b 379, b 399, b 405, a 406
JUS NATURALE (Roman Law), XX, b 721-9
——, nature of (Roman Law), XX, a b 688
—— *novum* (Justinian I.), XIII, b 801, a 802
—— Papirianum (Roman Law), XX, a 688, note
—— *Publicum Regni Poloni* (Poland), XIX, b 305, a b 306, a 314
—— Quiritium (Roman Law), XX, b 686, b 687, a 688, b 690, b 721
—— *Susatense* (Soest), XXII, a 259
—— *vetus* (Justinian I.), XIII, b 801, a 802, a 803
Jussiapé, river (Brazil), IV, b 199
JUSSIEU, Adrien Laurent Henri, botanist, XIII, a 798
JUSSIEU, Antoine de, botanist, XIII, a b 797
JUSSIEU, Antoine Laurent de, botanist, XIII, b 797-8; (Botany), IV, a 71
JUSSIEU, Bernard de, botanist, XIII, b 797; (Cedar), V, a 248; (Polype), XIX, b 442; (Morphology), XVI, b 864-5
JUSSIEU, Joseph de, botanist, XIII, b 797
JUSSIEU, Laurent Pierre, author, XIII, a 798
Justedalsbræ, snow field (Norway), XVII, a589, b592
Justi, Ferdinand, lexicographer (Kurdistan), XIV, b 158
——, Johann Heinrich Gottlieb von, publicist (Political Economy), XIX, a 377
JUSTICE, title, XIII, a b 798
——, quality (Plato), XIX, a b 215, b 216, b 217; Berlin (Schopenhauer), XXI, a 474; imperial administration of (Greece), XI, b 99; military administration of (Army), II, b 513-4; theory of (Schopenhauer), XXI, a 473
JUSTICE OF THE PEACE, XIII, b 798-9; (Constable), VI, *a b* 263; (Criminal Law), a 521; (Municipality), XVII, b 34; (Summary Jurisdiction), XXII, a 675-6; (Warrants), XXIV, a b 392
Justiciar, magistrate (England), VIII, a 268; (Justice), XIII, a b 798; (State Officers), XXII, *a* 476; Aragonese, II, b 267; (Spain), XXII, a 337, *a b* 338
JUSTICIARY, High Court of, XIII, a b 799
Justification, dogma (Andrewes), II, b 20; (Dogmatic), VII, b 295; (Galatians), X, b 19; (Trent, Council of), XXIII, b 580; in Pauline theology (Paul), XVIII, b 428, a b 436, note
"Justifying" in Typography, XXIII, b 745, b 746
JUSTIN I., emperor, XIII, a 801; (Persia), XVIII, b 622; (Syriac Literature), XXII, b 872, *a* 874
JUSTIN II., emperor, XIII, a b 801; (Syriac Literature), XXII, a 876, a 877
JUSTIN or Justin Frontinus, historian, XIII, b 800-1; (Persia), XVIII, b 601, b 603 note, b 617; (Scythia), XXI, a b 604
——, Gnostic writer, X, a b 626, a 627
JUSTIN MARTYR, XIII, b 799 800; (Acts of the Apostles), I, a 115; (Apologetics), II, a 168; (Canon), V, b 8; (Dogmatic), VII, b 293; (Eschatology), VIII, a *b* 475, note, a 476, note; (Gospels), X, b 720, a 725, b 726-7, *b* 730, a b 731-3, a 739; (Hermeneutics), XI, a 636; (Homily), XII, b 128; (Millennium), XVI, a b 328; (Neoplatonism), XVII, a 344; (Sacrifice), XXI, *a* 147; (Simon Magus), XXII, a b 86, notes, *a* b 87, notes; (Sunday), a 688; (Valentinus), XXIV, a 44
Justina, empress (Ambrose, St.), I, *a* 583; (Valentinian II.), XXIV, a 43
Justinger, Conrad, chronicler (Tell), XXIII, *a* 171
JUSTINIAN I., Flavius Anicius, emperor, XIII, b 801-7
  Code, b 801-2
  Digest, b 801, b 802-3
  ecclesiastical policy, a 805-6
  estimate of, a b 807
  finance, b 804-5
  foreign affairs, a 806-7
  Institutes, a 803
  legal reforms, b 801-4
    nature of, b 803-4
  Novels, b 803

——

—— (Belisarius), III, *b* 462; (Boetius), a 744; (Code), VI, b 95, *a* 96; (Greece), XI, a b 100, a b 101; (Israel), XIII, a 440; (Italy), a 478; (Jordanes), *b* 758; (Mosaic) (Ill.), XVI, b 879, a 880; (Narses), XVII, a b 239; (Pelagius I.), XVIII, a 484; (Procopius), XIX, *a* b 811, a b 812; (Syriac Literature), XXII, b 876; (Silk), b 62; (Theodora), XXIII, b 272, a b 273; (Theodore), b 274; (Theophilus), a 296-7; (Tribonian), a b 590, a 591; (Usury), XXIV, a 23; (Vandals), b 65, a 66; (Women), *a* b 672
JUSTINIAN II., emperor, XIII, b 807; (Mohammedanism), XVI, b 593, a 595; (Philippicus), XVIII, a 762
——, Aqueduct of, II, a b 193
—— code (Abbot), I, a 28; (Advocate), b 161; (Deaf and Dumb), VII, a 7; (Divorce), a 261; (Gaius), X, a b 16; (Gloss), b 612; (Irnerius), XIII, b 283; (Medical Jurisprudence), XV, a 793; (Roman Law), XX, b 713, b 716, b 717 note, b 720, b 721, a 722, a *b* 723, *b* 724, note, a 725 note, *b* 729, a 730, b 731-5; (Rome), a 808; (Sunday), XXII, a 689; (Slavery), *a* 143; (Theatre), XXIII, b 245; (Theft), a 250; (Treason), a 559; (Trebonian), b 590, a 591. See Code
——, *Institutes* of. See *Institutes*
Justinianus, printed 1468 (Typography), XXIII, b 723, a 731
Justinus. See Justin
Justus of Ghent, painter, X, a b 505; (Urbino), XXIV, a b 14, note, a 15
JUTE, fibre (Ill.), XIII, b 807-13
  batching and softening, a 812
  commercial brands, b809
  manufacture, b 810-3
  plants (Ill.), a 808
  preparation of, a 809
  sources, b 808-9
  spinning, b 812
  trade, a 810-11

Jute (Bengal), III, a 490; (Carpets), V, b 115; (Gunny), XI, b 281; (Hemp), b 577; (India), XII, b 787, a 796, a b 797, a b 798; (Paper), XVIII, a 230; manufacture of (Oakland), XVII, a 714; (Scotland), XXI, a 558; mills (India), XII, b 802
JUTERBOGK, town, XIII, a 813
Jutes, people (England), VIII, b 242, note, b 243, *a* 244; (Goths), X, a b 753
Jutia or hutia, animal (Cuba), VI, b 601
Jutland, peninsula (Cimbri), V, a 682; (Denmark), VII, *b* 70, *a* 71, b 73, *a* 74, *a* 78
JUVENAL, Decimus Junius, poet, XIII, a 813-8
  - biographical notes, b 813-5
  - critical estimate, a 817-8
  - epoch of, b 814, b 815, *b* 816
  - quality of, a 813, a 814
  - satires, a 816-7

—— (Johnson, S.), XIII, b 732, b 733; (Latin Language), XIV, a 338; (Magic), XV, b 203; (Martial), *a* 585, a *b* 586, a 587; (Monachism), XVI, b 724; (Persius), XVIII, a b 674, a 675, a 676, a 677; (Petronius), a 736; (Roman Literature), XX, b 745-6; (Statius), XXII, *a* 484
Juvencus, Gospels of (Celtic Literature), V, a 273
Juvenile offenders (Prison Discipline), XIX, a b 776; Belgian (Prison Discipline), a 778; French (Prison Discipline), b 779; Italian (Prison Discipline), b 780; United States (Prison Discipline), b 783-4
—— Reformatories in United States, XX, b 898-901
Juvenilia (Hunt), XII, b 398
Juventas, god (Hebe), XI, a 530
JUXON, William, archbishop, XIII, b 818-9; (Peter's), XVIII, b 715
Juy-tsung, emperor (China), V, a 561
Jyotisha or astronomy (Sanskrit), XXI, b 287, a b 309

K, letter, XIII, a 819
KAABA or Ka'ba, shrine, XIII, b 819; (Abraham), I, a 56; (Arabia), II, b 223, a 227, a 230; (Mecca), XV, a b 677, *a b* 679, notes, a *b* 680, note, *a b* 681; (Mo'allakát), XVI, b 559; (Mohammedanism), a 569, a 572, note, a 577, b 582, b 591, a 592, a 593, a 594, b 602, b 604, a 609; (Pilgrimage), XIX, b 101-2; (Textiles), XXIII, a 229; guardianship of (Hasan and Húsein), XI, a 454
KAADEN, town, XIII, b 819
Kaalund, Hans Wilhelm, poet (Denmark), VII, a 82
Kaa-n-ghiur, religion (Lhasa), XIV, b 499, note
Kaas, Ivor, baron, dramatist (Hungary), XII, b 393
Káat, shrub (Arabia), II, b 207
Kaatskill mountains. See Catskill
Kab in Weights and Measures, XXIV, *b* 512
Kababish, race (Soudan), XXII, b 292
Kabah, ruins (Yucatan), XXIV, *b* 796, *a* b 797
Kabalaki, mountain (Timor), XXIII, b 424
Kabara, port (Niger), XVII, a 510; (Timbuktu), XXIII, a b 118
Kabardans, tribe (Caucasus), V, a 224; (Circassia), V, b 689
Kabatnik, Martin, traveller (Slavs), XXII, a 161
KABBALAH, book (Ill.), XIII, a 820-3; (Gnosticism), X, b 625; (Hermeneutics), XI, a 665; (Israel), XIII, a 439; (Paracelsus), XVIII, b 239, a 240; (Pastoral Epistles), a 356; system of theosophy (Pico), XIX, b 89; philosophy of (Jacobi), XIII, b 517
"Kabbeljaus," party (Holland), XII, *b* 75
Kabebe, town (Africa), I, b 243
Kabelvaag, town (Lofoten and Vesteraalen), XIV, a 776
Kábi or Kávi, blacksmith, patriot (Ispahán), XIII, b 405
Kabinda, town, IV, b 549; (Loango), XIV, a b 749
Kabīr, teacher (Hindustani Literature), XI, *a b* 754, note, a 756
Kabirpanthís, sect (Biláspur), III, a 580
Kabkab, mountain (Mecca), XV, a 677, note
Kabul or CABUL, IV, b 553-4; (Afghânistân), I, a 209, a 210, b 211, b 213, *a b* 214, *a b* 215, *a* 216; (Persia), XVIII, a 653; basin (Afghânistân), I, a *b* 204, *a* b 205, *b* 207, b 208. See CABUL
Kabushan, town. See KUCHAN
KABYLES or Kabáil, tribes, XIII, a 823-4; (Africa), I, a 234; (Algeria), a 497, a b 501, a 502; (Numidia), XVII, b 643; (Tunis), XXIII, a 660. See Berbers
Kaccâyana, grammarian (Pâli), XVIII, b 189
Kachá river (Bákarganj), III, b 213
Kachh. See CUTCH and Ran
Kacho. See CACHAO
Kacic-Miosic, Andrew, monk (Servia), XXI, b 722
Kada, lake (Siberia), XXII, a 10
Kadâmbarî, novel (Sanskrit), XXI, a 299
Kadambas, race (Mysore), XVII, a 131
Kadapa. See CUDDAPAH
Kadee or Kadi, title (Arabia), II, a 217. See Cadi
Kaders, tribe (India), XII, a 816
Kadesh, district (Moab), XVI, b 557; (Moses), b 888
—— on the Orontes, town (Egypt), VII, b 639; (Syria), XXII, b 860, *b* 861; battle of (Hittites), XII, *b* 28, a b 29
—— Barnea (Israel), XIII, a 407, a 408, b 409-10; (Palestine), XVIII, a 180; (Petra), XVIII, b 719
—— or Kades Naphtali, town (Galilee), X, b 26
Kadi Keui, village (Chalcedon), V, b 322-3; (Constantinople), VI, *b* 269, b 271, a 273
Kadin, title (Harem), XI, b 427-8
Kadina river (Niger), XVII, b 510
Kádir billáh, caliph (Mohammedanism), XVI, a-b 610
Kadisha, river (Lebanon), XIV, a b 393
Kádisiya, battle of, 637 (Mohammedanism), XVI, a-b 585, b 590; (Persia), XVIII, b 626, a 627
Kadlubek, Vincent, historian (Poland), XIX, *a* 297, a 311
Kadmis or Kadmees, sect (Parsis), XVIII, a 332
Kadmonites, tribe (Canaanites), IV, a 674
KADOM, town, XIII, a 824
KÁDUR, district, XIII, a 824-5
Kae-chow, district (China), V, b 556
KAEMPFER, Engelbrecht, traveller, XIII, a 825; (Geography), X, a b 166; (Ginseng), a b 540; (Japan), XIII, b 585, b 587, b 589, b 593, *a* 594, b 602
Kafeh or salt swamps (Kirman), XIV, a 102
KAFFA, country, XIII, a b 825
—— of Crimea, seaport. See Theodosia
KAFFRARIA, KAFFRES or Kafirs, XIII, b 825-30
  - ethnography, b 827-8
  - descriptive geography, b 825-6
  - divisions of, a b 826
  - language, a b 829
  - wars, b 826

—— (Africa), I, b 236; (Birds), III, b 658; (Brewing), IV, b 236; (Cape Colony), V, b 37, b 38, a *b* 39, a b 41, b 42-3; (Hottentots), XII, b 324, b 325, b 326, *a*b 327; language of, XIII, a b 829; (Dictionary), VII, a 167; (Grammar), XI, a b 35. See Bantu, Zulu-Kaffre; Religions, XX, *a* b 375; (Circumcision), V, b 69; wars of, XIII, b 826; (Cape Colony), V, a 41; (Graham's Town), XI, b 31
Kafir, epithet (Prester John), XIX, b 735
Kaffirs, Plaines des (Réunion), XX, a 506
KAFIRISTAN, country, XIII, a 830-2
  - country of, a 830
  - ethnological features, a b 831
  - language, b 831-2
  - religion, a 832
  - social habits, a b 832
  - travellers' accounts, b 830, a b 831, a b 832

—— (Hindú Kúsh), XI, *a* b 748
Káfoor, vizier (Egypt), VII, b 650
Kaftán, garment (Egypt), VII, b 627
Kaftu, region (Syria), XXII, b 861
Káfúr, regent (Motanabbi), XVII, b 7
Kagera river (Nile), XVII, a b 518
Kaghyzman mountain (Transcaucasia), XXIII, a 547; town (Transcaucasia), b 547
Kagoshima, town (Japan), XIII, a 580, b 580; (Xavier), XXIV, *b* 753; bay, a b 580
Kagu (Birds), III, a b 616, a 643; (New Caledonia), XVII, a 386; (Sun-Bittern) (Ill.), XXII, a b 687
Kahal, society (Russia), XXI, b 87, b 89
Káhins, seers (Mohammedanism), XVI, a 576
Káhir billáh, caliph (Mohammedanism), XVI, a b 609
Káhireh, El, city. See CAIRO
Kahlamba, mountains (Cape Colony), V, a 38
KAHLUR, state. See BILASPUR
Kahnis, Karl Freidrich Auguste, theologian (Theology), XXIII, b 288
Kahrieh, mosque (Constantinople), VI, a 270, b 271
Kahulawi, island (Hawaiian Island), XI, b 474, b 475
Kaiapoi, town (Canterbury), V, a 29
Kaibab plateau (United States), XXIII, b 849, *a* 850
Kaibals, people (Samoyedes), XXI, *b* 263, a 264
Kaidu Khan (Polo), XIX, a 418
Kaiechôs or Ka-Kau, king (Egypt), VII, a 621, note, a b 634
Kaieteur, waterfall (Guiana), XI, a 222
K'AI-FUNG Foo, city, XIII, a 833; department (China), V, a 564
Kaikávús, sultan (Seljuks), XXI, b 668-9
Kaikhosrau I., sultan (Seljuks), XXI, *b* 668
—— II., Ghiyats ed-din, sultan (Seljuks), XXI, a b 669
—— III., Ghiyats ed-din, sultan (Seljuks), XXI, b 669
Kaikobad, Alá ed-din, sultan (Seljuks), XXI, a 669
—— ben Mas'úd, sultan (Seljuks), XXI, b 669
Kailás, mountain (Himalaya), XI, a 745; (Indus), XII, b 888
—— Gangri mountain (Tibet), XXIII, a 361, a 365
Káim, prince (Mohammedanism), XVI, b 609
—— bi-amr-illáh, caliph (Mohammedanism), XVI, b 610
Káimúr, mountains (India), XII, b 771; (Sháhábád), XXI, *a* 771
Kainardji, peace of, 1774 (Greece), XI, a 109. See Kutchuk-Kainardji

Kainite (Agriculture), I, b 314; (Mineralogy) (Ill.), XVI, b 419; (Potassium), XIX, *a* 605
Kainozoic Corals, VI, b 336, b 337
Kaipara, harbor (New Zealand), XVII, a 480, a 483
Kaiparowits plateau (United States), XXIII, a 850
KAIRA, district, XIII, a b 833; town, b 833
—— Kan, deity (Shamanism), XXI, a 808
KAIRWAN, Kairawan, Kirwan, Kerouan, city, XIII, b 833-4; (Mohammedanism), XVI, a 590; (Mosque), a 892, b 893; (Tunis), XXIII, *b* 660
Kais, island. See KISH
——, patriarch (Afghânistân), I, b 213
Kaisánites, sect (Mohammedanism), XVI, b 592 note
Kaisarieh, town (Cæsarea), IV, a 568; (Cappadocia), V, *b* 67
Kaiser (Titles of Honor), XXIII, b 445
——, Frederik, of Leyden (Astronomy), II, b 701, a 705; (Micrometer), XVI, b 261
Kaiserchronik (Germany), X, a 464
Kaiser-Franzensbad. See FRANZENSBAD
Kaiser Karl, Chunrat's Song of (Ireland), XIII, b 262
Kaiserkarlsbad, town. See CARLSBAD
KAISERSLAUTERN, town, XIII, a b 834
Kaiserstuhl, mountains (Baden), III, b 193
KAISERSWERTH, town, XIII, b 834; (Fliedner, T.), IX, *a* 268; deaconesses of (Monachism), XVI, b 741
Kaiserurkunden, Sybel and Sickel (Palæography), XVIII, a 161, a 170
Kaisites or Keysees (Arabia), II, b 226; (Mohammedanism), XVI, a b 592, a 598
Kaisow black teas (China), V, b 552
Kaissar, town (Ghúr), X, *b* 509
Kait in Weights and Measures, XXIV, a 518
Kaïtbey, El Ashraf, sultan (Egypt), VII, b 657; (Mosque) (Ill.), XVI, a 893
KAITHAL or Kythal, town, XIII, b 834
Kaiyáni, Muhammad, king (Sistán), XXII, a 109
Kajar dynasty, Persia (Ispahán), XIII, a 404, b 406; (Persia); XVIII, a 657
Kajars, people (Khorásán), XIV, *a* 69, note; (Persia), XVIII, b 654, note; (Turks), XXIII, a 703
Kajees, priests (Jews), XIII, b 695
Kaka, bird (Nestor), XVII, b 363
KAKAPO, bird, XIII, b 834–5
Kakars, tribe (Afghânistân), I, a 204, b 208, a 211, a [illegible]13
Kakhetia, district (Caucasus), V, a 222, a 224; (Georgia), X, *b* 387, a b 388, *a* 389, a 390
Kakhyens, tribes (Burmah), IV, a *b* 493, note
Kakian Union, society (Ceram), V, b 299
Kakni, river (Jáisalmir), XIII, b 554
Kakodyl (Greek Fire), XI, a 143; (Methyl), XVI, b 205–6. See Cacodyl
Kakongo, district (Loango), XIV, b 748, a 749
Kal'a, town (Tiflis), XXIII, b 411
Kala 'at, castle (Hems), XI, b 579
KÁLABÁGH or Kulabagh, town, XIII, b 835
Kala bakong river (Sabah), XXI, a 132
Kalahari desert (Africa), I, a b 226, a 228, b 229, a b 230, a 237; (Livingstone), XIV, b 726
Kalah Sherghat, ruins (Babylonia), III, a 159
—— Shuhbá, castle (Márdín), XV, a 543
Kalaji, people (Nubia), XVII, a 627
KALAMATA, town, XIII, b 835
Kalamatia, gulf (Greece), XI, b 74
KALAMAZOO, Michigan, XIII, b 835
Kalá-oon, El-Elfee, sultan (Egypt), VII, a 656
Kalapa or *Katantra* (Sanskrit), XXI, a b 307
Kalápin, scholar (Sanskrit), XXI, *b* 291
Kalâshas, tribe (Kâfiristân), XIII, a 831
KALATCH, town, XIII, b 835–6
Kalat el Hosn, ruin (Galilee), X, a b 28
Kala't-i-Ghilzai, fortress (Afghânistân), I, a 204, a 207
Kalaún, sultan, Egypt (Tripoli), XXIII, a 613
Kalawewa lake (Ceylon), V, a 320
KALBE an der Saale, town, XIII, a 836
Kalbinsk mountains (Semipalatinsk), XXI, a 671
Kalcker, John de, painter. See CALCAR
Kalda, district (Mesopotamia), XVI, a 56
Kaldi, George, translator (Hungary), XII, a 391
Kale, plant (Cabbage), IV, a 549; (Horticulture), XII, b 290
—— river (Roxburgh), XXI, b 39
—— Akte, city (Sicily), XXII, a 22
Kaleege, bird (Pheasant), XVIII, a 747
KALEIDOSCOPE (Ill.), XIII, a 836–7; (Brewster), IV, b 246; (Light), XIV, b 591
Kaleidophone (Wheatstone), XXIV, b 568
Kalenberg. See CALENBERG
Kalenders, guilds of (Guild), XI, b 231
Kalevala or *Kalewala*, epic (Ballads), III, b 245; (Finland), IX, a *b* 191; (Longfellow), XIV, a 872; (Mythology), XVII, b 164, *a* 165; (Poetry), XIX, b 281
KALGAN, town, XIII, b 837–8
Kalhana, Pandit, historian (Kashmir), XIV, b 14; (Sanskrit), XXI, a 298
Kalhat, district (Arabia), II, a 222
Kalhora Núr Muhammed, khan (Sind), XXII, a b 99
Kalhoras, rulers (Thar and Párkar), XXIII, b 239
Kalhúr tribes (Kurdistan), XIV, a 160 note
Kálī, goddess (Brahmanism), IV, b 187; (Jaintia Hills), XIII, b 554
—— river (Himalaya), XI, a 735
KÁLIDÁSA, poet, XIII, a b 838; (Drama), VII, b 343, b 345; (Sanskrit), XXI, *b* 297, a b 299, b 300
Kalidé, Theodore, sculptor (Sculpture), XXI, a 593
Kali Gandak basin (Tibet), XXIII, a 362
Kalilah and Dimnah (Syriac Literature), XXII, b 894
Kálí Nadí, river (Aligarh), I, b 507
KALINGA, kingdom, XIII, b 838
KALINGAPATAM, town, XIII, b 838
Kalinjar, town (Bandá), III, b 267
KALISH, town, XIII, a 839
Kalisz, provincial statistics (Russia), XXI, a 76
KALITVENSKAYA, village, XIII, a 839
Kalix, Elf or river (Sweden), XXII, a 774
Kali-yug, era (Chronology), V, *a* 624
Kalk, suburb (Deutz), VII, b 116
Kalkar, O., philologist (Scandinavian Languages) XXI, b 389, a 390
Kalkberg, hill (Lüneburg), XV, *a* 67
Kalkreuth, marshal (Fortification), IX, a b 406, a 407
Kalladakúrchi, town (Tinnevelli), XXIII, b 431
Kallima (Butterflies), IV, b 527
Kallina Point (Zaire), XXIV, a 803
Kalm, Peter, traveller (Petroleum), XVIII, a 726
Kalmar, city. See CALMAR
Kalmit mountain (Germany), X, a 403
Kalmucks (Calmucks), IV, a b 629; (Mongols), XVI, a b 772, a b 776; (Russia), XXI, b 87, b 88, b 89; (Tartars), XXIII, a 77; (Turkestan), b 680–1; alphabet of (Mongols), XVI, a 777; *Dictionary* of, VII, a 167
Kalmykoff, town (Uralsk), XXIV, a 11
KALNA or Culna, town, XIII, a 839
Kalo, plant (Hawaiian Island), XI, b 472, *a* 473
KALOCSA, town, XIII, a 839; Observatory, XVII, b 733
Kalong, mammal (Bat), III, b 372; (Flying Fox), IX, a 309; (Java), XIII, b 613
Kalousek, Joseph, historian (Slavs), XXII, b 163
Kalpa, ceremonial books (Jains), XIII, a 554; (Sanskrit), XXI, b 287–8, b 289–90, b 292, b 293, b 301
Kalpéni island (Laccadives), XIV, *b* 183
KÁLPI or Culpee, town, XIII, a 839; (Bundelkhand), IV, a *b* 466; (Jaláun), XIII, *b* 557
Kaltenhausen, town (Bitsch) III, b 689
Kalter guns (Artillery), II, a 574
Kálú Pass (Hindú Kúsh), XI, a 748
KALUGA, government, XIII, b 839; statistics (Russia), XXI, a 76; town, b 839–40
Kalu-ganga, river (Ceylon), V, b 312–3
Kaluschi Indians (America), I, a 606, a 614
Kalutara, town (Ceylon), V, *a* 313, b 319
Kalvan, city (Thána), XXIII, a 239
KALVARIYA or Kalwarya, town, XIII, a 840; (Suwalki), XXII, a 766
Kalvos, Greek poet (Julien), XIII, a 780
KALW or Calw, town, XIII, a 840
Kalyptra, veil (Costume), VI, b 401
Kalyan, city (Thána), XXIII, a 239
Kalyún (Pipe), XIX, a b 120
Kama, river (Kazan), XIV, b 21, *a* 22; (Kungur), b 156; (Perm), XVIII, b 560, a 561; (Russia), XXI, *a b* 80, b 82, *a* 86; (Ufa), XXIII, *a b* 764; (Volga), XXIV, b 298, b 299, *a* 301; (Vyatka), *b* 323
Kamachia, town. See SHEMAHA
Kāmadeva, deity (Brahmanism), IV, a 188
Kámákhyá, shrine (Gauháti), X, a 100; (Nowgong), XVII, a 624
Kamakura, city (Japan), XIII, a 592
KÁMALÁ, drug, XIII, a b 840
Kamalondo, lake (Africa), I, b 222, a 229
Kamál-uddín Isfahání, poet (Persia), XVIII, b 670
Kamasin Tartars, people (Samoyedes), XXI, b 263, a 264
Kambay, town. See CAMBAY
Kambello, town (Ceram), V, b 299
Kambing island (Indian Archipelago), XII, b 857
Kamboja, kingdom. See CAMBODIA
Kambu, cereal (Tinnevelli), XXIII, a 432
Kamburg, town and district (Saxe-Meiningen), XXI, b 363, a 364
Kamchadales or Kamtchatkans, race (Albatross), I, a 398; (Bear), III, a 399; (Dance), VI, b 703, a 704; (Ichthyology), XII, b 713, b 717; (Kamchatka), XIII, b 841
KAMCHATKA, peninsula (Map), XIII, b 840-1
—— Dog, VII, a 283
—— Sea (Pacific Ocean), XVIII, b 119
Kameel or Kamil, El, sultan (Crusades), VI, b 556–7; (Egypt), VII, b 654

Kamehameha I., king (Hawaiian Islands), XI, b 471, b 472; (Sandalwood), XXI, b 268
—— II., king (Hawaiian Islands), XI, b 471
Kameñ, mountains (Ural Mountains), XXIV, b 7
KAMENETS, town, XIII, b 841-2
KAMENZ, town, XIII, a 842
Kames, sand ridges (Geology), X, a 327; (New Hampshire), XVII, b 401
KAMES, Henry Home, Lord, philosopher, XIII, a b 842; (Æsthetics), I, a 200; (Agriculture), a 359
Kames castle (Bute), IV, a 517
Kamet, mountain (Garhwal), X, b 72; (Himalaya), XI, b 739
Kami, oasis (Oases), XVII, a 715
Kamichi, bird (Screamer), XXI, a 578
Kamienski, botanist (Parasitism), XVIII, a 269, note
Kamil or Komul, town (Hami), XI, a 366
——, sultan. See Kameel
Kaminting mountains (Borneo), IV, a 50
Kamirondo, river (Zaire), XXIV, b 801
Kammavácá, Buddhist manual (Páli), XVIII, a 189
Kammer, E., critic (Homer), XII, a b 122, note, a 125
Kammeralists, economists (Political Economy), XIX, b 376
Kämmererite (Mineralogy), XVI, b 431
Kammergericht, court (Prussia), XX, b 8, a 23
Kammersee or Attersee (Salz Kammergut), XXI, a 253
KAMMIN or Cammin, town, XIII, b 842
Kamoz, tribe (Kâfiristân), XIII, a 831
KAMPEN, town, XIII, a 843; (Overyssel), XVIII, b 81
Kampongs, villages (Achin), I, a 91
Kâmpot, town (Cambodia), IV, b 64
Kamptee, town. See KAMTHI
Kamptulicon (Floor Cloth), IX, b 288-9; (Linoleum), XIV, a 682
Kámrán, rajah (Lahore), XIV, a 215
KÁMRUP, district, XIII, a b 843; and town (Assam), II, *a* b 627, a 629
Kāmrup and Kalā (Hindustani Literature), XI, a 757
Kamsa, Gabriel, poet (Syriac Literature), XXII, b 900
Kamtchatka. See KAMCHATKA
Kamtchyk, river (Bulgaria), IV, a 462
KAMTHI or Kamptee, town, XIII, b 843; (Nâgpur), XVII, a 171
KAMUISHIN or Kamyshin, town, XIII, b 843; (Saratoff), XXI, *b* 319, *a* 320
Kamyshinka, river (Volga), XXIV, b 301
Kamyshloff. town (Perm), XVIII, b 560
Kan, river (Yeniseisk), XXIV, a *b* 779
Kana, syllabary (Japan), XIII, b 594, a 596, a 598
Kanab plateau (United States), XXIII, b 849, a 850
Kanáda, philosopher (Category), V, b 193-4; (Logic), XIV, a b 812; (Sanskrit), XXI, b 305
Kana-el-Jelil, village (Cana), IV, b 673
Kanagawa, town (Yokohama), XXIV, a *b* 782
KANANUR or Cannanore, town, XIII, b 843; (Malabar), XV, *a b* 315
KANARA or Canara, North, district, XIII, b 843-4
KÁNARA, South, district, XIII, b 844
Kanaris, Constantine, captain (Turkey), XXIII, b 690. See Canaris
Kanaster Tobacco, XXIII, b 453
KANAUJ, city, XIII, b 844; (India), XII, b 824-5, a 829, note
Kanawha rivers, Great and Little (West Virginia), XXIV, a *b* 546
——, state (West Virginia), XXIV, a 548
Kanayko, tribe (Pueblo Indians), XX, *b* 888
Kanbil, drug. See KÁMALÁ
Kanda, poem (Java), XIII, a 619
KANDAHAR, city, XIII, b 844-6; (Afghânistân), I, a b 204, *a* 210, b 213, b 214, *a* b 215; (Persia), XVIII, a 650, a 651, a 653
Kandang, mountains (Borneo), IV, a 50
Kandavu, island (Fiji Islands), IX, *a* 137
Kandelberg, mountain (Würtemberg), XXIV, b 735
Kander, river (Switzerland), XXII, *a* 815
Kandhs, tribe (Ganjam), X, *b* 63; (India), XII, b 816; (Madras), XV, b 186, b 188
KÁNDI, town, XIII, b 846; (Murshidábád), XVII, a b 69
Kandjur, sacred books (Lāmäism), XIV, b 229
Kändler, sculptor (Pottery and Porcelain), XIX, a 660
Kandurcha, battle of (Mongols), XVI, b 774
KANDY, town, XIII, b 846; (Ceylon), V, b 312, *b* 313, a 314, b 315, *b* 319, b 320, b 321
Kandyan district (Ceylon), V, b 314, *a* b 317, a b 318, a b 320
Kandygatai mountains (Semipalatinsk), XXI, a 671
KANE, Elisha Kent, explorer, XIII, b 846-7; (Geography), X, a 175; (Polar Regions), XIX, b 334, a 335
KANEFF or Kanieff, town, XIII, b 847
Kanem, state (Soudan), XXII, a b 292
Kanembu, race (Soudan), XXII, a 292
Kanemi, Mahomet el Aminel, sheikh (Bornu), IV, a 55
KANGAROO, animal (Ill.), XIII, b 847-51
  allied forms, b 850
  classification, b 849-50
  European discoveries of, b 848
  fossil forms, b 850-1
  physical structure (Ill.), a 848-9
—— (Australia), III, *a* 97; (Mammalia), XV, *a* 382, a 384; (Western Australia), XXIV, a 536
—— island (South Australia), XXII, a 297, b 299, *a b* 300
—— rat (Mammalia), XV, b 424
—— skin (Leather), XIV, a b 389
Kang-chu ah-lin, river (China), V, b 548
Kangersuak, island (Greenland), XI, b 148
Kang-he Tsing, emperor (China), V, b 564-5, *a* 567, b 576; (Chronology), b 623; (Geography), X, a 168; (Lew Chew), XIV, a 490; (Ricci), XX, b 551 note; (Tibet), XXIII, a 360
Kanghi tsze tien (Dictionary), VII, b 166
Kang-Kao, town. See CANCAO
KÁNGRA, district, XIII, a b 851; (Biás), III, a 517; (Punjab), XX, a b 114, *b* 115, b 117, a 118; town, XIII, *a* b 851
Kanhán, river (Nágpur), XVII, a 171
Kání, humorist (Turkey), XXIII, a 699
Kaniapuscaw, lake (Labrador), XIV, a 176
Kauishka or Kanerkes, king (Afghânistân), I, b 214; (India), XII, a *b* 824, *a* 828, a b 829; (Inscriptions), XIII, b 125, a 126; (Persia), XVIII, a 617
KANIZSA-NAGY, town, XIII, b 851
Kanjúd, region and town (Gilgit), X, b 533
KANKAKEE, Illinois, XIII, b 851
Kankar or ghutin, limestone (India), XII, b 775, a 805; (Punjab), XX, a 114
Kanne in Weights and Measures, XXIV, a 518
KANO, town, XIII, b 851; (Africa), I, a 243; (Soudan), XXII, b 292; (Sokoto), *a* 262
——, drug. See KINO
KANSAS, state (Plate XIII), XIII, b 851-3; (Douglas), VII, *a* 327; (Universities), XXIII, a 913, a b 954; (United States), b 815, *a b* 820, a 822; statistics (United States), b 853, a b 855, a 856, a b 857, b 858, a b 860, b 862, a 863, b 864, a 865 note, *a* 870, a *b* 873, a 878
—— river (Kansas), XIII, a 852, *a* 853
—— and Denver Co. (Pacific Railroads), XIX, a 915, *a* 917, a 918
KANSAS CITY, Missouri, XIII, b 853; (Missouri), XVI, a 550
——, Kansas (Wyandotte), XXIV, b 740
—— -Nebraska Act (United States), XXIII, a 819, a 920; (Marcy), a 839
—— Permian system (Geology), X, a 312
Kánsbáns, river (Balasor), III, b 235
Káns-grass (Jaláun), XIII, b 557; (Narsinhpur), XVII, a 241
Kansk, town (Yeniseisk), XXIV, *b* 780
Kanso, island (Quarantine), XX, a 161 note
Kánsooh El-Ghoree, sultan (Egypt), VII, b 657
Kanstatt, town. See CANSTATT
Kan-suh, province (China), V, *a* 548, a 550, *b* 554, b 561, a 565; (Rhubarb), XX, a 545
KANT, Immanuel, XIII, b 853-64
  æsthetics, a b 864
  categories, a 861
  critical synthesis, b 862
  editions of, b 864
  educational period, a 853-4
  estimate of philosophy, a 863
  Hume's influence, a 860
  Kritik, b 860-1
  Leibnitz's impulses, b 858
  literary period, a 854-5
  Locke's impulses, b 857-8
  personal characteristics, a 855-6
  philosophy, a 857-64
  state of previous philosophy, b 858
  Wolffian influences, b 859
  writings, a 856-7
—— (Æsthetics), I, a 191, b 195-6; (Analogy), b 694; (Analytical Judgments), b 699-700; (Autonomy), II, b 114-5; (A Priori), b 187; (Association of Ideas), b 640; (Axioms), III, *a b* 139; (Belief), a 460, *b* 461; (Bouterwek), IV, a 162; (Butler, Bishop), *b* 521-2; (Cartesianism), V, b 126, b 139; (Category), a *b* 195-6; (Church), a 664; (Coleridge, S. T.), VI, b 124; (Condillac), *b* 223; (Cousin), b 463, a b 465, a *b* 466, a b 467; (Education), VII, a b 586, a 587; (English Literature), VIII, *a* b 385; (Ethics), a b 536; (Eve), a 644; (Evolution), b 666-7; (Fichte, J. G.), IX, a b 118, a b 120; (Fries, J. F.), *b* 689-90; (Gallupi), X, a 43; (Germany), a 483
——(Heine), XI, a 560; (Herder), a 652; (Hermeneutics), b 668; (Hufeland), XII, a 350; (Hume, D.), a b 367, b 368, b 369; (Hutcheson), a 427; (International Law), XIII, a 203; (Jacobi), *b* 547-8; (Jesus Christ), a 680, note, b 682; (Laplace), XIV, a 302; (Logic), a 802-5, *b* 806, *a b* 808, a 809; (Mendelsso[illegible]), XVI, b 13; (Metaphysic), a 88 *sq.*, b 97, *a* 103, b 104, b 107; (Pessimism), XVIII, b 700-1; (Philosophy), b 806, b 807, a 808;

Kant, *continued* (Price), XIX, a 742; (Psychology), XX, a 44, a 47 note, b 49, b 50, b 56, a 83, *a* 86, a 88, note; (Rationalism), b 301, a b 302; (Scepticism), XXI, b 400, a 401; (Schleiermacher), *b* 427, b 429, *a* 430; (Schopenhauer), a 474, a *b* 475, *a b* 477, *a* b 478; (Theism), XXIII, a 254, a 264, a *b* 265, note, a 266; (Theology), a 289, b 294; (Thibaut), a 321; (Variation), XXIV, b 83; (Zoology), *a* 840, note
Kantar in Weights and Measures, XXIV, a b 518
Kanteletar, poem (Finland), IX, b 191
Kantemir, Antiokh, satirist (Russia), XXI, a 114
Kantonsrath, legislature (Soleure), XXII, a 264
Kanuri, tribes (Bornu), IV, b 54; (Soudan), XXII, a b 292; (Tibbus), XXIII, a *b* 355
Kânva, family, rishis or poets (Sanskrit), XXI, *b* 288, *a* 292
Kánwárs, tribe (Bilâspur), III, b 580
Kanzego, town (Tibet), XXIII, b 363
Kanzleisprachen (Germany), X, a 466, note
Kao, island (Friendly Islands), IX, a 684
Kaokoland (Hereroland), XI, b 654
KAOLIN, china clay, XIV, a b 3; (Ceylon), V, a 314; (Delhi), VII, b 41; (Granite), XI, b 43; (King-Teh Chin), XIV, b 92; (Mineralogy), XVI, a 387, b 437, b 442; (Pottery and Porcelain), XIX, b 653
Kaolinite, mineral (Kaolin), XIV, a 3
Kaou-te, emperor (China), V, b 559
Kaou-tsung or t'sang, emperor (China), V, b 561; (Hwen T'sang), XII, a 434
Kâpargádi, mountains (Singbhúm), XXII, b 101
Kapela, mountain (Croatia), VI, a 523
Kapila, town. See HARDWÁR
Kapila, reformer (Brahmanism), IV, b 188, a 189; (Sanskrit), XXI, a 305
Kapilavastu, town (Buddhism), IV, a 381, *a* 382
Kápolna, battle of (Hungary), XII, a 387
Kapou aghassi, title (Harem), XI, a 428
Kappel, battle of, 1531 (Switzerland), XXII, a 829; (Zwingli), XXIV, a 873
Kapuas, river (Borneo), IV, *b* 50, b 51
Kapunda, town (South Australia), XXII, b 297, *b* 298, b 299, b 300
KAPURTHALA, state, XIV, b 3-4
Kara bay (Tobolsk), XXIII, a 457; (Ural Mountains), XXIV, *b* 7, *a* 8; river (Russia), XXI, b 80
— strait (Nova Zembla), XVII, a 619, a 620
— George, patriot, VI, a b 666; (Servia), XXI, b 721; (Turkey), XXIII, b 689
— Agatch river (Shíráz), XXI, a 868
— Amid, city (Diarbekir), VII, b 145
Karabagh, khanate (Shusha), XXI, *b* 888
Karaboghaz, gulf (Caspian Sea), V, b 154, b 155-6; (Geology), X, b 248
Karáchi, district and town. See KURRACHEE
Karachitai, empire of the (Prester John), XIX, b 735; (Seljuks), XXI, *b* 667
Kara-dagh, mountain (Asia Minor), II, b 616; (Lycaonia), XV, b 93
— Daria river (Syr-Daria), XXII, b 857
— -Edyr-tan, plateau (Ural Mountains), XXIV, a 9
Karaftu or Karafuto, island. See SAGHALIN
Karagasses, people (Samoyedes), XXI, b 263, a 264; (Siberia), XXII, b 13; (Tartars), XXIII, b 76
Kara-Gözlus, tribe (Turks), XXIII, b 703
KARA-HISSAR, towns, XIV, a 4
Karait, snake (Assam), II, b 630
KARAITES, Karaims, or Caraites, Jewish sect, XIV, a b 4; (Crimea), VI, *a* 519; (Hermeneutics), XI, a 665; (Mahzor), XV, a 295; (Russia), XXI, *b* 87, b 88; (Talmud), XXIII, b 42, b 43; (Targum), b 68
Karajich, Vuk Stephanovich, editor (Servia), XXI, *b* 722, b 723
Karak, city (Egypt), VII, b 653, a 654, b 655
Kara-Kalpaks, tribe (Khiva), XIV, a 66; (Kirghiz), a 96; (Turkestan), XXIII, b 677
— Khazars, people, XIV, b 61
— Khitái. See Karachitai
— -Kirghiz, tribe, XIV, *a b* 96-7
— Koiyúm, tribe (Persia), XVIII, b 643
KARAKORUM, city, XIV, b 4; (Mongols), XVI, b 768
— range (Asia), II, a 598; (Kuen-Lun), XIV, b 153, a 154; (Ladac), a b 198; (Tibet), XXIII, b 360, a 361
Kara Koyun-lu, tribe (Turks), XXIII, a 703
Kárákul, lakes (Oxus), XVIII, b 107; (Syr-Daria), XXII, b 858; (Zerafshan), XXIV, a 820
Kara-Kum, desert (Merv), XVI, b 46, a 47; (Syr-Daria), XXII, *a* 859; (Transcaspian), XXIII, *a* 544
— -Kurchin Lake (Gobi), X, *b* 635
Karaman, town. See CARAMAN
—, prince of (Turkey), XXIII, a 681, a b 682, a b 683
Karamania, district. See CARAMANIA
Karambar, river and lake (Gilgit), X, *a* 533
Kara Mustafa, grand vizier (Turkey), XXIII, a 687
KARAMZIN, Nikolai Mikhailovich, historian, XIV, b 4-5; (Russia), XXI, a 111, a 113, a 115
Karasi, princes of (Turkey), XXIII, a 681, a 682
Karasjok, town (Norway), XVII, *a* 593
Karason, Strymi, historian (Iceland), XII, a 661
Karasu bay (Caspian Sea), V, b 154, b 155; river (Persia), XVIII, b 631, a 632
KARASU-BAZAR, town, XIV, b 5-6
Karatasch Burun, promontory (Cilicia), V, *a* 679
Kara-tau mountains (Syr-Daria), XXII, a b 859
Karatchai, tribe (Kuban), XIV, *b* 151; (Tartars), XXIII, b 76
KARATCHEFF, town, XIV, a 6
KARATEGIN, country, XIV, a 6
Karatoyá river (Bográ), III, b 746
KARAULI or Kerowly, state, XIV, b 6; town, b 6
Kara-uzyak, river (Syr-Daria), XXII, a 858
Karawanken, mountains (Alps), I, a 555; (Styria), XXII, b 646
KARCZAG or Kardszag, town, XIV, b 6
Kardjordje, patriot. See CZERNY GEORGE
Karelians, people (Finland), IX, a 191; (Lapland), XIV, *b* 307; (Russia), XXI, a 87, a b 88
Karelinite (Mineralogy), XVI, b 412
Karema, town (Zaire), XXIV, b 801-2
Karens, race (Burmah), IV, a 499; (Dictionaries), VII, a 166; (Funeral Rites), IX, b 724, a 725; (India), XII, a 818
Karéwas, table lands (Kashmir), XIV, *b* 12
Kareveff, historian (Russia), XXI, b 116
Karez, district (Afghânistân), I, a 209; irrigation (Kandahàr), XIII, a 846
Karharbári coal field (India), XII, a b 775
KÁRIKAL, town, XIV, a 7; (France), IX, b 465
Karím Khán, regent (Persia), XVIII, a b 655
Karinjá, town (Berar), III, *b* 503
Karkaphensian manuscripts (Syriac Literature), XXII, b 865, *a* 866
Karkar, town. See CURZOLA
Karkar, battle of (Israel), XIII, b 416, note, a 417
Karl. See Charles or Carl
Karl August, of Saxe-Weimar, duke (Goethe), X, b 647, *a b* 648, *a b* 649, a 650, a *b* 651, b 652, a 653, b 655, a 656
— Friedrich, of Baden, margrave (Political Economy), XIX, a 377
Karli cave (Architecture) (Ill.), II, b 345
Karljohanswærn, town (Horten), XII, b 213
Karlowa, jurist (Roman Law), XX, b 724, note
Karlsborg, fort (Cape Coast Castle), V, b 37
Karlsefnisson, Thorfinn, discoverer (Ireland), XIII, b 263
Karlshaven, town (Carlshaven), V, a 99
Karlsruhe. See CARLSRUHE, V, b 99-100
Karlstatdt. See CARLSTADT
—, town (Croatia), VI, b 523
—, old town (Düsseldorf), VII, a 488
Karluks, tribe (Turks), XXIII, a b 701
"Karma." character (Buddhism), IV, a b 388; (Lámáism), XIV, a b 227
Karmakuly, town (Nova Zembla), XVII, b 620, a 621
Karman, city (Persia), XVIII, b 656
Karmania, province. See KIRMAN
Karmánshahán, town. See Kirmánshahán
Karmathites or Karmatees, sect (Assassins), II, a 632; (Arabia), a 227; (Egypt), VII, a b 651; (Mecca), XV, b 678, b 679; (Mahommedanism), XVI, b 608, a b 609, a 610, a 616
Karn, el, lake (Egypt), VII, a 615, a *b* 671
Karnak temples (Architecture), II, b 341-2, a b 342, a 343; (Chons), V, b 595; (Egypt), VII, b 640, a 641, a 643, b 673, a 674-5; (Hittites), XII, *b* 28; (Palestine), XVIII, b 178
KARNÁL, district, XIV, a 7; (Punjab), XX, b 114; town, XIV, b 7
Karnali river (Tibet), XXIII, a 361
Karnam, village accountants (Madras), XV, b 187
Karnaphulí river (Chittagong), V, b 586; (Chittagong Hills), a 587
Karnattah (Granada, City), XI, a 41
Kärnten, district. See CARINTHIA
KARNUL, district, XIV, b 7; town, a 8
Károli, Caspar, translator (Hungary), XII, a 391
Karolostadt. See CARLSTADT
Karolyi, Von, chemist (Gunpowder), XI, a 288
Karons, tribe (New Guinea), XVII, b 397
Karoo or Karroo, country (Africa), I, a 225, *b* 241; (Cape Colony), V, a b 38, *a* b 39; (Orange River Free State), XVII, a 837
Kaross, garment (Hottentots), XII, b 323-4
Karpinski François, poet (Poland), XIX, a 315
Karree Bergen, mountains (Cape Colony), V, a 38
Karroo, country. See Karoo
Karrukh, town (Ghúr), X, b 509
KARS, town, XIV, a b 8; government (Russia), XXI, b 76, note; (Transcaucasia), XXIII, *b* 545, *b* 546, *a b* 547

Karsch, Anna Louisa, poetess (Germany), X, b 477
KARSHI, town, XIV, b 8; river (Bokhara), IV, a 3
Karst, plateau (Alps), I, a 545, a 547, a 555
Karsten, Karl J. B., chemist (Iron), XIII, a 288; (Lead), XIV, a b 377
Karstenite (Mineralogy), XVI, a 417
Kartalinian tribes (Caucasus), V, a 224
Karthli, country (Georgia), X, *b* 387, *a* 388, a b 389, a 390; language of (Georgia, Kingdom), a 390
Kārttikeya or Skanda, deity (Brahmanism), IV, a 188
Kartum, town. See KHARTUM
Karun, river (Luristan), XV, a 70; (Persia), XVIII, a 631; (Shustar), XXI, *b* 888, a 889
Karunā-bhāvanā, meditation (Buddhism), IV, b 390
KÁRWÁR or Carwar, town, XIV, b 8–9; (Káuara), XIII, *a* 844
Karwars, idols (New Guinea), XVII, a 398
Karyokinesis, process (Protozoa) (Ill.), XIX, b 854, *a* 855
Kas, Great, river (Yeniseisk), XXIV, b 779, note
Kasái, river (Máubhúm), XV, b 465
Kasan, khanate. See KAZAN
KASANLIK or Kezanlyk, town, XIV, a 9
Kasbin, city. See CASBIN
KASCHAU or Kassa, town, XIV, a 9
Kaseem valley (Arabia), II, b 208, b 212, a 222, b 228, *a* 229
Kashan, city. See CASHAN
Kashba Baniachang, village (Sylhet), XXII, b 848
KASHGAR, city, XIV, b 9–10; (Turkestan), XXIII, b 679, a b 680, a 681. See Kashkar
——- Daria, river (Turkestan), XXIII, b 678
KASHI, decoration, XIV, b 10
KASHIN, town, XIV, a 11
Kashipur, town (Cawnpur), V, b 241
Kashira, town (Tula), XXIII, b 642
Kashkais, tribe (Turks), XXIII, b 703
Kashkar, Kashgar or Kizil Su, river (Afghânistân), I, a 205; (Gobi), X, b 635; (Hindu Kush), XI, b 747, b 748
KASHKAR, state, XIV, a b 11
KASHMIR or Cashmere, valley, XIV, b 11–5
    buildings, a b 13
    chorography, b 11–2
    climate and natural products, b 12–3
    history, b 14–5
    literature concerning, b 15
    political and industrial features, b 13–4
—— (Birds), III, a 660; (Cucumber), VI, b 608; (Himalaya), XI, b 736, a 737, a 735, b 737, *b* 743, b 745; (Hwen-T'sang), XII, b 434; (Papier Maché), XVIII, a 232; (Shawls), XXI, b 817–8
Kashmiris, people (Dictionary), VII, a 166; (Lhasa), XIV, *a* 498
Kashna or Kassina, town. See KATSENA
Kashoubes, race (Slavs), XXII, b 153, a b 157, b 163
Kasida, poem (Turkey), XXIII, b 697
Kásiká Vritti, commentaries (Sanskrit), XXI, a 307
Kasim, Tartar prince (Kasimoff), XIV, a 16
Kásim, Mo'tamin billáh, prince (Mohammedanism), XVI, b 604, a 607
KÁSIMBÁZÁR, decayed town, XIV, b 15; (Hastings), XI, a 458; (India), XII, b 838, a 840
Kásimíye, river (Palestine), XVIII, a b 175; (Syria), XXII, b 860
KASIMOFF, town, XIV, a 16; (Ryazañ), XXI, a b 124
Kasimukhians, tribe (Lesghians), XIV, a 475
Kásipur, town (Tarai), XXIII, b 65
Käsmark, town. See KESMARK
Kasos, island (Greece), XI, b 111
Kasplya river (Smolensk), XXII, *a* 193
Kasr Fará'ún (Morocco), XVI, b 860
Kassabi, river (Africa), I, b 227, b 228
Kassai, river (Zaire), XXIV, a 803
——, Dejach, prince (Abyssinia), I, a b 66
Kasseky or Hasseky, title (Harem), XI, b 427, a 428
Kassel, town. See CASSEL
Kassina, town. See KATSENA
Kassowitz, M., physiologist (Pathology), XVIII, b 380, a b 381, b 382, note
KASTAMUNI or Costambone, town, XIV, a 16
Kastenbein, Charles, inventor (Typography), XXIII, b 746, b 747
Kästner, Abraham Gotthele, savant (Germany), X, a 477
KASTORIA, town, XIV, a 16
Kastro, village (Antiparos), II, a 118
——, town (Imbros), XII, b 753
——, town (Lemnos), XIV, *a* b 437
——, town (Siphanto), XXII, b 102
Kasvin or Kasbin, town (Casbin), V, b 152. See CASBIN
Kāsyapa, mendicant sage (Buddhism), IV, b 384, a 385, a b 387; (Kashmír), XIV, b 14–5
Kaszubes, people (Poland), XIX, a 321
Kât or gât, drug (Harar), XI, a 406
——, Egyptian unit (Weights and Measures), XXIV, b 508, a 509, a 510, *b* 513, a b 515
—— River valley (Hottentots), XII, a b 327
Katabolism, process (Sex), XXI, *a* b 760; of plants (Physiology), XIX, a 57–62. See Metabolism
Katáë, el, town (Egypt), VII, a b 650, a 652, b 667
Katahdin, mount (Maine), XV, a 300; (New Hampshire), XVII, a 400; (United States), XXIII, b 842
Katakana writing (Japan), XIII, a b 595
Katakekaumene, district (Asia Minor), II, b 618, a b 621
Kátál, jungle (Maldah), XV, a 330
Katalin-Legenda (Hungary), XII, a 391
Katana, city (Sicily), XXII, a b 21, a *b* 23
Kátantra or Kalapa (Sanskrit), XXI, a b 307
Kataphrygians, sect (Montanism), XVI, a 801–2
Kataplous of Lucian. See *Voyage Home*
Katar, district (Arabia), II, b 213, b 217, a 218, a 222, *a* 227
Katastates (Physiology), XIX, b 22, *a b* 23, a b 24
Katavothras, chasms (Greece), XI, a 74
Katchkanar, peak (Ural Mountains), XXIV, a 8
Katchkar, village (Gold), X, b 661
Katchug, town (Yakutsk), XXIV, a 762, a 763
Kateef, district (Arabia), II, a 213, a 222
KATER, Henry, physicist, XIV, a b 16; (Hygrometry), XII, a 604
Katha, scholar (Sanskrit), XXI, *b* 291, b 292
Katharoi, sect. See Cathari
Kathásaritságara (Sanskrit), XXI, a 301, b 306
Kathenotheism (Zoroaster), XXIV, b 860
KÁTHIÁWÁR or Kattywar, peninsula, XIV, b 16–7; (Bombay), IV, *a* 20; (Guzerat), XI, a 308
Kāthmāndū, town. See KHATMANDU
Kath Tora, rebel (Kashgar), XIV, b 10
Katia, lake (Gondar), X, b 685
Kátib Chelebi, author. See HÁJI KHALIFA
KATIF or El Katif, town, XIV, a b 17
Katla or Kötlugja, mountain (Iceland), XII, b 652
Katona, Joseph, dramatist (Hungary), XII, a 393; (Kecskemét), XIV, b 28
Katonga, god (Uganda), XXIII, b 765
Katôr, tribe (Kâfiristân), XIII, b 830, *b* 831
Katrine, loch (Lake), XIV, a 218, a 219; (Glasgow), X, b 572; (Geology), a 242 note; (Perth), XVIII, *b* 678; (Water), XXIV, b 420. See Glasgow Aqueduct
KATSENA or Kashna, town, XIV, b 17; (Soudan), XXII, b 292
—— dialect (Houssa), XII, a 332
Katte, lieutenant (Frederick II.), IX, a 647
Katthá or Cottah in Weights and Measures, XXIV, a 518
KATTOWITZ, town, XIV, b 17
Katty-Kurgan, town (Zerafshan), XXIV, a b 820
Kattywar, district. See KATHIAWAR
Katuñ mountain (Tomsk), XXIII, a 466; river (Siberia), XXII, b 9
Katunga, city (Yoruba), XXIV, a 792
KATWA or Cutwa, town, XIV, b 17
Katwijk, village (Holland), XII, b 62, b 63, b 70
Kâtyáyana, scholar (Sanskrit), XXI, b 290, b 291, note, a 293, note, b 306
Katzbach, battle of, 1813 (Austria), III, b 117; (Napoleon), XVII, a 227
Katzenkopf, mountain (Würtemberg), XXIV, a 735
Kauai Island (Hawaiian Islands), XI, b 474, b 475–6
KAUFBEUREN, town, XIV, b 17
KAUFFMAN, Angelica, painter, XIV, b 17–8; (Dance, N.), VI, a 706
—— Peak (Turkestan), XXIII, b 673
Kaufungen, Kunz von, knight (Saxony), XXI, a 369
KAULBACH, Wilhelm von, painter, XIV, b 18–9; (Glass), X, b 600, a 601
Kau-lung, town (Hong-Kong), XII, a b 145
Kaumene islands (Thera), XXIII, a b 300
Kaune, town. See KOVNO
KAUNITZ, Wenzel Anton, statesman, XIV, b 19–20; (France), IX, *b* 517, a 518; (Thugut), XXIII, b 348
Kaup, Johann Jakob, naturalist (Ornithology), XVIII, a 18, b 19
Kauravas, family (Sanskrit), XXI, b 294, a b 295, a 296
Kauri, tree (Auckland), III, b 59; (Forests), IX, b 358; (New Zealand), XVII, a b 482; gum (Dammar), VI, b 700; (New Zealand), XVII, b 482
Kaus, king, Persia (Cambyses), IV, a 648, a 649
Kausambi or Koshan-pyi, empire (Shans), XXI, b 809
Kaushitaki-brahmana (Sanskrit), XXI, b 289, a 290
Kautz, Julius (Political Economy), XIX, a 415
KAVA, drink, XIV, a b 20; (Tahiti), XXIII, a 29
Kavadh I. (Persia), XVIII, a b 622, note
—— II., Shéróe, king (Persia), XVIII, b 625–6
KAVALA or Cavallo, walled town, XIV, b 20
KAVANAGH, Julia, novelist, XIV, b 20–1
Kavassy, Edward, novelist (Hungary), XII, b 394
Kavele, town. See UJIJI
Kavelin, Constantin, jurist (Russia), XXI, b 116
KAVERI or Cauvery, river, XIV, a 21; (Coimbatore), VI, b 106; (India), XII, a 772; (Madras), XV, a b 185, b 186; (Mysore), XVII, b 130; (Salem), XXI, b 220

Kavi or Kábi, blacksmith (Ispahán), XIII, a 405
Kavipriya (Hindustani Literature), XI, a 755
Kavirâja, poet (Sanskrit), XXI, b 297
Kavírs, salt swamps (Persia), XVIII, a 632
Kárya (Sanskrit), XXI, b 297
Káryádarsa (Sanskrit), XXI, b 308
Kawaguchi, settlement (Ozaka), XVIII, a 115
Kawar, town. See BILMA
Kawara, Kworra or Quorra, river (Africa), I, b 220, a b 227; (Niger), XVII, a 510
Kawardá, town. See BILÁSPUR
Káw-el-Kebeereh, village (Egypt), VII, b 672
Kawi, language (Humboldt, W.), XII, a 360; (Java), XIII, b 618, note, a b 619
Kawrati island (Laccadives), XIV, *b* 183
Kaws, tribes (Indians), XII, b 872
Káwurd, sultan of Kerman (Seljuks), XXI, b 666-7
KAY, John, caricaturist, XIV, a b 21
——, John, watchmaker (Arkwright), II, a *b* 475; (Ribbons), XX, b 546; (Weaving), XXIV, b 489, a 492
Káyalpatnam, town (Tinnevelli), XXIII, b 431
Kaye or Kaye, John, founder. See CAIUS
KAYE, Sir John William, historian, XIV, b 21; (Cawnpur), V, a b 242
Kayeli, kingdom (Celebes), V, a 252; river, regency and town (Buru), IV, *b* 510, a 511
Kayser, C. F., philologist (Philostratus), XVIII, b 810, a b 811
Kazaks, tribe (Kirghiz), XIV, *a* 96, a 97-8 (Mongols), XVI, b 775
KAZALA or Kazalinsk, fort and town, XIV, b 21; (Syr-Daria), XXII, *b* 859, *a* 860
KAZAN, government. XIV, b 21-2; (Ivan IV.), XIII, a 529; (Observatory), XVII, a 735; (Mongols), XVI, a 773, a 775; (Russia), XXI, a 76, 83, a 84, *a* 87, *a* 88, *a* 94, a b 100; (Sunnites), XXII, a 696 note; (University), XXIII, a 908; Tartars of, XXIII, a b 76; town, XIV, a 22; (Volga), XXIV, b 298, b 299, *b* 300, *b* 301
Kazanka, river (Kazan), XIV, *a* 22
Kazbek, mount (Caucasus), V, *a* 220, b 222, b 223
Kazbin, town. See CASBIN
Kaz-dagh, mountain (Asia Minor), II, b 617
Kazimierz, kings. See Casimir
KAZINCZY, Ferencz or Francis, author, XIV, b 22-3; (Hungary), XII, *b* 392
Kazwíní or Kazwyny, Zachariah ben Mohammed al, geographer (Alchemy), I, b 410; (Geography), X, a 159
Kazyk-urt mountains (Syr-Daria), XXII, *a* 859
Ké, island (New Guinea), XVII, a 398, a 399
Kea, bird (Nestor), XVII, b 363-4
Kea Keang, river (China), V, *b* 552
Kea-King, Ta-tsing, emperor (China), V, *a* b 565, a 567
Kea-ling Keang, river (China), V, b 554
KEAN, Charles John, tragedian, XIV, a b 23
KEAN, Edmund, actor, XIV, b 23-4; (Bute), IV, b 516; (Drama), VII, b 379; (Kemble), XIV, a 33; (Puma), XX, b 110
——, Moses, actor, XIV, b 23
Keane, Sir John, general (Ghazni), X, a 502
Keang-nan, province (China), V, b 561, *b* 562
Keang-se, province (China), V, a 548, b 552, b 564
Keang-soo, province (China) V, b 547, a 552
Keate's fire-test of Paraffine, XVIII, b 243
Keating, Geoffrey, historian (Celtic Literature), V, b 267
Kea-ting Foo, district (China), V, *a* b 555
KEATS, John, poet, XIV, a 24-6; (Hunt), XII, b 398, a 399; (Poetry), XIX, a 269, b 270, b 273; (Rossetti), XX, *a* 883; (Sonnet), XXII, a 276
Kea-tsing, emperor (China), V, a 563
Kea-yu, gate (China), V, a 554
Kebars, tribe (New Guinea), XVII, b 397
Kebin, river (Syr-Daria), XXII, a 858
Kebír, river (Syria), XXII, b 860; (Lebanon), XIV, b 393
Keble, John, senior, clergyman, XIV, a 26
KEBLE, John, poet, XIV, a 26-8; (Coleridge, Sir J. T.), VI, b 122; (Hooker), XII, a b 154, a 156; (Hymns), a 630; (Oxford), XVIII, b 100, a 101; (Shairp), XXI, *b* 772
—— College (Oxford), XVIII, b 100
Kebrabassa rapids (Zambesi), XXIV, *a* 804
Ke-cho. See Ha-noi
Ke-choo, city (China), V, b 558
KECSKEMÉT, town, XIV, b 28
Kedabek, town (Transcaucasia), XXIII, b 546
Kedah, district (Malay Peninsula), XV, b 323, a b 324, *a* b 325, note
Kedar, patriarch (Ishmael), XIII, b 396
Kedarnáth, mount (Garhwal), X, b 72, a 73; (Himalaya), XI, a 737; temple of (Himalaya), *b* 745
Kedge Anchors, II, 5, 6, a 7
Kedging (Seamanship), XXI, b 629
Kedleston, country-seat (Derby), VII, b 92, a 94
Keduss Hills (Senaar), XXI, b 689
Këĕ, emperor (China), V, b 558
Keel (Shipbuilding), XXI, a 857
KEELING ISLANDS, XIV, b 28-9
Keelson (Shipbuilding), XXI, a 857
Keen-chang, district (China), V, a 555
Keene, town (New Hampshire), XVII, b 401
——, J. B., inventor (Hydrometer), XII, b 573
Keene's marble Cement, V, a 285; (Gypsum), XI, b 313-4
Keen-ke river (China), V, a 553
Keen Keang, river (China), V, b 549
Keen-lung, T'sing emperor (China), V, *a* 565, a 567, b 569; (Miautze), XVI, a 232; (Mongols), b 772
Keen-wăn, emperor (China), V, a 563
Keep or donjon (Architecture), II, a 410; (Castle) (Ill.), V, a b 172, a 173
Keepers, list of Lord- (England), VIII, a b 329-30
Keeps, gratings (Coal), VI, b 71
Keesheneff, district and town (Bessarabia), III, b 531, a 532
Keeve, ore-separator (Mining), XVI, a 487
Keewatin, district (N. W. Territory), XVII, *b* 587
KEFF, Kef, El Kaf, town, XIV, a 29; (Tunis), XXIII, b 660
Keffi Abd es-Senga, city (Soudan), XXII, b 292
Keffieh, scarf (Costume), VI, a b 407
Kefnekaise, mountain (Sweden), XXII, a 774
Kefr Kenna, village (Cana), IV, b 673; (Galilee), X, b 26
Kegudo, town (Tibet), XXIII, *b* 363
Kehl, town (Strasburg), XXII, b 618; bridge (Bridges) (Ill.), IV, a b 294, a 295
KEI ISLANDS, XIV, a b 29
KEIGHLEY, town, XIV, a 29
Keil, Karl August Gottlieb, theologian (Bretschneider), IV, *b* 233; (Chronicles), V, b 613, b 614 note, *a* b 615, *a* 616
Keilce, town (Poland), XIX, a 324
Keilhau, Balthazar Mathias, geologist (Spitzbergen), XXII, b 425
Keilhauite (Mineralogy), XVI, a 444
Keill, James, physician (Vascular System), XXIV, a 105
——, John, mathematician (Infinitesimal Calculus), XIII, a 11
KEIM, Theodor, theologian, XIV, b 29; (Gospels), X, a 748, a 749; (Jesus Christ), XIII, b 682, b 683; (Polycarp), XIX, *a* 429
Keiser, Reinhard, composer (Bach), III, b 168; (Handel), XI, a 388; (Music), XVII, b 99
Keistut, chief (Lithuanians), XIV, b 708
KEITH, Scotch family, XIV, b 29-30
KEITH, Francis Edward James, marshal, XIV, a b 30
——, George, 5th earl, XIV, a 30
——, George, 10th earl, XIV, a 30
——, George, preacher (Philadelphia), XVIII, b 753; (Penn), a 507; (Slavery), XXII, b 908
——, James, field-marshal (Peterhead), XVIII, a 715
——, Sir John, Earl Kintore, XIV, a 30
——, William, earl marischal, XIV, *a* 30
——, Sir William, governor (Franklin, B.), IX, b 626
——. William, translator (Hymns), XII, a 624
——, ovariotomist (Surgery), XXII, a *b* 726, note, a 727
Keitloa (Rhinoceros), XX, b 537
Keitum, village (Sylt), XXII, a 849
KEJ, town, XIV, b 30
Kekulé, Reinhard, archæologist (Terra-Cotta), XXIII, b 212
Kelaart, E. F., botanist (Gibraltar), X, b 521
Kelani-ganga, river (Ceylon), V, b 312
Kelantan, district (Malay Peninsula), XV, *a* 324, a b 325; river (Malay Peninsula), a 324
Kelat, district (Persia), XVIII, b 629-30
Kelch und Schwert (Hartmann), XI, a 446
Kelenderi, village (Cilicia), V, b 678
Keles river (Syr-Daria), XXII, b 857, a 858
Kelif-Uzboi, region (Transcaspian), XXIII, b 544-5, note
Kelisman, town (Clazomenæ), V, a 715
Kelko Cave, V, a b 235
Keller, Ferdinand, archæologist (Lake Dwellings), XIV, a b 225
——, Gottfried, poet (Switzerland), XXII, b 838
KELLERMANN, François Christophe, duke of Valmy, general, XIV, b 30-1; (France), IX, a 532
Keller-process, Gerber (Coal Tar Colors), XVIII, a 902
Kellett, Sir Henry, explorer (Polar Regions), XIX, a 334
Kellett's or Wrangel's Land (Siberia), XXII, b 10
Kelley, Abby, reformer (Women), XXIV, b 911, a 913
KELLGREN, Johan Henrik, poet XIV, a 31
——, philologist (Ural Altaic), XXIV, a 7
Kellie, earl of (Mar), XV, b 532
Kellner's eye-piece (Microscope), XVI, a 278
Kellogg, Charles Day, philanthropist (Workingmen), XXIV, a 918. See List of Contributors.
KELLS, town, XIV, a b 31; synod of (Ireland), XIII, a 261

Kells, Book of (Illumination), XII, a 746; (Palæography), XVIII, a b 162
Kelly, Edward, apothecary (Dee), VII, b 21
——, Hugh, dramatist (Drama), VII, b 378, note
——, John, politician (Tammany Society), XXIII, b 920 note
——, Thomas, poet (Hymns), XII, *b* 629-30
——, William, inventor (Cotton), VI, b 441–2; (Patents), XVIII, b 879
KELP, sea-weed ash, XIV, b 31; (Algæ), I, a 449; (Orkney), XVII, a 872
KELSO, town, XIV, a 32
Kelt, growth stage (Salmonidæ), XXI, b 235
Keltai. See Celts
Kelty coal-field (Coal), VI, *b* 51
Kelung, town (Formosa), IX, a 367
Kelvin river (Stirling), XXII, a 581
Kem, name (Egypt), VII, a 607, note
Kemál Bey, author (Turkey), XXIII, *b* 699
—— Pasha-Záda, legist-poet (Turkey), XXIII, a b 698
Kemáman, district (Malay Peninsula), XV, a 324, *a* 325
KEMBLE, Charles, actor, XIV, a 32
KEMBLE, John Mitchell, historian, XIV, a b 32
KEMBLE, John Philip, tragedian, XIV, b 32-3; (Drama), VII, b 379
——, Sarah. See Siddons
Keményi, Sigismond, Baron, novelist (Hungary), XII, b 394
Kemi, river (Finland), IX, b 188; (Lapland), XIV, a 305
Kemmendine, village (Burmah), IV, b 497, a 498
Kempe-Goud, soldier (Bangalore), III, b 270
Kempenfelt, Richard, admiral (Influenza), XIII, a 80
KEMPIS, Thomas A, theologian, XIV, a 33–5; (Groot), XI, a b 185; (Monachism), XVI, b 737; (Zwolle), XXIV, b 873
KEMPTEN, town, XIV, a 35
Kemp-Town (Brighton), IV, b 310, b 311
Ken, river (Bundelkhand), IV, a 466; (Kirkcudbright), XIV, b 99
——, seneschal of Arthur, II, a 571
KEN, Thomas, bishop, XIV, a 35–6; (Cricket), VI, b 514; (Hymns), XII, *b* 627
Kenai Indians, XII, a 867
Kena-upanishad (Sanskrit), XXI, a 291
KENDAL or Kirkby-Kendal, town, XIV, a b 36; (Westmorland), XXIV, b 543, a b 544
Kendari bay (Celebes), V, a 251
Kendē or Candius, apologist (Syriac Literature), XXII, a 892
Kendrápárá, town (Cattack), V, b 212
Kendrew, John, inventor (Linen Manufacture), XIV, b 670
Kendrick, explorer (Washington), XXIV, a 408
Kineh, town. See Kine
Kenelm Chillingly (Lytton), XV, b 124
Kenesaw mountain (Georgia), X, b 393
Kenia, mountain (Africa), I, a 221, b 224, b 228, *a* b 229
KENILWORTH, town, XIV, b 36; (Warwick), XXIV, a *b* 400; castle (Shakespeare), XXI, *b* 776; ordinance of (England), VIII, a 284
Kenilworth, XIV, *b* 36
Kenites, tribe (Canaan), IV, a 674; (Israel), XIII, b 410, a 411; (Midian), XVI, b 296
Kenizzites, tribe (Canaanites), IV, a 674
Kenjanfu, city (Se-gan Foo), XXI, a 653
Kenmare, river (Kerry), XIV, *a* 53
Kenmore, town (Lake), XIV, a 222
Kenn, island (Kish), XIV, b 103
Kennebec river (Maine), XV, a *b* 300
Kennedie, Walter, poet (Scotland), XXI, b 566, note
Kennedy or Cenneidig, king (Ireland), XIII, b 258
——, Lord, conspirator (Scotland), XXI, a 517
——, E. B., explorer (Australia), III, a 92; (Queensland), XX, b 181
——, James, bishop (St. Andrews), XXI, *b* 166; (Scotland), a *b* 516–7
——, Jane, king's mistress (Scotland), XXI, b 518
—— John Pendleton, *b.* 1795, *d.* 1870 (American Literature), I, b 634
——, J. P., author (Ireland), XIII, b 226, b 248
——, Quintine, abbot (Knox), XIV, b 133
KENNEDY, Thomas Francis, political economist, XIV, a 37
——, William, explorer (Polar Regions), XIX, b 333
Kennel management (Hound), XII, b 329
Ken-neshrē, convent (Syriac Literature), XXII, a 874, b 880 note, a b 881, b 888, a 889
Kennet river (Berkshire), III, a *b* 511; (Wilts), XXIV, b 625
KENNET, White, bishop, XIV, a b 37
Kenneth I., Macalpine, king (Scotland), XXI, *a b* 499, *a* b 500
—— II., Macalpine, king (Lothian), XV, a 12; (Scotland), XXI, b 501
—— III., king (Lothian), XV, a 12; (Scotland), XXI, b 501
Kennett's process (Photography), XVIII, b 841, a 842
KENNICOTT, Benjamin, Hebraist, XIV, b 37–8; his *Hebrew Bible*, III, a b 560
KENOSHA, Wisconsin, city, XIV, a 38
Kenous (Africa), I, b 233
Ken-pu river (Tibet), XXIII, a 362
Kensal Green Cemetery, V, a 286, a *b* 287; (London), XIV, a 836
KENSINGTON, London suburb, XIV, a b 38; (London), a *b* 827, a 830, *a* b 831, a 832, a 833, a b 842, a 843; gardens (London), XIV, a 827, *a* 833, a 850. See South Kensington Museum
Kensworth hill (Hertford), XI, b 688
KENT, county (Plate I), XIV, b 38-42
  agricultural features, b 39-40
  antiquities and history, a b 41
  coast, b 38
  industrial features, a b 40
  literature concerning, b 41–2
  political features, b 40–1
  rivers, a b 39
  surface and geology, b 38–9

—— (Agriculture), I, b 338, a 341; (England), VIII, *b* 195, b 241–2, b 243, *a* 244; (Gavelkind), X, a b 107; sheep (Agriculture) (Ill.), I, a 348; wool (Agriculture), a 354
——, island (Maryland), XV, a 611
——, Edward, duke of (Owen), XVIII, a 91
KENT, James, jurist, XIV, a 42; (Appeal), II, b 183; (Partnership), XVIII, b 337
——, W. Saville, naturalist (Protozoa), XIX, b 860, a 883, a 888, *b* 890, *b* 891; (Sponges), XXII, a 437, *b* 443, b 444
KENT, William, artist, XIV, a b 42; (Hogarth), XII, *a* 50
Kentei, mountains (Siberia), XXII, a 7
KENTIGERN, St., or St. Mungo, XIV, b 42–3; (Episcopacy), VIII, a 434; (Glasgow), X, b 569; (St. Asaph), XXI, a 167; (Scotland), b 496
Kentish Petition (Canterbury), V, b 27; revolt (England), VIII, a 263
Kentish-Town, village (London), XIV, a 832
Kent's *Commentaries*, XIV, a 42; (Inheritance), XIII, a 85
Kent's Hole, cave (Anthropology), II, a 102; (Archæology), a 295; (Cave), V, b 232; (Devonshire), VII, a 121
KENTUCKY, state (Plate II), XIV, a 43–7
  agriculture, b 45–6
  area, topographical view of, a b 43
  climate, b 43
  commercial features, a 46
  forests, a b 45
  geology, map, a b 43–4
  government, a 46
  history, a 46–7
  minerals, b 44–5
  rivers, b 43
—— (Ass), II, b 626; (Universities), XXIII, a 913, a b 954; history of (United States), b 795, *b* 801, b 803, b 805, a 808, b 821, a 823, a 825, b 826; statistics (United States), b 853, b 859, *a* 860, b 864, a 866, a 872, a *b* 878
—— resolutions of 1790 (Taylor, J.), XXIII, a b 927; (United States), b 804–5, b 808
—— territory (United States), XXIII, a 787
Kenyérmezö, battle, 1479 (Hungary), XII, b 383
KENYON, Lloyd Kenyon, lord, jurist, XIV, a 47
Kenz, Banu, dialect (Nubia), XVII, b 627
Keogh, Cornelius, mathematician (Trigonometry), XXIII, b 603
KEOKUK, Iowa, city, XIV, a 47
Kephalos, headland (Paros), XVIII, a 325
Kepler, Catharine, shrew, XIV, b 47, a 49
KEPLER, John, astronomer, XIV, b 47–50
  genius of, b 49–50
  Linz period, b 48–9
  literature concerning, a 50
  Prague period, a b 48
  youth and first marriage, b 47–8
  Wallenstein period, b 49

—— (Alchemy), I, b 406; (Astronomy), II, b 657, b 681, a 691; (Astrology), b 647, a 648, b 649; (Horrocks), XII, *b* 175; (Infinitesimal Calculus), XIII, a b 7; (Jesus Christ), b 670, b 671, note; (Metaphysic), XVI, a 99; (Moon), b 826; (Napier), XVII, b 188–9; (Newton), a b 453, b 455; (Telescope), XXIII, b 146, *a* 148, a 151; (Tides), a b 377; (Zodiacal Light), XXIV, a b 835
Kepler's kinematic laws (Mechanics), XV, a 716
—— laws (Astronomy), II, b 681–3; (Galileo), X, a 32; (Gravitation), XI, b 63, *b* 64
—— problem (Mechanics), XV, b 716, a 717
Keppel, Augustus, viscount, admiral (Reynolds), XX, b 516
Keraeng Lové, god (Celebes), V, b 250
Keraits, tribe (Mongols), XVI, a 770, a 771
KERAK, town, XIV, a 50; (Galilee, Sea of), X, a 28; river (Dead Sea), VII, *b* 3
Kerakeri, mountains (Darfur), VI, b 724
Keramosphærina (Protozoa), XIX, b 869
Keras, Greek Trumpet, XXIII, a 630
Kerata, mountain (Attica), III, *b* 52
Keratin (Chemistry), V, b 503; (Horn), XII, a 171
Keratitis, disease (Ophthalmology), XVII, b 802, b 803, a 804, a 807; (Pathology), XVIII, a 410

Keraulophon (Organ), XVII, a 855, b 856
Kerâzeh, ruins (Galilee), X, b 27
KERBELA, town, XIV, a b 50; (Mesopotamia), XVI, b 56, a 57; (Mohammedanism), a 591; (Pilgrimage), XIX, a 102; (Shi'ites), XXII, a 699; storming of, 1801 (Arabia), II, a 228
Kerboga, prince of Mosul (Crusades), VI, b 552, a 553
Kereli Göl, lake (Asia Minor), II, b 619; (Isauria), XIII, a 395
Keresztes, battle of, 1596 (Turkey), XXIII, b 685
KERGUELEN'S LAND or Desolation Island, XIV, b 50–1; (Polar Regions), XIX, *b* 341
Kerivoula, genus (Mammalia) (Ill.), XV, b 415
Kerka, river (Dalmatia), VI, a 690
Kerkhah, river (Luristan), XV, a 70
Kerkis, mount (Samos), XXI, b 261
KERKUK or Kerkook, town, XIV, a b 51
Kerkyra or Corcyra, *q.v.*, city (Corfu), VI, b 351
Kerlescant stone monuments (Carnac), V, b 104
Kermán, province. See KIRMAN
Kermánji, language (Kúrdistán), XIV, b 158
Kermanshah, town. See KIRMANSHAHAN
Kermario stone monuments (Carnac), V, *b* 104
KERMES, insect and dye, XIV, b 51–2; (Cochineal), VI, b 89; (Greece), XI, b 79
Kermesite (Mineralogy), XVI, b 412
Kermiyan, princes of (Turkey), XXIII, a 681, b 682
Kern lake (California), IV, b 617, b 618; river (California), b 618, a 622; (United States), XXIII, b 850
KERNER, Justinus Andreas, poet, XIV, a b 52
Kerns, town (Unterwalden), XXIII, a 915
Kerntonne (Histology), XII, b 15
Kero, monk (Catechism), V, b 191
Kerosene. See PETROLEUM
Kerouan, town. See Kairwan
Kerowly, state. See Karauli
KERRY, county, XIV, b 52–4
    agriculture, a b 53
    coast, a 53
    geology, b 52
    history and antiquities, a b 54
    political features, a 54
    products of, b 53-4
    water system, a 53
—— cattle (Ireland), XIII, a b 231
——, knight of (Ireland), XIII, a 267
—— massacres (Ireland), XIII, b 270–1
Kersal moor (Manchester), XV, b 467
KERTCH, town, XIV, b 54–5; peninsula and town (Black Sea), III, b 691; (Crimea), VI, a 518, a *b* 519
Kerulen river (Amoor), I, b 654; (Transbaikalia), XXIII, b 541, a 542
Kerwan, brook (Gerasa), X, a 397
Kesav-Dás, poet (Hindustani Literature), XI, *a* 755
Kesem, city (Goshen), X, a 701
Keshefrud, river (Transcaspian), XXIII, b 543
Ke-shen, Chinese statesman (Lhasa), XIV, a 503
Keshin, sultan of (Socotra), XXII, b 243
KÉSMÁRK, town, XIV, a 55
Kesselberg, mountain (Saxe-Weimar), XXI, a 365
Kesselfall (Gastein), X, a 97
Kesselkoppe mountain (Riesengebirge), XX, b 566
Kesselring, Kilian, soldier (Thurgau), XXIII, a 352
Kessler, Carl, of St. Petersburg, naturalist (Ornithology), XVIII, a 31; (Woodpecker), XXIV, a 687
Kessler's method of analysis (Iron), XIII, a 295
Kesteven, division (Lincoln), XIV, *a* 662, a 663
Kestner, diplomatist (Goethe), X, *a* b 646, a 656
KESTREL, falcon, XIV, a 55–6; (Birds), III, b 650
KESWICK, town, XIV, a 56
KESZTHELY, town, XIV, a b 56
Ket, river (Tomsk), XXIII, a 467; (Yeniseisk), XXIV, b 779, note
Ketbooghà, regent (Egypt), VII, a 656
KETCHUP, sauce, XIV, b 56
Ketesh, city (Egypt), VII, b 674
Kĕthābhā dh' Ithikōn (Syriac Literature), XXII, b 899
Kethe or Keith, William, translator (Hymns), XII, a 624
KETI, town, XIV, b 56
Ketilmundson, Mats, regent (Sweden), XXII, b 784
Ketkhodas, patriarch (Merv), XVI, a 48
Ketmia, plant. See GUMBO
Ketones (Chemistry), V, b 479, b 492-3, a b 497
Ketrzynski, Adalbert, historian (Poland), XIX, a 317
Kett, Robert, rebel (Parker), XVIII, a 305
Ketteler, Wilhelm Emmanuel von, bishop, *b.* 1811, *d.* 1877 (Socialism), XXII, a 227
KETTERING, town, XIV, b 56
Kettledrum (Drum), VII, a 414
Kettle Falls (Washington), XXIV, a b 407
Ketubim, canon (Bible), III, b 549
Keturah, wife of Abraham, I, b 55; (Midian), XVI, a 296
Keulemans, engraver (Ornithology), XVIII, a 17, a 20, b 21
Keung-chow Foo, department (China), V, a 556
KEUNJHAR, state, XIV, b 56
KEUNTHÁL, state, XIV, b 56–7
Keuper sandstone (Geology), X, *b* 312, b 313
Keuschler, musician (Weber), XXIV, b 494, note
Kevin, St., hermit (Wicklow), XXIV, *a* 589
KEW, village, XIV, a 57
—— observatory, XVII, b 730; (Meteorology) (Ill.), XVI, b 166, b 173, a b 177, *a* b 179, b 180, a 181, b 182, a 184, a 186, b 191; (Watch), XXIV, a 420
—— Royal Botanical Gardens (Aiton), I, b 382; (Hooker), XII, b 156; (London), XIV, b 833
——, Royal Herbarium, XI, b 639, a 640
Keweenaw Point (Michigan), XVI, b 247–8; (United States), XXIII, a 853, *a* 869
Kew-keang, lake (China), V, b 549
KEW-KEANG FOO, city, XIV, a b 57; (China), V, b 552
Kew-lung, Mountains (China), V, a 548, a 549
Key, Francis S., poet, *b.* 1779, *d.* 1843 (Taney), XXIII, a 921
——, Thomas Hewitt, philologist, *b.* 1799, *d.* 1875 (Donaldson), VII, a 310
Keya-Paha, river (Nebraska), XVII, a 317
Keyboard (Organ), XVII, a b 860; (Pianoforte) (Ill.), XIX, b 72, *a* b 73, a 74, a 75, b 77, a 78; compass of (Pianoforte), a 77; diatonic clavichord (Pianoforte) (Ill.), a 74; recessing of (Pianoforte), a 76; chromatic (Pianoforte), b 73
Keye, John. See CAIUS
Keyes, Erasmus D., general (Scott), XXI, a 577 note
Keyham steam factory (Dockyards) VII, a 274, 275
Keyless Watches (Ill.), XXIV, a b 419
Key-note, testing the (Bell), III, b 463
Keys. See LOCK
——, chair (Railway), XX, a 251
——, distribution of (Music), XVII, a 103
——, House of (Man, Isle of), XV, b 459
—— of wind instrument, invention of (Ophicleide), XVII, b 800
Keyser, Jakob Rudolf, historian (Norway), XVII, b 606
Keyserling, Alexander, naturalist (Ornithology), XVIII, b 29-30
Keystone in Architecture, II, a 410
—— in Lithography, XIV, b 706
KEY WEST, island, XIV, b 57; (Florida), IX, *b* 296, *a* b 297; (Texas), XXIII, a 222; town, XIV, b 57–8
Kezanlyk, town. See KASANLIK
KHABAROVKA, town, XIV, a 58
Khabour, Khábúr or Chaboras river (Baghdad), III, b 199; (Kúrdistán), XIV, a 157; (Mesopotamia), XVI, *a* b 52, b 54
Khach'hé or Kashmiris, people (Lhasa), XIV, a 498
Khadíja, wife of the prophet (Mohammedanism), XVI, b 569, b 571, a b 574
Khafra, king. See CHEPHREN
Khágán valley (Hazára), XI, a 488
Khagasses, people (Siberia), XXII, b 16–7
Khagrai, bell-metal (India), XII, b 801
Khaibar war, 628 A.D. (Mohammedanism), XVI, a 581
KHAIRÁBÁD, town, XIV, a 58; (Attock), III, a 55; (Sitápur), XXII, b 110
Khairagarh, state (Oudh), XVIII, *a* 75; (Raipur), XX, b 269
Khair al-Dín or Khayr ud-Dín, Barbarossa, admiral. See BARBAROSSA
Khairán, Berber chief (Spain), XXII, *a* 330
KHAIRPUR, state, XIV, a b 58
Kháizoran, mother of Hairun (Mohammedanism), XVI, b 603
Khajuna, language (Gilgit), X, b 533
Khákáni, poet (Persia), XVIII, b 670, b 673
Khakas, people (Kirghiz), XIV, *b* 96
Khaldoun, historian. See IBN KHALDOUN
Khakhai Pathans, tribe (Peshawar), XVIII, a 698
Khalaches, tribe (Turks), XXIII, b 703
Khalaf the Red, philologist (Mó'allakat), XVI, b 561
Khálawaih, grammarian (Motanabbi), XVII, a 7
Khalid ben al-Walid, general (Arabia), II, b 224–5; (Mohammedanism), XVI, a 585, a b 592, b 593; (Persia), XVIII, b 626
Khalepa, town (Canea), IV, b 711
Khalfa, author. See HAJJI KHALFA
Khalif or Khalifa. See Caliph and Caliphate
Khalil, el, town. See HEBRON
—— Shák (Persia), XVIII, b 643
Khalkhas, tribe (Mongols), XVI, b 770, a 771, a 772, a 776; (Urga), XXIV, *b* 15
Khalki or Karki, island (Princess Islands), XIX, a *b* 761
Khallikan, author. See IBN KHALLIKAN
Khálsá, class (India), XII, a *b* 847; district (Biláspur), III, *b* 580; (India), XII, a 834
Khám or Do-Khám, province (Tibet), XXIII, a 360, b 361, a *b* 363, *a* b 364, b 365, *b* 367; dialect (Tibet), b 368
Khamar-Daban, mountain (Siberia), XXII, a 7; (Transbaikalia), XXIII, b 541, a 543
Khamáseen or Khamsin, wind (Africa), I, a 230, b 238; (Egypt), VII, b 630, note

Khamba-lá, mountains (Tibet), XXIII, b 361
KHÁMGÁON, town, XIV, b 58; (Akolá), I, b 387; (Berar), III, *b* 503
Khamīs bar Kardāhē, poet (Syriac Literature), XXII, b 900
Khammuragas, Cassite king (Babylonia), III, a 161
Khamsah (Nizámí), XVII, a b 536
Khânâbad, river (Afghânistân), I, b 217; town (Afghânistân), b 217
Khanaut, river (Sháhjahánpur), XXI, *b* 771
KHÁNDESH or Candeish, district, XIV, b 58-9; and town (Bombay), IV, *b* 21, *a* 22, a 23
KHANDPÁRA, state, XIV, a 59; (Orissa), XVII, b 869
KHANDWA or Cundwah, town, XIV, a 59; (Nimár), XVII, *b* 522
Khangka, lake (Maritime Province), XV, b 554; (Siberia), XXII, *a* 10
Khania, town. See CANEA
Khanikoff, M., traveller (Herat), XI, a b 637, a b 638
Khan Minyeh, village (Capernaum), V, b 49
Khans, inns (Caravanserai), V, a 76; (Damascus), VI, b 696
Khan Tengri mountains (Siberia), XXII, *a* 7; (Turkestan), XXIII, a 674, *a* 675, b 678
Kharagoda, town (Radhanpur), XX, a 219
Khárejíyeh, sect (Hasan and Husein), XI, b 454. See Khárijites
Kharezm or Chorasmia, Kharizm, Khuarezm, Khwarizm. See KHIVA
Khargeh or Kharija, oasis (Oases), XVII, a 715; town (Egypt), VII, a 680
Khárijites, dissenters (Mohammedanism), XVI, a 583, b 587, b 588, a b 589, b 591, a b 592, b 593, b 594, a 615; (Tabarí), XXIII, a 7
Khari Kharas, mountains (Namaqualand), XVII, a 175
Khárizmi, mathematician. See Al Khárizmi
Khárizmian invasion of Palestine (Templars), XXIII, a 478
KHARKOFF, government, XIV, a *b* 59; (Russia), XXI, a 76, a 80, a 88, b 94, b 95; town, XIV, b 59; (Universities), XXIII, a 908
KHARPUT, town, XIV, b 59
Kharrak Singh (Punjab), XX, a 118
KHARTUM or Khartoum, town, XIV, a 60; (Africa), I, a b 239; (Nile), XVII, *b* 520, *a* 521; (Nubia), a *b* 625, *a b* 626
Khas, tribe (Laos), XIV, b 294-5
Khashá'a valley (Lebanon), XIV, a 394
Khâsh-Rûd, river (Afghânistân), I, a 206
KHÁSI AND JÁINTIA HILLS, district, XIV, a b 60; XIII, a b 554; rainfall (Asia), II, b 603, a 604
Khasim dynasty (Arabia), II, b 227
Khaskhas, tree (Kheri), XIV, b 63
Khassia Dictionary, VII, a 166
Khatak Hills (Peshawar), XVIII, b 697
Khatib, office (Sunnites), XXII, b 696
Khatíb, Al-, al Baghdádí, historian (Tabarí), XXIII, b 8
KHATMÁNDU, town, XIV, b 60-1; (India), XII, a 770; (Nepal), XVII, b 350, a 351, *a* 352, b 353; valley (Himalaya), XI, b 737
Khatrís, traders (India), XII, a 799
Khatti, Cheta, Kheta or Kittim, people (Egypt), VII, b 639, a 640, a 641, a b 674, b 675; (Hittites), XII, *a* b 28; (Phœnicia), XVIII, a b 818; (Syria), XXII, a 860 note, *b* 861
Khatystakh, river (Yakutsk), XXIV, a b 763
Khausar, river (Nineveh), XVII, a b 525, a 526
Khawak, pass (Hindú Kúsh), XI, a *b* 748
Khawárij, sect. See Khowarij
Khayyam, astronomer. See 'OMAR KHAYYAM
Khayyath, G. E., archbishop (Syriac Literature), XXII, b 896 note
Khazael, tribe (Mesopotamia), XVI, b 56, a 57
Khazarasp, town (Khiva), XIV, b 66, a 67
KHAZARS, people, XIV, a 61-3
  authorities, b 62-3
  ethnology, a b 61
  history, b 61-2
  location of, a 61
  Russian conquest, b 62
—— (Mohammedanism), XVI, b 604; (Russia), XXI, *a* 86; (Volga), XXIV, *a* 301. See Heung-nu, Huns, White
——, Russian Jews (Israel), XIII, a 440
Khedive, title (Egypt), VII, b 627
KHELAT, town, XIV, a 63; district and city (Baluchistan), III, *b* 259, *a* 260, *a* 261, a 262
Khem, god (Egypt), VII, b 622
Khemnitzer, Ivan Ivanovitch, fabulist (Russia), XXI, b 114
Kheraskoff, Mikhail Matvewich, poet (Russia), XXI, b 114
KHERI, district, XIV, a 63-4
Kherlá, kingdom and town (Betul), III, b 535, a 536; town (Badnur), b 197
KHERSON, government, XIV, a 64; (Russia), XXI, a 76, a 85, *b* 87, a 91, a 93, *b* 94; town, XIV, a 64
Kheta, people. See Khatti
Khetasar, king of the Kheta (Egypt), VII, a 641
Kheybar, district (Arabia), II, b 221
Khiao, title (Laos), XIV, b 294
Khil or jum, cultivation (Dehra), VII, b 30
Khilok river (Transbaikalia), XXIII, *a* 543
Khimara, mountains (Albania), I, a 396
Khingan mountains (Asia), II, a 600; (Siberia), XXII, a 8; (Transbaikalia), XXIII, *a* 542
Khi-Nie, traveller (Hwen T'sang), XII, a 434
Khitâï, Khitât, or Cathay, country (China), V, *b* 545-6; (Prester John), XIX, b 735, b 736, note
Khitán, race (China), V, *b* 545-6, *a b* 561
Khittim. See Khatti
KHIVA, Chorasmia, Kharizm, Khuarezm or Khwarizm, khanate, XIV, b 64-7
  capital city, a 67
  commercial industries, a 67
  history, b 64-5
  natural products and climate, b 66
  political characteristics, a b 66
  territory of, b 64
  topography, a b 65
  towns, b 66
—— (Anna Ivanovna), II, a 54; (Jenghiz), XIII, b 632-3; (Mongols), XVI, b 767, a 774; (Numismatics), XVII, b 678; (Oxus), XVIII, b 105; (Sunnites), XXII, a 696, note; (Turks), XXIII, b 702
——, city, XIV, a 67; (Mammoth), XV, a 455
Khlynoff, town (Vyatka), XXIV, a 324
Khlysty, sect (Russia), XXI, b 90
Khmér or Kŏmâr, people (Cambodia), IV, a b 640, a 642
Khnum or Chnoumis, god (Ammon), I, b 649; (Egypt), VII, *b* 622; (Mythology), XVII, *b* 158
Khodja Tchai, river (Asia Minor), II, b 618
KHOI, town and district, XIV, a b 67
Khoi-Khoin, tribes (Hottentots), XII, a 323; (Mythology), XVII, a 154; (Religion), XX, *a* b 375
Khojahs or Khodjahs, class (India), XII, b 784; (Kashgar), XIV, *b* 10; (Khiva), a b 66; (Turkestan), XXIII, a 678, b 680, a 681
KHOJEND or Hodjent, town, XIV, b 67; (Oxus), XVIII, b 105; (Syr-Daria), XXII, b 858, *b* 859, *a* 860
KHOKAND, city, XIV, b 67-8; (Ferghana), IX, a *b* 75; kingdom (China), V, *a* 561
Kholas date (Arabia), II, a 207
Kholeys, station (Arabia), II, a 206
Kholmogory, district (Archangel), II, *a* 322
Khongs, tribes (Siam), XXI, a 892
Khoni, town (Transcaucasia), XXIII, a 547
Khons or Khonsou, deity. See CHONS
KHONSAR, town, XIV, a 68
Khoper river (Russia), XXI, a 81; (Saratoff), a 319
Khora, town (Samos), XXI, b 262
KHORAMABAD, town and fortress, XIV, a 68
KHORÁSÁN or Khorássan or Khurasan, province, XIV, a 68-9; (Afghânistân), I, b 204, b 205, b 207, b 208, a 212, a 219; (Haroun al Raschid), XI, *b* 436; (Jenghiz), XIII, a 633; (Merv), XVI, b 48; (Mohammedanism), a b 594, a 595, b 596, b 598, b 599, a 601, a b 602, a 603, a b 605; (Persia), XVIII, b 637, b 640, a 668; (Transcaspian), XXIII, b 543; mines of (Turquoise), a 712; war in (Persia), XVIII, b 657, a 658, b 660, a 663
Khorásán, History of (Tabarí), XXIII, b 6
——, the veiled prophet of (Merv), XVI, a 49. See MOKANNA
Khordah Avesta (Zend-Avesta), XXIV, *b* 814, *a* 815
Khor-el-Gash, river (Nile), XVII, b 520
Khorj, town (Arabia), II, b 221
Khor Nowarat, harbor (Red Sea), XX, a 329
Khorré, king (Tibet), XXIII, *b* 367
Khorsabad, ruins (Architecture), II, *b* 348, *a b* 349, a 350; (Nineveh), XVII, b 525, *a* 526; (Weights and Measures), XXIV, a b 511
Khorsum, province (Tibet), XXIII, *a* 361, b 363, b 364, b 365
Khoshod or Khoshot, tribe (Mongols), XVI, a 771, b 776
Khosrau I., the Just, king (Antioch), II, b 116; (Armenia), a 480; (Justinian), XIII, *a* 806; (Persia), XVIII, b 622-4; (Syriac Literature), XXII, a 876, a b 878, a 879; palace of (Ctesiphon), VI, b 599
Khosrau II., Parvéz, king (Crusades), VI, b 549-50; (Greece), XI, a 101; (Persia), XVIII, b 624, a b 625; (Syriac Literature), XXII, *b* 879, a 880
——, Amír, poet (Persia), XVIII, a 672, b 673
Khosrau and Shirin, poem (Nizámi), XVII, b 535, a b 536
Khosrau - Antiochia, city (Persia), XVIII, b 623
——, Nasir, poet. See NASIR KHOSRAU
Khosru or Khusru of Ghazni, sultan (India), XII, b 831
Khost, province (Afghânistân), I, b 204, b 217, *b* 218
KHOTAN or Iltchi, city and district, XIV, a b 69; (Jade), XIII, b 549; (Turkestan), XXIII, b 679, *a* 680; river (Gobi), X, b 635
—— - Daria river (Turkestan), XXIII, b 678-9
Khotba (Mohammedanism), XVI, a 593
Khoten, kingdom of (China), V, *a* 561

KHOTIN or Khoteen, town XIV, b 69; (Bessarabia), III, *b* 531, a 532; battle of, 1622 (Poland), XIX, b 305–6, a 307, a b 313, b 314
Khouan, religious order (Tripoli), XXIII, b 612
Khowarij, sect (Arabia), II, a 218, a 226; (Sohár), XXII, a 260
Khri lde gtsng-brtan-mesag-ts'oms, king (Tibet), XXIII, a 367
Khri srong Ideu btsan, king. See Kir Song de Tsan
Khshathrem Vairim, angel (Zoroaster), XXIV, b 861
Khudayar Khan, chief (Ferghana), IX, b 75
Khuarezm, kingdom. See KHIVA
Khudabanda, Muhammed, shah (Persia), XVIII, b 648
Khufu, king of Egypt. See CHEOPS
Khulm, province (Afghânistân), I, b 216, b 217, *a* 218, a 219; river (Afghânistân), a 217
KHULNA or Culna, town, XIV, b 69
Khumâraweyh, governor (Egypt), VII, a 650
Khu-n-aten, king (Egypt), VII, a 640
Khuns, god. See CHONS
Khurásan. See KHORÁSAN
Khuria, plateau (Jashpur), XIII, b 604
KHURJA, town, XIV, b 69; (Bulandshahr), IV, b 461
Khursheed, pasha (Egypt), VII, a b 661
KHUSHÁB, town, XIV, a 70
Khusruf, Mohammed, pasha (Egypt), VII, a 660, a 661
Khutba, prayer (Turkey), XXIII, b 681
KHUZISTÁN, province, XIV, a 70
Khuzu, river (Tigris), XXIII, a 413
Khwa, river (Sandoway), XXI, *a* 272
Khwalisses, people. See KHAZARS
Khwándamír, historian (Mirkhond), XVI, b 522
Khwarizm. See KHIVA
Khybar Pass (Afghânistân), I, a 205, b 206, b 215; (India), XII, b 770; (Lawrence, H. M.), XIV, a 373; (Punjab), XX, a 115, a 116
Khyrabad, town. See KAIRÁBÁD
Khyrpoor, state. See Khairpur
KIACHTA or Kiakhta, town, XIV, a b 70; (Transbaikalia), XXIII, *a* b 543; (Urga), XXIV, *b* 15
Kiama, district and town (Borgu), IV, b 48
Kiang, animal (Horse), XII, a 179
——, tribes (Tibet), XXIII, b 366
—— Hung, state (Shans), XXI, a 810
Kiangka, town (Tibet), XXIII, b 362
Kiang-sen, town (Siam), XXI, a 891, b 892
Kiang Tung, state (Shans), XXI, a b 810
Kiaring, lake (Tibet), XXIII, b 360
Kibali, river (Zaire), XXIV, b 802
Kibble, bucket (Mining) (Ill.), XVI, b 476, a 477
Kibdjaki, Bailak, Arabian writer (Compass), VI, a *b* 292
—— Tsangpo, river (Lhasa), XIV, b 496, b 501; (Tibet), XXIII, b 361
Kickelhahn, mountain (Saxe-Weimar), XXI, b 364
Kid (Glove), X, b 617; (Leather), XIV, b 389-90
Kidd, John, physician (Homœopathy), XII, b 130
——, William, pirate (Long Island), XIV, a 877; (Somers), XXII, b 270
Kidder, J. H., American naturalist (Sheathbill), XXI, *a* b 819
KIDDERMINSTER, town, XIV, b 70; (Baxter), III, b 393, b 394
—— or Scotch Carpets, V, a b 114, a 116
KIDNAPPING, XIV, b 70-1; (Aberdeen), I, b 42; (North, Sir D.), XVII, *b* 567; (Prison Discipline), XIX, a 767; (Slavery), XXII, a 138, a b 142
Kidney, organ (Amphibia), I, b 672; (Birds), III, b 630; (Crustacea), VI, a 564 note, b 576; (Cuttle-Fish), a 650; (Diabetes), VII, *b* 127; (Diuretics), a b 253; (Dropsy), a 408; (Gout), XI, b 7, a b 8; (Ichthyology), XII, b 697; (Mammalia), XV, a 369; (Nutrition), XVII, a 699, a b 702–4; (Reptiles), XX, b 475–6
——, bloodvessels of (Anatomy), I, a 793; Bright's disease of, IV, a b 312; diseases of (Pathology), XVIII, a 395–7; (Scarlet Fever), XXI, a b 394; function of (Physiology), XIX, b 20–1; operations on (Surgery), XXII, a 727
—— bean, plant (Horticulture), XII, a b 295
—— Cotton, VI, b 428
—— ore (Iron), XIII, a 292
Kidron valley (Jerusalem), XIII, *b* 647
Kieferle, mountain (Thuringia), XXIII, a 353
KIEFF or Kiev, government, XIV, a b 71; (Russia), XXI, a 76, a *b* 83, a 88, a 89, *b* 94, *a* 98, *a* 99, b 104
KIEFF, city (Plan), XIV, b 71–3; (Greece), XI, b 103; (Mongols), XVI, a 768; (Observatory), XVII, a 735; (Russia), XXI, a *b* 96, *b* 97, *a* 99, a *b* 111; (Universities), XXIII, a 908
Kieft, William, governor (New York), XVII, b 466, b 893, a 894
KIEL, town, XIV, a b 73; (Observatory), XVII, a 733; (Schleswig-Holstein), XXI, b 432, *a* 433; (Universities), XXIII, a b 905, b 906
Kielce, district (Poland), XIX, a *b* 319, a b 320, b 321, b 322; (Russia), XXI, a 76, b 81
KIELCE, town, XIV, b 73
Kielhau, Baltazar Michael, geologist (Norway), XVII, b 606
Kielhorn, Franz Lorenz, orientalist (Sanskrit), XXI, b 286, a 301 note, b 306, notes, b 307 note
Kielland, Alexander, novelist (Norway), XVII, a 606
Kier, modern (Bleaching) (Ill.), III, b 707–8; old form (Bleaching), III, b 706
KIERKEGAARD, Sören, philosopher, XIV, b 73–4; (Denmark), VII, b 81
Kieselguhr, earth (Dynamite), VII, b 504; (Nitroglycerine), XVII, *b* 534
Kieserite (Mineralogy), XVI, a 418; (Potassium), XIX, a 605, a 608
Kieseritzki, L., player (Chess), V, b 517, b 522, a 524
Kieserle, mountain (Saxe-Meiningen), XXI, a 364
Kiezers, or electors (Guiana), XI, *a* 223
Kiftí, historian (Tabarí), XXIII, b 8
Kigang or Kidjang, deer (Muntjak), XVII, a 38
Kilauea, volcano (Geology), X, b 217, a 219, a 223; (Hawaiian Islands), XI, a 475
Kilbricken, town (Clare), V, b 701
Kilbrickenite (Mineralogy), XVI, a 412
Kilchattan, town (Bute), IV, a 517
KILDARE, county, XIV, a 74–5; town (Bridget, St.), IV, a 309
——, earls of (Ireland), XIII; a b 267, *a* 268, b 269
Kilfenora, diocese (Ireland), XIII, b 254
Kilham, Alexander, controversialist (Methodism), XVI, b 196, b 197, b 200
Kilhwch and Olwen (Celtic Literature), V, b 279
KILIA, town, XIV, b 75; channel (Danube), VI, *b* 721
KILIAN, St., missionary, XIV, b 75
Kilidg, Kilidj or Kilig Arslan, sultan (Crusades), VI, a 551, a 552, a 553; (France), IX, a 475; (Seljuks), XXI, a *b* 668
—— II., sultan (Seljuks), XXI, b 668
Kilimane or Quilimane, river and town, XX, a 187
KILIMANJARO, mountain, XIV, b 75–6; (Africa), I, a 221, b 224, b 228, a b 229
Kilis, town. See KILLIZ
Kilkarai passage (Rameswaram), XX, a 278
Kilkee, town (Clare), V, *b* 701, a 702
KILKENNY, county, XIV, a 76–7; city, a b 77
——, statute of (Ireland), XIII, a 267, b 268
—— coal (Anthracite), II, b 94
Kilkerrin bay (Galway), X, a 51
Killala bay (Mayo), XV, *a* 657; (Patrick, St.), XVIII, a 422
Killaloe, diocese and town (Clare), V, b 701, a b 702
KILLARNEY, town, XIV, a 78; lakes of, a 78; (Ireland), XIII, b 222
Killary Harbor (Mayo), XV, b 656, *a* 657
Killas, mineral (Tin), XXIII, a 427
KILLDEER, bird, XIV, a b 78
Killeries, bays (Galway), X, a 51
Killiecrankie, battle of, 1689 (Dundee), VII, b 465; (Perth), XVIII, a 680; (Scotland), XXI, b 539
Killing No Murder (Pamphlets), XVIII, a 209
"Killing Times" (Scotland), XXI, a 539
Killington, mountain (United States), XXIII, b 842
Killingworth, George, ambassador (Beard), III, a 401
Killinite (Mineralogy), XVI, b 434, b 443
KILLIZ or Kilis, town, XIV, b 78–9
Killjohns, apricots (Ramusio), XX, a 281
Killon in Weights and Measures, XXIV, b 518
Kilmacduagh, diocese (Ireland), XIII, b 254
Kilmahoe, a Highland Pastoral (Shairp), XXI, b 772
KILMARNOCK, town, XIV, a 79; (Ayr), III, *a* b 142
Kilmashogue, battle of, 919 (Ireland), XIII, a 258
Kilns (Brick), IV, b 250, a 251, b 252, a 253; (Coke), VI, *a* 108; (Pottery and Porcelain) (Ill.), XIX, a 619, b 637–8, a 663; annealing (Glass) (Ill.), X, b 589, a 590; hop (Brewing), IV, b 243; drying malt (Brewing), a 240–1; roasting (Iron) (Ill.), XIII, b 297–8
Kilogram in Weights and Measures, XXIV, a *b* 507, b 517, a 518; (Water), b 421
Kilot, measure (Greece), XI, a 79
Kilrush, town (Clare), V, *b* 701, *a* 702
Kilsby tunnel (Railway) (Ill.), XX, b 241
KILSYTH, burgh, XIV, a 79; (Stirling), XXII, a 582
Kilt (Costume), VI, a b 424
Kilwa, station (Zanzibar), XXIV, *a* 807
KILWINNING, town, XIV, a b 79
KIMBERLEY, town, XIV, b 79; (Griqualand West), XI, *a* 182; (Mining), XVI, b 475, b 491
——, district (Western Australia), XXIV, *a b* 535, *a* 536, *a* 537
Kimberworth, town (Rotherham), XXI, b 6
Kimbolton castle (Huntingdon), XII, a 414
KIMHI or Kimchi, David, rabbi, XIV, b 79–80; (Hebrew Language and Literature), XI, a 536
Kimidi Rájá, family (Hindol), XI, b 747
Kimmeridge clay (Iguanodon), XII, a 740
KIMPULUNG, town, XIV, b 80; (Bukowina), IV, a 461

Kin, next of (Intestacy), XIII, *b* 203, *a b* 204
Kin or "Golden" empire (China), V, b 545, b 561-2; (Mongols), XVI, a-b 767, a 771
Kina Balu, mountain (Indian Archipelago), XII, a 855; (Sabah), XXI, b 131
Kinabatangan, river (Sabah), XXI, *a* 132
Kinahan, geologist (Geology), X, b 292, a 299, note, a 309
Kinai Dictionary, VII, b 167
KINCARDINE or The Mearns, county, XIV, b 80-1
Kinchinjinga, mountain (Himalaya), XI, a 737
Kin-chow, city (Manchuria), XV, a 473, a 474
—— Foo, district (China), V, a b 557
Kind, Friedrich, librettist (Weber), XXIV, *b* 495
—— and Chaudron's method (Coal), VI, a b 59
Kindeh or Kinda, kingdom of (Arabia), II, *a* b 223; (Mohammedanism), XVI, a 569
KINDERGARTEN, school, XIV, b 81-2; (Frœbel), IX, *a* b 697, a 698; (Italy), XIII, a 471; (Schools), XXI, a 912
Kinder Scout, mountain (Derby), VII, a 93
Kindheit, Buch der (Goltz), X, a 684
Kindred. See CONSANGUINITY
Kinè, town (Egypt), VII, b 673
Kinematics (Diagrams), VII, a 129-30; (Dynamics), b 502, a 503; (Hodograph), XII, a 44-6; (Mechanics), XV, *a* 685-705; applied (Mechanics), a 761-74; definition of (Physical Sciences), XIX, *a* 6; of a deformable figure (Mechanics), XV, b 700-5; of fluids (Hydromechanics), XII, 480-2; Kepler's laws of (Mechanics), XV, a 716; of a point (Mechanics), a 686-97
Kinetic energy, VIII, a 188; (Electricity), b 71-2, b 76; (Lagrange), XIV, a 211; (Mechanics), XV, a b 706; (Molecule), XVI, a b 633-6, a b 639; equations of (Hydromechanics), XII, b 467, b 469, a 470-2, a b 487-9; in plant growth (Physiology), XIX, b 62, a b 63; in streams (Hydromechanics), XII, a b 526; friction (Mechanics), XV, b 709; modulus (Elasticity), VII, b 706-7; unit (Elasticity), a 700
Kinetics (Atoms), III, a b 35, a *b* 36; definition of (Physical Sciences), XIX, a 6; of a chain (Mechanics), XV, a 749-51; of free particles (Mechanics), b 726-9; of a particle generally (Mechanics), b 711-36; of a particle with one degree of freedom (Mechanics), 711-4; of a particle with two degrees of freedom (Mechanics), 714-8; of a rigid solid (Mechanics), a 740-6; of two or more particles (Mechanics), a 723-6
Kinetic theory of gases (Diffusion), VII, a 187-8; (Gay-Lussac), X, a 110; (Maxwell, J. C.), XV, b 653; (Molecule), XVI, a 634, a 640; (Pneumatics), XIX, b 259, b 261; (Sainte-Claire Deville), XXI, b 175
Kineton, town (Warwick), XXIV, a *b* 400
King, monarch (France), IX, b 467, a 468; (Rome), XX, b 751-2 note; (Sweden), XXII, a 783; (Titles of Honor), XXIII, a b 445; ancient (England), VIII, b 247-8, a 254; cost of (France), IX, a 450; costume of (Egypt), VII, b 618; divine right of (Filmer), IX, b 145; in Greece (Archon), II, b 419, a 420; (Areopagus), *b* 425; Hebrew ideal (Messiah), XVI, b 58, a 59; (Micah), a 234; hereditary doctrine of (England), VIII, b 287; prerogative of, XIX, a b 693, note; (England), VIII, a b 290; (Norway), XVII, a 599; primitive (Priest), XIX, a 744, a 745; testament of a (Will), XXIV, b 604. See Monarchy
King, Clarence, American, geologist (Geology), X, b 290, b 328, a b 330, a 333; (Surveys), XXII, a *b* 937, a 938
——, Edmund, physician (Vascular System), XXIV, a 105
——, Edward, antiquarian (London), XIV, b 852
—— Edward (Milton), XVI, a b 337, b 338
——, Gregory, author (London), XIV, a 830
——, Sir John Dashwood, breeder (Hound), XII, a 330
——, Peter, lord chancellor (England), VIII, b 329; (Methodism), XVI, a 195
——, Philip Parker, traveller (Australia), III, a 91
——, Rufus, senator (United States), XXIII, a 796 note
KING, William, archbishop, XIV, b 82; (Ethics), VIII, a 533 note; (Hutcheson), XII, b 423; (Ireland), XIII, b 274
——, William, naturalist (Brachiopoda), IV, a 170, a b 171, a b 172, b 174, b 175
——, William, satirist (Index), XII, b 767
King Albert Archipelago (Plate), XIX, b 199
King Arthur (Lytton), XV, a 124
King-at-arms (Heraldry), XI, b 612, a 613, b 614
KING-BIRD (Ill.), XIV, b 82-3
—— of Paradise (Birds), III, a 676
King-Charles-Land, island (Spitzbergen), XXII, a *b* 423
King-Charles-South-Land, (Tierra del Fuego), XXIII, b 409-10
King-crab, limulus (Crustacea) (Ill.), VI, a 560, note, a 561, a 562, a 563, b 564, b 566, a 568, b 573-5, b 577
Kingdom of Christ (Hoadly), XII, b 31
Kingdom of heaven, effect of the term (Christianity), V, a 601-4, a 609
King-duck (Eider), VII, a 685
"King Fergus" (Horse), XII, *a* 188
King-fish (Yellow-Tail), XXIV, a 775
KING-FISHER, bird, XIV, b 83-4; (Birds), III, b 619, b 632, a b 641, a 642, a 669; (Egypt), VII, b 617
King George's Islands (Tuamotu), XXIII, b 639 note
—— River (Delagoa), VII, b 36
—— Sound (Western Australia), XXIV, a b 535, b 536, *a* 537
King Hart (Douglas), VII, b 326
King Henry VI., play (Marlowe), XV, b 564; (Shakespeare), XXI, a 795, a 797, a 799, a 805
King Horn (Romance), XX, b 674-5
Kingis Quhair (James I.), XIII, a 566; (Scotland), XXI, a 514, b 515, a 566
King Lear, play. See *Lear*
KINGLET, bird, XIV, b 84-5
Kingo, Thomas, poet (Denmark), VII, b 79; (Engelbrechtsdatter), VIII, b 195
King of Birds, fable (Wren), XXIV, b 723
—— of the Romans, title (Germany), X, b 436
King Rene's Daughter (Herz), XI, b 690, a 691
KINGS, *Books of*, XIV, a 85-8
  chronology, a b 86, b 88
  corrupting textual influences, a b 86
  divided kingdoms, a 87-8
  Elijah and Elisha narratives, b 87-8
  literature, b 88
  Septuagint recension, b 85-6
  Solomon period, a 87
  structural divisions, a b 85
  theological redaction, b 86
—— (David), VI, a 736 note; (Isaiah), XIII, a 394; (Israel), b 424, a 425; (Palestine), XVIII, b 180, a 181; (Persia), b 574 note; (Samuel), XXI, a 265
——, *Book of*, Persian, XVIII, a 669, a 671; (Tabarí), XXIII, a 7. See *Sháhnáma*
King's advocate (Admiralty), I, b 147; in Scotland, a 162
—— body guard, Scotland (Archery), II, a b 327
Kingsborough, Edward King, viscount (Architecture), II, a 394, note; (Mexico), XVI, b 214, a 216, a 221, a 222
King's Chapel, Boston (Unitarianism), XXIII, a 774, note
—— College, Cambridge, IV, a b 646; (Libraries), XIV, b 519, a 543; (Seals) (Ill.), XXI, b 615; chapel (Crown), VI, b 548
—— College, London, XIV, a 845; (Libraries), b 516, b 544; (Universities), XXIII, a 910
—— College (New York), XVII, b 896-7; (Smith), XXII, a b 913. See Columbia College
—— College, Toronto (Canada), IV, *b* 689-90
KING'S COUNTY, Ireland, XIV, b 88-90
—— courts, mediæval (Ireland), XIII, a b 262
—— Cross station (Clocks), VI, b 28, a b 35; (Railway), XX, a b 245
King's evil, disease (Johnson, S.), XIII, a 730; (Scrofula), XXI, a 580, note
—— Hows, tomb (Barrows), III, b 343
—— Inns, Dublin (Inns of Court), XIII, a b 97; (Libraries), XIV, a 523, b 543
—— Island (Port Mahon), XIX, b 545
—— jurisdiction (Roman Law), XX, b 695
KINGSLEY, Charles, novelist XIV, a 90-1; (Gare-Fowl), X, a 72; (Socialism), XXII, b 219, b 221
Kings' Lives (Iceland), XII, a b 660-1
Kings-Lynn, town (Norfolk), XVII, *a* b 550; (Walpole), XXIV, *a* 356
King's mountain (Sligo), XXII, a 169
—— mountain (South Carolina), XXII, b 300, a 301
Kings of England, list of VIII, a 329
King's Own, novel (Marryat), XV, a b 576
King's Plate (Horse), XII, *a* 205
King's Speech (Marvell), XV, b 595
KINGSTON, Canada, city, XIV, b 91; (St. Lawrence), XXI, *b* 189
——, city (Jamaica), XIII, a 560; (Libraries), XIV, b 552
KINGSTON, New York, city, XIV, a 91
——, Elizabeth Chudleigh, duchess of (Foote, S.), IX, a 322, b 323
——, Sir William, tower-keeper (Wolsey), XXIV, b 669
KINGSTON, William Henry Giles, novelist, XIV, a 92
KINGSTON-ON-THAMES, town, XIV, b 91-2; (Surrey), XXII, *b* 729, *a* 730
Kingston-upon-Hull. See HULL
KINGSTOWN, town, XIV, a b 92; (Dublin), VII, a b 427, b 428; breakwater (Harbors and Docks), XI, a b 411
—— (St. Vincent), XXI, a 211
King's-Yellow worm (Trematoda), XXIII, a 569
King-te, Ming emperor (China), V, b 563
KING-TIH-CHIN, town, XIV, b 92; (China), V, b 552
——, *History of the Manufactory of* (Pottery and Porcelain), XIX, a 653
Kington, town (Hereford), XI, b 652, *a* 653

Kinguela, town (Cacongo), IV, a 555
King-William-IV.-Land (Patagonia), XVIII, a b 357
King-William's-Town, province (Kaffraria), XIII, a 826, a 827
Kini-balu lake (Borneo), IV, b 50; mountains (Borneo), a *b* 50
Kinkajou, genus (Mammalia), XV, *b* 447
Kinker, Johannes, poet (Holland), XII, b 100
Kin-ling, city. See NANKING
Kinmont, Willie, escape of (Carlisle), V, b 96
Kinnasrín, province (Syria), XXII, a 860
Kinneil House (Linlithgowshire), XIV, b 676
Kinneir, Macdonald, geographer (Geography), X, a 171
Kinnekulle, mountain (Sweden), XXII, a 775
Kinnersley, Ebenezer, physicist (Electricity), VIII, *b* 8, b 14, *a* 52, b 61
KINO, drug, XIV, b 92-3
Kinoin, chemical product (Kino), XIV, a b 93
KINROSS, county and town, XIV, b 93-4; (Scotland), XXI, a b 551, a 558
Kinsai, city (Hang-Chow-Foo), XI, b 393
KINSALE, town, XIV, b 94; (Fisheries), IX, a 231; (Cork), VI, a 358
Kin-sha Keang or Di-chu, river (China), V, b 548, a 556; (Tibet), XXIII, b 360, b 362, b 363, b 366
Kin-Tatars (Jenghiz), XIII, a 632, b 633
Kintyre, parish (Argyllshire), II, a *b* 439, *a* 440
Kinzig, river (Würtemberg), XXIV, *b* 735, a 736
KIOTO or Saikio, city, XIV, b 94-5; (Japan), XIII, b 579, b 583, b 585, a 586, *a* 587, *b* 589, a 591, b 596; (Xavier), XXIV, b 753
Kiowas, tribes (Indians), XII, a 873
Kipchaks or Kapchak, tribes (Herat), XI, b 638; (Kirghiz), XIV, b 96, a 97; (Mongols), XVI, a b 773-4; (Tartars), XXIII, a 76; (Turks), a b 702; (Ural Altaic), XXIV, a 5. See Golden Horde
Kipin, district (Persia), XVIII, b 610
KIPPIS, Andrew, compiler, XIV, a b 95
Kippure, mountain (Wicklow), XXIV, a 588
Kips, East Indian (Leather), XIV, b 380, a b 386, *a* 391
Kir, river (Nile), XVII, *b* 519, *a* 520, *a* 521
KiritArjunīyâ (Sanskrit), XXI, b 297, note
Kirātis, country (Nepāl), XVII, a 349
KIRBY, William, entomologist, XIV, b 95; (Insects), XIII, b 148, b 153, *b* 160, a 161; (Ornithology), XVIII, a 19, b 28 note
Kirchengeschichte (Henke), XI, b 582
——, *Handbuch der neuesten* (Nippold's Popedom), XIX, a 525
Kirchenpostille, homilies (Luther), XV, b 77
KIRCHER, Athanasius, mathematician, XIV, b 95-6; (Lhasa), a 502; (Magic Lantern), XV, a 212; (Trumpet), XXIII, b 631; (Whirlpool), XXIV, a *b* 571
KIRCHHEIM-UNTER-TECK, town, XIV, a 96
Kirchhoff, Gustav Robert, physicist (Electricity), VIII, *a* 12, *a* 13, b 15, b 40, a b 43, b 97; (Magnetism), XV, a 256, a 260; (Radiation), XX, *b* 222, a 223; his graduated wire (Electricity) (Ill.), VIII, a b 43; his theory (Magnetism), XV, b 250-1
——, Johann W. A., philologist (Euripides), VIII, a b 596; (Greece), XI, a b 120; (Homer), XII, *b* 122, a 125
Kirchner, F. J., jurist (Treaties), XXIII, a 566
Kirckmann, Jacob, musical instrument maker (Pianoforte), XIX, b 78
——, von (Æsthetics), I, a 197
Kirensk, town (Yakutsk), XXIV, b 762
KIRGHIZ, people, XIV, a 96-8; (Orenburg), XVII, b 850-1; (Transcaspian), XXIII, a b 545; (Turgai), a 668; (Turkestan), b 677; (Turks), b 700, b 702; Kazaks, people (Semipalatinsk), XXI, *b* 671; (Uralsk), XXIV, *a* 11
—— steppes (Caspian Sea), V, a 156; (Russia), XXI, *b* 74, *b* 75, b 76, a 78, a b 81, a 87, a 88, b 89
Kir-Hareseth, town. See KERAK
Kiria, town (Turkestan), XXIII, a 680
Kirigalpota, mount (Ceylon), V, a 312
KIRIN or Girin, town, XIV, a 98; (Manchuria), XV, *a* b 473, *a* 474
Kiriri, race (Indians), XII, b 869
Kirjath-Arba, city. See HEBRON
Kirk, A. C., engineer (Steam-Engine), XXII, b 535, b 545; his valve-gear (Steam-Engine), b 527 note, a 528
Kirkaldy of Grange, Sir William (Mary Stuart), XV, b 605; (Scotland), XXI, a 524, a b 527, a b 528
——, engineer (Strength of Materials), XXII, a b 631 notes; his testing machine (Strength of Materials), a 626
Kirkby, John, bishop (Carlisle), V, a 96
——, John, novelist (Gibbon), X, b 512
—— Moor flags (Geology), X, b 298
—— Stephen, town (Westmorland), XXIV, *a* b 542, b 543, *b* 544
KIRKCALDY, town, XIV, b 98-9; (Floor Cloth), IX, a 288; (Scotland), XXI, a b 558
KIRKCUDBRIGHT, county, XIV, a 99-101; (Scotland), XXI, a 546, a 551, b 557, b 560; town, XIV, *a b* 100
Kirke, Robert, philologist (Gaelic), X, a 13; legend of (Gaelic), a 10
Kirkhead Cave, V, b 234, a b 235
KIRKI or Kirkee, town, XIV, a 101
KIRKINTILLOCH, town, XIV, a 101
KIRK-KILISSIA or Kilisseh, town, XIV, a 101
Kirk Lar, monument (Derbend), VII, a 92
Kirklees, town (Dewsbury), VII, a 126
Kirk of Field (Edinburgh City), VII, b 576, a b 577
Kirk-session (Presbyterianism), XIX, a 700, a 701
Kirkstall Abbey (Ill.), I, a 24-5
KIRKWALL, town, XIV, a b 101; (Orkney), XVII, *b* 872, a b 873
Kirkwood, Daniel (Astronomy), II, a 707
——, Samuel J., governor (United States), XXIII, a 822
KIRMÁN, province, XIV, b 101; (Seljuks), XXI, b 667; language of (Kurdistan), XIV, b 158; town (Persia), XVIII, b 656
Kirman-shah. See Bahram
KIRMÁNSHÁHÁN or Kermanshah, town and district, XIV, a b 102
Kirmiss, Fair, VIII, b 741
Kir-Moab, city (Moab), XVI, b 557-b 558
Kirní or Sakí river (Amritsar), I, a 682
KIRRIEMUIR, town, XIV, b 102; (Forge), IX, *b* 362, *a* 363
KIRSANOFF, town, XIV, b 102
Kirsch-wasser, liqueur (Cherry), V, a 509
Kir Song de Tsan, king of Tibet (Lamaism), XIV, b 229. See This-rong-de-tsan
Kirthar mountains (Shikárpur), XXI, b 839
Kirtland, Ohio, village (Mormons), XVI, b 852
Kirtles, skirt (Costume), VI, a b 414, *a* 416
Kirving, mining process (Coal), VI, b 62
Kirwan, town. See KAIRWAN
——, Richard, chemist (Chemistry), V, a 401, a 402; (Chlorine), a 589
Kirwanite (Mineralogy), XVI, b 432
Kis, John, poet (Hungary), XII, *b* 392
Kisagotamī, legend of (Buddhism), IV, a 386
KISFALUDY, Károly or Charles, poet, XIV, b 102-3; (Hungary), XII, b 392
KISFALUDY, Sándor or Alexander, poet, XIV, a b 103; (Hungary), XII, b 392
—— society (Eötvös), VIII, a 405; (Erdélyi, János), a 460; (Hungary), XII, *a b* 393, note, *a* 394, note
KISH or Kais, island, XIV, b 103
——, substance (Plumbago), XIX, b 242
Kishanganga, river (Kashmir), XIV, *a* 12
KISHANGARH or Krishnagarh, state, XIV, b 103
Kishicoquilis valley (Pennsylvania), XVIII, b 509
Kishi-Kashi, town (Zanzibar), XXIV, b 806
KISHINEFF or Kishlanow, town, XIV, b 103-4
Kishiu, province (Japan), XIII, a b 579, *b* 580, a b 584
KISHM or Tawílah, island and town, XIV, a 104; (Ormus), XVII, a b 832, note
Kishon, river (Israel), XIII, b 411; (Galilee), X, *a* 26
Kisimayu, station (Zanzibar), XXIV, *a* 806
Kis-Marton, town. See EISENSTADT
Kiso-gawa, river (Japan), XIII, b 581
Kiso-kaidô, highway (Japan), XIII, a 586
Kiss, act (Salutations), XXI, a b 248; prohibition (Templars), XXIII, a 179
——, Augustus, sculptor (Sculpture), XXI, a 593
——, Joseph, poet (Hungary), XII, b 390, b 393
Kissar (Lyre), XV, b 115-6
KISSINGEN, town, XIV, a b 104; spring (Artesian Well), II, b 564, b 565; (Mineral Waters), XVI, a 453
Kissy, village (Sierra Leone), XXII, a b 50
Kisten pass (Glarus), X, b 566
Kistler, Peter, burgomaster (Switzerland), XXII, b 827
KISTNA or Krishna, district, XIV, b 104-5
KISTNA or Krishna, river, XIV, *b* 104, a 105; (Bombay), IV, b 20; (India), XII, a 772; (Karnul), XIV, *b* 7; (Madras), XV, a b 185, b 186
Kisuaheli Dictionaries, VII, b 167
Kiswa, veil (Mecca), XV, b 679, note
Kítáb, book (Mohammedanism), XVI, a 620
—— *-al-Fihrist*. See *Fihrist*
—— *-al-Maghâzi* (Mohammedanism), XVI, b 587
—— *al-Milalwan-Nihil* (Shahrastání), XXI, a 772
—— *el Tankih* (Jonah, Rabbi), XIII, a 748
—— *Wafayát el 'Aiyán* (Ibn Khallikan), XII, b 643
Kit'ah, kind of poem (Persia), XVIII, a 672, note
Kitay-Gorod, suburb (Moscow), XVI, b 883, a 885
KIT-CAT CLUB, XIV, a 105
Kitchen-garden calendar (Horticulture), XII, a 302-6
Kitchen-middens (Andaman Islands), II, b 12; (Anthropology), a b 103; (Birds), III, a 634
KITE, bird, XIV, b 105-6; (Birds), III, b 638, note
Kitoi, mountains (Siberia), XXII, a 9
Kit's Coity house (Architecture), II, b 335; (Aylesford), III, a 141
Kitson's valve-gear (Steam-Engine), XXII, a 527

Kittary, Dr. M., naturalist (Arachnida), II, *b* 246, note
Kitatinny mountains (New Jersey), XVII, a *b* 406; (United States), XXIII, *a* 843, b 844, a 845
Kittim, race. See Khatti
Kittitass region (Washington), XXIV, b 406
Kittiwake, bird (Gull), XI, a 243
Kittlitz, Friedrich H., naturalist(Ornithology,)XVIII b 17
KITTO, John, divine, XIV, a b 106
Kitul (Fibres, Textile), IX, a 116
KITZENGEN, town, XIV, b 106
K'iuh-fow, city (Confucius), VI, a 233
Kiung Chow Foo, island. See HAINAN
Kiuprili or Kjöprülü. See KOPRILI
Kiushiu, island (Japan), XIII, a 578, *b* 579, *a* *b* 580, b 582, *b* 583, b 584, a 586, a 592, b 594
Kiutahia, town. See KUTAIAH
KIWI or Kiwi-Kiwi, bird (Ill.), XIV, b 106-8; (New Zealand), XVII, a 482
Kiyomori, chief (Japan), XIII, b 591
Kizi lake (Maritime Province), XV, a 555; (Siberia), XXII, a 10
Kizil Agatch, gulf of (Caspian Sea), V, a 155; (Transcaucasia), XXIII, a 546
—— Ahmedli, princess of (Turkey), XXIII, b 681, a 683
—— Arslán, sultan (Nizâmí), XVII, a 536
—— -Arvat, town (Transcaspian), XXIII, b 543, a 544, *a* 545
Kizilbâshes, tribe (Afghânistân), I, a b 211; (Khiva), XIV, a 66; (Turks), XXIII, b 703
Kizil-Irmak, river (Asia Minor), II, a 618; (Cappadocia), V, b 67. See Halys
Kizil-kum, desert (Syr-Daria), XXII, *a* b 858, *a* 859
Kizil Su or Kashkar, river, XIV, b 9; (Afghânistân), I, a 205; (Gobi), X, b 635; (Hindu Kush), XI, b 747, b 748; (Turkestan), XXIII, b 673, b 678
—— Uezen or Uzain, river (Irak Adjemi), XIII, a 219
Kizil-yart, mountains (Oxus), XVIII, b 106, a b 107
Kizlaer aghassi, title (Harem), XI, a 428
KIZLIAR or Kizlar, town, XIV, a b 108; (Stavropol), XXII, a 490; (Terek), XXIII, *a* 203
Kjæmpeviser, ballads (Denmark), VII, a 79
Kjerulf, Theodor, geologist (Norway), XVII, b 606
Kjölen or Kölen, range (Norway), XVII, a 589; (Sweden), XXII, a 774
Klaas van Haarlem, writer (Holland), XII, a 93
Klabat, mountain (Celebes), V, b 251
KLADNO, town, XIV, b 108
KLAGENFURT, town, XIV, b 108-9; (Carinthia), V, *a* 94
Klamath river (Oregon), XVII, b 845
Klamaths, tribes (Indians), XII, b 866
Klang, river (Malay Peninsula), XV, a 324; and town (Straits Settlements), XXII, *a* 616
Klapka, George, general (Hungary), XII, b 387, a 388
KLAPROTH, Heinrich Julius von, philologist, XIV, a 109; (Lhasa), *b* 496, b 499, a 503
——, Martin Heinrich, chemist (Uranium), XXIV, *b* 11
Klaprothite (Mineralogy), XVI, a 411
Klar Elf or river (Sweden), XXII, b 774
KLATTAU, town, XIV, a 109
Klaus, Bruder. See Flüe, Nicholas von der
KLAUSENBURG Kolozsvar, town, XIV, b 109-10; (Unitarianism), XXIII, b 773
Klausen-pass (Glarus), X, b 566
KLAUSTHAL, town, XIV, a 110; town, (Hanover), XI, b 398, b 399
Klay, J., dramatist (Drama), VII, a 381
KLÉBER, Jean Baptiste, general, XIV, a b 110; (Egypt), VII, *b* 659; (Napoleon I.), XVII, b 208; (Ney), a 485; (France), IX, a 534, a 538, a 539, b 540
Klein, F., mathematician (Measurement), XV, b 671; (Plücker, XIX, a 242
——, Jakob Theodor, naturalist (Reptiles), XX, b 446; (Zoology), XXIV, b 843
KLEIN, Julius Leopold, author, XIV, b 110
Kleinenberg, naturalist (Hydrozoa), XII, a 582, a 583
Kleinert, Hugo, W. P., theologian (Isaiah), XIII, a 389
Kleinseite, suburb (Prâgue), XIX, b 678, a 679
Kleissner, O., antiquary (Winkelreid), XXIV, b 645, a 646
Kleist, monk (Electricity), VIII, b 6
——, Ewald Christian von, poet (Frankfort-on-the-Oder), IX, a 624; (Germany), X, *b* 477; (Lessing), XIV, b 479, *a* 480
——, Heinrich von, poet (Drama), VII, *a* 383, notes; (Germany), X, a 485
Kleisthenes. See Clisthenes
Klenze, Leo von, architect (Munich), XVII, a b 30, b 31
Klephts, brigands (Greece), XI, a b 111, a 112
Kleptomania, a Wall street instinct (Crime), VI, b 517; (Insanity), XIII, b 109
Klerker, De, optician (Light), XIV, a 607
Kleruchia, allotment (Greece), XI, a 88
Klettenberg, Susanne Catherine, pietist (Goethe), X, b 644, b 647, a 652
Klettgau, locality (Schaffhausen), XXI, *b* 403
Kleve. See CLEVES
Kley's steam-engine (Mining), XVI, a-b 480
Klias, river (Sabah), XXI, b 131
Klingenstierna, Samuel, mathematician (Telescope), XXIII, b 149
Klinger, Friedrich Maximilian von, poet (Drama), VII, a 382; (Germany), X, a 483
Klings, people (Prince of Wales Island), XIX, a 761; (Tamils), XXIII, b 46
Klinkong, mountains (Saráwak), XXI, a 321
KLINTZY, town, XIV, b 110
Klippspringer, mammal (Antelope), II, a 90
Klipstad, mountain (Transvaal), XXIII, a 550
Klipsteinite (Mineralogy), XVI, b 443
Kloman cinder machine (Iron), XIII, b 313
Klonowicz, Sebastian Fabian. See ACERNUS
Kloofs, tribes (Africa), I, b 241
KLOPSTOCK, Friedrich Gottlieb, poet, XIV, b 110-11; (Denmark), VII, b 79; (Fasting, C.), IX, a 44; (Germany), X, b 478-9, b 482; (Goethe), a 643, b 646, b 647, *a* *b* 648; (Hymns), XII, a 623; (Ottensen), XVIII, b 72
Klossia, parasite (Protozoa), XIX, b 878, a b 879
Kloster (Cloister), VI, b 35
Kloster-Heilsbronn, village, XI, b 557
—— -Zeven. See Closter-Seven
KLOSTERNEUBURG, town, XIV, a 111
Klotz, Christian Adolphus, critic (Bürger), IV, b 476
Klyutcheoskaya, mountain (Kamchatka), XIII, a 841
Knapp, Isaac, journalist (Garrison), X, b 77
KNARESBOROUGH, town, XIV, a b 111
Kneading bread (Baking), III, b 218
—— -machines (Baking) (Ill.), III, b 221-2
Knebel, Karl Ludwig von, critic (Goethe), X, b 647, b 648, a 649, b 651, b 655, b 656
Knebellite (Mineralogy), XVI, b 427
Knebworth House (Hertford), XI, a 690
Knecht, tenant (Knighthood), XIV, b 112; (Livonia), b 730
Knee (Anatomy), I, a 738
—— breeches (Costume), VI, a 421
—— -cap (Anatomy), I, b 727; (Mammalia), XV, a 363
Kneeling, act (Salutations), XXI, b 248
KNELLER, Sir Godfrey, painter XIV, b 111-12; (Vertue), XXIV, a b 203
——, John Zachary, painter, XIV, b 111
Kneriidæ, fishes (Ichthyology), XII, b 711, b 731
Kniaznin, Franciszek Denis, poet (Poland), XIX, a 315
Knickerbocker Magazine (American Journalism), XVII, a 892; (Periodicals), XVIII, b 555
Knickerbocker's History (Irving, W.), XIII, a 383
Knieholz or Krummholz, shrub (Pine), XIX, b 112
Knies, Karl, economist (Political Economy), XIX, a 405-6, b 407; (Statistics), XXII, *a* 480, a 484
Knife (Cutlery), VI, a 647, *a* 648; as sign in the Zodiac, XXIV, a 831
Knigge, Adolph von, baron (Illuminati), XII, a b 745
KNIGHT, Charles, author, XIV, a b 112; (Encyclopædia), VIII, a 186; (Long), XIV, *a* *b* 867; (Periodicals), XVIII, b 548; (Poetry), XIX, b 277, *a* 672
——, Gowan, scientist (Compass), VI, a 203
——, Thomas Andrew, horticulturist (Hybridism), XII, *a* 442; (Parasitism), XVIII, b 268; (Physiology), XIX, a b 66
KNIGHTHOOD, XIV, a 112-28
  banneret knights, a 121-2
  conferring, modes of, b 119-21
  crusades, b 117
  decline of chivalry, a 127-8
  decline, legal steps in, b 116-7
  definitions, a 112
  degradation from, a 126-7
  English knighthood, a 114-5
  fee in England, b 114-5
  Garter knights, a 123-5
  grades of, b 118-9
  inauguration ceremonies, b 120-1
  independence of knights, b 117-8
  mediæval origin of, b 113-4
  merits and defects of, a 127-8
  military organization, a b 117
  minor British orders, a b 125
  orders existing, b 122-5
  service, b 115-7
  sources of, official, b 125-6
  terms, origin of designative, a 112-3
Knighthood of the British Empire, Orders of (Nicolas), XVII, a 503
Knightly Crosses, VI, a 542
Knight of Malta (Beaumont and Fletcher), III, a 409
Knighton, chronicler. See Knyghton
Knight on wood-shrinkage (Building), IV, b 434-5
Knights, play (Aristophanes), II, b 447
Knights (Bannerets), III, a 299; (Precedence), XIX, b 681, *b* 683, notes; (Peerage), XVIII, a b 472;

Knights, *continued*
free (Luther), XV, b 75, a 77, b 78, b 79; mediæval (Education), VII, b 582, *a* 583; (Italy), XIII, b 477; (Spain), XXII, a b 331; (Templars), XXIII, b 175-6, a 178, *b* 179; (Velazquez), XXIV, b 147
Knightsbridge, suburb (London), XIV, a 831, b 837, b 838, a 861
Knight's Dream of Duty and Pleasure (Raphael), XX, b 288, note
Knights of Alcantara, I, b 405-6; (Ferdinand II., Leon), IX, a 71
KNIGHTS OF THE HOLY SEPULCHRE, order, XXI, b 702
Knights of Honor (Army), II, a 498, note
—— of Labor, order (Socialism), XXII, b 229; (United States), XXIII, a b 835; (Workingmen), XXIV, a *b* 919
—— of Malta, order XV, *a b* 325; (Dolomieu), VII, b 299, a 300. See Knights of St. John
——, order of Christ (Portugal); XIX, a 558, b 559, b 561
—— of St. John, XXI, b 182-4; (Acre), I, a 112; (Cos), VI, b 393; (Crusades), b 554, a 555, a b 557; (D'Aubusson), a 734; (Gerard, T.), X, b 393; (Greece), XI, b 107, a 108, a 109; (Malta), XV, a 343, a b 345-6; (Memling), XV, a 854; (Napoleon I.), XVII, b 207; (Popedom), XIX, b 513; (Rhodes), XX, a b 540, a b 541; (Turkey), XXIII, *b* 683, b 684, *a* 685, note
—— of St. Julien (Alphonso VIII.), I, a 542; (Brioude), IV, b 313
—— of St. Mary's Hospital at Jerusalem (Teutonic Order), XXIII, a 218-9
—— of St. Stephen (Pisa), XIX, b 130
—— of the shire (Parliament), XVIII, a b 310, a 311, a 312, a b 313
—— of the Sword (Dünaburg), VII, a 459
Knight's service, XIV, b 115-7; (Army), II, a 498; (Scutage), XXI, a 600
—— Templar, XXIII, b 175-81; (Baphomet), III, a 300; (Carnac), V, b 104; (Clement V.), a 718; (Crusades), VI, b 554, a 555, a b 557; (Honorius II.), XII, b 146; (Popedom), XIX, b 513, a 516; (Saint John of Jerusalem), XXI, *a* 183; (Spain), XXII, a 331
——, Teutonic, XXIII, a 218-9; (Albert, Duke), I, b 399; (Germany), X, a 441, a 451; (Hanseatic League), XI, b 403; (Insterburg), XIII, a 164; (Königsberg), XIV, b 140; (Poland), XIX, b 299, a b 301, b 302; (Popedom), b 513; (Prussia), XX, b 8, b 9, a b 10; (Russia), XXI, a 99, a b 100-1
Knight with Death (Dürer), VII, b 481-2
Kniprode, Weinrich von, master (Teutonic Order), XXIII, b 218
KNITTING, art, XIV, a b 128; (Hosiery), XII, b 312-13
—— -machines (Hosiery), XII, b 312-13
Knobel, philologist (Pentateuch), XVIII, a 517
Knoblecher, N., missionary (Ismailia or Gondokoro), XIII, b 398
Knock, hill (Linlithgow), XIV, b 675
Knockayon, hill (Westmeath), XXIV, b 540
Knockenhauer's series (Wave Theory), XXIV, a b 467
Knock-knee, treatment of (Surgery), XXII, b 727
Knocklayde, peak (Westmeath), XXIV, b 540
Knockmahon, town (Waterford), XXIV, a 422
Knockmealdown, mountains (Tipperary), XXIII, b 432; (Waterford), XXIV, a 422
Knocknarea, mountain (Sligo), XXII, b 168
Knockroe, mountain (Carlow), V, a 98
Knole Park, residence (Sevenoaks), XXI, b 730
KNOLLES, Richard, historian, XIV, a b 128
Knollys, Sir Francis, chamberlain (Gilbert), X, a 528; (Mary Stuart), XV, b 605
——, Sir Wm. (Aldershott Camp), I, b 419
Knorring, Sofia Zelow, Baroness von, novelist (Sweden), XXII, a 796
KNOT or Tringa, bird, XIV, a b 130; (Birds), III, b 653
KNOT (Ill.), XIV, b 128-30; (Seamanship) (Ill.), XXI, b 617, a 618-21
Knott's, G., Observatory, XVII, a 731
Knotting, painter's (Building), IV, b 457
—— yarns (Seamanship) (Ill.), XXI, b 621
Knowledge (Baader), III, a 151; (Comte), VI, b 208-9; (Cudworth), b 610; (Descartes), VII, a 106; (Hamilton, Sir W.), XI, *b* 372; (Herbart), a b 643; (Hume), XII, b 360, a 361, a 362, a 365-8; (Kant), XIII, b 860; (Locke), XIV, b 767-9; (Metaphysic), XVI, a b 88, a b 91, b 93, a 94, a b 95, a 97, a 100, a b 101, a 102, a b 103; (Philosophy), XVIII, b 805, b 806, b 808; (Stoics), XXII, b 593
——, Aristotelian (Logic), XIV, a 791-2, a b 794-5, a b 798; Bacon's theory (Logic), a b 800; Cartesian (Logic), b 799-800; defined (Psychology), XX, b 54; degrees of (Stoics), XXII, b 594-5; empirical (Logic), XIV, b 800-2; immediate and mediate (Logic), b 788, a b 789; Kantian (Logic), a 803-5; limitations of (Butler), IV, a 520; metaphysico-psychological (Logic), XIV, a 802-3, b 806-7; modern theories of (Lotze), XV, a 16; nature of (Belief), III, b 459-60; (Socrates), XXII, b 249, b 250-1; positive (Comte), VI, b 208-9; reflective (Psychology), XX, b 49; relation to faith of (Belief), III, b 461-2; (Dogmatic), VII, a 291, *b* 292; Schleiermacher on, XXI, a b 429-30, a 431
Knowledge, Principles of Human (Berkeley), III, b 509
KNOWLES, James Sheridan, dramatist, XIV, b 130-1
——, Richard Brinsley, author (Spencer), XXII, *b* 407, note
Knowles's supplementary governors (Steam-Engine) (Ill.), XXII, b 532
Know-Nothing party (Republican Party), XX, b 905 note; (United States), XXIII, a 819, a 820, a 821
KNOX, Henry, general, XXIII, b 838; (Knoxville), XIV, b 135
——, Hugh, divine (Hamilton, A.), XI, *b* 369
KNOX, John, reformer, XIV, a 131-5
  continent, ministry upon the, b 132-3
  conversion and imprisonment, b 131
  descendants and portraits, a 135
  England, ministry in, b 131-2
  last days under James VI., a b 134
  literature, a 135
  Roman Catholic period, a 131
  Scotch life under Mary of Guise, a b 133
  Scotch life under Mary, queen, b 133-4
—— (Haddington), XI, b 324; (Major), XV, *b* 313; (Mary), *b* 601, a 602; (St. Andrews), XXI, a b 166; (Scotland), a 521, *a* b 522, *a b* 523, a b 524, *a b* 525-6, *a* b 528, b 567-8; (Perth), XVIII, b 680; (Presbyterianism), XIX, *a* 699, *a* 700
Knox-pan-amalgamator (Gold) (Ill.), X, b 665
KNOXVILLE, Tenn., city, XIV, a b 135; (Tennessee), XXIII, a b 194; siege of, 1863 (United States), XXIII, a 827
"Knuckles" (India-Rubber), XII, b 879
Knud Laward, duke (Schleswig-Holstein), XXI, a 433
Knutsson, Charles. See Charles VIII. of Sweden
——, Torkel. See Torkel Knutsson
Knyddelw, poet (Celtic Literature), V, a 277
Knyghton or Knighton, Henry, chronicler (Wycliffe), XXIV, b 746, b 747
Knysna bay (Cape Colony), V, a 39, a 40
Koala, bear (Mammalia) (Ill.), XV, a 381, a 382, *b* 385; digestive system of (Mammalia), a 365
Kôbé, town (Hiogo), XI, a b 760; (Japan), XIII, b 586, b 587; (Ozaka), XVIII, a 115
Kobellite (Mineralogy), XVI, b 411
KOBELYAKI, town, XIV, b 135; (Poltava), XIX, *a* 424
Koberstein, historian (Germany), X, a 487, b 488
Kôbô Daishi, priest (Japan), XIII, b 590
KOBRIN, town, XIV, b 135
Kobt or Koft, town. See COPTOS
Koburger, Antony, printer (Book), IV, b 35
Kobus, species (Antelope), II, a 90
Koch or Rajbansi, race (India), XII, b 830-1; (Kuch Behar), XIV, a 153
——, Joseph, painter (Schirmer), XXI, b 415
——, Karl Heinrich Emmanuel, botanist (Butterflies), IV, b 529; (Pear), XVIII, b 456
——, Ludwig, naturalist (Arachnida), II, b 245, a 247, note, b 248, a b 251, a 261 note, a 263
——, Richard, physician (Pathology), XVIII, b 416, a 417 note
——, Robert, physician (Schizomycetes), XXI, b 416, a b 417, note, b 418, b 423, b 425
Kochanowski, Jan, poet (Poland), XIX, a 312
Kochbrunnen, springs (Wiesbaden), XXIV, b 591
Kochowski, Vespasian, poet (Poland), XIX, b 313
Kock, A., philologist (Scandinavian Languages), XXI, a 388, note, a 389
KOCK, Charles Paul de, novelist, XIV, b 135-6
——, Fort de (Sumatra), XXII, b 672
Kodagas, tribe (Coorg), VI, a 303
Kodá'í, historian (Tabarí), XXIII, b 8
Kodor, river (Caucasus), V, b 220
Kodoshim (Mishnah), XVI, b 528-9
KODUNGALUR or Cranganore, town, XIV, a 136
Koeik, river (Aleppo), I, b 422, a 423
Koel, river (Lohárdaga), XIV, *b* 815; (Singbhúm), XXII, b 101
——, town (Aligarh), I, *b* 507
Koelhoff, Johannes, printer (Typography), XXIII, 729, b 731
Kœlreuteria, tree (Arboriculture), II, b 280
Koenig, Rudolphe (Acoustics), I, a 103, a 108, b 110, a 111
——, Frederick, inventor (Typography), XXIII, b 751; (Voice), XXIV, *b* 295
Kœpe winding system (Mining), XVI, a 478
Koepflin. See CAPITO
Kóft-Kári, inlay (Punjab), XX, b 115
Kogia, genus (Mammalia), XV, b 399-400
Kohari, Stephen, poet (Hungary), XII, b 391

KOHÁT, district, XIV, a b 136; (Punjab), XX, b 113, a b 115; town, XIV, b 136-7
Koh-i-Bâbâ, mountains (Afghânistân), I, a 204, a b 205, *b* 216, *a* 217; (Herat), XI, a 637; (Hindú Kúsh), *a* 748, *a* b 749
Kohima, town (Nágá Hills), XVII, b 170
Koh-i-noor diamond (Ill.), VII, a b 144; (Ahmed Shah), I, a 376; (Mineralogy), XVI, b 396; (Punjab), XX, b 117
Kohistan, province. See IRAK ADJDMI
Kohistanis, tribe (Afghânistân), I, *b* 211
Kohi-tan, mountains (Hissár, State), XII, b 4
Kohl, powder (Incense), XII, a 758
KOHL, Johann Georg, traveller, XIV, a 137; (Baths), III, b 378-9
Köhler, mathematician (Tables), XXIII, a b 12, a 16, a b 17, a b 18
Köhler's commentary (Jonah), XIII, a 747, a 748
Kohl-Rabi, plant (Agriculture), I, a 329; (Cabbage), IV, a b 549; (Horticulture), XII, b 295
Kohlrausch, F., the Younger, physicist (Electricity), VIII, b 12, b 37, b 45-7, *b* 97, *a* b 98; (Electrolysis), a 107; (Diffusion), VII, b 190
——, Rudolph Hermann Ardt, electrician (Electricity), VIII, a *b* 37, a b 40, b 49-50, a b 79, b 84; (Electrolysis), b 100, b 105
——, physician (Pathology), XVIII, b 393
Koibal and Karagas Dictionary, VII, a 167
Koissu, rivers (Caucasus), V, b 221
Kojak, pass (Kandahar), XIII, a 845
Kojiki, record (Japan), XIII, b 596, a 597
Kojiki-den (Japan), XIII, a 597
Kokarpo, mountains (Tibet), XXIII, b 362
Kokcha, river (Hindú Kúsh), XI, b 748
Koko-nur, lake (Huc), XII, b 342; (Lake), XIV, *a* 218, *a* 223; (Mongols), XVI, *a* 776
——, mountains (Tibet), XXIII, a b 363, a 365, b 366, a 367
Kokoon, animal. See GNU
Koksoak or South river (Labrador), XIV, a 176
Kola, peninsula and town (Lapland), XIV, a b 305; (Russia), XXI, a 74, b 82, a 87
KOLÁBA, district, XIV, a b 137; observatory (Meteorology), XVI, b 174, b 177 note, b 178, 179, 180, b 186
Koladan, river (Burmah, British), IV, b 499
Koladyne, river (Akyab), I, a 388; (Arákán), II, a 268
Kolakh, town (Arabia), II, a 221
Kola- or Cola-nut (Gold Coast), X, b 673; (Nut), XVII, a 683, a 684; (Senegambia), XXI, b 694
Kolapur. See KOLHAPUR
KOLAR or Colar, district, XIV, b 137-8; lake (Kistna), b 104
Kolarian language (India), XII, a 784, a b 817
Kolbe, Adolf Wilhelm Hermann, chemist (Chemistry), V, a 404, b 451
—— or Kolben, Peter, naturalist (Hottentots), XII, b 323, a 325; (Secretary-Bird), XXI, a 648 note
Kolbel, musician (Trumpet), XXIII, a 631
Kolberg. See COLBERG
Kolchaina Indians, XII, a 867
KOLCSEY, Ferencz, poet, XIV, a 138; (Hungary), XII, *b* 392
Koldewey, Karl, explorer (Geography), X, a 175; (Polar Regions), XIX, *b* 335
KOLDING, town, XIV, a b 138
Kölen or Kjölen, mountains (Norway), XVII, a 589; (Sweden), XXII, a 774
Koléru, lake (Godávari), X, a 637
Koleyb, Mostareb sheik (Arabia), II, b 223
KOLHÁPUR, state, XIV, b 138; city, b 138
Kolikod, town. See CALICUT
KOLIN, town, XIV, b 138; battle of, 1757 (Austria), III, b 111
Kolinsky, animal (Fur), IX, b 735, b 736
Kolitá, caste (Lakhimpur), XIV, a 226
Koliyans, clan (Buddhism), IV, a 382
Kolk, Schrœder van der, physician (Insanity), XIII, b 110
Kolla, district (Africa), I, a 239
Kollar, Jan, antiquary (Slavs), XXII, a 154, b 161
Kollataj, Hugo, statesman (Poland), XIX, b 315
Kollegial System (Pufendorf), XX, a 106
Kölliker, August A. von, anatomist (Tunicata), XXIII, b 647, b 658
——, Rudolph Albert (Anatomy), I, b 717, a b 750, b 751, a 752, b 753, b 755, b 757, a 779; (Embryology), VIII, a 153, a 154, *a* 155; (Hydrozoa), XII, b 589, a 594; (Mollusca), XVI, a 655; (Reproduction), XX, *a b* 423; (Zoology), XXIV, b 855
Kollyrite (Mineralogy), XVI, b 442
Kolmar, town. See COLMAR
Köln, city. See COLOGNE
Kolokol, periodical (Hertzen), XI, *b* 691
Kolokythia or Laconicus gulf (Greece), XI, b 74
KOLOMEA or Kolomyia, town and district, XIV, b 138-9
KOLOMNA, town, XIV, a 139
Koloshes, tribes (Indians), XII, a 866
Kolougis, race (Algeria), I, b 497
Kolozsvar. See KLAUSENBURG
Kölreuter, Joseph Gottlieb, botanist (Hybridism), XII, b 440, a 442
Kols, race (Chutiá Nágpur), V, *a* 671
Koltzoff, Alexis Vasilievitch, poet (Russia), XXI, b 115
Koluchin, bay (Maritime Province), XV, b 554
Kolyma, river (Siberia), XXII, a 9, a 10; (Yakutsk), XXIV, a b 762
Kolyvañ, town (Tomsk), XXIII, a b 467
Kolyvanskoye, lake (Tomsk), XXIII, b 466
Kolzum, town (Suez), XXII, a 653
Komadugu, river (Soudan), XXII, *a* 291, b 292
Komar, people (Cambodia), IV, a b 640, a 642
Komárom. See KOMORN
Komatiberg, range (Transvaal), XXIII, a 550
Kombé, poison (Strophanthus), XXII, *a* 640
Kome strata (Greenland), XI, a 150
Komensky. See COMENIUS
Komi-yas or Komi-vurt, people (Vologda), XXIV, b 303
Kom Kutchi, mountains (Montenegro), XVI, a b 806
Komon-sama, historian (Japan), XIII, a 597
KOMORN, town, XIV, a 139; siege of, 1849 (Hungary), XII, a 387-8
KOMOTAU, town and district, XIV, a b 139
Kompert, writer (Jews), XIII, a 696
Komul, town. See HAMI
Konakry point (Senegambia), XXI, b 693
Konarski, Stanislaus Jerome, jurist (Poland), XIX, a 314
Koncan, district. See CONCAN
Kondratowicz, Ludwig Ladislaus, poet (Poland), XIX, a b 316
Konevetz, island (Ladoga), XIV, b 199, a 200
Kong, mountains (Africa), I, a 225; (Senegambia), XXI, a 694; (Soudan), XXII, *b* 290, *a* b 291
Kongbo, mountains (Tibet), XXIII, b 361, a 362, b 363
Kongone, river (Zambesi), XXIV, a 804
KONGSBERG, town, XIV, b 139; (Norway), XVII, a 592, a b 596; mines (Mining), XVI, a 491
Kongu kings of India (Inscriptions), XIII, b 126
Konieh or Cogni, town (Iconium), XII, a 735; battle of, 1832 (Egypt), VII, b 664; (Ibrahim Pasha), XII, a 645
König, Samuel, mathematician (Bee), III, a 423
König, Alfred, opera (Raff), XX, a b 226
KONIGGRATZ, town, XIV, b 139; battle of, 1866. See Sadowa
Konigine (Mineralogy), XVI, b 418
KONIGINHOF, town, XIV, b 139; manuscript (Slavs), XXII, b 160
KONIGSBERG, town (Plan), XIV, b 139-40; (Libraries), b 548; exclave (Saxe-Coburg-Gotha), XXI, a 363
——, mountains (Harz), XI, a 453
—— Observatory, XVII, a 733; (Micrometer) (Ill.), XVI, a 261, b 262, 263
—— university, XIV, a 140; (Kant), XIII, *a* b 854, a 855; (Universities), XXIII, b 900, a b 905
KONIGSHUTTE, town, XIV, b 140
Königsmarck, Hans Christoph, author (Athens), III, a 11
——, Philipp Christoph, seducer (George I.), X, b 378; (Sophia Dorothea), XXII, a 277
Königsspitze, mountain (Valtellina), XXIV, b 51
Königstein, fortress (Saxony), XXI, b 369, *b* 371, b 372
——, mountain (Transylvania), XXIII, a 555
Koninklijke Bibliotheek, Hague (Libraries), XIV, a 531
KONITZ or Könitz, town, XIV, b 140
Koniyeh, town. See Konieh
Konjakoff Kameñ, mountain (Ural Mountains), XXIV, a 8
Konkan, region (Bombay), IV, a 20, a b 21
Könlite (Mineralogy), XVI, b 447
Konopowka, springs (Galicia), X, a 24
KONOTOP, town, XIV, b 140; (Tchernigoff), XXIII, a 103
Konrad von Würtzburg, poet (Romance), XX, b 654
Konrad Wallenrod, poem (Mickiewicz), XVI, a b 250
Konsbergite (Mineralogy), XVI, a 398
Konshin, A. M., engineer (Transcaspian), XXIII, *b* 514, note
Konstantinoff Kameñ, peak (Ural Mountains), XXIV, a 8
Konstantinovich, Michael, chronicler (Poland), XIX, b 311
Koodoo, species (Antelope) (Ill.), II, a 90
Koo kin too shoo tseih ching, encyclopædia (China), V, b 576
Koolhaes, Caspar, theologian (Arminius), II, b 483
Koom, city. See KUM
Koouiyeh, town. See Konieh
Koornhert, Richard, theologian (Arminius), II, b 483, *a* 484
Koos, town (Egypt), VII, b 673
Koosen's experiment, Johann Heinrich (Magnetism), XV, a 255
Kootab Pillar. See Kutab
Kop in Weights and Measures, XXIV, a 518
Kopaonik, mountain (Servia), XXI, b 718

Kopari, town (Balasor), III, b 235
Kopczynski, Onufry, philologist (Poland), XIX, a 315
KOPENICK, or Cöpnick, town, XIV, b 140-1
Kopernicki, Isidor, physician (Gipsies), X, b 550, b 551
Kopet or Kopepet-Dagh, highland system (Khorásán), XIV, a b 68; (Turkestan), XXIII, *a* 672; (Transcaspian), *b* 543, *a* 544, *a* 545
Köpfchenbacterien forms (Schizomycetes) (Ill.), XXI, b 419, b 421
Kophino, mountain (Crete), VI, b 503, a 504
Kopitar, Bartholomaus, philologist (Slavs), XXII, a b 158, b 159
Köpke, Karl, editor (Lachmann), XIV, b 193
Köpke, Rudolf, biographer (Tieck), XXIII, *b* 408
Kopp, Joseph Eutych, historian (Tell), XXIII, a 172
——, Herman, historian of chemistry (Wenzel), XXIV, b 529
Koppa, letter (Q), XX, a 151
Kopparberg, province (Sweden), XXII, b 777, a b 778, a 779, b 780
Koppelwirthschaft, farm-term (Germany), X, a 405
Köppen, W. (Meteorology), XVI, a 188
Koppernigk. See COPERNICUS
Koppite (Mineralogy), XVI, a 445
KOPREINITZ, town, XIV, a 141
KOPRILI or Kiuprili, town, XIV, a 141
Köprili Muhammed, grand vizier (Turkey), XXIII, b 686
—— záda Mustafa, grand vizier (Turkey), XXIII, a 687
Kopurthella. See KAPURTHÁLA
Korah, rebellion of (Levites), XIV, b 488
Korahitic psalter (Psalms), XX, *a* b 35-6
Koraish or Koreysh, tribe (Arabia), II, b 214, a 217, b 223-4, b 227; (Mohammedanism), XVI, a 569, b 572, a 574, b 578, b 579, b 580, a 583, a b 586; dialect (Semitic Languages), XXI, *a* 684
Koraiza, family (Mohammedanism), XVI, b 579, a 580
KORAN, Mohammedan Scriptures, XVI, a 619-28; (Abu-Bekr), I, a 60; (Adam), b 127; (Anatomy), a 706; (Flügel, G. L.), IX, a 306; (Gabriel), X, b 5; (Harem), XI, b 427; (Imám), XII, a 753; (Immaculate Conception), b 754; (Mohammedanism), XVI, b 584, b 606, b 611, b 614, b 616; (Semitic Languages), XXI, *a* b 684; (Solomon), XXII, a 265; (Yemen), XXIV, b 776, a 778
——, *Commentary on* (Persia), XVIII, b 668; (Tabarí), XXIII, b 7-8; influence of (Arabia), II, a 214, a 215, a 216, a *b* 217, b 219, b 220, *a* 228, b 230; study of the (Sunnites), XXII, a b 695, b 696
Korannas, tribe (Hottentots), XII, a 326
KORAT, territory and town, XIV, a 141; (Siam), XXI, *a* 891, a 893
KORDOFAN, province, XIV, a 141-2; (Africa), I, b 238, b 239; (Soudan), XXII, *a b* 291, *a* 292, a 293
KOREÁ or Koria, state, XIV, a 142; (Chutiá Nágpur), V, a 672
Koreysh, family. See Koraish
Korintji, lake (Sumatra), XXII, a 672
Koris, caste (Oudh), XVIII, b 75
KORITSA or Geortcha, town, XIV, a 142
Kormak, sagas of (Iceland), XII, b 659
Körner, Christian Gottfried, author (Schiller), XXI, a b 413, a 415
KORNER, Karl Theodor, poet, XIV, a 142-3; (Drama), VII, a 383; (Germany), X, b 485; (Hemans), XI, a 575
Körös, river (Gyoma), XI, *a* 313
Korosko, desert (Nubia), XVII, b 625
KOROTCHA, town, XIV, a 143
KOROTOYAK, town, XIV, a 143
Korrhoinen, Paavo, poet (Finland), IX, b 191
Kors or Courons, tribe (Lithuanians), XIV, a 708; (Russia), XXI, *a* 87
Korsör, town (Zealand), XXIV, a 810
Kortryk, town. See COURTRAI
Korúr, battle of (India), XII, a b 829
Koryaks, tribe (Maritime Province), XV, a 555
Korzeniowski, Joseph, novelist (Poland), XIX, b 316
Kos, island. See Cos
Kösa-dagh, mountain (Transcaucasia), XXIII, b 546
Koschtan Tau, mount (Caucasus), V, a 220
Kosciusko, mountain (New South Wales), XVII, b 418
KOSCIUSKO, Thaddeus, patriot, XIV, a b 143; (Poland), XIX, b 309, a b 310
Kösen, spa (Naumburg), XVII, b 255
Koshaub. See KHUSHÁB
Koshiu-kaido, road (Japan), XIII, a 586
Koshkar, river (Syr-Daria), XXII, a 858
KOSI, town, XIV, b 143
Kosin, chemical principle (Kousso), XIV, b 146
KOSLIN or Cöslin, town, XIV, b 143-4
KOSLOFF or Kozlov, town, XIV, a 144; (Tamboff), XXIII, a 46
Kosmos (Humbolt, A.), XII, b 358, a 359
Kosova or Kossova, plain (Macedonia), XV, b 137, a 138
—— or Cassova, battle, 1389 (Amurath I.), I, a 686; (Servia), XXI. b 721, *b* 722; (Turkey), XXIII, b 682; in 1448 (Amurath II.), I, a 686; (Roumania), XXI, a b 21
Kossæan dynasty. See Cassite
Kossack, people. See COSSACKS
Kossim Ali, khan (Clive), VI, *a* 12
Kossmann, R., naturalist (Parasitism), XVIII, a 266
Kosso, drug. See Kousso
Kossogol, lake (Siberia), XXII, a 10; (Transbaikalia), XXIII, b 541, a 542
Kossuth, Louis, patriot (Abdul Medjid), I, a 36; (Arad), II, b 263; (Austria), III, b 119; (Hungary), XII, *b* 385, *a b* 386, *a b* 387; (Palmerston), XVIII, a 200; (Turkey), XXIII, b 692
KOSTENDIL, Giustendil or Djustendil, town, XIV, a 144
KOSTER or Coster, Laurens, printer, XIV, a 144; (Typography), XXIII, a b 732, a 735, a 736
——, Samuel, poet (Drama), VII, b 383
Köstlin, Julius, theologian (Gospels), X, a 748
Kostomaroff, Nikolaus, historian (Russia), XXI, b 116
KOSTROMA, government and town, XIV, a b 144; (Russia), XXI, a 76, a 83, a 84, a 87; river (Yaroslavl), XXIV, b 767
Kosva, river (Volga), XXIV, b 299
Koszta, Martin, refugee (Consul), VI, b 281; (Marcy), XXIII, a 839; (United States), b 819
Kot Adu, town (Muzaffargarh), XVII, a 121
Kot massacre (Nepāl), XVII, a 354
KOTAH, state, XIV, b 144-5; (Jhalawar), XIII, b 700
Kotaiba b. Moslim, general (Mohammedanism), XVI, a 595, a b 596; (Turks), XXIII, b 701
——, ibn, historians. See Ibn Kotaiba
Kotas, township (Sumatra), XXII, b 672, note
——, tribe (Nilgiri Hills), XVII, a 522
KOTHEN or Cöthen, town, XIV, a 145; (Anhalt), II, *a* b 43
Kotliarevski, Ivan, poet (Russia), XXI, a 118
Kotlin, island (Cronstadt), VI, b 536-7
Kotmale, district (Ceylon), V, b 312, *b* 313
Kotorost, river (Yaroslavl), XXIV, b 767
Kotoshikhin, Gregory Karpoff, author (Russia), XXI, b 113
Kotran or Phukok, island (Cambodia), IV, b 641
Kotrang, town (Hooghly), XII, a 151
KOTRI, town, XIV, a 145
Kotschubeyite (Mineralogy), XVI, b 431
KOTTBUS or Cottbus, town, XIV, a 145
Kottiar, bay (Ceylon), V, b 312
Köttigite (Mineralogy), XVI, b 421
Kotur, fort (Persia), XVIII, a b 627
KOTZEBUE, August Friedrich, Ferdinand von, dramatist, XIV, b 145-6; (Drama), VII, b 382; (Germany), X, a 453, a 484; (Görres), b 699; (Metternich), XVI, b 209
KOTZEBUE, Otto von, navigator, XIV, a 146; (Geography), X, b 172
Koubr, mausoleum (Architecture), II, b 367 note
Koubrat, Bulgarian prince (Slavs), XXII, a 156
Kouen lun, mountains. See KUEN-LUN
Kouis, tribes (Siam), XXI, b 892
Koulan, animal (Ass), II, b 626
Koumiss, liquor (Brewing), IV, b 236; (Distillation), VII, a 230; (Milk), XVI, b 318
Kourbski, nobles. See Kurbski
Kourliuk, khan (Calmucks), IV, *a* 629
Kourou, river (Guiana), XI, a 226
Koushid Khan Kala, fort (Merv), XVI, a b 47
KOUSSO, Kosso or Cusso, drug, XIV, a b 146
Kouyimjik, ruins. See Kuyunjik
Kováco, Paul, novelist (Hungary), XII, b 394
Kovalevski, Mikhail, historian (Russia), XXI, a 117
KOVNO, province, XIV, b 146-7; (Russia), XXI, a 76, b 82, b 87, a 88
KOVNO or Kaune, town, XIV, a 147
KOVROFF, town, XIV, a 147
Kowait, town (Bussorah), IV, a 515
Kowalevskia, genus (Tunicata), XXIII, a 654
Kowalevsky or Kovalewsky, Alexander, naturalist (Animal Kingdom), II, *b* 47, b 48; (Brachiopoda), IV, a b 170, b 172; (Cœlentera), VI, b 98, notes; (Mollusca), XVI, a 655; (Tunicata), XXIII, b 647, b 658; (Vertebrata), XXIV, b 193, b 194, *b* 203; (Zoology), *b* 849, a 850
Koweyt, port (Arabia), II, a 205, b 210
Kow tow, etiquette (China), V, b 564, b 565
Koxinga, king of Formosa (China), V, *b* 564
Koyakhai, river (Puri), XX, a 121
Koyter, Volcher, farrier (Veterinary Science), XXIV, a 214
Koyunjik. See Kuyunjik
Kozah, princes of (Priest), XIX, a 749
KOZELSK, town, XIV, a b 147
Kozloff, town. See KOSLOFF
—— Ivan Ivanovitch, poet (Russia), XXI, b 115
Krá, isthmus of (Malay Peninsula), XV, *a* b 323, note a 324, a 325; (Siam), XXI, b 890
Kraals, villages (Hottentots), XII, a 324; (Zululand), XXIV, b 867, a b 868
KRAFFT, or Kraft, Adam, sculptor, XIV, b 147; (Nuremberg), XVII, b 681, a b 682; (Sculpture), XXI, a 592, a 593 note

Krafft, of Hohenlohe-Ingelfingen, prince (War), XXIV, b 378, a 379, note, *a b* 380, b 381, a 382, a 384
Kragushevatz, town (Servia), XXI, a 720
Krainburg, village (Carniola), V, *a* 107
Krait, species (Snakes), XXII, b 207
KRAJOVA or Crajova, town, XIV, b 147
Krakatoa (Vesuvius), XXIV, b 212; eruption of (Sunda Islands), XXII, b 687
Krakov, town. See CRACOW
Kralodworsky Rukopis, poems, (Hanka), XI, b 393
Králové Hradec, town (Königgrätz), XIV, b 139
Krama, language (Java), XIII, *b* 618
Kramer and Sprenger, inquisitors (Witchcraft), XXIV, b 653
Kramp, Chrétien, mathematician (Tables), XXIII, b 19
Krán, coin (Persia), XVIII, a 633, b 641
Kranaoi, people (Greece), XI, *b* 86
Kranichfeld, district (Saxe-Meiningen), XXI, b 363
KRANTZ or Crantz, Albert, historian, XIV, b 147
Krantzite (Mineralogy), XVI, a 447
Krapacks, mountains. See CARPATHIAN
Krasheninnikoff, explorer (Kamchatka), XIII, b 841
Krasicki, Ignatius, bishop (Poland), XIX, b 314
Krasinski, Sigismund, poet (Poland), XIX, b 315–6
Krasnoe Selo, town (Russia), XXI, b 103; (St. Petersburg), *b* 199
Krasnohorska, Eliska, poetess (Slavs), XXII, a 162
Krasnovodsk, district and town (Russia), XXI, b 76, notes; (Transcaspian), XXIII, b 543, a 544, b 545; town (Merv), XVI, b 43
KRASNOYARSK, town, XIV, b 147–8; (Siberia), XXII, b 9 note, b 10, *a* 11, a b 16, a 18; (Yeniseisk), XXIV, a b 779, *a* b 780
Kraszewski, Joseph Ignatz, novelist (Poland), XIX, b 316
Kraurite (Mineralogy), XVI, a 422
Kraus, Christian Jacob (Political Economy), XIX, a 401
Krause, J. G. (Periodicals), XVIII, b 551
——, W., physician (Anatomy), I, b 756, b 780
Krause's end bulbs (Touch) (Ill.), XXIII, b 509-10, b 512
Kraussina sub-family (Brachiopoda), IV, a 173, a b 176
Kreasol, drug (Guaiacum), XI, a 205
Kreasote. See CREASOTE
Kreck, Gregor, ethnologist (Slavs), XXII, *b* 155
Kreel houses, Highland (Ireland), XIII, a 262
Krefeld, town. See CREFELD
Kreil (Meteorology), XVI, a b 186
Kreise, circles (Prussia), XX, b 22, a 23
Kreishauptmannschaften (Saxony), XXI, a 375
Kreiss, Sophie, matron (Wurtz), XXIV, b 738
Kreittonite (Mineralogy), XVI, a 402
Krelí land (Kaffraria), XIII, a b 826
KREMENETZ, town, XIV, a 148
KREMENTCHUG, town, XIV, a 148; (Poltava), XIX, *a* 424
Kremer, orientalist (Tabirí), XXIII, b 6 note
Kremer's process (Coal Tar Colors), XVIII, b 901
Kremersite (Mineralogy), XVI, a 400
Kremlin (Astrakhan), II, b 645; Moscow (Gourgand), XI, b 6; (Moscow), XVI, b 883–4, a b 887; (Mongols), a 775; of Novgorod, XVII, a 622; of Tobolsk, XXIII, *b* 458
KREMNITZ, town, XIV, a b 148
KREMSIER, town, XIV, b 148
Kremsmünster Observatory, XVII, b 733
Krenkel, Max (Acts of the Apostles), I, b 117
Krenner, J. A., geologist (Geology), X, a 240 note
Kresa, father, linguist (Trigonometry), XXIII, b 597
Krestovskiy, island (St. Petersburg), XXI, a 200, *a* 202
Krestowaja Gora, pass (Caucasus), V, b 220, a 221, a 222
Kresznerics, lexicographer (Hungary), XII, a 390
Kreussen ware (Pottery and Porcelain), XIX, a b 650
Kreutz and Ongania Illustrations (Venice), XXIV, a b 170
KREUTZER, Conradin, musician, XIV, b 148
KREUZNACH, town, XIV, b 148–9
Krevichian dialect (Slavs), XXII, a 158
Kriebelkrankheit, disease (Pathology), XVIII, a 417
Krieg auf der Warthburg (Germany), X, b 470
Kriemhild, queen (Germany), X, b 469; (Nibelungenlied), XVII, a *b* 488, *a* b 489
——, cutter (Yachting), XXIV, b 759, b 760
Kries, G., economist (Political Economy), XIX, a 406
Kriloff, town (Novogeorgievsk), XVII, b 623
KRILOFF or Kruiloff, Ivan Andreevitch, fabulist, XIV, a b 149; (Russia), XXI, a 115
Krimmitzschau, town. See CRIMMITZSCHAU
Krim Tatars (Mongols), XVI, a b 775
Krimbang, mountains (Borneo), IV, a b 50
Krimtchaks, Jews (Karasu-Bazar), XIV, b 5
Krio, Cape (Cnidus), VI, a 43
Kris, weapon (Java), XIII, a 615, note
Krishna, deity (Brahmanism), IV, b 187, a 189; (Hindustani Literature), XI, b 754, a *b* 755–6; (Sanskrit), XXI, *a* 295, *a* 296, *a* 299
——, district and river. See KISTNA
KRISHNAGAR, town, XIV, b 149
Krishnamisra, poet (Sanskrit), XXI, a 300
Krist, Otfrid's (Germany), X, a 468
Kristni Saga (Iceland), XII, b 660
Kritik der Reinen Vernunft (Germany), X, a 483; (Locke), XIV, a 760
—— *of Judgment* (Æsthetics), I, b 195; (Kant), XIII, a 857, a b 864; (Metaphysic), XVI, b 90
Kritik of Practical Reason (Kant), XIII, a 857, a 864; (Metaphysic), XVI, a b 90
Kritik of Pure Reason (Jacobi), XIII, a 548; (Kant), b 854, a 857, *b* 858, b 859, a b 860, a 861, a b 863, b 864; (Metaphysic), XVI, a b 88, a 90, a 91; (Scepticism), XXI, b 400, note, a 401
Kritische Briefe, Marpurg's (Pianoforte), XIX, b 80
Kritisches Journal (Schelling), XXI, a 407
Krittika, constellation (Zodiac), XXIV, *b* 832, *a* 833
Krivitchi, tribe (Lithuanians), XIV, a 708
Kriza, John, poet (Hungary), XII, b 393, note
Krizhanich, Yuri, grammarian (Russia), XXI, b 113
Krkonose, mountains (Riesengebirge), XX, b 566–7
Krobat or Kubrat, king (Huns), XII, b 397
Krohn, August Z., zoologist (Tunicata), XXIII, b 647, b 658
Krokidolite (Mineralogy), XVI, a 387, b 435
KROLEVETZ, town, XIV, b 149; (Tchernigoff), XXIII, a 103
Krolewiec. See KONIGSBERG
Król limestone (India), XII, b 773
Kromer, Martin, chronicler (Poland), XIX, *a* 297, *a* b 298, *a* b 299, *a* b 300, a b 301, b 302, b 312
Krönlein, G., missionary (Hottentots), XII, a 326
Kronoberg, province (Sweden), XXII, b 777, a 778, b 780
Kronstadt, town. See CRONSTADT
Kropotkine, Petr Alexeievitch, prince (Socialism), XXII, a 228. See List of Contributors
Krostensgrus or moraine (Sweden), XXII, b 778
KROTOSCHIN, town, XIV, b 149
Kroumir, tribes (Tunis), XXIII, b 661
KRUDENER, Barbara Juliana von Wietinghoff, baroness von, mystic, XIV, b 149–50; (Canning), IV, a 715
——, general (Fortification), IX, *a* 380
Kruegers' *Codex* (Justinian I.), XIII, b 804
Kruger, S. J. Paul, president (Transvaal), XXIII, *a* 552
Kruiloff. See Kriloff
KRUMEN or Krus, people, XIV, a 150
KRUMMACHER, Friedrich Adolf, divine, XIV, a b 150
KRUMMACHER, Friedrich Wilhelm, divine, XIV, b 150
KRUMMACHER, Gottfried Daniel, pietist, XIV, b 150
Krummholz or Knieholz, shrub (Pine), XIX, b 112
Krummhorn, instrument (Tournebout), XXIII, b 520
Krümpersystem (Scharnhorst), XXI, a 404
Krünen, town. See CRONSTADT
Krung-Krao or Ayuthia, town (Siam), XXI, b 892, *a* b 894
Krupp guns (Arsenal), II, b 554; (Essen), VIII, a 436; (Germany), X, a 408; (Gunmaking) (Ill.), XI, a b 257, a b 258, *a* 259; (Gunnery), b 273, b 274, b 279–80; system of Artillery, II, b 581, a 582
Krupp's dephosphorizing process (Iron), XIII, b 358; puddling process (Iron), a 335
Krus, tribes. See KRUMEN
Kruse, Friederich Karl H., historian (Greece), XI, a b 75, b 79, a 81
KRUSENSTERN, Adam John, admiral, XIV, b 150; (Saghalin), XXI, a 156
Krusinski, Jesuit missionary (Persia), XVIII, b 650, b 651, note, a 652, b 665
Krût, cheese (Afghânistân), I, b 209
Kryloff. See KRILOFF
Krym. See CRIMEA
Kryokonite, mineral (Greenland), XI, a 149
Krypteia, custom (Slavery), XXII, b 139
Krzezowice, village (Cracow), VI, a 480
Kshatriyas, caste (Brahmanism), IV, b 183, *a b* 184, a 185, *b* 187, a 190; (Caste), V, a *b* 164, *a b* 165, *a* b 166, *a* 167; (India), XII, *a b* 821, note; (Oudh), XVIII, b 75
Kshemankara or Kshemendra, poet (Sanskrit), XXI, a 301
Ktöuspal, mountain (Saghalin), XXI, a 155
Kto Vinoval? (Hertzen), XI, *a* 691
Kuango, river (Zaire), XXIV, a 803
Kuansei, provinces (Japan), XIII, b 579
Kuantô, provinces (Japan), XIII, b 579
Kuazoku, class (Japan), XIII, a 589
KUBA or Kudial-Kala, town, XIV, b 150-1
——, weight (Liberia), XIV, a 508
Kubadian, town (Hissar), XII, b 5
KUBAN, district and river, XIV, a b 151; (Russia), XXI, b 76, note
——, river, XIV, a 151; (Black Sea), III, b 691, b 692; (Caucasus), V, a 220, a 221, b 223; (Circassia), a 688, a b 689; (Russia), XXI, a 81

Kubasoff, Sergius, chronicler (Russia), XXI, a 113
Kubenskoye, lake (Russia), XXI, b 80
KUBLAI KHAN, ruler, XIV, b 151-2; (China), V, a b 562; (Japan), XIII, a 592; (Mongols), XVI, a 769; (Peking), XVIII, a 480, b 481; (Polo), XIX, *a* b 418, a *b* 419, a b 421; (Tibet), XXIII, b 367
Kubla Khan (Poetry), XIX, b 282
Kubrat, chief. See Krobat
Kubus, race (Sumatra), XXII, b 673
KUCHAN, town and district, XIV, b 152-3
KUCH BEHAR or Coosh Behar, state and town, XIV, a b 153; state (India), XII, b 830-1
Küchenmeister, Friedrich, naturalist (Parasitism), XVIII, a 263; (Tapeworms), XXIII, a 55, b 58
Kuching, town (Sarawak), XXI, *a* 322
Kudat, harbor (Sabah), XXI, *a* 132
Kudiakad, mountain (Nilgiri Hills), XVII, a 522
Kudial-kala, town. See KUBA
Kudriavtzoff, Petr N., historian (Russia), XXI, b 116
Kuduremukh, mountain (Kadur), XIII, b 824
Kuenen, Abraham, theologian (Bible), III, a 560; (Daniel), VI, *a* 710; (David), a b 740; (Decalogue), VII, *a* b 16, b 17; (Esther), VIII, b 494, b 495; (Jonah), XIII, b 747; (Pentateuch), XVIII, b 519, note, a 524; (Psalms), XX, b 39; (Religions), b 380, b 383, a 384; (Synagogue), XXII, a 851
KUEN-LUN or Kiun-Lun, mountains, XIV, b 153-4; (Asia), II, a 598; (Jade), XIII, b 549; (Tibet), XXIII, a 359, a b 360, a 363
Kúfa, city. See CUFA
Kufara or Kufra, oasis, XVII, a 715; (Tibbus), XXIII, a *b* 355 note
Kuftgari (Inlaying), XIII, a 88
Kug-aral, island (Aral), II, b 268
Kuhak, district (Persia), XVIII, b 629
Kuh-Banán, plateau (Kirmán), XIV, b 101
Kuh Dinár, mountains (Persia), XVIII, b 630
Kuh-Hazar, mountain (Kirmán), XIV, b 102
Kuhländchen, valley (Neu-Titschein), XVII, b 375
Kuhlau, Frederick, composer (Denmark), VII, b 82
Kuhn, island (Greenland), XI, b 149, a b 150, note
——, E., orientalist (Pâli), XVIII, b 187, a 190
Kuhna Shahr, town. See KASHGAR
Kühn, Adalbert, philologist (Ethnography), VIII, a 548; (Hermes), XI, *a* b 670; (Slavs), XXII, a 157
Kuhnite (Mineralogy), XVI, a 421
Kuhorn, Martin, reformer. See BUCER
Kuhschwanz, drink (Delitzsch), VII, a 46
Kuilu river (Loango), XIV, b 748
K'ulun, town (Urga), XXIV, b 15
KUKA or Kukawa, town, XIV, a b 154; (Africa), I, a 243; (Bornu), IV, *a* 55; (Soudan), XXII, b 292
Kuki Hills. See Lushai Hills
Kukis, tribe (Lushai Hills), XV, *a* 71
Ku Klux Klan, disconstruction party (Republican Party), XX, a 907; (United States), XXIII, b 832
Kuknuddín Kurt, sultan (Ghúr), X, b 509
Kukri, weapon (Sword)(Ill.), XXII, b 840, a 841
KUKU KHOTO, city, XIV, b 154
Kulab, town (Hissar), XII, a b 5
Kulabagh, town. See KALABAGH
Kulase Kharapatnam, town (Tinnevelli), XXIII, b 431
KULDJA, towns, XIV, b 154-5; (Ili), XII, *a b* 741
Kulik, river (Dinajpur), VII, b 210
Kúlí Khán, Imán, general (Persia), XVIII, a 650
Kulikovo, battle of, 1380 (Moscow), XVI, a 887
Kulik's *Tafein* (Tables), XXIII, b 12, b 18
Kulin Brahmans, people (Jessor), XIII, a 656
Kulish, Panteleimon, author (Russia), XXI, b 118
Kulja, district (Turkestan), XXIII, b 677
Kulliyāt (Hindustani Literature), XI, a 757
KULLU, valley, XIV, a b 155
KULM, town, XIV, b 155; battle, 1813, b 155, note
Kulmas, Luise Adelgunde Victorie, authoress (Gottschalk), X, b 760-1
KULMBACH, town, XIV, b 155
Kubrat, chief. See Krobat
Kulp, river (Tigris), XXIII, *a* 413
Kulpi, town (Transcaucasia), XXIII, b 516
Kulu, river (Senegal), XXI, a 692
Kuluglis, people (Tripoli), XXIII, a 612; (Tunis), a 660
Kuluk Khan (Mongols), XVI, a 769
KUM, city, XIV, b 155; (Persia), XVIII, b 637, a 639, b 640
Kuma, bay of (Caspian Sea), V, *b* 154; river (Caucasus), b 221; (Russia), XXI, a 81; (Stavropol), XXII, *b* 489
Kumandinsk steppe (Tomsk) XXIII, b 466
Kumar, river (Teredo), XXIII, b 202
Kumárasambhava (Kálidása), XIII, b 838
Kumarila Bhatta, theologian (Sanskrit), XXI, b 303
Kumassi, town. See COOMASSIE
KUMÁUN or Kumaon, district, XIV, a 156; (Himalayas), XI, a 735, *a* 737, b 741, a 742, *a b* 743; (N. W. Provinces), XVII, b 585, a b 586, a 587
Kumbh-Mela, festival (Badrinath), III, b 197; (Hardwár), XI, a 425
Kumbur, chief (Baluchistan), III, *a* b 259
Kümmel (Liqueurs), XIV, *a* b 693
Kummer's ideal number (Numbers), XVII, a 630, a 638
Kumo, river (Finland), IX, b 183
KUMPTA or Coomptah, town, XIV, a b 156
Kumsa, river (Onega), XVII, b 794
Kumâra-sambhava (Sanskrit), XXI, b 297, note
Kumurgi, Ali, sultan (Greece), XI, b 108
Kunar, basin (Hindú Kúsh), XI, a b 748, *a* 749
Kunawat, town (Druses), VII, b 417
KUNCH, town, XIV, b 156
Kúnda, mountain (Nilgiri Hills), XVII, a 522
Kundt's experiments, August (Acoustics), I, b 108
Kunduz, province (Afghânistân), I, b 216, b 217, b 218, *a* 219; river (Afghânistân), b 216-7; (Hindú Kúsh), XI, *a* 749; town (Afghânistân), I, a b 217
Kûner or Kâma, river (Afghânistân), I, a 205
Kunersdorf, battle of, 1759 (Austria), III, a 112; (Frederick II.), IX, b 648; (Russia), XXI, a 107
Kunga-Skald (Sweden), XXII, b 793
K'ung Fu-tze, sage (Confucius), VI, b 330
Kungsholmen, district (Stockholm), XXII, b 587
KUNGUR, town, XIV, b 156; (Perm), XVIII, b 561, a 562
Kunhár, river (Punjab), XX, b 112
Kunigunde, queen (Ordeal), XVII, b 843
Kunkel or Kunckel, Johann, chemist (Alchemy), I, *b* 413; (Chemistry), V, a 399; (Glass), X, b 583, b 595
Kuntampoh, town. See QUANTAMPOH
Kunung or Lutz tribes (Tibet), XXIII, a 365
Kuopio, provincial statistics (Russia), XXI, a 76
Kupang, town (Timor), XXIII, b 424
Kuparento, Jordaki (Aëronautics), I, b 181
Kupferblau, mineral (Mineralogy), XVI, b 428
Kupfer-schiefer rocks (Geology), X, *b* 311, *a* 312
Kupffer, Carl, anatomist (Tunicata), XXIII, b 647, b 658
Kuphi, decoction (Incense), XII, b 757, note
Kupper Snake, XXII, a 210
Kur, river (Caucasus), V, *a* 219, a 221
Kura, river (Russia), XXI, a 81; (Transcaucasia), XXIII, *b* 545, *a* b 546, *b* 547
Kural, poem (Tamils), XXIII, b 48
Kuram, pass (India), XII, b 770
Kurama, district (Syr-Daria), XXII, b 859, a 860
Kurán valley (Hindú Kúsh), XI, b 748, *a* 749
Kurbski, Alexander, prince (Russia), XXI, a 113
——, Andrew, prince, soldier (Russia), XXI, a 101
Kurd Dictionaries, VII, a 165; language (Persia), XVIII, a 668
KURDISTAN, country, XIV, b 156-61
    antiquities, b 159-60
    character, a b 158
    fauna, b 159
    geography, b 156-7
    history, a 160-1
    language, b 158
    population, a 157-8
    productions and climate, a b 159
    religion, b 158-9
    taxation, b 159
—— (Nestorians), XVII, a 366
Kurds (Asia Minor), II, a b 622; (Khorásán), XIV, *a* 69; (Kúrdistán), b 156, a b 157, a b 158, a b 159-61; (Mesopotamia), XVI, a 54; (Mosul), a 896; (Nestorians), XVII, *a b* 366; (Transcaucasia), XXIII, a 547
Kuren, town. See KULDJA
Kuren-Dagh, highland system (Khorásán), XIV, a b 68
KURGAN, town, XIV, a 161
Kurgans or burial mounds (Kertch), XIV, a 55; (Scythia), XXI, b 603
Kurhessen. See HESSE CASSEL
Kurhurbali Coal-field, VI, b 55
Kuri, race (Soudan), XXII, a 292
KURILE ISLANDS, XIV, a b 161; (Japan), XIII, a b 578, b 579, a 580, a 583
Kurinians, tribe (Lesghians), XIV, a 475
Kurische Haff (Germany), X, a 402, a 404
Kúrk, wool (Persia), XVIII, a 637
Kurkus, tribe (India), XII, a 817
Kurland, province. See COURLAND
Kurnai, people (Mythology), XVII, *b* 153
Kuro siwo current (Formosa), IX, a 367; (Pacific Ocean), XVIII, a 122; (United States), XXIII, b 855. See Japan current
KURRACHEE or Karáchi, district, XIV, b 161-2
KURRACHEE, town, XIV, a 162; (Bombay), IV, a 20, b 21, a 22; (India), XII, a b 795; (Nearchus), XVII, b 314; (Shark), XXI, a 816
Kurram, river (Afghânistân), I, b 206, a 208, a 209, b 210; (Punjab), XX, b 112, a 116
KURSK, government, XIV, a b 162; (Russia), XXI, a 76, *b* 79, 83, a 84, a 88, b 90; town, XIV, b 162
Kursner, theologian. See PELLICANUS

Kurt or Kărt dynasty (Ghúr), X, b 509; (Herat), XI, a 639
Kur-tax (Heligoland), XI, a 564, note
Kurtidæ, family (Ichthyology), XII, a 716, b 727
Kurtka, valley (Syr-Daria), XXII, b 857
Kurtzel, August, editor (Encyclopædia), VIII, b 185
Kuru-Kuh range (Kum), XIV, b 155; (Persia), XVIII, b 630
Kuruman mission (Livingstone), XIV, b 726
Kurumbas, tribe (Nilgiri Hills), XVII, a b 522
Kurunegala, district (Ceylon), V, a 315
Kuryanin-kara, mountains (Transcaspian), XXIII, b 543
Kusaie, island (Polynesia), XIX, b 442
Kusch-dagh, mountain (Asia Minor), II, b 617
Kush, tribe (Mesopotamia), XVI, b 55. See Cush
Kushadassi, town (Scala Nova), XXI, a 377
Kushān, district (Turks), XXIII, b 701; pass (Afghânistân), I, *b* 204; (Hindú Kúsh), XI, a b 748, a 749
Kushlek, khan (Jenghiz), XIII, *a* b 632; (Prester John), XIX, a 736, note
Kusí, river (Bhágalpur), III, a 541; (Purniah), XX, *a* 122
Kusiára river (Sylhet), XXII, b 848
Küssnacht, bay of (Lucerne), XV, *b* 43; town (Schwyz), XXI, *a* b 486
Kustari-industries (Russia), XXI, b 94
KUSTENDJE or Küstendjie, town, XIV, b 162
Küstenland, district (Trieste), XXIII, a 596
KUSTRIN or Cüstrin, town and fortress, XIV, b 162
Ku-Su, town. See SU-CHOW
Kusuga temple. See Temple of Nara, Japanese
Kuszusmare, town (Bukowina), IV, a 461
Kuta, river (Soudan), XXII, *b* 290
Kuta Ardja, temple caves (Java), XIII, a 620
Kutab Minár, pillar (Delhi), VII, b 42, a 43
Kutab-ud-dín, king. See Kutbuddin
KUTAIAH, Kiutahia or Kutaya, town, XIV, a 163; treaty of, 1833 (Turkey), XXIII, b 691
KUTAIS, town, XIV, a 163; (Caucasus), V, a 221, *b* 222; government and town (Russia), XXI, b 76, note; (Transcaucasia), XXIII, *b* 545, *b* 546, *a* 547
Kutbuddín Aibak, emperor of Delhi (Gaur), X, b 101; (Delhi), VII, a 43; (Hindūstānī), XI, a 750; (India), XII, a 832
—— Mahommed, amir (Ghazni), X, b 501; (Ghúr), a 509
Kutcha-denghiz, lake (Syr-Daria), XXII, b 858
Kutchi, mountains (Montenegro), XVI, a b 806
Kutchin, tribe (Caste), V, b 163
Kutchuk-Kainardji, treaty of, 1774 (Russia), XXI, a 103; (Turkey), XXIII, b 688
—— Mender, river (Asia Minor), II, a 619
—— - Stambul, town (Theodosia), XXIII, a 277
Kutchum, fort of (Tobolsk), XXIII, b 458
Kuteera Gum, XI, a 244
Kuthy, Lewis, novelist (Hungary), XII, b 394
Ḳuti or Mahakkan, river (Borneo), IV, b 50, a b 51
KUTTENBERG, town, XIV, a 163
Kutubía Mosque (Morocco), XVI, a 862
Kutulmish, prince (Seljúks), XXI, a 668, note
Kutusoff, Mikhail, prince (Napoleon I.), XVII, *b* 216, b 223, a 224
KUTY, town, XIV, a 163
Kutz, sultan (Egypt), VII, *b* 655
Kuxhaven, town. See CUXHAVEN
Kuyúnjik, mounds (Architecture), II, *b* 348, a *b* 349; (Nineveh), XVII, a *b* 525, note
KUZNETSK, district town, XIV, b 163
Kuznetskiy Alatau, mountains (Tomsk), XXIII, a b 466; (Yeniseisk), XXIV, a *b* 779
Kvalö, island (Hammerfest), XI, a 381
Kvänes, race (Russia), XXI, a 87
Kvass or quass, liquor (Brewing), IV, b 236
Kvirilia, river and mines (Transcaucasia), XXIII, b 545, a 547
Kwa or Kassai, river (Zaire), XXIV, a 803
Kwala Lumpur, town (Straits Settlements), XXII, a 616
Kwali, kettle (Gutta Percha), XI, a 302
Kwandaug, bay (Celebes), V, a 252
Kwang-Chow Foo. See CANTON
Kwang-lun, Mountains (China), V, b 547, b 551
Kwang-se, province (China), V, a 548, *b* 549, a 556, a 559, b 560, b 564, *a* 566, a 581
Kwang-Seu, Tsing emperor (China), V, b 566, a 567
Kwang-tung, province (China), V, a 548, b 555–6, a 559, b 561, a 581
Kwang-woo-te, emperor (China), V, a 560
Kwannon templé (Tokio), XXIII, b 461
Kwei-chow, province (China), V, b 553, a b 556, b 564
Kwei-hwa-tcheng, town (Kuku Khoto), XIV, b 154
Kwei Keang, river (China), V, a 556
Kwei-ling Foo, department (China), V, a 556
Kwei-yang Foo, district (China), V, a 556
Kwichpak, river (Alaska), I, b 393
Kwo P'oh, antiquary (Wan-Chow Fu), XXIV, b 363
Kworra, river. See Quorra
Kyan-kheug, town (Henzada), XI, b 604
Kyanol (Aniline), II, b 43
Kyburg, family of (Freiburg), IX, a 671
Kyd, jurist (Corporation), VI, a 383, b 384
——, Thomas, dramatist (Drama), VII, a 371; (Shakespeare), XXI, b 799
Kyen-dwen, river (Burmah), IV, a 492, a 493
Kye-páng, god (Tibet), XXIII, a 366
Kyide, king (Tibet), XXIII, *b* 367
Kyim-shang, princess (Tibet), XXIII, a 367
Kylas or Kailasa cave (Architecture) (Ill.), II, b 346
Kyle, district (Ayr), III, *b* 141, b 142
—— Rhea, strait (Bute), IV, b 516, a 517; (Skye), XXII, b 134–5
Kyloes cattle (Agriculture), I, a b 345
Kymograph (Vascular System), XXIV, a 106, a b 116; (Zoology), b 855
Kyng, Johan (Drama), VII, b 359
KYOUK-HPYU, district, XIV, b 163
Kypassis, dress (Costume), VI, b 401
Kyrosite (Mineralogy), XVI, b 406
Kyrre, Olaf, king. See Olaf Kyrre
Kyteter, Alice, witch (Witchcraft), XXIV, a 656
Kythal, town. See KAITHAL
Kyuren, mountains (Transcaspian), XXIII, b 543

L, letter, XIV, a 163–4; (Tamils), XXIII, a 47
Laacher See (Geology), X, b 223; (Prussia), XX, a 25
Laar, Pieter van, painter. See LAER
LA BADIE, Jean de, theologian, XIV, a b 164
LABADISTS, sect, XIV, a b 164
Labarte, M. J., antiquarian (Glass), X, a 581, b 583
LABARUM, banner, XIV, b 164; (Constantine), VI, a 267, a 268
La Bastie, Sieur de, warden (Scotland), XXI, *b* 519, a 520
Labat, Père, traveller (Guillotine), XI, b 233
Labbays, race (India), XII, b 784; (Madras), XV, b 186
Labe, river (Elbe), VII, a b 717
Labé, Louise, poet (France), IX, a 573
Labechia, genus (Corals), VI, a 334, b 337
Labédoyère, Charles Angélique Huchet, count, general (France), IX, a 545
Label in Heraldry (Ill.), XI, a 629
——, moulding (Architecture), II, a b 410
Labels for plants (Horticulture), XII, a 240
Labem, town. See AUSSIG
LABEO, Marcus Antistius jurist, XIV, b 164–5; (Roman Law), XX, b 697
——, Pacuvius Antistius, jurist, XIV, b 164
Läber or Lauber, Dypold, transcriber (Typography), XXIII, *a* 725
LABERIUS, Decimus, author, XIV, b 165
Laberinto, El, poem (Mena), XVI, a 5
Labial tentacle (Mollusca), XVI, b 713–4
Labialism, phonetic (Celtic Literature), V, b 258–9; (Greece), XI, a 117; (K), XIII, b 819; (Speech Sounds), XXII, a 398
Labials (Hieroglyphics), XI, b 711–2
Labiatæ, order (Botany), IV, a 113, *a* b 116, a 119, a 121, a 125, b 128, a 131, b 132, b 137, a 140, a 141; (Hyssop), XII, b 634; (New South Wales), XVII, b 420; (Spain), XXII, a 311
Labicana Via (Rome), XX, b 829
Labicum, town (Latium), XIV, *b* 344, a 345
Labíd, poet (Mo'allakát), XVI, a 561, b 562
Labienus, Quintus, general (Persia), XVIII, a b 608
LABIENUS, Titus, general, XIV, b 165–6; (Paris), XVIII, b 292
Labio-dental consonant (V), XXIV, a 27, *a* 28
Labium of spiders (Arachnida), II, b 256
Lablache, Louis, singer (Balfe), III, *b* 241
La Boétie, Etienne de, writer (France), IX, b 576
LABOR AND LABOR LAWS, XIV, a 166–75
  ameliorating laws, subsidiary, b 175
  ancient history, a b 166
  arbitration, a b 174
  colonial legislation, b 171–2
  contracts, restrictions on, a 172–3
  definition, a 166
  Employers' Liability Act, b 174–5
  European states, modern, a 172, a 174
  India, modern, a 172
  James I. to Victorian period, a 170–1
  livret system, b 173
  Master and Servant Act, Elcho's, a b 171
  mediæval English legislation, a 167–8
  payment of wages, b 172–3
  remedies at law, breach of contract, b 173–5
  social status, early, b 166–7
  Tudor legislation, b 168–70
  United States, a 172
—— (Agriculture), I, b 362–3, b 367; (Alcohol), b 416; (Communism), VI, b 193–4; (Dockyards), VII, b 276; (International), XIII, b 195–6; (Italy), b 464; (Lassalle), XIV, a 322; (Mining), XVI, a b 469; (Rodbertus), XX, a b 632; (Russia), XXI, a b 94; (South Carolina), XXII, a 302; (Suicide), XXII, b

LABOR AND LABOR LAWS, *continued* 664; (United States), XXIII, a b 835; (Value), XXIV, a b 55, a b 56; (Wages), b 426-33; (Wealth), b 487-8; (Workingmen in U. S.), b 915-21
—, Benedictine rule of (Monachism), XVI, b 730, a 732; British view of (Political Economy), XIX, b 394; classification (Technical Education), XXIII, b 113
— contract (Conspiracy), VI, a b 262; (Georgia), X, b 391; (Reformatories), XX, b 899-900, b 902, a 903; in the South Seas (Slavery), XXII, b 151
—, convict (Dockyards), VII, a 271, b 272; (Prison Discipline), XIX, a b 767, b 769-70, b 774, a b 775; (Reformatories), XX, b 899-900, b 902, a 903; Austrian (Prison Discipline), XIX, b 777; Belgian (Prison Discipline), a 778; French (Prison Discipline), b 779; German (Prison Discipline), a b 780; Italian (Prison Discipline), b 780; Mexican (Prison Discipline), a 781; Netherlands (Prison Discipline), a 781; Norwegian (Prison Discipline), a 781; Russian (Prison Discipline), a b 782; Sweden (Prison Discipline), a 783; Swiss (Prison Discipline), a 783; United States (Prison Discipline), b 783; (Workingmen in U. S.), XXIV, b 918
—, corporate employment of (United States), XXIII, b 834, a 835; continuousness of (Workingmen), XXIV, b 917
— diet (Baking), III, a 223; (Dietetics), VII, b 175-7, a 182-5
—, division of (Cutlery), VI, *a* 648; (Political Economy), XIX, a 402; (Technical Education), XXIII, a b 113; (Typography), 756; Smith on (Political Economy), XIX, a 380, a 381, b 382; effect of Patents on, XVIII, a 875, a 878, a b 884
—, emancipation of (Cistercians), V, b 693; (Slavery), XXII, b 143-5; (Socialism), b 218, b 229-30, b 231-2
—, European, incompetent (Patents), XVIII, b 878, b 882; forced (Canal), IV, a b 698
—, foreign, in United States (Free Trade), IX, b 668-9; (United States), XXIII, b 874
—, hours of (Workingmen in U. S.), XXIV, b 918
—, importation of (Tahiti), XXIII, a 28
— laws (Coal), VI, a b 73; (Gaming), X, a b 60-1; (Sunday), XXII, *a* b 689
—, mediæval (Agriculture), I, a 262
— notes, currency (Socialism), XXII, b 222
— organization (Co-operation), VI, a 301-2; (International), XIII, b 195-6; (Political Economy), XIX, b 414; (Trade Unions), XXIII, b 530-4; (Workingmen in U. S.), XXIV, a 919-20, a 921; in Roman Empire (Slavery), XXII, b 143-5. See Workingmen
—, pauper (Poor Laws), XIX, a 477, b 479, a 480, a 482, b 485
—, profits of (Capital), V, b 65; protection of (Free Trade), IX, b 663, a 664; (Government), XI, b 17-8; restraint of (Trade Unions), XXIII, b 533
—, the source of value (Rodbertus), XX, a 632; (Socialism), XXII, *b* 222, a b 223, b 224-5
—, Southern free (United States), XXIII, b 831
—, statistics of (Coal), VI, b 73; (Germany), X, a b 412; (Paris), XVIII, a b 283; (St. Petersburg), XXI, b 202-3; (United States), XXIII, a b 874, a b 876, a b 879; bureaus of (Workingmen in U. S.), XXIV, a 919
—, subjection of (Socialism), XXII, a b 217, b 221, *b* 223-4; territorial division of (Political Economy), XIX, b 377
— under tariffs (Protection), XIX, b 933-4
—, wages of (Corn Laws), VI, b 363-4, note; (Rodbertus), XX, a b 632
Laboratories in German Universities (Liebig), XIV, b 568; seaside (Zoology), XXIV, b 853, b 856
Laboratory, municipal (Paris), XVIII, b 290
— Microscopes (Ill.), XVI, a 271
Labors of Hercules, XI, a b 649
Laboulaye, Edouard, author (Hamilton, A.), XI, *a* 370
La Bourboule, spa (Puy de Dôme), XX, a 126
Labourdonnais, Bernard François Mahé de, admiral (Madras), XV, b 188, a b 190
—, Louis Charles Mahé de (Chess), V, b 522, a 523
LABRADOR, country, XIV, b 175-7
  climate, b 176-7
  fauna and flora, b 176
  fisheries, a b 177
  geology, a 177
  history, b 177
  inhabitants, b 176, a 177
  topography, b 175-6
— (Canada), IV, b 676; current (Atlantic Ocean), III, b 24; fisheries (Seal), XXI, *b* 608, a 610
— duck (Birds) (Ill.), III, b 637-8
— jumping mouse (Jerboa), XIII, a 637
— or Gray Pine, XIX, a 113
Labradorite (Mineralogy) (Ill.), XVI, a 378, a 381, a 388, a 392, b 436, a b 438
Labrang temple and convent (Lamaism), XIV, b 229; (Lhasa), a b 498-9, a 500, *a* 501
Labrax lupus, species (Ichthyology) (Ill.), XII, a 674
La Brea, pitch lake (Trinidad), XXIII, b 610. See Brea
La Brenwa, Glacier, X, b 561
Labrichthys, fish, scales of (Ichthyology) (Ill.), XII, b 676, a 730
Labridæ, fishes (Ichthyology), XII, a b 716, a b 717, a 730; (Wrasse), XXIV, b 721-2
Labrosaurus (Reptiles), XX, b 456 note
Labrunie, Gérard, poet (France), IX, b 595; (Gérard de Nerval), X, a 397
LA BRUYÈRE, Jean de, essayist, XIV, a 178-9; (France), IX, b 583-4; (Marivaux), XV, a 558
LABUAN or Labuhan, island, XIV, a b 179; (Brooke, Rajah), IV, b 333; (Indian Archipelago), XII, b 855, b 857
Labuk, river (Sabah), XXI, a 132
LABURNUM, tree, XIV, b 179-80; (Arboriculture), II, a 279, a 281; (Horticulture), XII, a 218; Adam's (Hybridism), XII, b 441
LABYRINTH (Ill.), XIV, a 180-2; (Minos), XVI, a 501; (Numismatics), XVII, *b* 660; of Amenemhat III. (Egypt), VII, a 637, b 671; of Fayoom or Feiyoom (Architecture), II, b 339; (Egypt), VII, b 671
— of ear (Anatomy) (Plate XIX), I, *a* 784-6; (Ear), VII, a 512
Labyrinthici, fishes (Ichthyology), XII, a 704, a 708, b 709, a 710, a b 711, b 729
Labyrinthodonta, order (Amphibia), I, a *b* 658, *a* b 659, *a* 660, b 667-8, b 668*, a 676, b 677; (Distribution), VII, a 245; carboniferous (Geology), X, a 310
Labyrinthula, genus (Protozoa), XIX, a 860, a b 865
Labyrinthulidea, class (Protozoa) (Ill.), XIX, a b 860, a 865, b 866
LAC, incrustation, XIV, b 182-3; (Forests), IX, *b* 355, a 356; (India), XII, b 790; dye (Dyeing), VII, b 496
Lac, poem (Lamartine), XIV, b 234
LACAILLE, Nicolas Louis de, astronomer, XIV, a 183; (Astronomy), II, b 661; (Earth), VII, *a* 517, a 518; (Micrometer) (Ill.), XVI, b 265, a 266; (Navigation), XVII, b 265, b 268; (Observatory), b 736
LA CALLE or La Cala, town, XIV, a b 183
La Calprenède, romancist. See Calprenède
La Cava, town (Cava), V, b 225; (Libraries), XIV, a 530
Lacaze-Duthiers, Félix J. H. de, naturalist (Brachiopoda), IV, *b* 172; (Galls), X, *a* b 40; (Tunicata), XXIII, b 647, b 658
LACCADIVES, islands, XIV, b 183-4; (Asia), II, a 599
LACE, fabric (Ill.), XIV, a 184-92
  guipure, a 190
  history, b 185-6
  literature, b 192
  machine made (Ill.), a 185-6, a 190-2
  needle-point (Ill.), a 186-8
  pattern, a 186
  pillow-made (Ill.), a 188-90
— (Alençon), I, b 422; (Brussels), IV, a b 364; (France), IX, a 460; frames (Heathcoat), XI, a b 527
— bark or Lagetta tree (Botany), IV, b 90; (Fibres, Textile), IX, a 116
Lacedæmon, city and state. See LACONIA and SPARTA
Lacedæmonians, people. See Spartans
Lace-glass (Glass), X, a 581
Lace-leaf, plant (Madagascar), XV, a 171
Lace manufacture (England), VIII, a 211; (France), IX, a 460; (Heathcoat), XI, a 527; (Ireland), XIII, b 237; (Loire, Haute-), XIV, a 817; (Saxony), XXI, b 373
LACÉPÈDE, Bernard Germain Étienne de la Ville, Comte de, naturalist, XIV, a b 192; (Buffon), IV, b 398; (Ichthyology), XII, a b 669; (Ornithology), XVIII, b 11 note; (Reptiles), XX, a 447
Lacerda, Antonio de, naturalist (Rattlesnake), XX, a 306 note
Lacerda e Almeida, Francesco Jozé de, explorer (Africa), I, b 220; (Cazembe), V, b 244, a 245; (Geography), X, b 168
Lacerna, cloak (Costume), VI, a 404
Lacertidæ, family (Lizard) (Ill.), XIV, b 738, a 739, b 740-1; (Reptiles), XX, a 459, b 482
Lacertilia, order (Lizard), XIV, b 738-44; (Reptiles) (Ill.), XX, b 451-2, a b 457, *a* b 458-9, a 461, a 463-4, b 467, a b 468, *b* 469, a b 470, a b 471, a b 472, a b 473, a b 475, a *b* 476, *a* 477, *a* b 478, *b* 479, *a* 480, note, b 481, a *b* 482, note, a b 483, a *b* 485, *a* b 486-7
Lace-Work porcelain (Japan), XIII, b 600
Lachabeaussière, Ange Étienne Xavier Poisson, poet (Mirabeau), XVI, a 516
La Chaise, François de, Père (Molinos), XVI, a 654; (Quesnel), XX, a 184
La Chalosse, region (Landes), XIV, b 272
LA CHALOTAIS, Louis René de Caraduec de, statesman, XIV, b 192-3
La Chapelle (Artesian Well), II, *b* 564
Lachares, demagogue (Athens), III, b 8
La Charité, town (Nièvre), XVII, b 509
Laches, dialogue (Plato), XIX, a 208

Lachesis, genus (Snakes), XXII, b 210
Lachine canal (St. Lawrence), XXI, a b 19); rapids (Montreal), XVI, b 820; (Quebec), XX, b 171; (St. Lawrence), XXI, a b 190
LACHISH, town, XIV, a 193
Lachlan, river (Australia), III, *a* b 91, b 93; (Murray River), XVII, b 68; (New South Wales), b 418
Lachmann, naturalist (Claparède), V, b 699
LACHMANN, Karl Konrad Friedrich Wilhelm, philologist, XIV, a 193-4; (Bible), III, b 560; (Germany), X, a *b* 464, note; (Grimm), XI, a 178; (Homer), XII, b 120, a b 121, a 124, a 125; (Nibelungenlied), XVII, b 489-90; (Tibullus), XXIII, *a* 373
Lachnobolus, genus (Protozoa), XIX, a 863
Lachrymal. See Lacrymal
Lachwa, river (Caucasus), V, a 221
Lacibi, town. See Loja
Lacinularia, animalcule (Rotifera) (Ill.), XXI, *b* 10, a b 12
Lacken, village (Brussels), IV, b 363
Lackenby blowing engine (Bellows) (Ill.), III, b 475–6
Lacker, See Lacquer
Laclède-Liguest, Pierre, pioneer (St. Louis), XXI, *a* 195
Lacmon, mount (Greece), XI, a 74; (Thessaly), XXIII, b 319
LA CONDAMINE, Charles Marie de, geographer, XIV, a 194; (Earth), VII, *b* 516–7; (India-Rubber), XII, a 876; (Trumpeter), XXIII, b 631-2
La Combe, Francis de, priest (Guyon), XI, *a* b 306
LACONIA, country, XIV, a 194; (Greece), XI, b 84, a 85 See SPARTA
Laconia, region (New Hampshire), XVII, a 403
Laconian dialect (Greece), XI, b 118-*a* b 119
Laconicum (Baths), III, *b* 375, *a* b 376
LACORDAIRE, Jean Baptiste Henri, orator, XIV, b 194–5; (Montalembert), XVI, a 798, (Newspapers), XVII, b 437
Lacouperie, Terrien de, orientalist (Tibet), XXIII, b 370. See List of Contributors
LACQUER or Lacker, varnish, XIV, a 195; (Brass), IV, a 197; (Inlaying), XIII, b 88; (Japan), b 598, a b 601; (Japanning), *a* 603; (Varnish), XXIV, a 100
LACRETELLE, Charles de, historian, XIV, b 195
Lacroix, Paul, critic (Molière), XVI, a 653; (Rabelais), XX, b 203
Lacroma, island (Ragusa), XX, a 228
LACROSSE, game, XIV, b 195–6
LA CROSSE, Wisconsin, city, XIV, a 196
Lacryma Christi Wine, XXIV, *b* 642
Lacrymal apparatus (Anatomy), I, b 782; bone (Anatomy) (Ill.), b 723; gland (Ophthalmology), XVII, a b 808; sinus (Deer), VII, b 22
LACRYMATORY, vessel, XIV, a 196
LACTANTIUS FIRMIANUS, Lucius Cœlius, writer, XIV, a b 196; (Christianity), V, b 605; (Hierocles), XI, b 708; (Map), XV, b 524; (Millennium), XVI, a b 329
Lactation (Mammalia), XV, b 381; diet during (Dietetics), VII, b 178
Lacteals (Anatomy), I, a b 711, a 715, a 743, *b* 796, a 797; (Aselli), II, b 593; (Digestive Organs), VII, a 198, a 199; (Nutrition), XVII, b 688. See Mammary glands.
LACTIC ACID, XIV, a b 197; (Chemistry), V, a b 491; (Fermentation), IX, b 85; (Milk), XVI, b 316: (Nutrition), XVII, b 696
Lactometer (Adulteration), I, a 153; (Hydrometer), XII, b 573
Lactoscope (Milk), XVI, a 318
Lactose or milk sugar (Chemistry), V, a 490; (Milk), XVI, b 316–7
Lactucarium, drug (Horticulture), XII, a 296; Narcotics), XVII, a 237, 238
Lactucinia, alkaloid (Narcotics), XVII, 238
Lacustrine basins. See LAKE
Lacy, Hugo de, baron, lord justice (Ireland), XIII, b 265; (Meath), XV, b 675; (Westmeath), XXIV, b 541
LADÁC or Ladák, and BALTI country, XIV, b 197–9; (Himalaya), XI, a 741, a 742; (Moorcroft), XVI, b 829; (Tibet), XXIII, *a* 361, *a* 364
—— town (Lhasa), XIV, b 501; (Tibet), XXIII, *a* 361, *a* 364
Ladákis, people (Ladác), XIV, a 199
Ladanum, resin (Incense), XII, a 757; (Myrrh), XVII, a 129
Ladas, athlete (Games), X, b 58
Ladas, statue (Archæology), II, a b 310; (Myron), XVII, a 128
Ladder carriages (Fire), IX, a b 206
—— Hill, post (St. Helena), XXI, a 180
Ladders, Mechanics of, XV, a b 739-40; in Mining, XVI, a b 483
Ladd's boiler (Horticulture) (Ill.), XII, b 235-6; machine (Electricity), VIII, a 12
Lade, battle of, 496 B.C. (Greece), XI, a 89
Ladies' Diary, almanac (Hutton, C.), XII, a 430
Ladies' Peace, 1529 (Cambray), IV, a 643; (France), IX, b 490
Ladikiyeh, town (Latakia), XIV, a b 323
Ladin, dialects (Engadine), VIII, b 193; (Grisons), XI, b 182; (Italy), XIII, b 502–3, b 504
Lading, bill of, III, b 582–3
Ladislaus I., the Saint, king (Hungary), XII, a b 382
—— IV., king (Hungary), XII, b 382, a 383
—— V., Posthumus, king of Hungary and Bohemia (Hungary), XII, *a* b 383; (Podiebrad), XIX, b 265, a 266
——, king of Naples (Huss), XII, b 420; (Innocent VII.), XIII, b 91; (John XXIII., Pope), b 723; (Rome), XX, b 820, *a b* 821, *a* 822
—— or Władysław I., duke (Poland), XIX, b 298
—— or Władysław II., duke (Poland), XIX, a 299
—— II., Jagiello, king (Poland), XIX, b 300-1
—— III., Loketick, king (Poland), XIX, a b 301
—— IV., king (Poland), XIX, b 305, a 306; (Russia), XXI, *a* 104
LA DIXMERIE, Nicolas Bricaire de, litterateur, XIV, b 199
Ladle, casting (Iron), XIII, b 354
Lado or Lardo, town (Nile), XVII, *a* b 519
LADOGA, lake, XIV, b 199; (Finland), IX, b 188, a b 189; (Neva), XVII, b 375 6; (Novgorod), *b* 621; (Olonetz), *a* 786; (St. Petersburg), XXI, *b* 199, a b 200, b 204; (Volga), XXIV, a 299, a 301
Ladon, river (Elis), VIII, b 130
LADRONE or Mariana Islands, XIV, a 200-1; (Cattle), V, b 213; (Hong-Kong), XII, b 144; (Micronesia), XVI, a 267–8; (Pacific Ocean), XVIII, b 132; (Polynesia), XIX, b 442
——, mountains (New Mexico), XVII, a b 410
Ladugardslandet, district (Stockholm), XXII, b 587
Lady (Titles of Honor), XXIII, a 445
—— -birds, beetles (Coleoptera) (Ill.), VI, b 116, b 121; (Insects), XIII, b 156; (Wheat), XXIV, a 565
LADY DAY, feast, XIV, a 201
Lady Jane, play (Webster), XXIV, b 500
Lady of the Lake, poem (Scott), XXI, a 574
Lady of the May, masque (Sidney, Sir P.), XXII, b 40
Lady of Zurich, XXIV, b 870
Lady's mantle or alchemilla (Botany) (Ill.), IV, a b 124, a 131
"Lady Suffolk" (Horse), XII, b 208, a 209
Lælius Sapiens, Caius, orator (Terence), XXIII, *a* 204
Læmargus, genus (Ichthyology), XII, a 724; (Shark), XXI, b 814
Lænland (Real Estate), XX, b 317, note
LAENNEC, René Théodore Hyacinthe, physician, XIV, a 201; (Auscultation), III, *b* 87; (Heart), XI, a 493; (Hippocrates), a 762; (Medicine), XV, a 825; (Phthisis), XVIII, b 869; (Quimper), XX, a 188
LAER or Laar, Pieter van, painter, XIV, a 201
Læsa majestas, crime (Treason), XXIII, a *b* 559, b 562
LÆSTRYGONES, mythic giants, XIV, a b 201; (Poseidon), XIX, b 574
Lævinus, Publius Valerius, consul (Rome), XX, b 762
Lævulose, Levulose, or Lævoglucose (Chemistry), V, a 490; (Fermentation), IX, b 84; (Honey), XII, a 140; (Sugar), XXII, *a* b 656
La Fare, Charles Auguste Marquis de, poet (France), IX, b 584
LA FARINA, Giuseppe, author, XIV, b 201
Lafayette mountain (United States), XXIII, b 842
LA FAYETTE, Indiana, town, XIV, b 201–2; (Indiana), XII, *b* 853
LAFAYETTE, Marie Jean Paul Roch Yves Gilbert Motier, Marquis de, general, XIV, a 202–4
  American campaigns, a 202–3
  estimate of and literature on, a 204
  French revolution, a 203–4
  later years of, b 204

– —

—— (Carbonari), V, a 79; (France), IX, a 527, b 528, *a* b 530, *a b* 531, a 532, a 546; (Mirabeau), XVI, b 518, a b 519; (Napoleon I.), XVII, *a* 231, b 232; (Paris), XVIII, a 298; (United States), XXIII, b 791, b 792; (Washington), XXIV, a 410
——, Marie Madeleine Pioche de la Vergne, countess de, authoress (France), IX, a 580
—— college (Easton), VII, a 533; (Universities), XXIII, a 914, 957
Lafitau, Joseph François, missionary (Mythology), XVII, b 144, a 152
Lafitte cabinet, France (Guizot), XI, a 239
LA FLÈCHE, town, XIV, a 204; (Hume), XII, a 361; (Sarthe), XXI, a b 329; school (Descartes), VII, b 100
—— fowl (Poultry), XIX, b 665
Lafone, S., capitalist (Falkland Islands), IX, b 14
LAFONTAINE, Jean de, poet, XIV, a 204–7
  early life, b 204
  editions of, a b 207
  La Sablière period, a b 205
  last years with Hervart, b 205–6
  literary estimate of, a 207
  pension period, b 204-5
  personal characteristics, a 206
  works of, a 206–7

Lafontaine (Chateau-Thierry), V, a 380; (Fable), VIII, b 734, *a* 735; (France), IX, a 507, a 578; (Marie de France). XV, b 548; (Racine), XX, b 211, a 212
La Forge, Étienne de, martyr (Calvin), IV, a 633
LAFOSSE, Charles de, painter, XIV, b 207
Lafuente, Modesto, historian, (Spain), XXII, a 376
Lagadeuc or Lagadec, Jean, lexicographer (Celtic Literature), V, b 281
Lagadha or Lagata, astronomer (Sanskrit), XXI, b 287
La Gallissonnière, Roland Michel Barrin de, admiral (Rochefort), XX, a 628, note
Lagan river (Antrim), II, b 124, *a* 125; (Belfast), III, b 441, b 442, a 443
Lagarde, P. de, orientalist (Psalms), XX, a 38, *a* b 39; (Syriac Literature), XXII, a 864, notes, a 865, note, b 866, a 867, note, a 875, note, a 882, b 883, note, b 884, a 894
Lagena, genus (Foraminifera) (Ill.), IX, a 325, b 327, *a b* 332
Lagenaria, genus (Gourd), XI, a b 6
Lagenida, group (Foraminifera), IX, a 332, b 338, b 339
Lagenidea, group (Protozoa), XIX, a 871
Lagenoplastes, genus (Martin), XV, b 588
Lagenorhynchus, genus (Mammalia), XV, b 403
Lagenschwalbach, town (Schwalbach), XXI, a 481
Lagerlöf, Peter, poet (Sweden), XXII, a 793
Lagging in Mechanics, XV, b 694; of highwater (Tides), XXIII, b 375, b 376, b 377, *a* 390, a 391, a 392
Laghman, district (Afghânistân), I, b 206, a 208
Lagidium, genus (Mammalia), XV, a 426
"La Gloire," iron-clad (Navy), XVII, a b 292, a 293
Lagny, Thomas Fantet, Sieur de, mathematician (Trigonometry), XXIII, b 607
Lago. See Lake
—— Argentino (Patagonia), XVIII, a b 358
—— di Bolsena (Italy), XIII, a 450; (Bolsena), IV, a 19
—— di Fucino (Abruzzo), I, a 57; (Italy), XIII, a b 447, b 449, a 461. See Fucinus Lacus
—— di Garda (Italy), XIII, b 445, b 449. See GARDA
Lago d'Idro (Italy), XIII, b 445
—— d'Iseo (Italy), XIII, b 445, b 449
—— Maggiore. See MAGGIORE
Lagomorpha, rodents (Mammalia), XV, a b 421, a 422
Lagomys, genus (Mammalia), XV, b 426
Lagong, town (Siam), XXI, b 892
Lagoon-barriers (Geology), X, a b 246
Lagoons (Italy), XIII, a 446; (Japan), a 582; (Lake), XIV, a 218; (Louisiana), XV, a 22; (Madagascar), a 170; (Madras), b 185; (Malabar), a 315; (Yucatan), XXIV, b 795
Lagopus, genus (Birds), III, *b* 656–7; (Grouse) (Ill.), XI, *a b* 197, note, *a* 198
Lagore, Crannog of, VI, a b 489
LAGOS, Africa, settlement, XIV, b 207–8; (Gold Coast), X, *a* 672; (Yoruba), XXIV, b 791, *a* 792
LAGOS, Portugal, town, XIV, b 207
Lagostomus, genus (Mammalia), XV, a 426
Lagothrix, monkey (America), I, b 598; (Ape) (Ill.), II, b 134, a 137, b 142, a 143, b 145
LAGRANGE, Joseph Louis, mathematician, XIV, a 208–11
  calculus of variations, a 211
  École Polytechnique period, b 209–10
  French pensionary period, b 208–9
  Institute and final period, a 210
  mathematical achievements, b 210–11
  memoirs, a b 211
  personal characteristics, a b 210
  Turin life, a b 208
—— (Algebra), I, b 454, b 487; (Astronomy), II, b 664–5, b 783, b 700; (Equation), VIII, b 443–4, *a* 449, a 450, *a* 451; (Infinitesimal Calculus), XIII, b 13, a 15, a b 21, a 23, a 24, b 49, 50, b 66, a 68; (Light), XIV, a 602, a 603; (Mechanics), XV, a 686, a *b* 757; (Moon), XVI, b 827; (Parallels), XVIII, a 259; (Poisson), XIX, a 292, *a* 293; on fluid motions (Atom), III, a 39
Lagrange's equations of motion (Mechanics), XV, b 730; (Hydromechanics), XII, b 465–8, b 475–6
Lagrée, Doudart de, captain, explorer (Cochin China), VI, b 87; (Garnier, F.), X, b 74
LAGRENÉE, Louis Jean François, painter, XIV, b 211
Lagthing or senate (Norway), XVII, b 597
Laguaira, town (Guayra, La), XI, b 215; (Venezuela), XXIV, *a* b 151, *a* 152
Laguna, town (Canary Islands), IV, b 705
—— de Cuija, lake (San Salvador), XXI, a 281
La Hague, cape (Manche), XV, b 466
Lahaina, town (Hawaiian Islands), XI, b 475
La Harpe, Frederic Cæsar, politician (Switzerland), XXII, b 831, a 832; (Vaud), XXIV, a 126
Laharpe, Jean François de, critic (France), IX, a 590
Laharpur, town (Sitápur), XXII, b 110
Lahendang, springs (Celebes), V, b 251
Lahijan, plain of (Persia), XVIII, a 628
Lahinch, watering place (Clare), V, *b* 701
La Hire, Étienne Vignoles, captain (Clermont en Beauvoisis), V, b 723
LAHIRE, Laurent de, painter, XIV, b 211
La Hire, Philippe de, geometer (Magic Square), XV, b 214, a 215; (Map), a 529
Lahn, river (Nassau), XVII, b 244; (Rhine), XX, a 534
La Hogue, battle of, 1692 (France), IX, a 511; (William III.), XXIV, a 612. See La Hague, Cape
LAHORE, city (Plan), XIV, b 212–6
  Akbar's reign, a 215
  buildings and monuments, modern, a b 213
  education, b 213
  health, a 214
  literature, b 216
  Mohammedan period, a b 214
  Mughal period, b 214–6
  Shah Jahan's reign, b 215
  Sikh period, a b 216
  site, modern, b 212–3
  trade and communications, *a* 214
—— (Kashi), XIV, a 11; (Mahmúd), XV, b 289
——, district, XIV, a b 212; (Punjab), XX, b 112, a b 114, a *b* 115, a b 116, a *b* 117, a b 118; acquisition of (India), XII, a b 847
—— division, XIV, b 211–2
Lahori pass (Kafirīstan), XIII, a 830
LAHR, town, XIV, b 216
LAIBACH or Laybach, town, XIV, b 216; (Carniola), V, *a* 107. See Congress of Laybach
Laibobar, island (Timorlaut), XXIII, a 425
Laich lands (Renfrew), XX, a 407
Laidcenn, poet (Celtic Literature), V, b 267
Laigle, town (Orne), XVIII, a b 6
LAING, Alexander Gordon, explorer, XIV, b 216–7
LAING, David, antiquarian, XIV, a 217; (Knox), XIV, a 131, note, a 132, *a* 135
LAING, Malcolm, historian, XIV, a b 217
Laird, William, shipwright (Birkenhead), III, a 677
Laire, François Xavier, bibliographer, III, b 565, *a* 566
Lairg, parish (Sutherland), XXII, a 764, a 765
Lais or Laye, district (Sumatra), XXII, a 673
Lais, narrative poems (France), IX, b 565; (Marie de France), XV, *a* 548
Laish, town (Phœnicia), XVIII, a 818
"Laissez faire," theory (Turgot), XXIII, a 670; (Government), XI, b 16; (Political Economy), XIX, a b 373, a 374, *b* 396–7, a b 414
Laity (Heresy), XI, b 657
LAI-YANG, city, XIV, b 217
Lajta, river. See Leitha
Laka or Lolo tribes (Tibet), XXIII, a b 365
Lakahia, island (New Guinea), XVII, b 396
LAKE, water system, XIV, b 217–23
  definition, b 217
  dimensions, a b 218
  distribution, b 217–8
  frozen lakes, b 220–1
  level changes, a 221–3
  rain and drought effects, a b 222
  salt lakes, b 222–3
  temperature, b 218–21
—— artificial (France), IX, b 446; (Tse-nan Foo), XXIII, a 639
—— basins (Lucerne), XV, a b 43; (Mexico), XVI, b 223, b 224, a 230; (Russia), XXI, a b 82, *a* 86
—— colors (Pigments), XIX, b 96; steam (Calico-Printing), IV, *b* 613, b 614
—— district, England (Westmorland), XXIV, b 541, a 542, *a* 543; Western Australia, *a* 535
LAKE DWELLINGS, XIV, a 223–5; (Anthropology), II, a 103; (Macedonia), XV, b 138; (Po), XIX, a 264; (Volga), XXIV, b 299; (Wigtown), a 595, note; Swiss (Architecture), II, b 336; (Baking), III, b 215; (Jade), XIII, a b 550
—— fishing (Angling), II, a 36; fossils (Geology), X, a 283, b 284; miocene deposits (Geology), b 322–3
—— navigation, rise of (United States), XXIII, b 811–2; reservoirs (Water-Supply), XXIV, a b 427
—— Y (Canal), IV, *b* 696, a 697
Lake, Gérard, viscount, general (Bhartpur), III, b 543; (India), XII, *a* 844; (Mahrattas), XV, a 294
Lakemba, island (Fiji Islands), IX, b 136
Lakena, island (Polynesia), XIX, *a* 434
Lakes (Argyllshire), II, b 439; (Austria), III, b 101; (Baden), a 194; (Climate), VI, a 5, a 6; (Colombia), a b 138; (Cumberland), b 616, b 617–8; (Egypt), VII, b 614–5; (Filter), IX, b 146; (France), b 446; (Geology), X, b 247–8; (Germany), b 403, a 404; (Killarney), XIV, a 78; (Louisiana), XV, a 22; (Minnesota), XVI, b 498; (Scotland), XXI, b 548–9; (Siberia), XXII, a 10; (Switzerland), a 815
—— disappearance of (United States), XXIII, a 863; earthquake effects on (Geology), X, a 227; European list of, VIII, b 601; fauna of (Shark), XXI, a 811, note; formation of (Geology), X, b 332; frozen (Geology), b 248–9
——, height of (Meteorology), XVI, a 187; river detritus in (Geology), X, a 246; Water of, XXIV, a b 420. See Salt lakes

LAKHIMPUR, district, XIV, b 225-6
Lakhnádon plateau (Seoni). XXI, *a* 698
Lakhnaoti, city (Gaur), X, *b* 101, a 102, a b 103
Lakhnau, city (Hindustani Literature), XI, b 757
Laksanas, codes (Siam), XXI, a b 896
Lakshmanasena, king (Gaur), X, b 101
Lakshmaniya, king (Gaur), X, b 101
Lakshmiá, river (Dacca), VI, a b 667
LALANDE, Joseph Jérôme Lefrançais de, astronomer, XIV, a 226; (Astronomy), II, b 687; (Delambre), VII, *a* 37; (Tables), XXIII, b 16, a 20; (Telescope), a 150
Lalangs, tribe (Nowgong), XVII, b 624
Lalita Vistara (Buddhism), IV, a b 381, b 392; (Lāmāism), XIV, *b* 227, *a* 228
LALITPUR, district and town, XIV, a b 226
Lalla Rookh, poem (Moore), XVI, b 831, b 833, b 834
La Llave, Pablo de, naturalist (Quezal), XX, a 186, note
Lallū Lāl, writer (Hindustani Literature), XI, b 758
Lallúp, labor-system (Manipur), XV, a 497
LALLY, Thomas Arthur, Baron De Tollendal, count, general, XIV, b 226-7; (France), IX, b 519; (India), XII, a 840
La Loubére, Simon de, ambassador (Siam), XXI, b 894, b 895
Lama, mammal. See LLAMA
——, Great (Lāmāism), XIV, *a* 231; coins of (Lhasa), a 498; temples of (Lhasa) (Ill.), b 498-9, a b 500
Lamachus of Athens, general (Syracuse), XXII, b 853, a 854
LAMAISM, religion, XIV, a 227-32
  authorities, a b 231
  Bodisat literature, b 227-8
  Buddhism, relation to, b 227-8
  constitution of, a 231
  degradation of Buddhism, b 228
  introduction into Tibet, a 229-30
  Kandjur, scriptures, b 229
  Lāmas, rise of sovereign, a 230
  nature of, a 227
  Tantra system, b 228-9
  Tsongkapa reform, a b 230
—— (Adam), I, b 126; (Buddhism), IV, a 392; (Huc), XII, b 342; (Lhasa), XIV, a 501; (Mongols), XVI, b 770; (Pilgrimage), XIX, a 101, note; (Tibet), XXIII, b 365-6, b 367-8; (Urga), XXIV, b 15
LAMA-MIAU or Dolanor, city, XIV, b 231
La Mancha, district, XV, b 465-6; (Spain), XXII, a 308, b 309, b 310, a b 311, b 313, a 315
La Manche, department. See MANCHE
Lamar, general (Peru), XVIII, b 691-2, b 695
——, river (Yellowstone Park), XXIV, *b* 773
La Marck, family (Sedan), XXI, *a* 650
——, comte de (Mirabeau), XVI, a 519
LAMARCK, Jean Baptiste Pierre Antoine de Monet, chevalier de, naturalist, XIV, b 231-3; (Anthropology), II, a 98; (Arthropoda), a 566; (Evolution), VIII, b 655, a *b* 656, note, a *b* 657; (Morphology), XVI, b 865, a 866; (Radiata), XX, a 219; (Treviranus), XXIII, b 588; (Tunicata), a 647, b 658; (Variation and Selection), XXIV, a b 84, a b 87, a 89; (Vertebrata), *a* 193; (Zoology), b 842, *b* 846, b 856, a 857-9; his classification (Zoology), a b 845
Lamarre, William, monk (Scholasticism), XXI, b 446
LAMARTINE, Alphonse Marie Louis de Prat de, poet, XIV, a 233-5; (Byron), IV, a 543; (France), IX, a 548, a 594, b 598; (Vigny), XXIV, b 243, a 244
LAMB, Charles, essayist, XIV, a 235-6; (Coleridge, S. T.), VI, b 122; (Defoe), VII, b 27, a 29; (Lhasa), XIV, b 502; (Montaigne), XVI, b 796; (Wainewright), XXIV, a 338; (Wither), a 657; (Wordsworth), a b 710, note, a 711
——, Mary, essayist, XIV, a *b* 235
Lambadis, tribes (Madras), XV, b 186
Lambæsa, town (Numidia), XVII, b 643
LAMBALLE, Marie Thérèse Louise de Savoie-Carignan, princesse de, XIV, b 236
Lambay, island (Dublin), VII, a 427
Lambayeque region (Peru), XVIII, a 684, b 687
Lamberg, count (Hungary), XII, b 386
Lambert, bishop of Maestricht (Hubert), XII, a 342
—— of Ostia. See HONORIUS II., Pope
——, duke, Spoleto (John VIII., Pope), XIII, a b 721
——, Daniel, fat man (Corpulence), VI, b 385
——, Franz, reformer (Presbyterianism), XIX, a 696
LAMBERT, Johann Heinrich, physicist, XIV, b 236-7; (Geography), X, b 179, a 185; (Kant), XIII, a 859; (Magnetism), XV, b 231 note, a 238, b 242, a 251; (Squaring the Circle), XXII, a 453; (Tables), XXIII, a 11 note, a 12, a 16, *a* 18; (Trumpet), b 631; his theorem (Comet), VI, a 164, a 171; (Hodograph), XII, a 46
——, John, attorney (Chatterton), V, a *b* 387, b 388
LAMBERT, John, general, XIV, a 237-8; (Monk), XVI, b 778, a b 779; (Worcester), XXIV, b 701
——, John, martyr (England), VIII, a b 300
——, Marquis de (Mirabeau), XVI, a 516
Lamberton, William of, bishop (Robert), XX, b 608, *a b* 609; (St. Andrews), XXI, a 166; (Scotland), *b* 510
Lamberty, Guillaume de, diplomatist (Switzerland), XXII, b 837
LAMBÈSE or Lambessa, village, XIV, a b 238
Lambespring, Bartholomew, goldsmith (Sculpture), XXI, a 586
Lambeth, part of London, XIV, *a* 827, a *b* 829, a b 830, b 832, b 834, *a* b 842, b 843, b 848, b 851, a 853, b 857, a 861; (Surrey), XXII, b 729
Lambeth Articles, II, a 572; (Andrews), b 20; (Whitgift), XXIV, b 584
—— bridge (London), XIV, a 827, b 832; degrees (Archbishop), II, a 323; Mirrors, XVI, b 523; palace (Libraries), XIV, b 515-6; potteries (Pottery and Porcelain), XIX, b 651, a b 652
Lambinet, Pierre, bibliographer (Typography), XXIII, b 737
Lambrequin (Heraldry), XI, b 633-4
Lambs, rearing (Agriculture), I, b 349-50, a b 352, a 353; skins of (Fur), IX, b 735, b 736; (Leather), XIV, a 381
Lamb's lettuce (Horticulture), XII, b 293
Lambton, John George, earl of Durham, VII, a b486
——, William, colonel, geodesist (Earth), VII, a 518
Lamé, Gabriel, geometrician (Surface), XXII, a 706; (Tides), XXIII, b 398
LAMECH, patriarch, XIV, b 238-9; (Afghânistân), I, b 206; (Freemasonry), IX, a 658
LAMEGO, town, XIV, b 239; (Portugal), XIX, *a* 555, a 556, a 557
Lamellæ of bone (Anatomy), I, b 749
Lamellar cataract, disease (Ophthalmology), XVII, b 804, a 805
—— Magnets, XV, b 233-4
Lamellibranchs, class (Brachiopoda), IV, b 171, a 172, a 173; (Mollusca), XVI, a 710-21; (Oyster), XVIII, a 110
Lamellicornes, group (Coleoptera) (Ill.), VI, b 114, a b 119
LAMENNAIS, Hugues Félicité Robert de, theologian, XIV, b 239-4; (Comte), VI, b 205; (France), IX, a 594; (Guérin), XI, *b* 218, a 219; (Montalembert), XVI, a 798; (Newspapers), XVII, *b* 437; (Scepticism), XXI, a 399
——, Pierre Louis Robert, merchant, XIV, b 239
Lamentationes (Plain Song), XIX, b 180
Lamentation of Mary Magdalene (Chaucer), V, b 390
LAMENTATIONS, Book of, XIV, a 241-3
  dirges, subject of, a 241-2
  general character, a 243
  literature, b 243
  traditions of authorship, b 241-3
La Métherie, Jean Claude de, naturalist (Sodium), XXII, a 255
LAMETTRIE, Julien Offray de, philosopher, XIV, b 243
Lami, Giovanni Battista, antiquary (Periodicals), XVIII, a 553
LAMIA, myth, XIV, b 243-4
——, town (Numismatics), XVII, a 658
Lamia, poem (Keats), XIV, a b 25, a 26
Lamian war (Greece), XI, b 96; (Phocion), XVIII, a b 813, a 814
L'Ami du Peuple (Marat), XV, a b 534
Lamina cinerea (Anatomy), I, b 766, a 770, a 781; vitrea (Anatomy), a b 779
Laminæ (Crystallography), VI, a 596; (Geology), X, b 258
Laminar motion (Hydromechanics), XII, a b 481; structure (Magnetism), XV, a b 268
Laminarieæ, family (Algæ), I, a 448, a *b* 449; (Kelp), XIV, *b* 31; (Vegetable Kingdom), XXIV, *a b* 138
Laminated magnets (Magnetism) (Ill.), XV, b 277; steel barrels (Gunmaking), XI, b 247
Laminiplantares, group (Ornithology), XVIII, b 41-2, a 45
Lamlash, Lighthouse, XIV, b 630; loch and village (Arran), II, b 549, a 550
Lamm, Emile, inventor (Steam-Engine), XXII, a 549 note
Lamma, island (Hong Kong), XII, b 144
Lammas-lands (Commons), VI, a 187
LAMMERGEYER, bird, XIV, a 244-5; (Alps), I, b 557
Lammerlaw, hill (Haddington), XI, b 322
Lammermuirs, district (Berwickshire), III, a 529; hills (Haddington), XI, b 322, *a* 323; (Scotland), XXI, b 543
Lamna, genus (Shark), XXI, b 813; (Porbeagle) (Ill.), XIX, b 532
Lamnidæ, family (Ichthyology), XII, b 723
LAMONT, Johann von, astronomer, XIV, a 245; (Aurora), III, b 83
Lamoricière, Christophe Louis Léon Juchault de, general (Ancona), II, b 11; (France), IX, a 547, b 550; (Pius IX.), XIX, b 168
La Motte, hill (Vesoul), XXIV, a 207
——, peak (Utah), XXIV, b 24

- La Motte, Antoine Houdart de, translator and poet (Dácier), VI, b 669, a 670; (Dance), a 705
- ——, Jeanne de Valois, comtesse (Rohan), XX, *b* 638, a 639
- —— - Fouqué, writer. See FOUQUÉ
- LAMP (Ill.), XIV, a 245-9
  - ancient lamps (Ill.), b 247-9
  - burners, improved (Ill.), b 245-6
  - mineral oil burners(Ill.), a b 247
  - moderator type (Ill.), b 246-7
  - oils for burning, a b 245
  - qualities, desirable, b 245
  - primitive type, b 245
  - terra-cotta antiques, a 249
- —— (Lighthouse), XIV, a 625; (Lighting, Electric), a 639-40; (Petroleum), XVIII, a 733; (Pottery and Porcelain) (Ill.), XIX, b 637, b 639, a 640; safety (Coal), VI, a b 68; (Mining), XVI, b 482
- Lampades, shells (Brachiopoda), IV, b 171
- LAMP-BLACK, pigment, XIV, a b 249; (Carbon), V, a b 77; (Charcoal), b 346; (Pigments), XIX, a 97; (Tar), XXIII, b 63, b 64
- LAMPEDUSA, island, XIV, b 249-50; (Mediterranean Sea), XV, b 829
- Lampern, fish (Lamprey), XIV, a b 250
- Lampertico, Fedele (Political Economy), XIX, a b 498
- Lampeter, town (Cardigan), V, *a* 84, a 85; (Universities), XXIII, a 912
- Lampion, island (Mediterranean Sea), XV, b 828
- Lampong, residency and mountain (Sumatra), XXII, a 673
- Lamporderma, genus (Protozoa), XIX, a 863
- Lampornis, genus (Birds), III, a 650
- Lamprecht der Pfaffe, poet (Germany), X, b 468
- LAMPREY, fish, XIV, a 250; (Ichthyology), XII, b 670, b 671, *b* 672-3, a b 682, a 694, b 697, a 698, b 707, a b 714, a 715, b 733; (Smell), XXII, b 175
- Lampridius, Ælius (Augustan History), III, a 65
- Lampris luna, fish (Opah), XVII, b 798
- LAMPSACUS, Greek colony, XIV, b 250; (Numismatics), XVII, b 662
- Lampyridæ, family (Coleoptera) (Ill.), VI, a 115, a 120; (Insects), XIII, b 149
- Lamu, island (Zanzibar), XXIV, *a* b 806
- Lamus, city (Læstrygones), XIV, a b 201
- Lamus Su, river (Cilicia), V, a 679
- Lamuts, people (Tunguses), XXIII, b 646
- Lamy, orientalist (Syriac Literature), XXII, a 874, a 882, b 899 note
- Lamy's Pyrometer, XX, b 135; (Iron), XIII, b 312
- Lān or county (Sweden), XXII, a b 780
- Lana, Francis (Aëronautics), I, a 169
- Lanai, island (Hawaiian Islands), XI, b 474, b 475
- Lanao, lake (Philippine Islands), XVIII, a 766
- LANARK, county (Plate III), XIV, b 250-2; (Coal), VI, b 50, a 51; (Post-Office), XIX, a 590; (Scotland), XXI, a b 551, a b 557, *a* 558, b 560
- —— town, XIV, b 252
- Lanarkite (Mineralogy) (Ill.), XVI, b 417
- Lançarote, island (Geography), X, a 161
- LANCASHIRE, county (Plate IV), XIV, b 252-5
  - administrative organization, a b 254
  - agriculture and climate, b 253-4
  - antiquities, a b 255
  - geology and minerals, a b 253
  - *histories of*, b 255
  - history, b 254-5
  - manufactures and railways, a 254
  - topography, b 252-3
- —— (Cotton), VI, *a* 445; (Dairy), b 679; (Domesday), VII, a b 303
- —— boiler (Steam-Engine) (Ill.), XXII, a 518-9
- —— coal (Plate II), VI, a 47, a b 49, a 61, b 72; (Geology), X, *b* 309; (Iron), XIII, a 299
- —— cotton famine (Derby), VII, b 97-8
- —— hearth process (Iron), XIII, b 327; pig iron, a 314; steel (Iron), b 288; wire gauge, X, b 99
- LANCASTER, England, town, XIV, b 255-6
- LANCASTER, Ohio, town, XIV, a 256
- LANCASTER, Pa., town, XIV, a 256; county (Pennsylvania), XVIII, b 509
- ——, county and town (South Carolina), XXII, *b* 301, b 302
- ——, duchy of (Chancellor), V, b 337; (County), VI, a 456; (Court), b 458, a 459; (Ministry), XVI, b 496
- ——, house of, XIV, a 256-8; (Lancashire), a 255; (Plantagenet), XIX, *b* 186; (Warwick), XXIV, a 402-3; (York), *b* 789, *a* b 790
- ——, Aveline, 1st countess of (Costume) (Ill.), VI, a b 413
- ——, Henry, 1st duke of (Duke), VII, a 448
- LANCASTER, Sir James, seaman, XIV, a 258; (Geography), X, a 166; (India), XII, b 837
- ——, John of Gaunt, duke of, XIV, a b 256, a b 257, 258; (Chaucer), V, a 390, a 391; (England), VIII, a b 287, b 291, a 292; (Ferdinand I., Portugal), IX, a b 70; (John I., Castile), XIII, a 727; (Lancaster), XIV, b 255; (Lincoln), XIV, a 664; (Portugal), XIX, a b 559; (Richard II.), XX, *a b* 556; (Spain), XXII, a b 335; (State Officers), b 476; (William of Wykeham), XXIV, a 617; (Wycliffe), *a b* 745, *a* b 746; (York, House of), b 789
- LANCASTER, Joseph, educator, XIV, a 258-9; (Bell, A.), III, a 466; (Mill, James), XVI, b 319
- ——, Thomas Plantagenet, earl of (England), VIII, a 282; (York), XXIV, *b* 786
- —— Sound (Lancaster, Sir J.), XIV, a 258
- LANCELET, fish (Ill.), XIV, b 259; (Ichthyology) (Ill.), XII, b 680-2; (Skeleton), XXII, *a* 118
- *Lancelot* (Grail, Holy), XI, *a b* 32, a 33; (Map), XV, a 531
- —— of Round Table (Romance), XX, *a b* 659, *a b* 660, a 661, b 662-3, *a* b 665
- Lancelotti, Giovanni Paolo, jurist (Canon Law), V, a 19, a 21
- Lancers, troops (Cavalry), V, a *b* 228, a 229
- Lances (Arms and Armor), II, a 487; fire (Pyrotechny), XX, b 142
- Lancet, order (Architecture), II, a b 374
- LANCEWOOD, XIV, b 259-60
- LAN-CHOW-FOO, town, XIV, a 260; (China), V, a 554
- Lanciani, Rudolph, archæologist (Rome), XX, b 834, note, a 838, b 840 note, a 850 note, b 854
- LANCIANO, town, XIV, a 260
- L'Ancre, Pierre de, author (Witchcraft), XXIV, b 656, a 657
- LANCRET, Nicolas, painter, XIV, a 260
- Land, area of the earth's (Atlantic Ocean), III, b 15, a 16; atmospheric effects on (Geology), X, a 235-7; denudation of (Geology), a 247, a 331-2; effect of (Geology), a 189; on cotidal lines (Tides), XXIII, b 396-7; on equilibrium theory (Tides), b 380; man's modification of (Geology), X, a 258; (Tides), XXIII, a 399; slips (Geology), X, b 226, a 227, b 241, a 244; temperature of (Meteorology), XVI, a 139-42; upheaval and subsidence of (Baltic), III, b 255-6; (Europe), VIII, b 598-9; (Geology), X, b 326, a 327-30, a 331; (Norway), XVII, b 592-3
- LAND, possession and tenure of, XIV, b 260-71
  - augmentation of estates, b 265-6
  - British tenures, b 264-6
  - communistic principle, b 266
  - distribution, b 268-9
  - encumbrances, objectionable, b 270
  - entails, modern system of, a b 265
  - France, b 263
  - Germany, ancient, a b 262
    - modern, a 264
  - grazing, a 271
  - increment unearned, a b 268
  - India, b 262
  - Irish tenants, a 270
  - luxury, support of, b 270-1
  - mineral wealth, b 268
- LAND, *continued*
  - nationalization of land, b 267-8
  - primitive Rome, a 261-2
  - private rights, rise of, a 261; supremacy of, b 266-7
  - production, law of diminishing, a b 267
  - Slavonic tenures, a b 263
  - subdivision of, methods of, a b 271
  - Switzerland, b 263
  - tenant interests, a 269-70
  - tribal tenures, b 260-1
  - United States, a 266
- —— (Crime), VI, *b* 515; (Free Trade), IX, a b 669; (Nobility), XVII, a 543; (Prerogative), XIX, a 693; (Protection), b 934-5; (Socialism), XXII, a *b* 217; barbarian acquisition of (Odoacer), XVII, a 747; Carey on (Political Economy), XIX, a b 398; improvement of (Agriculture), I, 356-61
- —— animals (Distribution), VII, b 232-40
- —— breeze (Meteorology), XVI, b 130-1, b 148
- —— crabs (Plate X), VI, b 477-8; (Crustacea) (Ill.), a 563, b 566, a 567, b 568-9, b 578, b 579, a 580
- —— grants (Agriculture), I, a 271; (England), VIII, b 264-5; (Ireland), XIII, a 233-4, a 237; (Pacific Railroads), XIX, a b 917, b 918, a 919, a b 920, b 921; (United States), XXIII, *a* 824
- *Land, Labor and Gold* (Howitt), XII, a 339
- —— laws (Bengal), III, b 492; Celtic (Brehon Law), IV, b 227-8; (Clan), V, a b 698, a b 699; English (Conveyancing), VI, b 288; (Game Laws), X, a *b* 56; (Hotch-Pot), XII, b 321-2; (Landlord and Tenant), XIV, a 273-7; (India), XII, b 808-11; (Real Estate), XX, b 317-21; (Registration), a 355-6; Irish, XIII, a b 226, a 233-4, a 242, b 278; (Landlord and Tenant), XIV, b 277-8; Roman (Agrarian Laws), I, b 256-8; (Roman Law), XX, a b 690, b 691-2, b 693, a 694; Spartan (Lycurgus), XV, a b 98; United States, XIV, a 266; (Homestead), XII, b 125-7. See Land grants and Land tenures
- —— League (Ireland), XIII, b 277
- —— *of the Lion and the Sun*, Wills (Persia), XVIII, b 640-1
- Land, orientalist (Syriac Literature), XXII, a 877, note, a 879, note
- Landowners, list of (England), VIII, b 201
- —— -presser (Agriculture) (Ill.), I, a 285
- ——, productive, aggregate of (America), I, a b 629
- ——, public (Mexico), XVI, b 902; Roman (Agrarian Laws), I, b 256-8; United States (Homestead), XII, b

Land, *continued*
125-7; (Schools), XXI, b 907; (United States), XXIII, a 812, a b 814, a 824, b 882-3
——, Rent, XX, b 414-6; in England (Tithes), XXIII, b 439, a 440. See Rent
Land Systems (Leslie, T. E. C.), XIV, b 477, a 478
—— tax. See Taxation of land
—— tenure (Agriculture), I, a 361-2, b 367-8; (Allodium), b 516-7; (Canada), IV, a b 685, a 689; (Cattack), V, a 212; (Commons), VI, b 186; (Corfu), a b 351; (Corporation), a b 384; (Denmark), VII, b 71; (Estremadura), VIII, b 497; (Feu), IX, b 104-5; (Feudalism), b 107-8; (France), b 458; (Gavelkind), X, a 107; (Greece), XI, a 79; (Homage), XII, a 110; (Hungary), a 385; (India), b 808-11, b 833-4; (Ireland), XIII, a 225-8, b 233-5, b 263-4; (Italy), b 461-2; (Jersey), a 645; (Knighthood), XIV, a 113, a 114-7; (Landlord and Tenant), a 273-8; (Littleton), a 710-1; (Lombards), b 824; (Madeira), XV, a 179; (Madras), a 187; (Mahrattas), a 292; (Maldah), a 330; (Man, Isle of), a 460; (Mexico), XVI, b 218; (Milan), a 304; (Military Frontier), a 308; (Mohammedanism), a 613; (Murshidábád), XVII, a 70; (New Zealand), b 484; (Norfolk), a 550; (N. W. Provinces), b 586; (Oudh), XVIII, a 76; (Poland), XIX, b 321-2; (Posen), a 575; (Prince Edward Island), a 760; (Prussia), XX, b 15, note; (Russia), XXI, b 90-2; (Samara), a 255; (Saxe-Altenburg), b 362; (Seisin), b 657; (Scotland), b 516, a 554-5; (Scutage), a 600; (Slavery), XXII, a b 144; (Socage), b 216; (South Australia), b 298, a 299; (Udal), XXIII, a 763; (United States), b 878; Arabian (Spain), XXII, b 324; early English (England), VIII, b 248-9; (Folk-Land), IX, b 312; German ancient (Land), XIV, a b 262; Hebrew (Jubilee), XIII, b 769; patroon system (Van Rensselaer), XXIV, b 876; Peruvian (America), I, b 611; Slavonic (Slavs), XXII, b 155; Turkish (Army), II, b 539. See Land Laws, Tenures
—— titles (Mexico), XVI, b 900; English (Campbell, Lord), IV, b 669; (Conveyancing), VI, a b 288; (Registration), XX, a 355-6
Landa, Diego de, author (Mexico), XVI, b 216, *a* 222
Landak, province (Borneo), IV, a 50, a b 51, b 52, a b 53
Landana, station (Loango), XIV, b 749
LANDAU, town, XIV, b 271
——, Yehezkel, rabbi (Tam), XXIII, b 44
Landeens or Zulus, race (Mozambique), XVII, a 14; (Zambesi), XXIV, b 804. See Zulus
LANDEN, John, mathematician, XIV, a 272; (Infinitesimal Calculus), XIII, b 65, a b 70
LANDER, John and Richard, explorers, XIV, b 272; (Africa), I, b 220, a 221; (Clapperton), V, *b* 700; (Geography), X, b 171
LANDES, department, XIV, b 272-3
—— of Lanvaux, district (Morbihan), XVI, a 839
Landesgemeinde, assembly (Appenzell), II, a b 184; (Glarus), X, a 567; (Unterwalden), XXIII, *b* 915-6; (Uri), XXIV, a 16; (Zug), a 866
Landesrath, council (Glarus), X, a 567; (Uri), XXIV, a 16
Landfrid, duke of Alamanni (Salic Law), XXI, a 225
Landings in Buildings, IV, b 422
LANDLORD AND TENANT, XIV, a 273-8
  assignments, a 276
  contract, general view of, b 273-5
  covenants of lease, b 275-6
  distraint, a 275
  improvements, right to, a b 275
  Ireland, a 277-8
  Roman law, b 273
  Scotland, b 276-7
  sub-tenancies, b 274
  time-terms, a 274, b 276
—— (Distress), VII, b 231-2; (Hypothec), XII, a 633; (Ireland), XIII, a 225-6, b 233-4; (Italy), b 461-2; (Scotland), XXI, a b 555. See LAND
Landmann, Georg, mineralogist (Agricola, G.), I, a 258
Lando, Michele di, patriot (Florence), IX, a 293; (Medici), XV, *a* 794
Landois, L., physiologist (Touch), XXIII, b 511
Landolphia, plant (India-Rubber), XII, b 879-80
LANDON, Charles Paul, painter, XIV, b 278
LANDON, Letitia Elizabeth, poetess, XIV, b 278
LANDOR, Walter Savage, author, XIV, a 279-80; (Drama), VII, a 379; (Fiesole), IX, a 130; (Mill, John Stuart), XVI, a 323
Landport, town (Portsmouth), XIX, a b 549, a 550
Land-rail, bird (Rail), XX, b 229, note
Landrath, official (Prussia), XX, a 23
Landrecht, law system (Prussia), XX, *a* 23
Landrost, official (Cape Colony), V, a 43
LANDSBERG-AN-DER-WARTHE, town, XIV, b 280
Landsberger, orientalist (Syriac Literature), XXII, a 895
Landscape Drawing, VII, a b 389
—— painting, Dutch (Schools of Painting) (Ill.), XXI, a 459; (Asselyn), II, b 636; (Goyen), XI, b 21-2; (Hobbema), XII, a b 33; (Huysum), b 433; (Neer, Van der), XVII, b 323-4; (Rembrandt), XX, a 388
——, English (Callcott), IV, a 627; (Constable, J.), VI, b 264; (Cox), a 475; (Creswick), a b 503; (Crome), b 527; (Harvey, Sir G.), XI, a 448; (Macculloch), XV, a b 134; (Miller, W. J.), XVI, b 23; (Turner), XXIII, b 705-10
——, French (Claude Lorraine), V, b 711-2; (Corot), VI, b 382; (Diaz de la Peña), VII, b 148; (Lantara), XIV, b 290-1; (Rousseau), XXI, a b 33
——, German (Agricola, C. L.), I, b 258; (Dürer), VII, b 479; (Hildebrandt), XI, a 728; (Preller, F.), XIX, b 691; (Schirmer), XXI, *b* 415
——, Greek (Mural Decoration), XVII, b 47
——, Italian (Daniele), VI, b 711-2; (Titian), XXIII, a 443
—— stone (Marble), XV, a 536
Landseer, Charles, artist, XIV, b 280 note
LANDSEER, Sir Edwin Henry, painter, XIV, b 280-2; (Ornithology), XVIII, a 39 note; (Schools of Painting), XXI, b 461, b 464
——, John and Thomas, engravers, XIV, b 280, note
LANDSHUT, town, XIV, a 282; pass (Germany), X, b 403
Landskapslagarne (Sweden), XXII, b 791
Landsknechts (Army), II, a 528; (Maximilian I.), XV, b 651
LANDSKRONA, town, XIV, a b 282
Landslips (Switzerland), XXII, b 815-6
Landsmal language (Scandinavian Languages), XXI, b 390
Landsmannschaften (Universities), XXIII, a 904
Landsthing, legislature (Denmark), VII, a 72
Landsturm, army (Austria), II, b 528, a 529; (Germany), X, b 419, b 420
Landwehr, army (Austria), II, b 528, a 529; (Germany), X, b 419; (Stein), XXII, b 558; Prussian (Army), II, *a* 520, a 521, a 523
LANE, Edward William, Orientalist), XIV, b 282; (Architecture), II, a 392; (Baths), III, b 378; (Circumcision), V, b 690, a 691; (Dictionary), VII, b 156, *b* 164-5; (Egypt), *b* 607, note, a *b* 610, note, b 612, b 626, a 627, b 628, a 629, a 631, a 666 note, b 667-a 668; (Thousand and One Nights), XXIII, b 337, a *b* 338
——, Sir Ralph, governor (Pipes), XIX, a 120; (Tobacco), XXIII, a 451
Lane's jar (Electrometer), (Ill.), VIII, b 110-1
Lane Theological Seminary (Cincinnati), V, b 685
LANFRANC, archbishop, XIV, a 283-4; (Berengarius), III, b 505; (England, Church of), VIII, *b* 333; (Hospital), XII, a 315; (Ireland), XIII, b 260; (Knighthood), XIV, a 114 note, a 115; (Scholasticism), XXI, a 439, a 440; (William I.), XXIV, b 606, a 608; (William II.), *b* 608
Lanfranchi of Milan, physician (Surgery), XXII, *a* 710
Lanfranco, Giovanni, painter (Domenichino), VII, b 302
LANFREY, Pierre, historian, XIV, b 284-5; (Academy), I, a 73; (Napoleon I.), XVII, b 232
Lang, Andrew, on myths (Zeus), XXIV, b 821. See List of Contributors
——, Margarethe, singer (Weber), XXIV, a b 495
Langat, river (Straits Settlements), XXII, a 616
Lang Darma, king, Tibet (Lāmāism), XIV, b 229-30; (Lhasa), XIV, b 498, b 501; (Tibet), XXIII, a 366, a b 367
Langdon, John, patriot (Sullivan), XXII, b 932
Lange, Christian, philologist (Scandinavian Languages), XXI, b 386
——, Friedrich Albert, historian (Evolution), VIII, b 672; (Lucretius), XV, b 55; (Ueberweg), XXIII, a 764
——, Joachim, philologist (Wolff), XXIV, *a* 665
——, Lorenz, traveller (Gobi), X, *a* 636, note
——, Ludwig, archæologist (Rome), XX, b 773 note, b 779 note, b 824
Langen, K. H. F. van, philologist (Sumatra), XXII, a 674
Langendijk, Pieter, dramatist (Holland), XII, a 90
Langen's gas collector (Iron) (Ill.), XIII, a 316
LANGENSALZA, town, XIV, a 285
Langenthal, valley (Silesia), XXII, a 58
Langethal, educator (Froebel), IX, *b* 696
Langey, Lord of, general (Bellai), III, a 469
Lang Fjelde, mountains (Norway), XVII, *a* 589
Langham, Simon, archbishop (Wycliffe), XXIV, *b* 744
Langia, genus (Nemertines), XVII, a 336, b 338
Langite (Mineralogy), XVI, b 418
Langkat, town (Sumatra), XXII, b 672
Langkawi, island (Malay Peninsula), XV, b 323
Langlade, Charles de, frontiersman (Wisconsin), XXIV, *a* 652
LANGLAND or Langley, William, poet, XIV, a 285-6; (England), VIII, b 292; (England, Church of), a 285-6; (English Language), b 353, a 355; (English Literature), a b 367

Langley, Alfred A., engineer (Railway), XX, a 251, b 252
——, Samuel P., astronomer (Signal Service), XXII, a 904, a 905; (Smithsonian), a 915
Langlois, V., orientalist (Syriac Literature), XXII, a 896, note
Langobard, race (Lombards), XIV, b 822
Langobardum, Leges (Salic Law), XXI, a 227
Langosta, insect (Honduras), XII, b 134
Langren, J. F. van, geographer (Globe), X, b 608, a 609
LANGRES, town, XIV, b 286-7; plateau (Marne, Haute-), XV, a *b* 568
——, battle of (Arthur), II, a 571
Langshan fowl (Poultry), XIX, a 665
Langstroth's, L. L., hive (Bee), III, b 431, a 434
Langtoft, Peter, rhymer (English Literature), VIII, a *b* 366
Langton, Bennet, scholar (Johnson S.), XIII, a 737, a 740
LANGTON, Stephen, archbishop, XIV, a b 287; (England), VIII, a 276, b 284; (John, England), XIII, b 724, a 725
Lang-tsan-kiang river (Tibet), XXIII, b 360, b 363
Language (Alphabet), I, b 527-40; (Anthropology), II, a 104-6; (Ethnography), VIII, a 546-7; (Evolution), b 673; (Grammar), XI, a 34-7; (Inscriptions), XIII, b 120-2; (Mythology), XVII, b 144-8; (Phonetics), XVIII, b 824-5; (Psychology), XX, b 79-80, b 82, a 89; (Speech-Sounds), XXII, a 393-405; faculty of (Phrenology), XVIII, a 860; origin of (Condillac), VI, b 222; (Herder), XI, b 651; science of (Law), XIV, b 363; (Philology), XVIII, a 778-94; testimony of (Indians), XII, a b 863, a b 865; (Theism), XXIII, b 254
——, *origin and progress of* (Monboddo), XVI, b 745
——, sign (Deaf and Dumb), VII, a 8-9; (Pueblo Indians), XX, a 890. See Gesture
——, system of learning, (Hamilton), XI, a 371
Languages, classification of (Philology), XVIII, b 787-8, b 790, a 791-4; (Indians), XII, b 863
——, Dictionaries of, VII, a 158-68

List of especial articles on principal languages

——, Abyssinian, I, a 64; (Axum), III, b 140
——, Afghan, I, b 213
——, African Negro, XVII, a b 327; (Philology), XVIII, a b 794; Afnu (Houssa), XII, b 331-2; Mpongeva (Gaboon), X, a 5; Niam-Niam, XVII, b 487; Tibbu (Soudan), XXII, b 291; (Tibbus), XXIII, b 355
——, American Indian, I, a 604-6, b 614; XII, a 863-70; (Colombia), VI, a 140; (Mexico), XVI, a 215
——, Arabic, II, a 214, b 220-1, b 223, a 230; (Malta), XV, a 343; (Semitic Languages), XXI, b 682-5
——, ARMENIAN, II, a 482
——. ARYAN (Philology), XVIII, a 794-803
——, Australian, III, a 98
—— of Babylonia, III, a b 166
——, Balinese, III, b 243
——, Bantu-Kaffre, XIII, a 829-30; (Philology), XVIII, b 793-4; (Zululand), XXIV, b 866-7
——. Basque (Philology), XVIII, b 793
——, Bechwana, III, a 413; Bushmen, IV, a 513
—— Bohemian. See Bohemia
——, Burmese, IV, b 495-6
——, Cambodian, IV, a 642
——, CELTIC, V, b 258-60, a 283-5
——, CHINESE, V, a 567-73
—— of Cochin China, VI, a 88
——, Coptic, VI, b 314-5
——, Danish (Denmark), VII, b 78-9; (Scandinavian Languages), XXI, a 389-90
——, DUTCH (Holland), XII, a 87-93
——, Egyptian, VII, a b 625
——, Esthonia, VIII, a b 496
——, Ethiopic, VIII, b 538-9
——, Etruscan (Etruria), VIII, b 560-1
—— of Europe, VIII, a 613-6
——, ENGLISH, VIII, b 349-60, a b 365; (England), b 246, a 253, b 269-70, b 292, a b 307; (France), IX, b 554, b 560; (Mexico), XVI, b 903; Old (Robert of Gloucester), XX, a 612; modern dialects, VIII, a b 358; spoken (Accent), I, b 77, a 78-9; (J), XIII, a 538; (Y), XXIV, *a* 758; vowel sounds (A), I, a b 9-10
——, FRENCH, IX, a 554-61
——, Frisian, IX, b 692-3
——, GAELIC, X, b 7-9
——, Galla, X, a 35, note
——, Georgia, X, b 389, a 390
——, GERMAN, X, b 422-3, a 461-7
——, Gilgit, X, b 533
——, Gipsy, X, b 549, a b 551
——, GOTHIC, X, a 757-9
——, GREEK, XI, b 112-21; modern (Greece), b 104, b 106, a 132
——, Guanche (Canary Islands), IV, a 703
——, Hawaiian, XI, b 472
——, HEBREW, XI, a 531-7
——, HINDUSTANI, XI, b 749-52
——, Hottentot, XII, b 325-6
——, Hungarian, XII, b 389-90
——, Icelandic, XII, a 655, b 663-5; (Scandinavian Languages), XXI, b 383-5
—— of India, XII, b 816-8, a 831; (Asia), II, b 609, a 610; (Kashmir), XIV, a 14. See HINDUSTANI and SANSKRIT
——, Indian. See American Indian
——, IRANIAN (Persia), XVIII, a 665-8
——, ITALIAN, XIII, a 501-9
——, Kaffre. See Bantu-Kaffre
——, Kafir, XIII, b 831-2
——, Kurdish, XIV, b 158
——, Lapp, XIV, a 307; (Ural-Altaic), XXIV, a 5
——, LATIN, XIV, a 327-43
——, Lettish or Lithuanian, XIV, a 709
——, Magyar. See Hungarian
——, Malagasy (Madagascar), XV, a 172
——, Malay, XV, b 327-8; (Indian Archipelago), XII, b 857; Batak (Battas), III, a 383
——, Miautze, XVI, b 232
——, Mongol, XVI, a 776
—— of Nubia, XVII, a b 627
——, Oscan, XVIII, b 58
——, PAHLAVI, XVIII, a 139-40
——, PALI, XVIII, a 187-90
——, PAPUAN, XVIII, a 235; (Polynesia), XIX, a b 436, notes, a 437
——, PERSIAN, XVIII, a 665-8
——, Phœnician, XVIII, b 815
——, Phrygian, XVIII, b 867
——, PROVENÇAL, XIX, b 892-7
——, ROMANCE, XX, a 678-86
——, Russian (Slavs), XXII, *b* 517
——, Sabæan (Semitic Languages), XXI, b 685-6; (Yemen), XXIV, a 777
——, SANSKRIT, XXI, a 282-6
——, SCANDINAVIAN, XXI, b 381-91
——, SEMITIC XXI, a 673-8
——, Shan, XXI, b 811. See Siamese
——, Siamese, XXI, a b 895
—— of Sicily, XXII, b 30-1
——, SLAVONIC, XXII, a 156-64
——, Somali, XXII, b 269
—— SPANISH, XXII, a 360-6
——, Swahili, XXII, *b* 767
——, Swedish (Scandinavian Languages), XXI, b 386-9
——, Tamil, XXIII, b 46-8
——, Tárapon (Polynesia), XIX, b 440-1
——, Tibetan, XXIII, a 368-70
——, TURKISH, XXIII, b 703-4
——, Turanian (Babylonia), III, a 160. See URAL-ALTAIC
——, URAL-ALTAIC, XXIV, a 5-7
——, Urdu (Hindustani), XI, a 749-52
——, Wallon, XXIV, b 353
——, Ynca (Peru), XVIII, a 690, a 693
——, Yoruba, XXIV, b 792
——, Zulu, XXIV, b 866-8
See specific names of COUNTRIES AND RACES
Langue des Calculs (Condillac), VI, b 221, b 222
LANGUEDOC, province, XIV, b 287-8; (Camisards), IV, b 656-7, a 658; (Dominic, St.), VII, a b 306-7
—— canal, IV, b 691, a b 695
Langue d'Oc, language, XIV, b 287; (Provençal Language), XIX, b 893; (Romance) XX, b 666; poems in (France), IX, a b 569
—— d'Oil or Oui (France), IX, b 561, a 569; (Romance), XX, b 666; (Wallon), XXIV, b 353
Langues, divisions (St. John of Jerusalem), XXI, a 183, *a* 184
LANGUET, Hubert, diplomatist, XIV; b 288-9
Langûti, loin-cloth (Cambodia), IV, a 642
Lan-ho, river (China), V, b 550
Laniarius, genus (Birds), III, a 659
Laniary teeth (Mammalia), XV, b 355
Laniere, Nicholas, composer (Music), XVII, a 95, note
Lanigan, John, historian (Columba, St.), VI, b 150
Laniidæ, family (King-Bird), XIV, b 82-3; (Shrike), XXI, a b 885
Lanista, trainer (Gladiators), X, b 562, a b 563
Lanius, genus (Jay), XIII, b 621-2; (Shrike), XXI, a *b* 885, note
Lanji, town (Bálágát), III, a 225
——, lake (Zaire), XXIV, b 801, a 802
Lankester, Edwin, naturalist (Ray), XX, b 314
——, Edwin Ray, zoologist (Mollusca), XVI, a 655, a 660, a 669, b 685, *b* 721, a 722; (Morphology), XVI, a 872; (Protozoa), XIX, *a* 861, *b* 876, *b* 877, b 880, *a* 883, b 885, *a b* 891; (Schizomycetes), XXI, b 416, b 417 note, b 422, a 423; (Tunicata), XXIII, a 654, b 658; (Vertebrata), XXIV, b 193, a 199, a 201, b 203; his classification (Zoology), a 851-3. See List of Contributors
Lanman, professor, philologist (Sanskrit), XXI, a *b* 283
Lann, headdress (Ireland), XIII, b 263
Lannemezan, plateau (Pyrénées), XX, a *b* 133
Lanner, bird (Falcon), IX, b4
LANNES, Jean, marshal, XIV, a b 289; (Portugal), XIX, a 566
Lannoy, Juliana Cornelia de, baroness (Holland), XII, b 99
Lanona, town (Celebes), V, a 251
LA NOUE, François de, Huguenot captain, XIV, b 289-90; (France), IX, b 575, b 576
Lansdell, H., on Russian exiles (Prison Discipline), XIX, a *b* 782
Lansdowne, Henry Petty Fitzmaurice, 2d marquis of (Jenner), XIII, b 635

Lansdowne, Henry Petty Fitzmaurice, 3d marquis of (Pitt), XIX, a 158, note

LANSDOWNE, William Petty Fitzmaurice, 1st marquis, XIV, a b 290; (Mirabeau), XVI, a b 517. See Shelburne

LANSING, Michigan, city, XIV, b 290

LANSINGBURGH, New York, village, XIV, b 290

Lanstad, Magnus Brostrup, poet (Norway), XVII, b 605

LANTARA, Simon Mathurin, painter, XIV, b 290-1

Lanterloo, game (Loo), XV, a 3

Lantern in Architecture, II, b 410; (Dome), VII, a 301, a 302; of Demosthenes (Archæology), II, b 316; in Spanish churches (Architecture), II, a 379

——, ancient (Lamp), XIV, a 248; Lighthouse (Ill.), XIV, a 626, b 635–6

—— MAGIC (Ill.), XV, a 212–4

LANTERN-FLY, XIV, a 291; (Insects), XIII, b 149, a 160

——pinion (Clocks)(Ill.), VI, a b 25, b 32 3

—— polariscope (Magic Lantern) (Ill.), XV, a 214

Lanthanite (Mineralogy), XVI, a 416

LANTHANUM, metal, XIV, b 291-2; (Chemistry), V, a b 470; (Mineralogy), XVI, a 416, b 420; spectrum of (Spectroscopy), XXII, b 30

Lantoir or Lantore, island (Banda Islands), III, *b* 267; (India), XII, *a* 833

Lanuvium, city (Juno), XIII, a b 788

Lanyards (Seamanship), XXI, b 624

Lanzarote, island (Canary Islands), IV, *b* 702, *b* 704, a 706

LANZI, Luigi, antiquarian, XIV, b 292; (Cimabue), V, a 680; (Domenichino), VII, b 302-3

LAOCOON, myth (Plate V), XIV, b 292–3

Laocoön group (Archæology), II, b 319

——, Lessing's treatise (Æsthetics), I, *b* 197; (Germany), X, b 479; (Lessing), XIV, *b* 480; (Winckelmann), XXIV, b 629

Laodice, queen (Cappadocia), V, a b 68

LAODICEA, cities of Asia Minor, XIV, a 293–4; (Colossians), VI, b 147, b 148-9; (Numismatics), XVII, *a* 667

——, city of Media (Persia), XVIII, a 598

Laodiceans, Epistle to the (Canon), V, b 9; (Ephesians, Epistle to the), VIII, b 407, *a b* 409–10; (Paul), XVIII, b 433

Laoghal or Loyal, mount and loch (Sutherland), XXII, a b 764

Lao Lai, philosopher (Lao Tsze), XIV, a 296

Laomedon, king (Troad), XXIII, a 620

LAON, town, XIV, a b 294; (Normandy), XVII, *b* 554, *a* 555; Globe, X, a b 607

Laopteryx, stone bird (Zoology), XXIV, a 925

LAOS or Lawa, Indo-Chinese people, XIV, b 294–5; (Siam), XXI, a 890, *b* 891, a *b* 892, *a* 894

LAO-TSZE or Laou-tsze, teacher, XIV, b 295–8
  biographical vestigia, b 295–6
  Tâoism, development of, b 297-8
  Tâo Teh King, contents of, a 296–7
  theology of, a b 297

—— (China), V, a 559, b 576–7, b 582–3; (Confucius), VI, a 231; (Julien), XIII, a b 780; (Tibet), XXIII, a 366

Laou-foo, river (China), V, a 551

Laou-ho Kow, town (China), V, b 549

Laou-shan, mountains (China), V, a 551

Lap and lead, slide valve (Steam-Engine) (Ill.), XXII, b 523-4, a b 525

Laparotomy (Surgery), XXII, b 707, *a* 727

LA PAZ, city, XIV, a 298; (Bolivia), IV, a 15, b 16, a 17

——, town (Mexico), XVI, a 223

—— de Ayacucho, department (Bolivia), IV, *a* 11, *a* 15, b 17

La Pérouse, strait (Saghalin), XXI, a 155

LA PÉROUSE, Jean-François Galaup de, explorer, XIV, a b 298; (Geography), X, b 169; (Saghalin), XXI, a 156

La Peyronnie, François Gigot, physician (Quesnay), XX, a 183

Lapham, I. A., meteorologist (Signal Service), XXII, a 904

LAPIDARY (Ill.), XIV, b 298–300; (Diamond), VII, b 142-3

Lapide, John à, realist (Reuchlin), XX, b 503

Lapilli, volcanic (Geology), X, b 216

Lapis Judaicus (Granite), XI, a 44

—— Lacedæmonius (Porphyry), XIX, b 535

LAPIS LAZULI, mineral, XIV, b 300-1; (Badakhshan), III, b 192; (Chili), V, a 541; (Hindu Kush), XI, b 748; (Mineralogy), XVI, a 430; (Ultramarine), XXIII, b 768-9

—— manalis (Mars), XV, b 576

LAPITHÆ or Lapiths, mythic race, XIV, a 301; (Theseus), XXIII, b 315

Lapithus, mount (Elis), VIII, a 130

La Place, Josua de (Amyraut), I, a 687

LAPLACE, Pierre Simon, marquis de, mathematician, XIV, a 301–4
  bibliography, b 304
  coefficients of, b 303-4
  Lagrange's theorem, b 304

LAPLACE, *continued*
  mathematical achievements, a 303–4
  Mecanique Clestek, production of, b 301–2
  personal qualities, b 302–3
  planetary inequalities, investigation of, b 301
  political life, a b 302
  potential function, b 303
  probabilities, theory of, a b 304
  Système du Monde, a 302
  youth, a 301

—— (Acoustics), I, b 96; (Aëronautics), b 175; (Astronomy), II, a 665, b 666, b 683, b 691, a 695, b 696, b 699, b 710; (Capillary Action), V, *b* 51, *a* b 52, a 55, b 58; (Earth), VII, a 519, b 520; (Electricity), VIII, a 10, a 24, b 25, a 34, a 95; (Hydromechanics), XII, b 459; (Lagrange), XIV, b 210; (Light), b 602, a 603, a b 610; (Moon), XVI, a 827, b 828, a 829; (Nebular Theory), XVII, b 319; (Poisson), XIX, a b 292, *a* 293; on lunar acceleration (Tides), XXIII, a 402; (Zodiacal Light), XXIV, b 835; (Zoology), b 839, a 840

Laplace's calorimeter (Heat), XI, a 496; equation (Mechanics), XV, b 704; operator (Quaternions), XX, b 170; prediction method (Tides), XXIII, b 394; problem (Probability), XIX, b 799, a *b* 800; theory (Tides), XXIII, *a* b 377, *a* b 378, b 380, b 381, a 382, *a* b 383, b 386, b 406

LAPLAND, country, XIV, a 305–8
  authorities, a 308
  ethnographical features, a b 306
  historical notes, b 307–8
  language and literature, a 302
  physical features, a b 305
  population, b 305–6
  superstitions, a b 307

—— (Deer), VII, b 23; (Meteorology), XVI, b 147: (Sweden), XXII, *a* 774, *b* 776, *b* 777, b 779, b 780; flora of (Polar Regions), XIX, a 341

Laplanders, XIV, a b 306; (Funeral Rites), IX, b 724. See Lapps

La Plane, French general (Glogau), X, b 611

La Plata basin (Gran Chaco), XI, b 42; (Meteorology), XVI, b 154, b 158. See PLATE river

La Plata, mountain (Colorado), VI, b 145

Lapo, Gianni, poet (Italy), XIII, a b 512

Lapong, town (Siam), XXI, b 892, a 894

LAPORTE, Indiana, town, XIV, a 308

——, reformer (Camisards), IV, b 657

LAPPENBERG, Johann Martin, historian, XIV, a b 308; (Pauli), XVIII, b 443

Lapp or Lappish language (Lapland), XIV, a 307; (Scandinavian Languages), XXI, a 382; (Ural-Altaic), XXIV, a 5; (Dictionary), VII, b 163.

Lappmann's capillary electrometer, VIII, a 115–6

Lapps, people (Lapland), XIV, b 305–8; (Polar Regions), XIX, a 341; (Russia), XXI, a 87, b 88; (Sweden), XXII, b 780

Laprade, Victor de, poet (France), IX, a 595

Lapsaki, town (Gallipoli), X, a 39

"Lapse doctrine" (India), XII, a b 848

Laptieff, explorer (Geography), X, *b* 170

Lapwai, mountains (United States), XXIII, b 847

LAPWING, bird, XIV, b 308–9; (Hoopoe), XII, a 159, note

LÁR, city, XIV, b 309

——, household god. See LARES

Lara, state (Venezuela), XXIV, a 152

Larache or Larash, town. See EL-ARAISH

Lara Jongran, ruins (Brambanan), IV, a 193

Laramie city (Wyoming), XXIV, a 749; mountains (Wyoming), *b* 743; (United States), XXIII, a 846

Larat, island (Timorlaut), XXIII, *a* 425

Laraxin or Larininic acid (Larch), XIV, a 312

Larceny, crime (Criminal Law), VI, b 520; (Possession), XIX, b 577; (Press Laws), XIX, b 730; (Theft), XXIII, a b 251; (Will), XXIV, a 605; (Witchcraft), b 655

—— Act (Embezzlement), VIII, b 147

LARCH, tree (Ill.), XIV, b 309-2
  cultivation of, a b 311
  description of, b 309-10
  destructive agencies, a 312
  economical uses of, a 310–1
  hop-poles, b 311
  pharmacy, a 312
  species of, a b 312

—— (Arboriculture), II, b 276, a 277, a 282; (Botany) (Ill.), IV, b 90, b 105, a 106, b 108, a 139, b 142; (Siberia), XXII, b 11, a 12; forests (United States), XXIII, a 861; joiner's (Building), IV, b 435

Larcom, Lucy, poet (Lowell), XV, b 31

LARD, XIV, b 312–3; (Adulteration), I, b 155; (Oils), XVII, b 765

LARDNER, Dionysius, scientist, XIV, a 313; (Brunel), IV, a 357

LARDNER, Nathaniel, theologian, XIV, b 313

Lardner's Cyclopædia, XIV, a 313

La Renaudie, Godefroy de Barri, seigneur de, conspirator (France), IX, b 493

Larentalia, festival (Lares), XIV, b 313
LARES, Roman deities, XIV, b 313–4; (Apparitions), II, a 177, b 178; (Fire), IX, *b* 200; (Penates), XVIII, b 499, a 500
Large, Robert, lord-mayor (Caxton), V, a 243
Large Minutes (Methodism), XVI, a b 197, a 198 note
LARGILLIÈRE, Nicolas, painter, XIV, a b 314
Largs, battle of, 1261 or 1263 (Norway), XVII, b 602; (Scotland), XXI, b 507
Lariboisière Hospital, XII, b 320
Laridæ, family (Birds), III, b 632, 646, a b 653, a b 655; (Gull), XI, a 243; (Ornithology), XVIII, b 35, note, a 46
La Rioja, plain (Logroño), XIV, *b* 814
LARISSA, Thessaly, town, XIV, b 314; (Numismatics), XVII, a 658; mountain (Greece), XI, a 74
LÁRISTÀN, province, XIV, b 314–15
LA RIVE, Auguste de, physicist, VII, b 37–8; (Aurora), III, a b 84; (Electricity), VIII, b 58, b 60, a 68
Larivey, Pierre de, dramatist (Drama), VII, b 366; (France), IX, a 574
Larivière, Mercier, publicist (Political Economy), XIX, a *b* 374
Larix, tree. See LARCH
LARK, bird (Ill.), XIV, a 315–7; (Birds), III, b 620; (Hoopoe), XII, b 158; (Ornithology), XVIII, b 34, a 51; (Pipit), XIX, a b 121; Mongolian (Manchuria), XV, a 474; moult of (Birds), III, a b 673
——, river (Cambridge), IV, a 644; (Suffolk), XXII, a 654
Larkhana, town (Shikárpur), XXI, a 840
Larkspur, plant (Horticulture), XII, b 255, a 258, a b 263
Larnaca, port (Cyprus), VI, *a* 660
Larne, town (Antrim), II, *b* 125, *a b* 126
LA ROCHEFOUCAULD, François, Duc de, moralist, XIV, a 317–8; (France), IX, b 583, *a* 584; (Longueville), XIV, *a* 878; (Retz), XX, *a* 503
Laromiguière, Pierre, philosopher (Condillac), VI, b 222, b 223; (Cousin), *a* 463
Larra, José de, author (Spain), XXII, b 375
Larrey, Dominique Jean, baron, surgeon (Ambulance), I, b 584; (Surgery), XXII, a 712
Lars, pastoral (Taylor), XXIII, b 97, a 98
Lartet, Edouard, archæologist (Dead Sea), VII, b 4
Larus, genus (Gull), XI, b 242, *a* 243
Larva, caterpillar (Bee), III, b 426, a b 429; (Butterflies and Moths) (Plates XXVII–XXXI), IV, a 527, a b 528, b 530, *a* 531; (Coleoptera), VI, a b 116, b 117, *a b* 118, *a b* 119, *a b* 120, *a b* 121; (Dragon-fly), VII, a b 335–6; (Echinodermata), a 544, b 546, b 548–9, a 550, a b 552, *a* 555; (House-Fly), XII, a 331; (Hymenoptera), a b 608, a 609, a 610; (Ichneumon-Fly), a b 666; (Insects), XIII, *a b* 153; (Metamorphosis), XVI, b 85; (Wasp), XXIV, b 412, *a* b 414; sex of (Insects), XIII, b 152
——, embryo (Amphibia), I, *b* 658, note, a 660, a 666, b 674; of hemichorda (Vertebrata), XXIV, a 203; (Mollusca) (Ill.), XVI, b 691, a 710; (Myriapoda), XVII, b 127; (Nematoidea), b 334; (Nemertines), b 340; (Polyzoa) (Ill.), XIX, a 447, b 448–9, b 454–5, b 456; (Salamandra), XXI, b 214–15; (Teredo), XXIII, a 202; (Tunicata), a b 647, b 652–3
Larvaceæ, order (Tunicata) (Ill.), XXIII, a 653–4
Larvalia, group (Vertebrata), XXIV, b 201, *a* 202
Laryngeal nerves (Anatomy), I, a 775; pouch (Voice), XXIV, b 293
Laryngitis (Throat Diseases), XXIII, *b* 340–1
Laryngoscope, mirror (Throat Diseases), XXIII, b 340, a 341; (Voice), XXIV, a 296
Larynx, organ of Voice (Ill.), XXIV, a b 293, a b 294, a 295–7; (Amphibia), I, b 672; (Anatomy), a 734, b 735; (Ape), II, a 145; (Mammalia), XV, a b 368; (Paralysis), XVIII, a b 261
Lasa, von der, und Heydebrandt (Chess), V, a 520, a 523, *a* 524
La Salas, sea tribe (Bornu), IV, b 54
LA SALLE, Illinois, city XIV, b 318–19
——, Antoine de, writer (France), IX, *b* 571
——, Jean Baptiste de, priest (Ignorantines), XII, a 739
LA SALLE, Robert Cavelier, Sieur de, explorer, XIV, a b 319; (Mississippi), XVI, a 547; (Missouri), b 550; (Texas), XXIII, b 223
Lasca, pseudonym (Grazzini), XI, b 71
La Scala family. See SCALIGER
La Scala, port (Patmos), XVIII, a b 418
LASCAR, East Indian sailor, XIV, b 319; (Hindustani), XI, b 750, note
Lascarato, Andrea, politician (Cephalonia), V, a 299
LASCARIS, Constantine, teacher, XIV, b 319; (Greece), XI, a *b* 133
LASCARIS, Joannes or Janus, teacher, XIV, b 319–20; (Greece), XI, a *b* 133
——, John, emperor. See JOHN IV., emperor
——, Theodore, emperor, Nicæa (Greece), XI, a 107
—— -Castelard, Paolo de, grandmaster (St. John of Jerusalem), XXI, b 183
LAS CASAS, Bartolomé de, bishop, XIV, a b 320; (Missions), XVI, b 536; (Oviedo y Valdez), XVIII, a 88; (Slavery), XXII, a b 146; (Spain), b 373; painting of (Mexico), XVI, b 229
—— de Tolosa, captain-general (Cuba), VI, a b 600
Lasco, John à, reformer. See Lasky
Lasethe mountains (Crete), VI, b 503, a 504
LA SEYNE, town, XXI, b 762; bay (Toulon), XXIII, a b 514
La Sila, mountains (Italy), XIII, a 449
Lasiocampa, moth (Butterflies) (Plate XXX), IV, a 531
Lasion, town (Elis), VIII, b 130
Lasionite (Mineralogy) (Ill.), XVI, b 422
Lasiorhinus, marsupial (Wombat), XXIV, a 671
LASKY or Laski, John or Johannes a Lasco, reformer. I, a 393; (Frisians), IX, b 692; (Presbyterianism), XIX, b 698–9, a 705, 716
Las Navas de Tolosa, battle of, 1212 (Almohades), I, b 522; (Spain), XXII, b 331
Las Palmas, town (Canary Islands), IV, *a* 703, a 704, a 706
Lassa, city. See LHASA
LASSALLE, Ferdinand, socialist, XIV, b 320–2; (Communism), VI, b 191, a 195; (Germany), X, *b* 460; (Heraclitus), XI, b 607; (Socialism), XXII, a 220, b 221, b 225, *a* b 226, a 227, a 229–30
Lassell, W. William, astronomer (Astronomy) (Ill.), II, a 710, a 712; (Herschel), XI, a 687; his Observatory, XVII, b 731; his reflectors (Telescope) (Ill.), XXIII, b 166, a 167
LASSEN, Christian, orientalist, XIV, b 322–3; (Sanskrit), XXI, a 295, a 300
Lassen's Peak (California), IV, *b* 620; (United States), XXIII, a 851
Lasso, Orlando di, musician (Music), XVII, b 91
Lasson, biographer (Eckhart), VII, a b 557
Lasswade, parish (Edinburgh County), VII, *a b* 571
Last, measure (Weights and Measures), XXIV, *a* 578
Last Judgment, paintings (Lucas), XV, b 40; (Memling), b 854, a 855; Michel Angelo's, XVI, b 242–3; (Sebastiano), XXI, b 646
——, oratorio (Spohr), XXII, a 427; (Music), XVII, a 107
Last of the Abencerrages (Chateaubriand), V, a 379
Last of the Mohicans, novel (Cooper, J. F.), VI, b 299, b 300
Lastadie, suburb (Stettin), XXII, b 571
Lastingham church, Crypt in, VI, b 591
Lastrea, fern (Botany) (Ill.), IV, a 95, b 145
Last Supper, Leonardo's painting (Bossi), IV, b 61; (Fresco), IX, b 679; (Leonardo), XIV, a b 458–9, b 461; (Morghen), XVI, a 850
Last Supper, painting (Perugino), XVIII, b 696
Las Vegas, springs (New Mexico), XVII, b 410
LATAKIA or Ladikiyeh town, XIV, a b 323
—— Tobacco, XXIII, b 453
Lát alphabet (Inscriptions), XIII, a b 124
Lata Via (Rome), XX, b 829, b 851, note
Latche, lake (Russia), XXI, b 80
Latch-Locks, XIV, a b 755
Late, island (Friendly Islands), IX, a 684
Lateau, Louise, peasant (Stigmatization), XXII, a 578
Latent charge (Electricity), VIII, b 36–8
—— heat, XI, a b 495–6; (Evaporation), VIII, b 641; of steam (Steam-Engine), XXII, a 503
—— knowledge (Hamilton), XI, *a* 373
Latera works (Sulphur), XXII, a 668
Lateral organs (Nemertines), XVII, b 338
Lateran basilica, III, a b 358, b 359; (Cloister), VI, a 36; (Rome), XX, b 826, b 855, a *b* 856, note, *b* 858, *b* 859
—— Councils, VI, a b 454; of 1059 (Nicholas II.), XVII, a 497; of 1112 (Paschal II.), XVIII, a 344; of 1139 (Rome), XX, b 810; of 1179 (Alexander III.), I, b 430; of 1215 (Benefice), III, b 483; (Confession), VI, a 229; (Innocent III.), XIII, b 90; (Liguori), XIV, a 644; (Monachism), XVI, a 736; (Penance), XVIII, a 498; of 1512 (Bibliography), III, b 569; (Julius II.), XIII, b 781; (Trent, Council of), XXIII, a 584
—— palace (Fontana, D.), IX, a 318; (Rome), XX, a b 857
—— synod, 649 (Martin I.), XV, a 589; (Monothelites), XVI, a 785
Laterite, mineral (Ceylon), V, a 314; (India), XII, *b* 775
Latex, emulsion (Botany), IV, a 77
"Lath" (Horse), XII, *a* 187
Latham, John, ornithologist (Kiwi), XIV, a 107; (Ornithology), XVIII, b 10, b 13, a 20; (Secretary-Bird), XXI, a 648, note; (Tapaculo), XXIII, a 54
——, Robert Gordon, physician and philologist (Africa), I, b 233, a 234; (Channel Islands), V, 341; (Goths), X, *a* 753; (Hamlet), XI, *b* 378, a 379; (Slavs), XXII, b 155 note; (Sydenham), a 845
LATHE, machine (Ill.), XIV, b 323–5; (Machine Tools), XV, b 153–5

Lathes, districts (England), VIII, a 197; (Hundred), XII, b 374; (Kent Co.), XIV, b 40
Lathing (Building), IV, b 451, a b 452
Lathordectus, genus (Arachnida), II, a 256
Laths, lumber (Saws), XXI, b 360
Lathyrus or sweet pea (Botany) (Ill.), IV, *b* 102, b 123; (Horticulture), XII, b 255, a 259; (Pea), XVIII, a b 452
Latiatuc (Hungary), XII, b 390
Laticiferous tissue (Physiology), XIX, a 55; tubes (Histology), XII, b 18
Latifrons, species of Whale, XXIV, b 554
Latifundia, estates (Land), XIV, a 262; (Rome), XX, a 780; (Slavery), XXII, a 141
LATIMER, Hugh, bishop, XIV, b 325–7; (Adulteration), I, b 159; (English Bible), VIII, a b 346; (Whist), XXIV, b 573
——, William, scholar (English Literature), VIII, a 370
Latina, Via (Rome), XX, b 829
Latin abbreviations (Palæography), XVIII, a b 169; Accent, I, a b 77; Alphabet, I, 528, b 536–7; (G), X, a 3; (Inscriptions), XIII, a 131–2; (N), XVII, a 166; (Provençal Language), XIX, a b 894
—— Altars, I, *b* 564
—— Anthology, II, b 93–4
—— Bibles, III, b 559
——, Byzantine empire (Constantinople), VI, b 274–5; (Greece), XI, a 106, a 107, b 132–3. See Byzantine and Empire, Eastern
Latin Christianity, History of (Milman, H.H.), XVI, b 335
—— Church (Apostolic Canons), II, b 170; (Canon), V, b 11–3; (Canon Law), a 16–9; (Celibacy), V, b 254–5; (Council), VI, a *b* 453; (Creeds), VI, b 495, b 497, a 498, a 499; (Hymns), XII, b 615–8; (Liturgy), XIV, a b 713; (Maronites), XV, a b 569; (Romance Languages), XX, b 683–4; discipline of (Penance), XVIII, b 497–8. See Roman Catholic
—— colonies (Rome), XX, b 763–4
—— Cross, VI, b 539, b 540
—— Dictionaries, VII, b 157, a b 159; (Ainsworth, R.), I, a 379; (Facciolati), VIII, b 738; (Forcellini), IX, a 346; (Milton), XVI, a 350; (Stephens), XXII, *a* 562
Latin Glossary (Ducange), VII, b 435
—— Grammar, XI, b 34, a 36, a b 37, a 38; (Perizonius), XVIII, a 559; (Scaliger), XXI, a 378; *Eton* (Lilye), XIV, b 650
Latini, people. See Latins
—— Inscriptions. See Inscriptions, Roman
LATIN LANGUAGE, XIV, a 327–43
  African age from Hadrian, b 338–9

LATIN LANGUAGE, *continued*
  archaic stage, b 328–9, a 330
  authorities, b 343
  characteristics of prose, b 333–4
  colloquial Roman speech b 336–7
  common features of primitive Italian tongues, b 327–8
  decay of classical, a 339
  destructive tendencies, a 330–1
  diplomatic use of, a b 343
  ecclesiastical, early, a 339–41
  epochs of, b 331
  Flavian age, b 337–8
  Greek element in, b 331–2
  Horatian age, a b 335–6
  inflections, Romance, b 341
  Italian primitive languages, a 327–8
  literary language, rise of, b 329–30; modern use of, a 342–3
  Livy, b 335–6
  Lucretian age, b 334–5
  mediæval use, b 341–2
  modern use of, b 342–3
  Neronian age, a b 337
  Ovid, a b 336
  Plautus to Lucilius, a 332–3
  pronunciation, a b 331; ecclesiastical, a 340–1
  prose, growth of classical, a 333–4
  Romance, phonetic changes, a b 341
  Tacitus, a b 338
  Varro to Ovid, a 334–6
—— (Adrian, Cardinal), I, b 151; (Cæsar), IV, b 567; (Corssen), VI, a 390; (Erasmus), VIII, b 457; (Europe), a 614; (Festus, S. P.), IX, b 103; (France), *a b* 554, *a b* 555, *a* 556; (Greece), XI, b 114, b 115, a b 116, a 117, b 120; (Hungary), XII, b 390; (Præneste), XIX, b 674, note (Valerius Maximus), XXIV, *a* 48; (Varro), a 102; barbarous (Romance Languages), XX, a 684–5; development of (Pacuvius), XVIII, b 134; modern study of (Education), VII, b 583, *a* 584, *a* b 585, a 587; (Shakespeare), XXI, b 787–8; vernacular (Romance Languages), XX, a b 678–83
Latin Language, Elegances of (Valla), XXIV, b 48
—— League (Latium), XIV, b 344–5; (Rome), XX, a 759–60
—— Literature. See ROMAN LITERATURE
—— manuscripts (Palæography), XVIII, b 155–9, b 169–70; (Papyrus), b 237
—— poetry, classic. See ROMAN LITERATURE; modern (Landor), XIV, a b 279, a 280
—— Rights, franchise (Latium), XIV, b 345
—— Union (Money), XVI, a 758 note, a 761, a 764
——juniores, class (Slavery), XXII, b 141
Latins or Latini, people (Aborigines), I, a 53; (Italy), XIII, b 453, a 454; (Latium), XIV, b 344, b 345; (Roman Law), XX, a b 686; (Rome), b 750, a 751, a 758, a *b* 759
Latitat, Writ, XXIV, a *b* 730
Latitude (Geography), X, *b* 176; (Map), XV, b 523, a 524, *a* 525; celestial (Astronomy), II, a 674; co-ordinates, transformation of (Surveying), XXII, a 743; deflections of (Earth), VII, a b 521–2; determination of (Geodesy), X, a b 149, a b 152, a 153; (Geography), a b 177; (Navigation), XVII, b 275–8; Bond's method (Navigation), b 262; Wright's method (Navigation), b 261; (Pytheas), XX, b 150; reconnaissance (Surveying), XXII, a b 749
——, generative forces and (Tides), XXIII, a b 381, *a* 388; and longitude (Ptolemy), XX, b 97–8, a 100; of stations (Surveying), XXII, b 736
Latitudinarianism (Locke), XIV, a 763
LATIUM, country, XIV, b 343–5; Antiquum, b 343–5; Novum or Adjectum, b 343, b 345
—— (Æneas), I, a 165; (Italy), XIII, a 454, a b 456; (Numismatics), XVII, a 653; acquisition of (Rome), XX, a 760
Latmian Gulf (Ionia), XIII, b 211; (Caria), V, b 90
Latmus, mountains (Asia Minor), II, a 617; (Caria), V, b 90
LATONA or Leto, goddess, XIV, b 345–6; (Apollo), II, *b* 162; (Mythology), XVII, *b* 160, note; (Niobe), b 526
Latopolis, town (Egypt), VII, b 678; (Esneh), VIII, b 483
La Torre, epigrammatist (Owen), XVIII, b 88
Latouche, Hyacinthe Thabaud, or Henri de, poet, (Chénier), V, *a* 505; (Dudevant), VII, b 439, a 400
La Tour, Jacques de, abbot (Trappist), XXIII, b 557
Latour, Maurice Quentin de. See TOUR
La Trappe, monastery. See TRAPPE
LATREILLE, Pierre André, naturalist, XIV, b 346; (Amphibia), I, *b* 657, *a* 658; (Ant), II, b 84, b 85; (Arthropoda), a *b* 566; (Myriapoda), XVII, a 123, b 124; (Reptiles), XX, a 447, b 448
Latria, adoration (Mary), XV, b 598
Latrobite (Mineralogy), XVI, a 438
Latrunculi, game (Draughts), VII, a 384
Latsan Khan, Calmuck prince (Lhasa), XIV, b 502
Latschen, shrub (Pine), XIX, b 112
Lattan, mosque (Gaur), X, b 103
Latten, alloy (Metal-Work), XVI, b 82
Latter Day Pamphlets, Carlyle (Hudson, G.), XII, a 346
Latter Day saints (Mormons), XVI, a 852, a 855; reorganized (Mormons), a b 854
Lattice girder (Bridges), IV, a 286, b 288
Laubach, river (Frisians), IX, *a* b 692
LAUBAN, town, XIV, b 346–7
Laube, Heinrich, poet (Drama), VII, a 383; (Germany), X, b 487; (Grillparzer), XI, b 175, a 176
Lauber or Läber, Dypold, scribe (Typography), XXIII, a 725
LAUD, William, archbishop, XIV, a b 347; (Book), IV, b 35–6; (Charles I.), V, b 351, a 352; (Chillingworth), a b 543; (Clarendon), a 703; (England), VIII, b 310, b 311; (England, Church of), b 338; (Fool), IX, b 320–1; (Hall, Joseph), XI, *a* 348; (Independents), XII, a 765; (Milton), XVI, a 338, a 339, b 340; (Missions), b 537; (Montrose), a 822; (Oxford), XVIII, a 101; (Pocock), XIX, a 265; (Prynne), XX, *b* 30, *a* 31; (Reading, a 317; (Scotland), XXI, b 533, *a* 534; (Taylor), XXIII, *a* 100; (Typography), a 740; his statutes (Universities), b 908
Lauda Sion (Plain Song), XIX, b 180
Laudan, river (Aral), II, b 268
Laudanum, drug (Opium), XVII, a 816
Laudationes (Roman Literature), XX, a 736
Lauder, town (Berwickshire), III, b 529, *a* 530
LAUDER, Sir Thomas Dick, author, XIV, a 348
Lauderdale, district (Berwickshire), III, a 529
——, James Maitland, earl (Political Economy), XIX, b 383, a 384, a 393
——, John Maitland, duke of (Burnet), IV, *a* 502; (Dundee), VII, b 464; (Maitland), XV, b 310; (Presbyterianism), XIX, b 702, *b* 703, a 707; (Scotland), XXI, *b* 537, *a b* 538; (Sharp), a *b* 816, *a* 817
—— house (Highgate), XI, b 723
"*Laudi*," poems (Italy), XIII, a 511
Laudonnière, Réné Goulaine de, commander (Florida), IX, a 298; (Hakluyt), XI, b 338
LAUENBERG, duchy and circle, XIV, a b 348; (Schleswig-Holstein), XXI, *a* b 432, b 434
Laufenburg, counts of (Hapsburg), XI, b 405
Lauffen, battle of, 1534 (Würtemburg), XXIV, a 738
Laughing (Respiration), XX, a 494
—— gas (Chemistry), V, b 444; (Poisons), XIX, b 291
—— jackass, bird (Kingfisher), XIV, b 84
Laumontite (Mineralogy) (Ill.), XVI, a 440
LAUNCESTON, Cornwall, town, XIV, b 348

LAUNCESTON, Tasmania, XIV, b 348; (Tasmania), XXIII, *a* 79
Launching (Shipbuilding) (Ill.), XXI, b 858-9
Laundy's *Quarter Squares* (Tables), XXIII, *a* 12
Laune des Verliebten, Die (Goethe), X, a 644
Laupen, battle of, 1339 (Switzerland), XXII, b 822
Laura, Petrarch's, XVIII, a b 720, b 721, b 723, a 724, a 725
Lauraceæ, order (Botany), IV, b 122, a 123, a 124
Lauræ, cœnobite cells (Abbey), I, a 17; (Monachism), XVI, a b 726
LAUREL, tree, XIV, b 348-50; (Butterflies), IV, b 531; (California), a 624; forests (United States), XXIII, a 860, a 862
Laurel de Apolo, poem (Vega Carpio), XXIV, a 134
Lauremberg, Hans Wilmsen, satirist (Germany), X, a 475
Laurenberg, Peter, physician (Saffron), XXI, b 153
Laurence of Lindores, monk (Scotland), XXI, b 513
LAURENS, Henry, statesman, XIV, a 350
LAURENS, John, general, XIV, a b 350
Laurent, Auguste, chemist (Chemistry), V, b 403; analyzer (Wave Theory), XXIV, a 477; and Castéhaz process (Coal Tar Colors), XVIII, b 902
Laurenti, Joseph Nicholas, naturalist (Reptiles), XX, b 446-7
Laurentian library (Florence), IX, a 291
—— mountains (Quebec), XX, *b* 171; rocks (America), I, b 596; (Distribution), VII, a 245, a b 247; (Geology), X, a b 290; (Greenland), XI, b 149; (Newfoundland), XVII, a b 392; (New Hampshire), a 401; (New York), *b* 464; (Quebec), XX, a 172; (Wisconsin), XXIV, b 649
Laurentius, St. See LAWRENCE, St.
——, antipope (Symmachus), XXII, a 850
Laurentum, city (Latium), XIV, *b* 344
Laurer-Stieda canal (Trematoda), XXIII, a 571, *a* 573
Laureti, Tommaso, painter, (Sebastiano), XXI, b 646
LAURIA or Loria, city, XIV, b 350
Laurite (Mineralogy), XVI, a 410
Laurium, mines of (Attica), III, b 52; (Greece), XI, a 80, b 89; (Mining), XVI, a 491
Laurus, genus (Laurel), XIV, b 348, a b 349; camphora (Botany), IV, b 80
——, Lauretus (Aëronautics), I, b 168
Laurustinus, plant (Botany), IV, a b 113
LAURVIK or Laurvig, town, XIV, b 350
LAUSANNE, town (Plan), XIV, b 350-1; (Gibbon), X, b 513, a b 514, b 517-8; (Switzerland), XXII, b 816, b 834; (Vaud), XXIV, *b* 125; college of (Court A.), VI, b 461
—— or Losannete, lake. See GENEVA, LAKE OF
Lausitz, district. See LUSATIA
Lautenthal furnaces (Lead), XIV, *b* 377
Lauth and Depoully process (Coal Tar Colors), XVIII, a 902
Lautite (Mineralogy), XVI, a 408
Lautrec, Odet de Foix, seigneur de, marshal (Francis I.), IX, a 608
Lautverschiebung, consonantal change (Germany), X, b 462
Lauzun, Antoine, Duc de (Montpensier), XVI, b 819
Lava, volcanic (Etna), VIII, b 553-4; (Geology), X, a 201, a b 216, b 330; (Granite), XI, a 45; (Hawaiian Islands), *a* 475; (Mineralogy), XVI, a 400, b 416; cones (Geology), X, b 221, *b* 224; streams (Geology), b 219-23; (Oregon), XVII, a b 847
Lavabo. See Lavatory
LAVAGNA, town, XIV, b 351; river (Italy), XIII, b 446
LAVAL, city, XIV, b 351-2
——, insurgent (Chouans), V, b 596
—— university (Quebec), XX, a 174, a 175
Lavalle, chief (Argentine Republic), II, b 432
Lavalette, F., speculator (Jesuits), XIII, b 665
La Vallette, John, master (St. John of Jerusalem), XXI, *b* 183
——, St. George von, naturalist (Reproduction), XX, *b* 424, a 435
Laval's separator (Milk), XVI, b 316
Lavandula, genus (Lavender), XIV, b 352-3
Lavant, river (Sussex), XXII, *a* 761
LAVATER, Johann Caspar, physiognomist, XIV, a b 352; (Fuseli), IX, *a* 749; (Germany), X, a 483; (Goethe), b 646, a 647, a 649, a 650, a 656; (Physiognomy), XIX, *a* 9; (Switzerland), XXII, b 836
Lavatera, genus (Horticulture), XII, a 255, a 259
Lavatory (Architecture), II, b 410; (Abbey), I, *a* 20, a 23, b 24
LAVAUR, town, XIV, b 352
La Vela, town (Venezuela), XXIV, a 152
Laveleye, Emile Louis Victor de, economist (Agriculture), I, b 365, a 369; (Political Economy), XIX, b 408, a 409; (Socialism), XXII, b 216, b 232
LAVENDER, plant, XIV, b 352-3; (Horticulture), XII, b 302
Lavendulan, mineral (Mineralogy), XVI, b 421
Lavenham, beet sugar mill (Agriculture), I, a b 339
L'Avenir, journal (Lamennais), XIV, *b* 240
Laver, Jewish (Holy Water), XII, a 109
Lavergne, Louis Gabriel Léonce Guilhaud de, political economist (Corn Trade), VI, a 369 note; (Political Economy), XIX, a 409
La Villemarqué, T. C. H. H. Marquis de, philologist See Villemarqué
Lavinium, city (Latium), XIV, *b* 344; (Penates), XVIII, b 499, a 500
Lavinius or Lanuvinus, Luscius, poet (Terence), XXIII, b 204
LAVOISIER, Antoine Laurent, chemist, XIV, b 353-4; (Alchemy), I, b 406, b 410; (Chemistry), V, b 400, b 401-2, b 403; (Electricity), VIII, a 10; (Fermentation), IX, b 81; (Fourcroy), *b* 431; (Gay-Lussac), X, b 110; (Liebig), XIV, b 569; his calorimeter (Heat), XI, a b 496
Lavui, district (Celebes), V, a 251
LAW, XIV, a 355-67
analytical and historical methods, a b 363
analytical jurisprudence, rise of, b 355-6
arbitrator, b 365-6
changes, modes of, a b 366
commands defined, a b 356
comparative jurisprudence, a b 367
custom, relation to law, a b 361, a b 363
definitions, a 355-6
ecclesiastical law, a b 360
English law, analytical view of, a 364-5
failure to include rules, b 358-9
historical method, b 362-5
imperative and declaratory terms, a b 359
international law, Austin's view of, a 357
legislative function, b 366-7
Maine's theories, a 365
naturalistic theories, a b 365
positive laws defined, b 356-7
right, scope of, b 361-2
Roman law, analysis of, b 363-4, b 365
scientific classification, difficulty of, b 362
societies not political, authority of, a 361
sources of, a b 358
sovereign authority defined, b 357-8, b 359-61

—— (Bentham), III, a b 497, a 498; (Blackstone), b 695-6; (Ethnography), VIII, a b 548; (Government), XI, b 9-10, b 14-5; (Hooker), XII, b 155; (Leibnitz), XIV, a 423; (Lotze), XV, b 16; (Plato), XIX, b 219-20; (Stoics), XXII, b 597-8; (Suarez), b 648; (Vico), XXIV, a 229-30; (Zachariae), b 800-1. See Constitution, Legislation, Statute, Droit, Government, Hobbes, Jus, Lex
—— Aztec (Mexico), XVI, b 218
——, Babylonian, III, a b 166
——, BREHON. See BREHON
——, Cean, V, b 298
——, Chinese, V, b 560, a 562
——, CIVIL, V, a b 696; (Arbitration), II, b 273; (Accursius), I, a b 86; (Brachylogus), IV, a 178; (Breviarium Alaricanum), b 234-5; (Bynkershoek), b 537; (Cape Colony), V, b 43; (College), VI, b 128; (Consanguinity), a 260; (Corporation), b 382-3; (Ecclesiastical Law), VII, a 543; (Gravina), XI, a 59; (Heresy), a 658; (Libel and Slander), XIV, b 504, a 505-6; (Mortgage), XXI, a 875. See CANON LAW, JUSTINIAN and ROMAN LAW
——, classification of (Thibaut), XXIII, b 322
LAW, COMMON, VI, a 186; (Brehon Law), IV, a 228; (Burial, etc.), a 480; (Canon Law), V, *b* 20-1; (Game Laws), X, a b 56; (Hiring), XII, a 3; (Indictment), a 884; (Riot), XX, a b 579-80; (Sale), XXI, a b 216, b 217. See COMMON LAW and Law, English
——, CONSTITUTIONAL. See CONSTITUTION
——, Cretan, VI, a 505, note
——, criminal. See CRIMINAL LAW
LAW, ECCLESIASTICAL. See ECCLESIASTICAL LAW
——, Egyptian, ancient, VII, a 624; modern, a 628
——, English, XIV, a 358, a 364-5, a b 366, a b 367; (Action), I, b 122-3; (Alimony), a 508; (Appeal), II, b 183; (Arbitration), a b 274; (Arrest), a b 550; (Bacon), III, a 181; (Canon Law), V, b 20, b 21; (Code), VI, a 96-7; (Coke), b 109; (Copyright), a 316-23; (Divorce), VII, b 261-3; (Education), b 589-90; (Ejectment), a b 687; (Equity), VIII, a 452-3; (Evidence), a 647-52; (Forest), IX, a 360-1; (Gaming), X, b 60-1; (Heresy), XI, b 659-60; (Husband and Wife), XII, b 416-7; (Infant), XIII, a 3, b 4; (Infanticide), b 5-6; (Inheritance), b 83-4; (Injunction), a 85-6; (Innkeepers), a 88-9; (Insanity), b 117-9; (Interpleader), b 203; (Intestacy), b 203-4; (Judge), b 772-3; (Judgment), b 774; (Judicature), b 774-5; (Labor and Labor Laws), XIV, a 167-71; (Landlord and Tenant), b 273-6; (Libel and Slander), b 504-7; (Littleton), b 709-11; (Mandate), XV, a 479; (Marriage), b 572-4; (Master and Servant), a b 627; (Partnership), XVIII, a 335-7; (Piracy), XIX, a b

Law, *continued*
126; (Pleading), b 229, note; (Pledge), a b 232; (Poor Laws), a 477 95; (Press Laws), b 729 31; (Railway), XX, a b 261; (Real Estate), b 317-20; (Roman Catholic Church), b 647-8; (Simony), XXII, a 92-3; (Statute), b 485-8; (Sumptuary Laws), b 678; (Sunday), a 689-91; (Theatres), XXIII, a 245-8; (Tort), b 482-3; (Treason), a b 559-62, notes; (Will), XXIV, b 602 5; Witchcraft, b 653 5; (Church History), V, a 669; (Witness), XXIV, *b* 657-8; (Women), a 674-6, a 677; (Writ), b 728-32
——, English, early (Alfred the Great), I, b 447, a 448; (Bracton), IV, a 178; (Britton), a 321; reforms in (Brougham), a 339, a 340; (Campbell, Lord), b 669, a b 670. See COMMON LAW, English law and specific law terms
——, Fictions in, IX, a b 123
——, French (Arbitration), II, b 273; (Beaumonoir), III, a 404; (Divorce), VII, b 264; (Government), XI, (Insanity), XIII, b 118; (Marriage), XV, a b 575, a 576; (Sedition), XXI, a 651; (Treason), XXIII, a 559, note; trials (Criminal Law), VI, a b 571. See *Code, Napoleon*, Law, Civil
——, German (Canon Law), V, b 20; (Copyright), VI, b 323; (Insanity), XIII, b 118; (Land), XIV, a b 262, a 265; (Law), a 360; (Marriage), XV, a 576 note; (Periodicals), XVIII, b 552; (Press Laws), XIX, b 732; (Prussia), XX, a 23; (Sedition), XXI, a 651; (Treason), XXIII, a b 559 notes, b 561 note
——, Gothic codes, X, b 756
——, Greek, XI, b 77; (Ceos), V, b 278; (Crete), VI, a 505, note; (Demosthenes), VII, b 60; (Draco), a 333; (Isæus), XIII, b 387-8; (Inscriptions), b 128; (Lycurgus), XV, b 96-8; (Pittacus), XIX, b 159-60; (Solon), XXII, a 267-8
——, Hindu, XIV, b 360; (Adoption), I, b 149; (Brahmanism), IV, a b 184; (Code), VI, b 97; (Colebrook), b 114; (India), XII, a 822-3; (Infanticide), XIII, a b 5; (Macaulay), XV, b 128 9; (Sanskrit), XXI, b 301-2. See Manu
LAW, INTERNATIONAL, XIII, b 196 202; (Ambassador), I, *b* 578; (Arbitration), II, b 274-5; (Barbeyrac), III, b 313; (Canon Law), V, a 20; (Declaration of Paris), VII, b 20-1; (Diplomacy), a 219; (Fisheries), IX, a 235; (Gentili), X, b 144-5; (Grotius), XI, a 194, a b 195-6; (Marriage), XV, a b 575; (Moser), XVI, a 888; (Possession), XIX, b 576; (Prescription), b 725; (Prize), b 786; (Pufendorf), XX, b 105-6; (Real Estate), a 321; (Statute), XXII, b 488; (Stowell), a b 609; (Treaties), XXIII, a 554 6; (Will), XXIV, a 603; of preemption (Sale), XXI, b 219
——, Jewish (Canon), V, b 5-6; (Israel), XIII, a b 408-9, a 410, a 419, b 258-9; (Philo), XVIII, a 775, a b 776, a 777; (Maimonides), XV, a 293; (Midrash), XVI, a 297-300; (Mishnah), a 526; (Taboo), XXIII, b 22; (Talmud), a 40 3; (Tithes), a 438; abrogation of (Paul), b 428-9; authorship of (Pentateuch), b 523-4; Christ's adherence to (Gospels), X, a b 744; (Jesus Christ), XIII, b 672, b 680; development of (Priest), XIX, *b* 747, b 748; of holiness (Proselyte), b 845; Levitical (Bible), III, a 541, b 548-9. See Pentateuch
——, maritime. See SEA LAWS
Law of Master and Servant (Master and Servant), XV, b 627
LAW, MARTIAL. See MILITARY LAW
——, Mohammedan. See Mohammedan Law
——, personification of (Themis), XXIII, a 269
LAW, ROMAN. See ROMAN LAW
——, Shakespeare's knowledge of, XXI, a 806
——, Spanish. See Spanish Law
——, United States (Appeal), II, b 183; (Bankruptcy), III, a 297-8; (Copyright), VI, b 323; (Protection by Copyright), XIX, a 927-31; (Divorce), VII, a 264; (Husband and Wife), XII, a 418; (Infant), XIII, a 5; (Inheritance), a 85; (Injunction), a 86; (Insurance), b 188-9; (Intestacy), b 204; (Libel and Slander), XIV, a 507; (Marriage), XV, b 574; (Oyster), XVIII, a 113; (Partnership), b 337; (Patents), b 873-5; (Poor Law), XIX, b 495; (Press Law), a 731; (Railway), XX, a 264; (Statute), XXII, a 488; (Sunday), a 691; (Theatre), XXIII, a 248; (Tort), b 482; (Treason), a 563; (Will), XXIV, b 605; (Witchcraft), a 656; (Women), b 676; (Writ), a 733; treatises on (Kent), XIV, a 42; (Story), XXII, a 930. See United States Law
——, Welsh early (Celtic Literature), V, a 273, a b 276, b 280, b 284
—— and Gospel (Lutherans), XV, a 86; (Paul), XVIII, a 435
Law, Benjamin, inventor (Wool), XXIV, a 696
——, Edmund, bishop (Paley), XVIII, b 185, a 186
LAW, John, financier, XIV, a 367-9; (D'Aguesseau), VI, b 671-2; (Finance), IX, b 160; (France), a 515; (Mississippi), XVI, a 547; (Paterson), XVIII, a 365 note
LAW, William, theologian, XIV, b 369 70; (Boehme), III, a 742; (Methodism), XVI, a 193
Lawa, tribes (Laos), XIV, b 294 5; (Siam), XXI, a 892, a 894
Law-burrow-bonds (Scotland), XXI, a b 538
Laweman, author. See LAYAMON
LAWES, Henry, musician, XIV, a b 370; (Ford Thomas), IX, a 349; (Milton, John), XVI, a b 338, b 343
——, Sir John Bennett, agriculturist (Agriculture), I, b 304, b 314, a b 318, note, b 339
—— and Gilbert's experiments (Manure), XV, b 513, *a b* 514, a 515, a 516, a b 518
Lawi, mountain (Saráwak), XXI, b 321
Law Libraries. See Libraries, Law
—— lords (Appeal), II, b 182; (Parliament), XVIII, b 312
Lawn grasses (Horticulture), XII, b 254
Lawns (Horticulture), XII, b 253, a b 254
LAWN TENNIS, XXIII, a 198-9
"Law of the Three States" (Comte), VI, b 208-9
LAWRENCE, Kansas, town, XIV, b 370; (Kansas), XIII, b 852, a *b* 853
LAWRENCE, Mass., city, XIV, b 370-1
LAWRENCE or Laurentius, St., martyr, XIV, a 371
Lawrence, Bishop, Life of (Iceland), XII, a 662
LAWRENCE, Sir Henry Montgomery, governor-general, XIV, b 372-3; (Clive), VI, b 9; (Edwardes), VII, a *b* 596; (India), XII, *b* 847, b 849
LAWRENCE, James, captain, XXIII, b 838; (United States), b 808 note
LAWRENCE, John Laird Mair, viceroy, XIV, a 371-2; (India), XII, b 847, a 848, b 849, b 850; (Infanticide), XIII, b 5; (Missions), XVI, b 541
——, Stringer, major (Clive), VI, *b* 9, *a* 10, b 11
LAWRENCE, Sir Thomas, painter, XIV, b 373 4; (Schools of Painting), XXI, a 461
——, William Beach, jurist *b.* 1800, *d.* 1881 (Wheaton), XXIV, b 892
Law reports (Copyright), VI, a 321
Lawrie Todd (Galt), X, *b* 43
LAWS, GAME. See GAME LAWS
LAWS, LABOR, XIV, a 166-75
LAWS, RIPARIAN. See RIPARIAN
—— Russian, XXI, b 112
LAWS, SALIC. See SALIC
——, Siamese, XXI, a 892, a b 896
LAWS, SUMPTUARY. See SUMPTUARY
Laws, On the (Plato), XIX, b 207, *a* 214, b 215, *a* 217, b 221 2, b 223
Law-Schools. See Schools, law
Lawson, James A., judge (Political Economy), XIX, a 391
Lawsonia, plants (Henna), XI, *b* 583
Law-tree of Bassianus, III, b 367
Lawyers (Government), XI, b 18; (Law), XIV, a b 366; American, training of (Universities), XXIII, a *b* 961, a b 963; English (Costume), VI, a 423 4; (Precedence), XIX, b 686; training of (Inns of Court), XIII, b 93-4; French, (France), IX, a 480; exceptional (Quesnay), XX, b 182; voracity of (Insurance), XIII, b 189. See Advocate, Barristers, Counsel, Solicitor, Piracy
Laxdæla saga (Iceland), XII, *b* 659
Laxey, bay (Man), XV, b 457
Laxford, loch and river (Sutherland), XXII, b 763, a 764
Laxists in casuistry (Liguori), XIV, b 642, a b 645
Lay, river (Vendée), XXIV, b 149
——, H. N., inspector-general (Shanghai), XXI, *a* 809
—— Abbots, I, b 29
LAYAMON or Laweman, chronicler, XIV, a 374; (English Language), VIII, *b* 352, b 353, 359; (English Literature), a 365, a 366; (Shakespeare), XXI, a 776
Layard, Austin Henry (Costume), VI, b 496; (Ivory), XIII, b 532, b 533, b 534; (Libraries), XIV, *a* 509; (Nineveh), XVII, a b 525, note
Laybach, city. See LAIBACH
Lay Baptism, III, b 303-4
—— -brothers (Monachism), XVI, a 727, b 734
—— -days (Charter-Party), V, a 375
Layering (Botany), IV, a 86; (Horticulture) (Ill.), XII, b 217, a b 241; vines (Wine), XXIV, b 640
Layer Marney, manor (Terra-Cotta), XXIII, *a* 212
Lay-figure (Painting), XVIII, a 142
Laying machines (Rope) (Ill.), XX, a b 868
"Laying-off" in Shipbuilding, XXI, b 856
Laylonde, John, antiquary. See LELAND
Laynez, Diego, general (Jesuits), XIII, *a b* 663, *a* 664, a 667; (Trent, Council of), XXIII, a 583, b 584, b 586
Lay of the Last Minstrel, poem (Magic), XV, b 206; (Scott), XXI, b 572-3
Lay of Sancourt (France), IX, a 561
Lay-preachers (Methodism), XVI, b 194-5
Lay-representation (Methodism), XVI, b 197, b 198; (Snethen), XXII, b 916
Lays of Ancient Rome, Macaulay (Cocles) VI, a 92
Lay Torpedo, XXIII, b 479

Laz or Lazi, tribe (Caucasus), V, a 224; language (Georgia), X, a 390
Lazar Greblianovich, prince (Servia), XXI, a *b* 721
Lazarettos (Howard), XII, a b 335; history of (Quarantine), XX, a b 164
Lazarieh, village (Bethany), III, a 533
Lazarillo de Tormes, novel (Mendoza), XVI, b 13, a 14
Lazarites, Lazarists or Lazarians, missioners, XIV, a b 374; (Huc), XII, b 342; (Monachism), XVI, a 739, b 742
Lazarus, St., Order of, XIV, b 374
—— bar Sābhethā, bishop (Syriac Literature), XXII, b 889-90
—— of Bēth Kandasā (Syriac Literature), XXII, a 884
——, raising of (Gospels), X, b 744; (Jesus Christ), XIII, b 677
Lazarus, painting (Haydon), XI, b 483, a 484
Lazarus's Law (Annuities), II, *a* 77
Lazeano, Francesco, admiral (Caroline Islands), V, b 111
Lazhechnikoff, Ivan Ivanovitch, novelist (Russia), XXI, *b* 115
Lazica, district (Justinian I.), XIII, a 806
Lázistán, district (Persia), XVIII, b 623
Lazuli-finch, bird (Nonpariel), XVII, b 547
——. See Lapis Lazuli
Lazulite (Mineralogy) (Ill.), XVI, a 424
Lazy-tongs (Mechanics), XV, a 705
Lazzari, Maria Dominica, "L'Addolorata" (Stigmatization), XXII, a 578
Lazzaroni, beggars (Naples), XVII, b 197
Lé, town (Ladác), XIV, b 198, note
Lea, Matthew Carey, chemist (Photography), XVIII, b 839, a 841
Lea, measure of yarn (Linen), XIV, a 673
—— river (Hertford), XI, b 688, b 689; (London), XIV, a 827, a *b* 834, a 836, a 842, a 852; (Middlesex), XVI, b 291
Leabhar Breac or *Speckled Book* (Celtic Literature), V, b 265, a b 271, *b* 283
Leaching (Leather), XIV, b 382-3
Lead, metal (Ill.), XIV, b 374-9
  alloys, a b 378
  aqueous reagents, a 378
  extraction of, b 375-6
  Karsten's process, a b 377
  ores, b 374-5
  Pattinson's process, a 377
  properties of metal and oxides, b 377-8
  refining, b 376-7
  salts, b 378-9
  statistics, a 379

—— (Afghânistân), I, a 208; (Almeria), a 522; (America, North), b 597; (Brazil), IV, a 202; (Cardigan), V, b 83; (Chemistry), b 459, b 460-1; (China), a 557; (Clare), b 701; (Cumberland), VI, b 617; (Dubuque), VII, b 435; (Denbigh), b 67-8; (Dumfries), b 454; (England), VIII, a 207; (Flint), IX, a b 286; (Galena, town), X, a 23; (Germany), b 408; (Greece), XI, a 80; (Iowa), XIII, a 214; (Ireland), a 224; (Kansas), a 852; (Linares), XIV, b 659; (Metallurgy), XVI, a 67; (Metal-Work), b 78-9, a 83, a 84; (Mexico), b 907, b 908, b 909; (Mineralogy), b 397, a 416-7, b 419, a 423, b 424, a b 425; (Mining), b 487, b 489-93, a 494; (Missouri), a 549; (Montgomery County), a 815; (Northumberland), XVII, a 580; (Pembroke), XVIII, b 492; (Poisons), XIX, b 289; (Prussia), XX, *a* 19; (Somerset), XXII, b 271, b 272; (Spain), *b* 315, *a* 316; (Spectroscopy), b 390; (Tin), XXIII, a 487; (United States), b 863, a 864, b 868, a *b* 870; (Utah), XXIV, b 25; (Wisconsin), b 651, a 652; (Zinc), a 825
——, action of light on (Photography), XVIII, a 853
—— and lap, slide valve (Steam-Engine), XXII, b 523-4, a b 525
——, Black (Plumbago), XIX, a b 242
——, White. See White Lead
—— -chamber crystals (Chemistry), V, a 437, b 439
—— chromate (Organic Chemistry), V a 473
—— coated projectiles (Gunmaking), XI, b 263; coins (Money), XVI, b 749
—— cyanide (Prussic Acid), XX, b 28
Leaden Hall Market (London), XIV, *a b* 837, a 838
Leader, river (Roxburgh), XXI, b 39
Leaders, class- (Methodism), XVI, a 194, b 195, a b 196, a 197, b 200
Leadhillite (Mineralogy) (Ill.), XVI, b 394, b 416
Leadhills, village (Lanark), XIV, b 250, b 251; (Scotland), XXI, a 544
Leading Article (Newspapers), XVII, a b 422; screw (Machine Tools), XV, b 154; theme (Wagner), XXIV, a 336; wheels, locomotive (Steam-Engine), XXII, a 547
Lead-line (Seamanship), XXI, b 621
—— ore (Mineralogy), XVI, a 386, a 398, a b 403, b 407, b 410, a 415
—— oxide (Glass), X, *a* 583, a 585
Leadpencils (Nuremberg), XVII, a 682
Lead pipes (Water-Supply), XXIV, b 431
—— plaster and soap (Glycerin), X, b 622
——, plumber's (Building), IV, a 450
—— poisoning (Colic), VI, b 126, a 127; (Gout), XI, b 8; (Ophthalmology), XVII, b 806; (Paralysis), XVIII, b 261-2, b 417; (Pathology), a 397
Leads in Typography, XXIII, b 745
Leadville, town, XIV, b 379; (Lead), a 375, a 376; mines (Mining) (Plate), XVI, a b 492, a 493; ores (United States), XXIII, b 868
Lead vitriol, ore (Lead), XIV, a 375
Leadwork, glazier's (Building), IV, a 456; in mosaics (Glass), X, b 599, a 600
Leaf (Botany), IV, b 81; buds (Botany) (Ill. and Plates VI, XV), a 85-86
—— -cutting ants (Ill.), II, *b* 87
—— cuttings (Horticulture) (Ill.), XII, a b 244
—— mosses (Muscineæ) (Ill.), XVII, b 71, b 72, a 77-81
—— -rollers, caterpillars (Butterflies), IV, a 531
League, Augsburg, 1686 (France), IX, a b 510; (Holland), XII, a 84; (Spain), XXII, b 347
—— of Cambray, 1508, IV, a 643; (Reformation), XX, b 336; (Venice), XXIV, b 156
——, Catholic (Paris), XVIII, b 296, a 297
—— of Chambord (Henry II., France), XI, b 597
——, Clementine, 1526 (Reformation), XX, b 341
——, Everlasting (Switzerland), XXII, a 821; (Zurich), XXIV, b 870
——, Lombard (Piacenza), XIX, a b 72
——, Lycian (Lycia), XV, a b 94, a 95
—— of the Hague, 1674 (William III.), XXIV, b 610
—— of the Public Weal (Charles the Bold), V, b 367; (France), IX, a 487
—— of the Ten Jurisdictions (Switzerland), XXII, b 827, *a* 830
——, war of the (Montaigne), XVI, b 795, a 797; (France), IX, b 495-8; (Huguenots), XII, b 352
——, Swabian (Swabia), XXII, a 767; (Zug), XXIV, b 865-6
Leakage (Gas-Lighting), X, b 87; (Harbors and Docks), XI, a 419-20; inspection (Water-Supply), XXIV, a 432
Leake, William Martin, archæologist, XIV, b 379-80; (Asia Minor), II, b 623; (Dodona), VII, b 280; (Greece), XI, b 132, b 136
Leaks, stopping (Seamanship), XXI, a b 631; tests for (Sewerage), XXI, a 752
Leamington, town (Plan), XIV, a b 380; (Warwick), XXIV, a b 400
Leander and Hero, XI, a 674
Leane, Lough (Killarney), XIV, a 78
Leang dynasty (China), V, b 561
Leaning Tower or Campanile (Pisa), XIX, b 128, a 131
Leaou-ho, river (China), V, a 557; (Manchuria), XV, *b* 473
Leaou-tung, province (China), V, *b* 561, a 562, a *b* 563, b 564; (Manchuria), XV, *a b* 473, *a* 474
Leaou-Yang, city (Liau-Yang), XIV, a 504; (Manchuria), XV, a 473
Leaping (Athletic Sports), III, a 13; (Games), X, b 58
Leap year (Algebra), I, b 493; (Calendar), IV, *b* 591-2
Lear, Edward, artist (Ornithology), XVIII, b 15
——, Tobias, diplomatist (Washington), XXIV, b 411
Lear, King, play (Drama), VII, a 340; (Geoffrey of Monmouth), X, a 155; (Marston), XV, b 582; (Shakespeare), XXI, a b 774, *b* 800, a 805
Learned Societies, XXII, a 232-40; (Paris), XVIII, a 287
Learning, Revival of (Renaissance), XX, a 392-406
Leasehold (Ejectment), VII, a b 687; (Freehold), IX, b 656; conveyance (Sale), XXI, *a* 217; estates (Landlord and Tenant), XIV, a b 274
Lease system for convicts, Southern (Reformatories), XX, b 901-2, a 903
—— and tenant contract (Roman Law), XX, b 718
Leases (Agriculture), I, b 270, b 276, a 304, a b 361, a 362, b 364-5, b 367; (Game Laws), X, b 56, b 57; (Landlord and Tenant), XIV, b 273-4, b 275-8; (Settlement), XXI, a b 728; assignment of (Landlord and Tenant), XIV, a b 276; early (Agriculture), I, a b 262, a 263, a 265, b 269; Scotch (Land), XIV, b 269
Leashes, bundles (Weaving), XXIV, a 490, b 491, a 492
Leasing-making (Sedition), XXI, a 651; (Treason), XXIII, a b 562
Leasowes, estate (Shenstone), XXI, b 831
Least action, law of (Light), XIV, a 602
—— resistance, principle of (Mechanics), XV, b 758
Leather (Ill.), XIV, b 380-92
  alligator skin, a 389
  book and writing leathers, b 390-1
  commercial statistics, a 391-2
  currying (Ill.), b 386-8
  Danish leather, a 389
  dressing heavy leather, b 385-6
  enamelled leather, a 388
  grinding and leaching, b 382-3
  heavy or sole tanning, b 383-6
  kangaroo skins, a b 389
  morocco, b 388-9
  processes of tanning, b 384-5
  Russia leather, a b 388
  seal leather, a 388

LEATHER, *continued*
  Shamoy, b 390
  splitting, b 386
  structure of skin, a 381
  tanned leather, b 380–1
  tanning materials, a 381–2
  tawed leather, b 389-90
  testing tan liquors, a b 383
  upper leather, a b 386
—— (Chemistry), V, a 503; (Enamel), VIII, a 167; (Morocco), XVI, a 862; (Palæography), XVIII, b 148; (Tannin), XXIII, b 52
LEATHER, Artificial, XIV, a 392
——, mountain (Mineralogy), XVI, b 435
——, Russia, XIV, a b 388; (Birch), III, b 603
——, stamped (Mural Decoration) (Ill.), XVII, b 43
—— manufacture (Austria), III, b 105; (Cordova), VI, a 346; (India), XII, a 803; (Italy), XIII, b 463
Leather-stocking Tales (American Literature), I, a b 636; (Cooper, J. F.), VI, b 299, *a* 300
Leathery turtle (Tortoise), XXIII, b 486
Leaven (Baking), III, b 218, a 219. See Yeast
LEAVENWORTH, Kansas, city and fort, XIV, a 392; (Kansas), XIII, *a* b 853
Leavers, John, inventor (Lace), XIV, b 185–6, a b 190
Leaves (Botany) (Ill.), IV, b 96-107; (Grasses), XI, a 49; (Holly), XII, a b 105; (Horticulture), b 216-7; (Muscineæ) (Ill.), XVII, b 71, b 74, b 76, a b 77, a 78; (Palm), XVIII, a b 194; stomata of (Histology), XII, b 19, a 20; in tanning (Leather), XIV, a 382
Leaves of Grass, Whitman (American Literature), I, a 643
—— in Heraldry, XI, a 627
Le'azim, French annotations (Rashi), XX, a 298
LEBANON, district, XIV, a 392-5
  boundaries, a b 392
  flora and fauna, a b 393
  geography, b 393–4
  geology, b 392–3
  literature, b 395
  inhabitants, a b 395
  political divisions, b 394–5
—— (Cedar), V, b 247–8; (Druses), VII, b 417, b 419, a 420; massacres of, 1860 (Turkey), XXIII, *b* 692; sects (Roman Catholic Church), XX, *b* 646
LEBANON, Pa., town, XIV, b 395–6
Lebar Gabhala (Ireland), XIII, a 249
Lebda, city (Leptis), XIV, b 470
LE BEAU, Charles, historian, XIV, a 396
LEBEDIN, town, XIV, a 396
LEBEDYAN, town, XIV, a 396
Leben Jesu, Strauss (Jesus Christ), XIII, *b* 682, a *b* 683
Le Blanc, Nicolas, chemist (Chlorine), V, a b 589; (Sodium), XXII, a b 255, a 256, b 257
Le Bon, inventor (Arachnida), II, b 259
Lebon, Philippe, chemist (Gas-Lighting), X, b 79, b 91
Le Boulengé, chronograph (Gunnery), XI, a 265, b 266–7, a 268; (Gunpowder), a 295; Telemeter, XXIII, a 136
Lebreton, printer (Encyclopædia), VIII, b 179, a *b* 180, a 181
LEBRIJA, town, XIV, *a* b 396
LE BRUN, Charles, painter, XIV, b 396-7; (Girardon), X, a 555; (Mignard), XVI, b 301; his *Battles of Alexander* (Audran), III, b 61
Lebrun, Charles François, duke of Piacenza, consul (Constantinople), VI, a 275; (France), IX, b 539; (Napoleon), XVII, a b 210
——, Ponce Denis Écouchard, epigrammatist (Epigrams), VIII, a 425
Lecan, Book of (Celtic Literature), V, b 265, a 267
Lecanium coffeæ, bug (Coffee), VI, b 102
Lecanocrinus, genus (Echinodermata) (Ill.), VII, a 551
Lecanora (Lichens) (Ill.), XIV, *a* 557, a 558, a b 560, a 561, a *b* 562, *a* 563, a *b* 565, a *b* 566
Lecanoric acid (Lichens), XIV, a b 562
LECCE, city, XIV, a 397
LECCO, city, XIV, a b 397; lake of (Como), VI, *a* 196
Lecher, physicist (Radiation), XX, a 224
Lechevalier, Jean Baptiste, archæologist (Troad), XXIII, b 617, a 618
Lechfeld, battle of, 955 (Germany), X, b 434
Lechmere, Sir Edmund (St. John of Jerusalem), XXI, a 184
Lechriodonta (Amphibia), I, a 667, b 676
Lecidea, genus (Lichens), XIV, *a* 557, a 955, b 560, b 561, b 562, a *b* 565, *a* b 566
Lecithin (Physiology), XIX, *a* 60
Lecithophanic acid (Lichens), XIV, b 562
Leckhampton hill (Gloucester), X, a 614, a 615
Leckie, lagoon of (Yoruba), XXIV, a 792
Lecky, William Edward Hartpole, author (Grattan), XI, *a* 57; (Ireland), XIII, b 275, a 277; (Whitefield), XXIV, a 583
Leclanche battery (Blasting), III, b 703
Leclerc, George Louis Marie, general (Buffon), IV, a 398
LE CLERC, Jean, theologian, XIV, b 397–8; (Periodicals), XVIII, a 550
Lécluse, Charles de, botanist. See Clusius and Écluse, Charles l'
Le Conte, Joseph, physicist (Oregon), XVII, a 847; (Stereoscope), XXII, b 566, note
Lecoq de Boisbaudran, Paul Emile François, chemist (Gallium), X, *b* 39; (Spectroscopy), XXII, b 388, a b 389, *a b* 390, a 391, *a* 393, b 395
Le Côteau, town (Roanne), XX, a 604
Lecouvreur, Adrienne, actress (Saxe), XXI, b 361
LECTION, Lectionary, Lector, XIV, a b 398
Lectionaries (Bible), III, b 558; (Bookbinding), IV, a 37; Greek uncial (Palæography), XVIII, b 152, a 153; legends of (Liturgy), XIV, a b 716
Lectors, minor order (Lection), XIV, b 398; (Orders), XVII, a 844
Lectum, Cape (Troad), XXIII, a 615
Lectures, Copyright in, VI, a 319
Lecuyer collection (Terra-Cotta), XXIII, a b 209, note
Lecythi, funeral (Pottery and Porcelain) (Ill.), XIX, b 631
Leczinski, Stanislas, king of Poland. See STANISLAUS
Leda, myth (Castor and Pollux), V, b 173; (Latona), XIV, a 346
——, river (Leer), XIV, *b* 410
Ledbury, town (Hereford), XI, *b* 652, *b* 653
Ledermüller, Martin F., zoologist (Zoology), XXIV, a 845
Ledger (Bookkeeping) (Ill.), IV, 41, *a* 42
—— fishing (Angling) (Ill.), II, a b 31
Ledru, André Pierre, botanist (Birds), III, a 636
LEDRU-ROLLIN, Alexander Auguste, socialist, XIV, b 398-9; (Millet, J. F.), XVI, b 334
LEDYARD, John, explorer, XIV, a 399; (Geography), X, b 168
——, William, colonel (Stevens), XXII, a 928
Lee, river (Cork), VI, *b* 357, b 359
——, village (London), XIV, a b 831
——, Ann, prophetess (Shakers), XXI, a b 773
——, Charles, general (Junius), XIII, b 785; (United States), XXIII, b 789, b 790, a 792
——, Eleanor Percy, author (Ware), XXIV, a 884
——, Henry, general (Slavery), XXII, b 909
——, James, inventor (Bleaching), III, b 712
LEE, Nathaniel, dramatist, XIV, b 399; (Drama), VII, a 376
LEE, Richard Henry, statesman, XIV, b 399-400; (United States), XXIII, b 790
——, Robert, divine (Scotland), XXI, b 564
LEE, Robert Edward, general, XIV, a b 400; (Battle), III, *a* b 384; (Grant), XXIII, a 838; (Jackson, T. J.), XIII, a 545; (Stuart), XXII, *a* b 931; (United States), XXIII, b 825, *a* 826, *a b* 827, a b 828; (West Point), XXIV, a 892
——, Samuel, orientalist (Ibn Batuta), XII, b 643
——, William, biographer (Defoe), VII, *a* 29
——, William, inventor (Hosiery), XII, b 312-3; his process (Flax), IX, b 257
Leeambye or Jambaji river (Africa), I, b 228; (Zambesi), XXIV, b 803
Leeba river (Zambesi), XXIV, a 804
Leebotwood, locality (Coal), VI, b 48
LEECH, John, humorist, XIV, b 405–7; (Caricature), V, a b 93
LEECH, annelid (Ill.), XIV, b 400–6
  Branchiobdellidæ, b 405
  circulation, a b 402
  digestion, b 401
  development, a 403
  external appearance, b 400-1
  Gnathobdellidæ (Ill.), a b 405
  medicinal, a 403–4
  nerves and senses, b 401–2
  reproduction and breeding, b 402
  Rhynchobdellidæ (Ill.), a 404 5
  segmental organs, b 204
  suctorial apparatus, a b 401
  works on, b 405
—— (Annelida) (Ill.), II, b 62–3; tactile rods of (Touch), XXIII, b 508
——, lake (Minnesota), XVI, b 498
Leechcraft (Celtic Literature), V, b 271, b 280
Leeches, nautical term (Sail), XXI, a 162
Leechman, William, theologian (Hutcheson), XII, a b 324
LEEDS, town (Plan), XIV, b 407-9; (Hook), XII, b 152; (Libraries), XIV, b 520, a 521, a 544; (Newspapers), XVII, b 432; (York), XXIV, b 784, *b* 785, *a* 786
—— Conference (Methodism), XVI, *a* 197
Leeghwater, Jan Adrianszoon, engineer (Haarlem Lake), XI, *b* 318
LEEK, plant, XIV, b 409–10; (Botany), IV, a 76, a 88; (Horticulture), XII, a 296
LEEK, town, XIV, a b 410
Leelite (Mineralogy), XVI, b 437
Leem, Knud, missionary (Norway), XVII, a 604
Leepaja, port (Liban), XIV, a 504
Leer, oven (Glass), X, b 591
——, town, XIV, b 410
Leersia (Grasses) (Ill.), XI, b 49, b 50, b 52
Leeser, Isaac, rabbi (Sola), XXII, a 97
"Lee shore" manœuvres (Seamanship), XXI, b 627, a 628

Leet, court, VI, a 459
LEEUWARDEN, town, XIV, b 410–11; (Holland), XII, a 66, a 67, a b 70
LEEUWENHOEK, Antoon or Anthony van, microscopist, XIV, a 411–2; (Anatomy), I, a 712; (Crystallography), VI, b 594, a 595; (Microscope), XVI, a 269, a 272; (Reproduction), XX, a 423, b 425; (Rotifera), XXI, a 8, b 12; (Schizomycetes), b 416; (Vascular System), XXIV, b 104; (Zoology), a 840, *a* 854
Leeward islands, West Indies (Antigua), II, b 113; (Birds), III, b 649, note; (West Indies), XXIV, b 538; law of (Patents), XVIII, a 362
—— islands (Tahiti), XXIII, a 27
Leeway (Navigation), XVII, b 271–2
Lefaucheux gun (Gunmaking) (Ill.), XI, a 248
Lefebvre, François Joseph, marshal (Dantzic), VI, b 720; (Fortification), IX, a *b* 406, a b 407
——, professor of Louvain (Stigmatization), XXII, a 578
——, Th. (Abyssinia), I, a 65, b 66
Lefèvre, Johann, friar (Faber), VIII, b 731
——, Nicolas, chemist (Chemistry), V, a 398
——, Raoul, poet (Romance), XX, a *b* 655
——, Tanneguy, teacher (Dacier), VI, a *b* 669
—— d'Étaples, reformer. See FABER
Leffel turbine (Hydromechanics), XII, b 558
Leffler, L. F., philologist (Scandinavian Languages), XXI, a 387, note, a 388, note
Lefkosia, city (Cyprus), VI, a 660
Lefort, François, general (Peter I.), XVIII, a 712
——, Pierre Alexandre Francisque, mathematician (Logarithms), XIV, *b* 783; (Tables), XXIII, a 14
Lefuka, island (Friendly Islands), IX, a 684
Leg of Ape, II, a 141, a 142–3; of Birds (Ill.), III, a 626–7, a 628; of Mammalia (Ill.), XV, a 363, b 418; of man (Anatomy) (Ill.), I, a 726–8, a 730, b 737–9; bloodvessels of (Anatomy), b 794–5, a 796; bones of (Skeleton), XXII, b 124, a 125, b 126. See Legs
Legacies, taxes on (Finance), IX, a 163
Legal Acts, British (Statute), XXII, b 487; Fictions, IX, a 123; (Constitution and Law), VI, a 276; (Usury), XXIV, b 23
"—— hundred" (Methodism), XVI, a 195, a 196, b 198, a 199
—— memory (Limitations), XIV, a 657; regulation of Weights and Measures, XXIV, b 509–10; Societies, XXII, a 238. See Lawyers
—— -tender (Money), XVI, b 756, b 757; (Payment), XVIII, b 451–2; notes of England (Banking), III, a 284
Legaré, Hugh Swinton, statesman, *b.* 1797, *d.* 1843 (American Literature), I, b 634
LEGATE, papal ambassador, XIV, b 412–3; (Popedom), XIX, a b 511, a 512
Legatee (Abatement), I, b 12
Legates, imperial (Rome), XX, a b 792, a 793
Legatum Warnerianum, MSS. (Libraries), XIV, a 531
Legazpi, Miguel Lopez de, navigator (Philippine Islands), XVIII, b 767
Legend of Good Women (Chaucer), V, b 390, b 391, a 393
Legend, river (Káveri), XIV, a 21
Legenda, service-book (Liturgy), XIV, a 716
Legendary ethnology (Celtic Literature), V, a 260–1, *b* 268–9; history (Greece), XI, b 82–4; (Grote), a b 191; (Ireland), XIII, a 248–53; (Israel), b 418; (Pentateuch), XVIII, a 523
—— islands (Brazil, Island of), IV, a 216
—— shrines (Pilgrimage), XIX, b 103
LEGENDRE, Adrien Marie, mathematician, XIV, b 413–5; (Infinitesimal Calculus), XIII, b 50, a 53, a 62, a 65, b 68–72, b 73, a 74, a 75; (Laplace), XIV, b 302, *b* 303; (Numbers), XVII, *b* 639; (Tables), XXIII, b 14 note, b 18, *a* b 19
Legendre's coefficients (Tables), XXIII, a b 19; symbol (Numbers), XVII, a b 634, b 635; theorem (Geodesy), X, a 152
Legends (Ethnography), VIII, b 547–8; (Folk-Lore), IX, b 312–4; (Tales), XXIII, a 32–4; (Abraham), I, b 55, *a* 56; (Buddha), IV, a b 386, b 391–2; (Chess), V, b 520–1; (Elder), VII, b 719; (Eulenspiegel), VIII, b 583; (Eve), a b 643; (Gayá), X, a 109; (Giants), b 510, a 511; (Hawthorn), XI, b 479; (Hottentots), XII, a 326; (Hungary), b 390–1; (Japan), XIII, a b 581, note, *a* b 582, a 591; (Kingfisher), XIV, b 83–4; (Lampedusa), a 250; (Lycanthropy), XV, a b 91–2; (Mammoth), a 454; (Manchuria), b 474; (Mantis), b 510; (Mermaids), XVI, *b* 44; (Roland), XX, a b 642; (Salamandra), XXI, a 215 note; (Scythia), b 603; (Sheldrake), b 825, note; (Tibet), XXIII, a 365, b 366
——, Christian (Barlaam and Josaphat), III, b 323–4; (Dunstan), VII, a b 472; (Giles, St.), X, b 531; (Gospels), a 739, note; (Grail Holy), XI, b 31–3; (Jew, Wandering), XIII, a 684–5; (John, Apostle), a 718; (Liturgy), XIV, a b 716; (Margarita), XV, a 545; (Mark), a b 559; (Mary), b 598, a 599; (Venice), XXIV, a b 160; (Veronica), a 189
——, Greek (Argonauts), II, b 436–7; (Empedocles), VIII, a 164; (Hercules), XI, a 649–50; (Hesperides), a b 695; (Homer), XII, a b 115, b 116, a b 123; (Hymen), b 605; (Laocoon), XIV, b 292–3; (Marsyas), XV, b 582; (Niobe), XVII, b 526–7; (Orpheus), XVIII, b 54–5; (Perseus), a b 572; (Theseus), XXIII, b 314–6; treatise on (Palæphatus), XVIII, a 170
—— Italian (Italy), XIII, b 509, b 510, b 511–12, a 518
——, Moslem (Mecca), XV, a b 679, a 681, a b 682; (Mohammedanism), XVI, a 622; (Pilgrimage), XIX, a 100 note
——, oriental (Seven Sleepers), XXI, b 730; (Solomon), XXII, a 265
——, Spanish (Don Juan), VII, b 309
Legends of Saints (Barbour), III, b 314
LEGERDEMAIN, XIV, a 415–6; (Magic), XV, b 207
Leges Juliæ (Propertius), XIX, b 834; (Roman Law), XX, b 722, a 723, a 726; mancipii (Roman Law), b 707; regiæ (Roman Law), a 688, note, a 693, b 697; *Tabellariæ* (Ballot), III, b 249. See Lex
Legge, James, sinologist (China), V, a b 574, a 575, b 583; (Missions), XVI, b 540; (Theism), XXIII, b 254, a 256
Leggett, William, journalist (Sedgwick), XXI, b 915
LEGHORN, city (Map), XIV, a 416–7; (Medici), XV, b 801, a b 802
—— fowl (Poultry), XIX, b 665
—— hats (Straw), XXII, b 622
LEGION OF HONOR, XIV, b 417–8; (Dumas, M.), VII, a 452; (France), IX, b 456, b 541
Legion Memorial (Defoe), VII, b 25
Legion, Roman (Army), II, b 492, a 493; organization of (Rome), XX, a 765, b 777, a 779, b 785; pay of (Prætorians), XIX, b 676, note
Legis actiones (Roman Law), XX, b 698–704
Legislation (Filangieri, G.), IX, b 139, a 140; (Government), XI, b 14, a 17–9; (Hufeland), XII, b 349–50; (India), a b 807; (Law), XIV, a 358, a 360, a 361, b 365; (Real Estate), XX, b 318–9; (Money), XVI, b 763
——, American method (Statute), XXII, a b 488; (United States), XXIII, b 797
——, British method (Code), VI, a b 97; (Law), XIV, a b 366–7; (Parliament), XVIII, b 317–9; (Privy Council), XIX, b 785
——, church (Italy), XIII, b 469, a b 470
——, English on Ireland, XIII, a 225–6, a 233–4, a b 235, a b 236, a b 237, a b 238, a 239, b 240, b 241, a b 245, a 246, a 266, a 267, a 268, a 270, a 272, *a b* 274, *a b* 275, b 277, a b 278
——, Roman imperial (Roman Law), XX, b 722–3, a 724, a b 729; republican (Roman Law), a b 715
Legislative assembly (France), IX, b 530
Legislature (Brazil), IV, b 211–2; (California), b 625; (Japan), XIII, a b 589; (Prussia), XX, b 22
Legislatures (Contempt of Court), VI, a 284; (Government), XI, a 13, note
——, colonial (United States) XXIII, b 779, b 784, a 785, b 786, b 788–9
——, state (United States), XXIII, b 793, a 797
Legitim, right (Husband and Wife), XII, b 417; (Roman Law), XX, b 733–4; (Will), XXIV, b 605
Legitimacy (Bastard), III, b 368, *a* 369
Legitimism, spirit of (Persia), XVIII, b 624, a 626
Legitimist organs, French (Newspapers), XVII, b 438
Legnago, town (Quadrilateral), XX, b 151
Legnano, battle of, 1176 (Frederick I.), IX, a b 642; (Italy), XIII, a 484; (Rome), XX, a 812
Legouvé, Ernest Wilfrid, dramatist (France), IX, b 594
Legoyt, A., statistician (Suicide), XXII, a 664, a 665
Legrand, grammarian (Greece), XI, *a* 132, b 133, a 134, b 135, b 136
——, Antony, philosopher (Descartes), VII, a 111
Le Gray, inventor (Photography), XVIII, a b 837, a 838
Legris, Jacques, unfortunate (Duel), VII, a 442
Legs (Amphibia), I, a 668–9, b 674; (Arachnida), II, a 238, note, b 240, b 243, b 244, b 245, a 246, b 247, b 248, b 251, b 252, b 253, b 254, b 255, a 257; (Dragon-Fly), VII, a 334; (Hymenoptera), XII, a 607; (Insects), XIII, b 150. See Leg
Leguan (Lizard) (Ill.), XIV, *b* 738, a 739, b 741–2
Leguat, Francis, traveller (Rodriguez), XX, a 635
Legume or pod (Botany) (Ill.), IV, b 137–8
Leguminosæ, order (Botany), IV, b 116, b 120, b 131, a b 133, b 136, b 137, a 141; (Grasses), XI, *a* 53; (Laburnum), XIV, b 179–80; (Locust Tree), a 774
Leguminous crops (Agriculture), I, b 320–3
Leh observatory (Tibet), XXIII, b 363, a 364
Lehigh river and coal region (Pennsylvania), XVIII, b 510, a b 511
—— University, XXIII, a 914, 957

Lehmann, German engineer (Surveying), XXII, b 746, a 747
Lehnberg, Magnus, rhetorician (Sweden), XXII, a 795
Lehrbataillon (Potsdam), XIX, a 617
LEIAH, town, XIV, a 418
Leibgedinge, annuity (Posen), XIX, a 575
LEIBNITZ, Gottfried Wilhelm, philosopher, XIV, a 418–24
  Brunswick period, b 419 20
  closing years, b 420–1
  early political career, b 418–9
  educational period, a b 418
  French connections, a b 419
  harmony of substance, a 421–2
  literature, b 423–4
  philosophical period, b 420
  psychology of, a b 422
  theodicy of, a b 423
  truth, categories of, b 422–3
—— (Algebra), I, b 454, b 455; (Atom), III, a 34; (Axiom), *a* 139, b 140; (Bernoulli), *b* 522, a *b* 523; (Cartesianism), V, a 132, b 139; (Christina), a 611; (Clarke, Samuel), a b 709; (Condillac), VI, b 221, a 222; (Dream), VII, b 393; (Embryology), VIII, b 151; (Evolution), a b 655, a b 666; (Germany), X, a 476; (Hanover), XI, a *b* 401; (Infinitesimal Calculus), XIII, b 9-12, a 13, b 29, b 30, a 39; (Kant), *b* 857, a b 858, a 859; (Latin), XIV, a 343; (Law), a 367; (Lessing), b 479; (Logic), a 802–3; (Measurement), XV, *b* 666; (Metaphysic), XVI, a b 97; (Newton), XVII, *a b* 458, a b 459 note, a 460; (Psychology), XX, a b 50. b 52, b 80; (Pufendorf), a 106; (Trigonometry), XXIII, b 597; (Wolff), XXIV, b 665, a 666; his classification of books (Bibliography), III, a 573; his optimism (Pessimism), XVIII, b 698, a b 700; his theorem (Variations), XXIV, a 96
Leibschwitz, exclave (Saxony), XXI, a 372
Leibzoll, tax (Jews), XIII, b 692
LEICESTER, county (Plate VI), XIV, a 424–5; (Coal), VI, b 48; (Horse), XII, b 194
LEICESTER, town (Plan), XIV, b 425–6; (Libraries), b 520, b 544
——, earldom of (Montfort), XVI, b 813–4
LEICESTER, Robert Dudley, earl of, XIV, a 426–7; (Allen, Thos.), I, *b* 513; (Armada), II, a 477; (Barneveldt), III, a b 327; (Elizabeth), VIII, *a* 134; (Holland), XII, *b* 80; (Warwick), XXIV, a 401; his company of actors, (Shakespeare), XXI, *b* 796, a 797
——, Simon de Montfort, earl of. See MONTFORT
—— sheep (Agriculture), I, a 270, a 272, b 347, a 349; (Breeds), IV, b 221, a b 224; Wool, XXIV, a 689, *a* 690
Leicester's Commonwealth (Leicester), XIV, b 426
Leicestershire. See LEICESTER, county
Leichenhaüser, dead houses (Cemetery) (Ill.), V, a 288
Leichhardt river (Queensland), XX, *a* 178
——, Ludwig, explorer (Australia), III, *b* 91, *a* 92; (Queensland), XX, b 181
Leiden, city. See LEYDEN
Leidenfrost, physicist (Capillary Action), V, a 51
Leidy, Joseph, naturalist (America), I, a 600; (Geology), X, b 319, *b* 324; (Horse), XII, a 176; (Ichthyology), a 715 [note; (Mammalia), XV, *a* 432; (Surveys), XXII, a 936, a 937, a 938; (Zoology), XXIV, a 926
LEIGH, town, XIV, a 427
——, Ada, philanthropist (Paris), XVIII, b 288
——, Charles, naturalist (Ornithology), XVIII, a 13
LEIGH, Edward, theologian, XIV, a 427
——, Gerard, author (Heraldry), XI, b 636; (Inns of Court), XIII, a 96
Leighton, Alexander, theologian, XIV, b 427; (Bibliography), III, b 570
——, Sir Frederick, artist (Mural Decoration), XVII, a 54; (Sculpture), XXI, a b 588
——, John, artist (Japan), XIII, a 599. a 600
LEIGHTON, Robert, bishop, XIV, b 427–9; (Scotland), XXI, a 538; (Sharp), b 816, a 817
LEIGHTON-BUZZARD, town, XIV, b 429
Leine river (Hanover), XI, b 398, *a* 401
Leinster mountain (Carlow), V, a 98
Leinster, province (Ireland), XIII, a 227, 228, 229, 230, 231, 234, a b 242, a b 250, a 251
—— coal-field (Ireland), XIII, a 223
Leinster, Book of (Celtic Literature), V, b 265, b 266, *a* b 267, *a b* 268, a b 270, b 283; (Fenians), IX, b 66
Leipsic, district (Saxony), XXI, *b* 372, *a b* 373, *a* 374
LEIPSIC, town (Plan), XIV, b 429-31; (Conservatory), VI, b 260; (Fair), VIII, a 743; (Libraries), XIV, b 526, b 548; (Observatory), XVII, a 733
——, battle of, 1631 (Artillery), II, a 574; (Gustavus Adolphus), XI, a 299. See Breitenfeld; battle of, 1813 (Austria), III, a 118; (Battle), *a* 384; (France), IX, b 543; (Metternich), XVI, b 208; (Napoleon I.), XVII, a 227; (Radetzky), XX, b 218
——, Book trade at, IV, b 36
—— disputation with Eck (Luther), XV, a b 75; Interim (Adiaphorists), I, b 140; partition, 1485 (Saxony), XXI, a 369; school of acting (Drama), VII, a b 381
—— University, XXIII, a 897, a b 899, a 903, *a* b 905
Leiria, district (Portugal), XIX, a 552, a 553, *a* 556, a 558
Leis, Ya'kub and Amrú, emirs (Ghazni), X, *b* 501
Leisewitz, Johann Anton, poet (Drama), VII, a 382
Leisler, Jacob, rebel (New York), XVII, a 467, b 893, b 894
Leist, ——, jurist (Roman Law), XX, a 713, a 720 note
Leit or Láfit, town (Kishm), XIV, *a* 104
LEITH, town (Plan), XIV, b 431–2; (Edinburgh), VII, *a* b 571, b 572, a 574; (Scotland), XXI, a 551, *b* 553, *b* 558, *a* 559; dock (Harbors and Docks), XI, b 418
—— Hill (Surrey), XXII, a 729, a 730
——, Water of (Edinburgh), VII, *b* 569, a 571
Leitha, river (Hungary), XII, b 375
Leitimor (Amboyna), I, a 581
LEITMERITZ, town, XIV, b 432–3
Leitner, Gottlieb Wilhelm, philologist (Gilgit), X, b 533, a b 534
Leitra, weight (Weights and Measures), XXIV, b 516
LEITRIM, county, XIV, a 433–4
Lejâh, district (Bashan), III, a b 354
Lejre, town (Denmark), VII, *a* 74
Lek, river (Holland), XII, *b* 65, *a* 66
Lekah Tob (Midrash), XVI, b 299
Leke or *Book of Rites* (China), V, a 574
Lekh or Lech, hero (Poland), XIX, *a* 297
Lekhs, race (Poland), XIX, b 296, *a* b 297
Lekians, people (Lesghians), XIV, a 475
Leland, Charles Godfrey, author (American Literature), I, a 639; (Gipsies), X, a b 551; (Indians), XII, b 866
LELAND or Laylonde, John, antiquary, XIV, a 434; (Pausanias), XVIII, b 448; (Wycliffe), XXIV, a 744
LELAND, John, theologian, XIV, a b 434
LELEGES, people, XIV, b 434; (Caria), V, a 91; (Greece), XI, b 82, b 84, b 86; (Messenia), XVI, b 57; (Miletus), b 306; (Phocis), XVIII, b 814
LELEWEL, Joachim, historian, XIV, b 434–5; (Poland), XIX, a b 297, a 298, b 299, b 305, a 306, a 311
Lélie, novel (Dudevant), VII, a 440
Lellevau, district (Celebes), V, a 251
LELY, Sir Peter, painter, XIV, a b 435; (Kneller), *a* 111
Lemaire, Nicolas Éloi, Latinist (Bibliography), III, b 568
Le Mâitre, Antoine, advocate (Port Royal), XIX, a 548
——, Louis Isaac De Sacy (Port Royal), XIX, a 548
——, Simon de Séricourt (Port Royal), XIX, a 548
Leman, lake. See GENEVA, Lake of
Leman, shoals (Tides), XXIII, a 398
Lemanca, genus (Vegetable Kingdom), XXIV, *b* 138
Lemanic Republic (Switzerland), XXII, b 831; (Vaud), XXIV, a 126
LEMBERG, city (Plan), XIV, b 435–6; (Galicia), X, *a* b 24; (Libraries), XIV, a 549; (Poland), XIX, b 317
——, peak (Würtemberg), XXIV, a 735
Le Mercier, Jean, Hebraist (Hebrew Language and Literature), XI, b 536
——, Louis Jean Népomucène, poet (Drama), VII, a 369
Lémery, Louis, chemist (Chemistry), V, a b 398, b 400; (Electricity), VIII, b 8
Lemielle's ventilator (Coal), VI, b 66
Lemmas (Archimedes), II, b 333; (Porism), XIX, b 534
LEMMING, rodent (Ill.), XIV, a 436–7; (Greenland), XI, *a* 151; (Instinct), XIII, b 166; (Mammalia), XV, b 421; (Norway), XVII, a 595; (Sweden), XXII, b 779
Lemna, plant (Botany), IV, *b* 83, b 124
Lemnian Athena, statue (Phidias), XVIII, b 747
Lemnian Labyrinth, XIV, a 181
Lemniscate of Bernoulli (Mathematics), XV, b 721
LEMNOS, island, XIV, a b 437; (Argonauts), II, a 437; (Cabiri), IV, *b* 551
Lemoine, Pierre, Jesuit (Casuistry), V, a 178
LEMON, fruit and tree, XIV, b 437–40; (Botany), IV, a 102, a 139; (Citron), V, *b* 694, a 695; juice (Citric Acid), a b 694
——, Margaret, beauty (Van Dyck), XXIV, *a* b 70
Lemonade (Aërated Waters), I, b 166, a 167
Lemonine (Lemon), XIV, b 438
Lemon oil (Distillation), VII, b 227–8
—— sole, fish (Sole), XXII, a 263
Lemonnier, Louis Guillaume, botanist, (Desfontaines), VII, b 111, *a* 112
LEMONNIER, Pierre Charles, astronomer, XIV, a b 440; (Electricity), VIII, a 7, a 19
Lemont marble (Illinois), XII, b 742
Lemos, Pedro Juan, Conde de, viceroy (Cervantes), V, *b* 307, *a* 309
Lemosi or Limosi, language (Spain), XXII, a 361
Lemot, François Frédéric, sculptor (Lyons), XV, b 112

Lemoyne de Bienville. See Bienville
—— d'Iberville. See Iberville
Lempa, river (San Salvador), XXI, a 281
Lemprière, John, classicist (Bolton), IV, a 19
LEMUR, mammal (Ill.), XIV, b 440-6
  chiromyidæ (Ill.), b 444-5
  description, general, b 440 1
  extinct species, a 445
  fossils, a 445-6
  galaginæ, a b 443
  indrisinæ (Ill.), b 441-2
  lemuridæ, a 441-4
  lemurinæ (Ill.), b 442-3
  literature, a 446
  lorisinæ (Ill.), b 443-4
  tarsidæ, a b 444
—— (Anthropology), II, *a* 96; (Apes), *a* 130, b 146 note, a 147; anatomy of (Mammalia), XV, a 356, b 357, a 373; genera (Mammalia), a b 375
——, Flying (Mammalia), XV, b 405
Lemuralia, festival (Demonology), VII, b 55; (Lares), XIV, a 314
Lemures, spirits (Apparitions), II, a 177; (Lares), XIV, a 314
Lemuria, region (Negro), XVII, b 325; (Rodriguez), XX, a 634
Lemuridæ, family (Lemur), XIV, a 441-4; (Madagascar), XV, a b 171
Lemyu river (Akyab), I, a 388
Lena river (Siberia), XXII, a b 6, note, a *b* 7, *b* 8, *a b* 9, note, b 10, note, *a* 14, b 15, a 17; (Transbaikalia), XXIII, a 542; (Yakutsk), XXIV, *b* 761, *a* b 762, *a* 763
——, Swedish steamer (Yakutsk), XXIV, b 762
Lenæa, festival (Dionysia), VII, b 215
Lenæum, sacred place (Drama), VII, a 353
LENCLOS, Ninon de, courtesan, XIV, a 446; (Voltaire), XXIV, b 305
Lendenfeld, von, biologist (Protozoa), XIX, b 879, b 891; (Sponges), XXII, a *b* 436, a 439, *a b* 443
Lendermenn, king's, nobility (Norway), XVII, b 599, b 601, a 602, a 603
Lenel, ——, jurist (Roman Law), XX, b 723, note
Le Neve, Peter, antiquary (Paston Letters), XVIII, b 349
LENFANT, Jacques, author, XIV, b 446
Length, unit of (Dynamics), VII, a 504; (Mensuration), XVI, a 17; (Weights and Measures), XXIV, a 505
LENKORAN, town, XIV, b 446-7; district (Transcaucasia), XXIII, a 546
Lenn, garment (Ireland), XIII, a b 263
LENNEP, town, XIV, a 447
LENNEP, Jacob van, poet and novelist, XIV, a 447; (Holland), XII, b 101
Lenngren, Anna Maria, poet (Sweden), XXII, a 795
Lenni Lenapi Indians (America), I, b 608; (New Jersey), XVII, a 408
Lennoaceæ, plants (Parasitism), XVIII, a 269
Lennox or Levenaux, county (Dumbarton), VII, a 452
—— Hills (Stirling), XXII, *a b* 581
——, Esmé Stuart, duke of, regent (Scotland), XXI, *a* b 529
——, Matthew Stuart, earl of (Mary Stuart), XV, a 602, b 603; (Scotland), XXI, a 522, b 526, b 527, a 528
——, Sarah, fascinator (George III.), X, a 381
Leno, fabric (Gauze), X, b 106
Lenoir, Étienne, optician (Telescope), XXIII, a 159 note
——, Marie Alexander, archæologist (Girardon), X, a 555
—— gas engine (Steam-Engine), XXII, b 550-1
Lenoir's silvering process (Mirror), XVI, a 524
Lenore, poem (Bürger), IV, b 476; (Germany), X, b 483
Lenormant, Charles, archæologist, *b.* 1802, *d.* 1859 (Cherubim), V, *a* 510
——, Françøs, *b.* 1837, *d.* 1883 (Alphabet), I, b 529 note, a 530, b 532, a b 534, notes; (Daniel), VI, b 707-8, a b 709, a 710; (Hieroglyphics), XI, *a* 722
—— d'Étoiles, financier (Pompadour), XIX, a 458
Lenôtre, André, architect (St. Germain-en-Laye), XXI, *b* 178
Lenox library, New York (Globe) (Ill.), X, a b 607; (Libraries), XIV, b 535, b 553; (New York), XVII, a 897, a 898
Lenox's anchor, II, *b* 7, a 8
Lens, town (Pas de Calais), XVIII, a 345; battle of, 1648 (Condé), VI, a 219; (France), IX, b 504
—— esculenta, plant Lentil), XIV, b 447
Lenses, Acoustic, I, b 99
——, optical (Babylonia), III, b 165; (Light) (Ill.), XIV, b 597-9, b 581; (Lighthouse) (Ill.), b 624, a 629; (Magic), XV, a 208; (Newton), XVII, *b* 451; (Nicol), b 502; (Ophthalmology), a 807, a 808; (Optics), a 826-9; (Photography), XVIII, b 853; (Porta), XIX, b 540; (Spectacles), XXII, b 386-7; achromatic (Fraunhofer), IX, b 640; annular (Lighthouse) (Ill.), XIV, b 624, a 634; compound (Optics), XVII, b 827-9; convex (Optics), a b 826; field (Optics), b 829; function of (Wave Theory), XXIV, b 459-60; Microscopic, XVI, b 269-70; (Leeuwenhoek), XIV, a 411, note; plano-convex (Optics), XVII, a 823; telescope (Huygens), XII, b 431, a b 432
LENT, ecclesiastical season, XIV, a b 447; (Fasting), IX, b 41, *a b* 42, *a b* 43; diet (Capybara), V, a 72; (Puffin), XX, a 107; observance of (Francis, St. of Paola), IX, a b 612
Lenten crab (Crustacea), VI, b 579
Lenticels (Botany), IV, b 83; (Histology), XII, b 20
LENTIL, seed, XIV, b 447-8; flour of (Baths), III, b 377
Lentulus, Cassius, general (Gætulia), X, b 14
Lenz, Heinrich F. E., on Atlantic currents, III, b 20, a 21, a 23; (Electricity), VIII, a 11, a 12, *a* 14, a 50, b 53, a 54, a b 72, b 73, b 81; (Magnetism), XV, b 254
——, Jakob Michael Reinhold, poet (Drama), VII, a 382; (Germany), X, a 483
——, Oskar, geologist (Morocco), XVI, a b 858; (Sahara), XXI, *a* 158, note, *a* 159, note, a 160; (Timbuktu), XXIII, a b 418
Lenzinite (Mineralogy), XVI b 442
Leo, sign of the Zodiac, XXIV, b 829, a 830, a 831, a 833-4
LEO I., the Great, pope, XIV, b 448-9; (Ember Days), VIII, *a* 147; (Fasting), IX, b 42; (Hilarius), XI, a 726; (Huns), XII, b 397; (Legate), XIV, b 412-3; (Popedom), XIX, a b 506, b 523
LEO II., pope, XIV, b 449
LEO III., pope, XIV, b 449-50; (Empire), VIII, a 166; (Fehmic Courts), IX, a 56; (France), a 470; (Italy), XIII, a 479; (Rome), XX, b 804-5
LEO IV.-VII., popes, XIV, a 450
LEO VIII., pope, XIV, a 450; (John XII., Pope), XIII, a 721; (Rome), XX, *b* 806, a 807
LEO IX., St., pope, XIV, a b 450; (Clergy), V, a 723; (Greek Church), XI, b 139; (Gregory VII.), a 158; (Popedom), XIX, b 512, a 513, a 524
LEO X., pope, XIV, b 450-2; (Cardinal), V, *a* 86; (Clement VII.), b 718; (Franciscans), IX, *a b* 615; (Germany), X, a 446; (Hutten), XII, a 429; (Hymns), a 619; (Leonardo), XIV, a 461; (Luther), XV, b 73, b 78; (Machiavelli), *b* 149, a b 151; (Manutius), a 520; (Medici), *b* 796, a b 797, a 798; (Michel Angelo), XVI, b 241; (Peruzzi), XVIII, b 696; (Raphael), XX, a b 292, b 294; (Reformation), *b* 338, a b 339, a 341; (Sodoma), XXII, b 258; (Universities), XXIII, *b* 892; (Wolsey), XXIV, b 668, a 669
Leo X., Life and Pontificate of (Roscoe), XX, a 872
LEO XI., pope, XIV, b 452; (Popedom), XIX, b 519, b 524; (Sarto), XXI, a 331
LEO XII., pope, XIV, b 452-3; (Cicognara), V, b 675
—— XIII., pope (Eunuch), VIII, a 586; (Libraries), XIV, b 528; (Pius IX.), XIX, a 169; (Prussia), XX, a 17; (St. John of Jerusalem), XXI, a 184; (Scholasticism), b 448 note
LEO I., Flavius Magnus, emperor, XIV, a 453; (Zeno), XXIV, *b* 816
—— II., emperor (Leo I.), XIV, a 453
LEO III., Flavius, the Isaurian, emperor, XIV, a b 453; (Anastasius II.), I, b 700; (Damascenus, J.), VI, b 695; (Greece), XI, *a* b 102; (Image Worship), XII, a b 751; (Isauria), XIII, a 395; (Italy), b 478; (Mohammedanism), XVI, a 597; (Naples), XVII, a 198; (Popedom), XIX, a 509; (Roman Law), XX, b 734
—— IV., emperor (Khazars), XIV, b 62; (Mohammedanism), XVI, a 603
LEO V., Flavius, the Armenian, emperor, XIV, b 453; (Greece), XI, a 102; (Image Worship), XII, a 752; (Michael), XVI, b 234-5
LEO VI., Flavius, the Philosopher, emperor, XIV, b 453-4; (Basilica), III, *a* 362; (Constantine VII.), VI, a 269; (Greece), XI, b 129, a 130, a 134; (Ionian Islands), XIII, a 212; (Photius), XVIII, b 833; (Roman Law), XX, b 734
LEO, Johannes, Africanus, geographer, XIV, a 454; (Fez), IX, b 111, a 112; (Geber), X, *b* 112, b 113; (Geography), b 163; (Tunis), XXIII, a b 661
—— Diaconus (Byzantine Historians), IV, a 545
——, F., critic (Tibullus), XXIII, a 372, *a* 373
——, Heinrich, historian (Rome), XX, b 802, b 824
——, Leonardo, composer (Music), XVII, a 100
Leoben, treaty of, 1797 (France), IX, a 537; (Napoleon I.), XVII, a b 205, a 206
LEOBSCHUTZ, town, XIV, a 454
Leocarpus (Protozoa), XIX, a 863
LEOCHARES, sculptor, XIV, a b 454; (Archæology), II, a 316
Leocorium, shrine (Athens), III, a 4
Leodium, town. See LIÉGE
Leof, outlaw (Edmund I.), VII, b 580
Leofric, earl of Mercia (England), VIII, a 261, a 262; (Godwine), X, *a b* 641; *Missal* of (Liturgy), XIV, a 715
LEOMINSTER, town, XIV, b 454; (Hereford), XI, b 652, *a* b 653
LEON, province, XIV, b 454-5; (Spain), XXII, *b* 307, *a* 308, b 309, a 310, a 311, b 312, b 313, b 314, a 315, a 317, a 360, b 365; kingdom (Spain), XXII, b 326, b 327, *a b* 328, *a* 329, a b 331
LEON, Mexico, city, XIV, b 455; (Mexico), XVI, a 910
LEON, Nicaragua, city, XIV, b 455; (Nicaragua), XVII, *a* 493

LEON, Spain, city, XIV, a b 455
——, barony of (St. Pol de Léon), XXI, b 206
—— or Ghevond VI., king (Armenia), II, b 480
LEON, Luis Ponce de, writer, XIV, b 455-6; (Spain), XXII, a 371, b 373, a 374
——, Maximilian de, pseudo-count (Rapp), XX, a 896
——, Moses de, author (Kabbalah), XIII, a 823
Leonard and Gertrude, Pestatozzi (Education), VII, a b 587
Leonardo of Pisa, mathematician. See PISANUS
LEONARDO DA VINCI, artist, XIV, a 456-63
  apprenticeship, b 456
  artistic preëminence, b 461-2
  birth, a 456
  disastrous fate of his work, a b 458
  exuberance of, b 456-7
  Florentine period, b 459-60
  French in Lombardy, b 460-1
  Goethe criticism, a 459
  literary materials, b 462-3
  Milan, first period, b 457-9
  Milan, second period, a b 461
  mural work, great, a 458-9, a b 460
  personal appearance, a b 462
  representative character of, a b 456
  scientific achievements, a 462
  wandering period, Milan troubles, a b 459
—— (Bossi), IV, *b* 61; (Capillary Action), V, b 50; (Drawing), VII, *b* 388-9; (Fresco), IX, *b* 678, *b* 679; (Galileo), X, a b 29 note; (Geography), b 162, a 163; (Gunnery), XI, a 264; (Painting), XVIII, b 141, b 143; (Schools of Painting) (Ill.), XXI, a b 456, a 463, a b 465, note, a 466, *a b* 467, *a* 468; (Stereoscope), XXII, a b 565; (Verrochio), XXIV, *a* 190; (Windsor), b 633, note; (Wool), a 697; (Yarn), b 766
Leon-Castile, kingdom (Spain), XXII, a 332
Leonelli, Zecchini, mathematician (Tables), XXIII, a 17
Leonese dialect (Spain), XXII, b 365
Leonhardite (Mineralogy) (Ill.), XVI, a 440
Leonianum, Sacramentarium (Liturgy), XIV, b 714
Leonidaion, building (Olympia), XVII, b 789-90
LEONIDAS, king, Sparta, XIV, a 463; (Agis IV.), I, *a* 253
—— of Alexandria, poet, XIV, a 463
—— of Tarentum, poet, XIV, a 463; (Anthology), II, b 92
Leonidas, epic (Glover), X, *a* 618
Leonides, physician (Surgery), XXII, a b 709
Leonids Meteor, XVI, b 115, b 117
Leonine Constitutions (Sunday), XXII, a 689
Leonists, sect (Reformation), XX, *b* 334
Leonora of Aragon, queen (Portugal), XIX, b 558, *a* 559
—— d'Este, princess (Tasso), XXIII, b 82, b 83
—— Telles de Menezes, queen (Portugal), XIX, *a* 559
Leonora, novel (Edgeworth, Maria), VII, a b 567
LEONTINI, town, XIV, a 463; (Sicily), XXII, *b* 22, *b* 23, a 24; sack of, 214 B.C. (Syracuse), XXII, a 856
Leontius, emperor (Justinian II.), XIII, b 807
Leontodon, plant (Taraxacum), XXIII, a 67
Leontodonium, drug (Taraxacum), XXIII, a 67
Leontopolis, town (Isaiah), XIII, a 389
LEOPARD, mammal (Ill.), XIV, b 463-4; (India), XII, b 779; (Java), XIII, a 613
—— in Heraldry, XI, a b 623
——, Hunting (Cheetah), V, b 395
Leopardi, Alessandro, sculptor (Venice), XXIV, *b* 169; (Verrochio), b 190
LEOPARDI, Giacomo, poet, XIV, b 464-6; (Italy), XIII, a b 525; (Pessimism), XVIII, b 702, a b 704; (Recanati), XX, a 322
LEOPOLD I., emperor, XIV, b 466-7; (Austria), III, a b 110; (Carriage), V, a 119; (Germany), X, b 450; (Hungary), XII, b 384-5; (Poland), XIX, b 307, *a* b 308; (Spain), XXII, b 348, *a* b 349; (Transylvania), XXIII, b 555; (Universities), *a* b 902
LEOPOLD II., emperor, XIV, a b 467; (Austria), III, *a* b 113; (Germany), X, a 452; (Italy), XIII, a 495; (Tuscany), XXIII, b 713
LEOPOLD I., Belgium, XIV, b 467; (Albert, Prince), I, a b 400; (Belgium), III, b 456-8; (Combe, A.), VI, b 160; (Holland), XII, b 86; (Palmerston), XVIII, b 198
—— II., king (Belgium), III, b 458; (Slavery), XXII, a 153; (Zaire), XXIV, b 803
——, prince (Hohenzollern), XII, a 55
LEOPOLD I., duke, Anhalt-Dessau, general, XIV, b 467-8; (Army), II, b 495
—— I., margrave of Bamberg (Austria), III, a 108
—— II., of Austria, duke (Soleure), XXII, b 263; (Switzerland), *a* 822; (Zug), XXIV, b 865
—— III., the Brave, archduke (Austria), III, b 108; (Switzerland), XXII, *a* 823; (Zug), XXIV, b 865
—— II., grand-duke, Tuscany (Florence), IX, b 294, a 295; (Tuscany), XXIII, b 713
——, Karl Gustafaf, poet (Sweden), XXII, a 795
—— Joseph, duke (Lorraine), XV, b 8
—— William, Spanish Netherlands, archduke (Teniers), XXIII, a b 190
Leopoldine Academy, I, b 74
Leopoldshall, village (Stassfurt), XXII, b 475
Leopolis, city (Lemberg), XIV, a 436
Leovigild, king, Visigoths (Goths), X, b 756; (Salic Law), XXI, *b* 226
Lepadidæ, family (Crustacea), VI, a 579, *b* 588, b 589
LEPANTO, town and gulf, XIV, a 468; (Greece), XI, b 74; battle of, 1571 (Cervantes), V, b 302-3; (Greece), XI, a 108; (John Don), XIII, a 728, *a* 729; (Turkey), XXIII, a 685; (Venice), XXIV, a b 157
Lepas, genus (Crustacea) (Ill.), VI, 576 note, a b 577, a 589
Lepchás, tribe (Dárjíling), VI, a 728
Leper mission (Moravian Brethren), XVI, a 839
Lepers. See LEPROSY
Lepidoderma, genus (Protozoa), XIX, a 863
Lepidolite (Granite), XI, a 44; (Lithium), XIV, *a* 703; (Mineralogy), XVI, b 430; (Potassium), XIX, b 609
Lepidomelane (Granite), XI, a 44; (Mineralogy), XVI, b 430
Lepidoptera, order (Butterflies and Moths), IV, a 527-32; (Galls), X, a 42; (Hymenoptera), XII, b 608; (Ichneumon-Fly), a b 666; (Insects), XIII, b 147, b 149, b 151, b 152, a 153, a 154, a 157-8; (Madeira), XV, a 181; (Mimicry), XVI, a b 354
LEPIDOSIREN, fish, XIV, a b 468; (Ichthyology), XII, b 670-a b 684, a 692, b 694, a *b* 696, b 697, a b 699, b 711, a 712, a 725
Lepidosteoidei, sub-order (Ichthyology), XII, a b 706, b 725-6
Lepidosteus, genus (Ichthyology), XII, a b 670, a 676, a b 686, b 688, a 692, b 693, b 694, a 697, b 699, *a* 702, b 706, b 712, a 713, b 714, a 726
LEPIDUS, family, XIV, b 468-9
LEPIDUS, Marcus Æmilius, triumvir, XIV, b 468; (Augustus), III, *b* 69, a 71; (Rome), XX, *a* 787
—— Porcina, Marcus Æmilius, orator, XIV, a 469; (Latin), a 333
Lepilemur, mammal (Lemur), XIV, a 443
Lepis of epidermis (Botany), IV, a 80
Lepki quarter (Kieff), XIV, b 72-3
Leplay, Pierre Guillaume Frédéric, engineer (Iron), XIII, b 349
Lepolemo, knight (Romance), XX, a 672
Lepontine Alps, I, a 547, b 550-1
Leporidæ, family (Mammalia) XV, a 422
Lepra, disease (Leprosy), XIV, *a* 469, *a* 470
Lepraria, genus (Lichens), XIV, a 561
Lépreux, Le (Maistre), XV, b 310
Le Prince, Jean, artist (Rouen), XXI, b 17
LEPROSY, disease, XIV, a 469-70; (Burmah), IV, b 494; (Cagots), *b* 569; (Candia), a 708; (Guiana), XI, b 223; (Hawaiian Islands), a 473; (Lazarus, St., Order), XIV, b 374; (Pathology), XVIII, b 416; (Pellagra), b 487; (Skin Diseases), XXII, a 130; (Vaccination), XXIV, a 33; mediæval (England), VIII, a 230
Lepsius, Karl Richard, archæologist (Egypt), VII, b 619, *a b* 620, note, a b 622, b 625, b 631, *a* 632, *a* 633, a 637, b 641, a 642, a b 671; (Hieroglyphics), XI, *a* 723; (Tibbus), XXIII, b 355; (Tibet), a 368 note
Laptalis, genus (Butterflies), IV, a 530; (Mimicry), XVI, a 353
Leptaspis, genus (Grasses), XI, *a* b 49, a 51, a 52
Leptines, Against (Demosthenes), VII, a 61; (Wolf), XXIV, b 663
LEPTIS, Magna or Great, city, XIV, b 470; (Phœnicia), XVIII, a 820
Leptocardii, class of fishes (Ichthyology), XII, b 670, a 695, a 716, a 723, b 733
Leptoclinum, genus of Tunicata, XXIII, a 657
Leptœna (Brachiopoda) (Ill.), IV, b 170, b 171
Leptogonidia (Lichens), XIV, *b* 559
Leptolepidæ, family (Ichthyology), XII, *b* 706, a 726
Leptomedusæ, group (Hydrozoa), XII, b 580, b 584, b 586, b 595-6, b 597
Leptonyx, genus (Mammalia), XV, b 450
Leptoptilus, genus (Jabiru), XIII, b 539
Leptoscyphus (Hydrozoa), XII, a 596
Leptosomidæ, family (Birds), III, a 659
Leptosomus, genus (Roller), XX, a 643
Leptothrix, genus (Schizomycetes) (Ill.), XXI, a *b* 416, b 418, a b 419, b 420, *b* 421, *a* b 422, b 423, b 424
Leptotricheæ, group (Schizomycetes), XXI, b 423
Leptus autumnalis (Harvest Bug), XI, b 447
Leptynite rock (Geology), X, b 211
Lepus, genus (Hare), XI, b 425-7; (Mammalia) (Ill.), XV, b 426
Lêr, god (Celtic Literature), V, b 260, *a* 269, *a* 279
Ler or Lerez river (Gallicia), X, a 25
Lerbachite (Mineralogy), XVI, a 410
Lerdo de Tejada, Sebastian, president (Mexico), XVI, b 897, a 905
LÉRIDA, province, XIV, b 470; (Spain), XXII, b 312, a 313, b 360

LÉRIDA, city, XIV, b 470–1; University, XXIII, a 895
Lerins, island (Monachism), XVI, a 729
Lerma, Francisco de Roxas de Sandoval, duke (Cervantes), V, a b 306, a 307, b 308; (Spain), XXII, *b* 344, *a* b 345
Lermer, chemist (Hops), XII, a 161
Lermolieff, pseudonym, critic (Schools of Painting), XXI, a 468
LERMONTOFF, Mikhail Yurevitch, poet, XIV, a b 471; (Russia), XXI, b 104
Le Roux, physicist (Electricity), VIII, a 70, b 89, a 91, b 92; (Light), XIV, b 606
LEROUX, Pierre, political economist, XIV, b 471–2; (Saint-Simon), XXI, a 208
Le Roy, Julien David, on Grecian monuments (Architecture), II, b 388, a 389
Leroy-Beaulieu, publicist (Political Economy), XIX, b 399 note
Leroy's Dynamometer, VII, a 505; Electrical Machine (Ill.), VIII, b 94
Lerwick, town (Orkney and Shetland), XVII, b 872; (Scotland), XXI, *b* 550
Léry or Lére, Jean, traveller (Toucan), XXIII, a 507
LE SAGE, Alain René, novelist, XIV, a 472–4; (France), IX, b 585, a 586; (Isla), XIII, b 397
——, Georges Louis, physicist (Telegraph), XXIII, b 120; on gravitation (Atom), III, a b 41
Lesbia, beauty (Catullus), V, *a b* 216
Lesbiaca, history (Hellanicus), XI, b 566
Lesbio-Æolic, dialect (Greece), XI, b 117–8
LESBOS, island, XIV, a 474–5; (Ducas), VII, a 436; (Greece), XI, b 83, b 90, b 124; (Numismatics), XVII, a b 663
Les Chats, rapids (Quebec), XX, a 172
Lesche of Delphi (Archæology), II, b 313; (Polygnotus), XIX, b 431
Lesches of Mitylene, poet (Greece), XI, a 123
Lescot, Pierre, architect (Goujon), XI, b 4–5
Lescurel, Jehannot de, poet (France), IX, a 567
Lesdiguières, François de Bonne, duc de (Grenoble), XI, a 166; (Universities), XXIII, a 902
Leser, sect (Hauge), XI, a 466
Leser & Co., St. Louis (Dairy), VI, b 677
LESGHIANS or Lesghis, tribes, XIV, a b 475; (Caucasus), V, b 224, a 225
Leskiadæ (Echinodermata), VII, b 545
Leskien, ——, philologist (Philology), XVIII, a 797, b 798; (Slavs), XXII, *a* 157, a 158, b 159 note, a 160
Lesley. See Leslie
LESLEY, John, bishop, XIV, b 475–6; (Scotland), XXI, b 522, b 523, a 525, b 567
Leslie, Alexander, general. See LEVEN, earl of
LESLIE, Charles, theologian, XIV, a b 476
LESLIE, Charles Robert, painter, XIV, b 476
Leslie or Lesley, David, general. See NEWARK, Lord
——, general (Hastings), XI, *a* 460
LESLIE, Sir John, physicist, XIV, b 476–7; (Algebra), I, b 456; (Brown, Thos.), IV, b 348; (Capillary Action), V, b 51; (Hygrometry), XII, a b 604; (Radiation), XX, *a* b 220; (Scotland), XXI, a 563; (Stewart), XXII, b 575
——, Robert, bishop of Ross (Treason), XXIII, b 561, b 562
LESLIE, Thomas Edward Cliffe, economist, XIV, a 477–8; (Political Economy), XIX, *b* 379, b 391, b 392, a 395, b 409, a 411–2, a 413
Leslie's Anemometer, II, a 24
Lesmahagow coal field (Lanark), XIV, a b 251
Lespinasse, Claire Françoise de (France), IX, b 587
Lesquereux, Charles Leo, botanist (Distribution), VII, *b* 249; (Geology), X, b 319, a 324; (Sullivan), XXII, a 933; (Surveys), a 938
Les Rousses, fort of (Jura), XIII, b 791, *a* 792
Lessar, Russian engineer (Persia), XVIII, a 629
Lessart, Antoine de Valde de, statesman (Vergniaud), XXIV, a 178
Lesse river (Luxemburg), XV, a 90; (Meuse), XVI, b 213
Lesseps, Ferdinand de, count, engineer (Africa), I, a 224; (Canal), IV, *b* 697, a 698, a 701; (Ismalia), XIII, a 398; (Panama), XVIII, b 213; (Sahara), XXI, b 159; (Saint-Simon), a 208
Lesser, naturalist (Protozoa), XIX, b 867
LESSING, Gotthold Ephraim, critic, XIV, b 478–82
  Breslau residence, b 480
  editions, b 482
  first return to Berlin, a 479–80
  foreign tour, a 480
  Hamburg period, a 481
  Laocoon period, b 480–1
  personal features, a b 482
  theological controversy, b 481–2
  third Berlin residence, a 480
  Wittenberg university period, a 479
  Wolfenbüttel period, a 481–2
  youth, b 478–9
——, (Æsthetics), I, *a* b 193, b 194, b 197; (Diderot), VII, b 169; (Drama), *b* 381, a 382; (Epigrams), VIII, a 424–5; (Evolution), b 666; (Fable), a 735; (Faustus), IX, b 49; (Fine Arts), b 181; (Frederick II.), a 648, a 650; (Freemasonry), a 660; (Germany), X, a *b* 477, a *b* 478, a b 479–80; (Herder), XI, a *b* 650, *a b* 651; (Jacobi), XIII, b 546; (Jews), b 690; (Kamenz), a 842; (Laocoon), XIV, a 293; (Marionettes), XV, b 553; (Mendelssohn), XVI, a 13; (Nicolai), XVII, b 502; (Spinoza), XXII, b 418; (Sophocles), b 285
——, Johann Gottfried, divine, XIV, b 478
Less Mór, monastery (Ireland), XIII, b 256
Lesson, René Primevere, ornithologist (Kiwi), XIV, b 106, a 107; (Ornithology), XVIII, a b 17
Lessonia, genus (Botany), IV, a 92; (Algæ), I, b 449
Lesson in Anatomy, painting (Rembrandt), XX, b 386, a 389, note
Lestes sponsa, insect (Dragon-Fly), VII, a 335
Lestocq, physician (Elizabeth Petrovna), VIII, b 135
Lestrange, Sir Hamon (Dodo), VII, b 279
——. Louis Henry, abbot (Trappists), XXIII, b 557, *a* 558
L'ESTRANGE, Sir Roger, journalist, XIV, b 482–3; (Newspapers), XVII, a b 425; (Pamphlets), XVIII, a 209
LESUEUR, Jean François, musician, XIV, a 483
Leszinski or Leszcynski, Stanislaus. See STANISLAUS, king of Poland
Le Tai-pih, poet (China), V, b 578
Letchworth, W. P., penologist (Reformatories), XX, b 900, a 901
Lete, town (Numismatics), XVII, *a* 657
Le Tellier, Michel, chancellor (France). IX, a 506; (Louvois), XV, *b* 28
Letham, town (Forfar), IX, *b* 362
LETHE, mythic river, XIV, b 483
Letheby, Dr. H. (Adulteration), I, b 154
Lethington, William Maitland of (Maitland), XV, a b 311
Lethrinus, genus (Ichthyology) (Ill.), XII, a 676, b 718, a 719, a 727
Lethrus cephalotes, beetle (Vine), XXIV, b 256
Leti, Gregorio, historian (Popedom), XIX, a 525
Leto, goddess. See LATONA
——, Pomponio, humanist (Rome), XX, b 823
LETRONNE, Jean Antoine, archæologist, XIV, b 483
Le-tsing, town (China), V, a 551
Le Tsze-ching, rebel (China), V, *a* 564
Letter-hand, writing (Typography), XXIII, a 725
Letterkenny, town (Donegal), VII, *a* 314
Letter Locks, XIV, b 752
Letters. See ALPHABET and Types
——, mysterious in Koran (Mohammedanism), XVI, a 626
Letters of St. Catherine of Siena, V, a b 202
—— of Gregory the Great, XI, a b 157; (Popedom), XIX, a 508
—— of Junius, XIII, b 784–7
—— of Madame de Maintenon, XV, b 307, a 308
—— of Samuel Rutherfurd, XXI, b 120–1
—— of Madame de Sévigné, XXI, a b 737, a b 738, a 739–40
—— of Horace Walpole, XXIV, b 355
——. See *Lettres* and names of letter-writers
—— of marque and reprisal (Admiralty), I, b 146; (Privateer), XIX, a 784
—— private (Copyright), VI, b 319; (Protection), XIX, b 930; violating (Warrant), XXIV, a 392
Letters from a Ghost (Hertz), XI, b 690
—— *to his Son* (Chesterfield), V, *a* 528
Letter Writer of Seville, painting (Phillip), XVIII, b 771
Letter writers (Spain), XXII, b 373
Lettic languages (Europe), VIII, b 615; (Dictionaries), VII, a 163
Letto-Lithuanians (Russia), XXI, b 88
Letton, John, printer (Littleton), XIV, a 711
Lettres à une Inconnu (Mérimée), XVI, b 42
LETTRES DE CACHET, XIV, b 483–4; (Malesherbes), XV, b 335; (Mirabeau), XVI, a b 516, a 517, a 521; (Pigault Seebrun), XIX, a 93
—— *Édifiantes* (Ethnography), VIII, a 550
—— *Historiques* (Dumont, J.), VII, a 457
—— *Parisiennes* (Girardin, E.), X, a 554
—— *Persanes* (Montesquieu), XVI, b 808–9, b 811
—— *Philosophique sur les Anglais* (Voltaire), XXIV, *b* 307, a 308
—— *sur la liste civile* (Cormenin), VI, a 361
Letts, people (Lithuanians), XIV, *b* 707, a b 708, *a* 709; (Livonia), a *b* 730, a 731; (Slavs), XXII, a 157
Lettsom, John Coakley, physician (Tea), XXIII, a 108
Lettsomite (Mineralogy), XVI, b 419
Lettuce, plant (Botany), IV, a 76, a 77; (Horticulture), XII, a 296
Letygola, people (Lithuanians), XIV, b 707
Leucadia or Leucas, island (Ionian Islands), XIII, a 212; (Santa), XXI, b 311
Leucæthiopes (Albino), I, b 402
Leucas, species of Whale, XXIV, b 554
Leucaspis, insect (Hymenoptera), XII, a 607 note, a 608, b 610
Leucate lagoon (Pyrénées), XX, a 134
Leuchtenberg, Augustus Eugène Napoleon, duke of (Portugal), XIX, b 568
Leuchtenbergite (Mineralogy), XVI, b 431

Leucifer (Crustacea) (Ill.), VI, a 589

Leucin, chemical product (Gelatin), X, a 118, a 119; (Nutrition), XVII, a b 695, b 696, a 697; (Physiology), XIX, b 55, b 57, a 58

Leucippe and Cleitophon (Romance), XX, b 651

LEUCIPPUS, philosopher, XIV, *a* b 484; (Evolution), VIII, b 662

Leuciscus, author. See GRAZZINI

——, genus (Ichthyology) (Ill.), XII, a 677, a 731; (Minnow), XVI, a 500; (Roach), XX, a 597

Leucite, mineral (Geology), X, a 203; (Mineralogy) (Ill.), XVI, a 365, b 429–a 430

Leuckart, Karl Georg Friedrich Rudolf, naturalist (Amphibia), I, b 657, a 658; (Arthropoda), II, a b 566; (Cœlentera), VI, *b* 98, notes; (Nematoidea), XVII, *b* 334, *a* 335; (Parasitism), XVIII, a 263, b 265, a b 266, a 268; (Protozoa), XIX, a 877, b 891; (Radiata), XX, a 219; (Tape-Worms), XXIII, b 54, a 56, a 58, a 61; (Trematoda), b 571, *a* b 573, *a* 575; his classification (Zoology), XXIV, b 847–8

Leucobryum, moss (Musciceæ), XVII, *b* 77, b 78

Leucochlorium, parasite (Trematoda) (Ill.), XXIII, a b 574

Leucocytes (Anatomy), I, a 743

Leucocythæmia, disease (Pathology), XVIII, a b 383; blood in (Pathology), a 371

Leucocytosis, disease (Pathology), XVIII, b 383

Leucoderma (Skin Diseases), XXII, a 130

Leucojum, plant (Horticulture), XII, a 259

Leuconaria, tribe (Sponges), XXII, a 439, a *b* 444

Leuconidæ, family (Sponges), XXII, a 439, a 443

Leuconostoc forms (Schizomycetes), XXI, b 419, a 421, a 423

Leuconotis, plant (India-Rubber), XII, b 880

Leucopathia, skin affection (Albino), I, b 402

Leucophane, mineral (Mineralogy), XVI, b 436

Leucopsis (Sponges), XXII, b 429

Leucopyrite (Mineralogy), (Ill.), XVI, b 406

Leucorhamphus (Mammalia), XV, b 403

Leucosarcia, genus (Pigeon), XIX, b 93

Leucosia, genus (Crustacea), VI, b 566

Leucosticte, genus (Linnet), XIV, *a* 682

Leucothea (Archæology), II, b 315

Leuctra, battle of, 371 B.C. (Epaminondas), VIII, a 406; (Greece), XI, a 93; (Xenophon), XXIV, b 756, *a* 757

Leuga or league (Weights and Measures), XXIV, a 512

LEUK or Loéche la Ville, village, XIV, b 484; (Mineral Waters), XVI, b 452, b 454

Leukæmia, disease (Gelatin), X, b 117; (Pathology), XVIII, a b 383, a 384, b 409

Leukophibia, town (Patrick, St.), XVIII, b 421, note; (Wigtown), XXIV, a 595

Leukoplasts (Physiology), XIX, *a b* 61

Leupold, Jakob, mechanician (Steam-Engine), XXII b 494

Leusticosaurus, fossil reptile (Plesiosaurians), XIX, b 233

Leuthar, chief (Narses), XVII, a 240

Leuthen, battle of, 1757, III, b 384; (Austria), b 111; (Frederick II.), IX, b 648

LEUTSCHAU, town, XIV, b 484-5

Leuwarden, town. See LEEUWARDEN

Leuwenhoek, Anthony van. See LEEUWENHOEK

Levadias, disease (Cape Verd Islands), V, b 46

Le Vaillant, François, traveller (Ornithology), XVIII, b 12 note, b 14–5

Levana, Richter (Education), VII, b 587–8

Levant, region (Cœur), VI, b 99; (Consul), a b 281; Venetian power in (Italy), XIII, a 485; (Venice), XXIV, b 154–5

—— Company, traders (Shipping), XXI, *b* 865

—— mud (Foraminifera), IX, a b 340

Levante, wind (Canary Islands), IV, b 703

Levari facias, Writ, XXIV, a 732

Levay, Joseph, poet (Hungary), XII, b 393

Leveche, wind (Spain), XXII, b 310

Levees, embankments (Mississippi), XVI, a 543, a 544, a 545

Level, micrometer spirit (Surveying), XXII, a 755; in theodolite (Surveying), a 756

Levellers, party (Acephali), I, b 87

Levelling in (Agriculture), I b 298

—— in Surveying, XXII, b 743–4; instruments (Surveying), b 757–8

Levels in mines (Coal), VI, b 58, a b 59–60, b 62, a 67; (Geology) X, b 264; (Mining), XVI, a b 468, a 469

Levels, base line, ascertaining (Geodesy), X, a b 147; contouring (Surveying), XXII, a 748; data for (Tides), XXIII, b 393–4

Level surfaces (Pneumatics), XIX, b 252

Leven, Loch, fishery (Salmonidæ), XXI, a b 237

——, river (Dumbarton), VII, b 452, *a* b 453; (Fife), IX, *b* 131; (Kinross), XIV, b 93; (Lancashire), a 253; measure (Coal), VI, b 51

LEVEN, Alexander Leslie, earl of, general, XIV, a 485; (Milton), XIV, b 340; (Scotland), XXI, b 534, a b 535

Levenhaupt, general (Charles XII.), V, b 364, a 365

Leventine valley or Val Leventina (Switzerland), XXII, a 824; (Ticino), XXIII, *b* 373

Lévêque, Charles, author (Æsthetics), I, b 191, b 198, b 201

Lever, Sir Ashton (Archery), II, a 326, b 328

LEVER, Charles, novelist, XIV, a 485–6

Lever in Mechanics, XV, a 762

Leverage, muscular (Anatomy), I, a 730

Lever Balance, III, a 226–7; chronometer (Watch), XXIV, a 419; escapement (Watch) (Ill.), b 417, a 418; slide (Magic Lantern) (Ill.), XV, b 213

LEVERRIER, Urbain Jean Joseph, astronomer, XIV, a 486–7; (Astronomy), II, a 696, *a* 697, a 707, *b* 711; (Comet), VI, a b 172; (Meteorology), XVI, a 120, b 163; (Parallax), XVIII, a b 251

Levi, eponym (Levites), XIV, a b 487–9; tribe of (Israel), XIII, a 411

—— or Matthew, XV, a 640

Leviathan (Hobbes), XII, *b* 37, a *b* 38, b 39, b 40, a 41; (Taxation), XXIII, b 91

Levin, Rahel Antonie Friederike, authoress (Varnhagen von Ense), XXIV, a 99

LEVIS or Pointe Levi, town, XIV, a 487; (Quebec), XX, a b 174

LEVITA, ELIAS, rabbi, VIII, b 125; (Buxtorf), IV, b 535; (Hebrew Language and Literature), XI, *a* b 536, note

——, Judas. See Judas Levita

LEVITES, tribe, XIV, a 487–9; (Eldad ben Malchi), VII, b 718; (Ezra), VIII, b 727; (Habakkuk), XI, a 319; (Israel), XIII, a *b* 428, a 429; (Judges), b 774; (Pentateuch), XVIII, b 520, a 521; support of (Tithes), XXIII, b 438–9

Levitical Altars, I, b 562–3, b 564; laws (Bible), III, a 548, a b 551; (Joel), XIII, b 716; (Penance), XVIII, b 495; literature (Chronicles), V, a 614

Leviticus, Book of (Mishnah), XVI, b 530; (Passover), XVIII, a 349, note. See PENTATEUCH

Levoin, Th. H., orientalist (Tibet), XXIII, b 368 note

Levulose. See Lævulose

Lévy, Armand, mineralogist (Crystallography), VI, b 597, a b 598

Levyne, mineral (Mineralogy) (Ill.), XVI, a 440

LEW-CHEW or Riukiu Islands, XIV, a 489–90; (China), V, a 563; (Japan), XIII, a 580

LEWES, town, XIV, b 490; (Sussex), XXII, a 761, *a* 762, *a* 763

LEWES, George Henry, critic, XIV, b 490-1; (Aristotle), II, b 456 note; (Comte), VI, b 209; (Evolution), VIII, a 670; (Germany), X, a 487; (Goethe), a 656; (Metaphysic), XVI, b 105

——, Marian, novelist. See Eliot, George

Lewin, ——, historian (Sepulchre), XXI, a b 704, note

—— J. W., naturalist (Ornithology), XVIII, b 13, a 20

——, Thomas, antiquary (London), XIV, *a* 850

Lewis, kings of France. See Louis

——, Charles, binder (Bookbinding), IV, a 38

——, Frederick Christian, engraver (Turner), XXIII, a 707

LEWIS, Sir George Cornwall, statesman and historian, XIV, a 492–3; (Babrias), III, *b* 157; (Grote), XI, a *b* 191; (Niebuhr), XVII, a b 506; (Ptolemy), XX, b 95 note; (Pytheas), b 149, b 150

——, John D., critic (Juvenal), XIII, a 813, note, a b 818

LEWIS, Matthew Gregory, author, XIV, a b 493; (Timur), XXIII, a 427

LEWIS, Meriwether, explorer, XIV, b 493–4

—— and Clarke's expedition (Montana), XVI, b 800; (Pacific Railroads), XIX, a 913; (Surveys), XXII, b 935, note; (Washington), XXIV, a b 408

——, Morris J., physician (St. Vitus's Dance), XXI, a 212 note

——, William, player (Chess), V, b 522, *a* 524

LEWIS AND HARRIS, island, XIV, a 492; (Scotland), XXI, a 550

—— Glinn Cothi, poet (Celtic Literature), V, b 278, b 284

Lewisham, village (London), XIV, a 827, a b 831, a b 842, a 843

Lewis Fork, river (Yellowstone Park), XXIV, b 773

LEWISTON, Maine, city, XIV, a 494

Lew Keang, river (China), V, a 556

Lew Kew, island (China), V, b 560

Lew Pang, emperor (China), V, b 559

Lew-Pei, emperor (China), V, *a* 560

Lew-Sew, emperor (China), V, a 560

Lex, use of the word (Roman Law), XX, a 688 note

—— annua (Roman Law), XX, b 715, a 716

—— *Bajuvariorum* or *Bawarorum* (Salic Law), XXI, a 225

—— Canuleia (Marriage), XV, b 575

—— Carolina (Golden Bull), X, a 674

—— Cornelia de Provinciis (Rome), XX, a 781 note

Lexell's comet (Astronomy), II, b 712

Lex Frisionum (Frisians), IX, a 693

—— Furia (Slavery), XXII, a 142

Lex generalis (Roman Law), XX, b 729
—— Gundibaldia (Burgundy), IV, b 478
Lexicography (Dictionary), VII, a 155-7; (Hebrew Language and Literature), XI, b 537; (Sanskrit), XXI, b 307-8; (Syriac Literature), XXII, b 890, *a* b 891, a 893, a 894; (Arabic (Mohammedanism), XVI, b 617
Lexicon, Greek historical (Suidas), XXII, a b 665
——, *Heptaglott* (Polyglott), XIX, a 431
——, *Polyglott* (Castell), V, a b 168
Lexicons. See DICTIONARY
—— Biblical (Robinson), XX, *a* 623; (Syriac Literature), XXII, a 864, note
——, Byzantine (Greece), XI, b 130, b 136
Lexicon Technicum (Encyclopædia), VIII, a 178; (Harris), XI, a 441
—— *Tetraglotton* (Howell), XII, a 338
LEXINGTON, Kentucky, city, XIV, a 494
——, Massachusetts, town (Cambridge), IV, b 647; battle of, 1775 (Parker), XVIII, b 306; (Tooke), XXIII, b 473; (United States), b 788, b 789, a 790
——, Missouri, town, XIV, a 494
——, Virginia, town, XIV, a 494
Lexiphanes, dialogue (Lucian), XV, a 45
Lex Julia (Rome), XX, b 778; (Treason), XXIII, a 559
—— Julia et Papia Poppæa (Divorce), VII, a 261; (Marriage), XV, b 575; (Roman Law), XX, b 722, b 729
—— Plautia Papiria (Rome), XX, b 778
Lex Rex, treatise (Rutherfurd), XXI, *b* 120
—— *Romana*, Lombard (Breviarium Alaricanum), IV, *a* 235
—— Sacrata (Rome), XX, b 755-6
—— Vatinia (Rome), XX, b 783
—— *Visigothorum* (Fuero), IX, a b 711
—— Voconia (Women), XXIV, a 672
Ley, Clement (Meteorology), XVI, b 131, a-b 161
Leybourne, W. de (Admiral), I, *a* 142
LEYDEN, city (Plan), XIV, a 494-5; (Holland), XII, *a* 67, *b* 69, a b 70, a 71, a 75, b 78; (Independents), a b 763; (Libraries), XIV, a 531; (Medicine), XV, b 821; siege of, 1574 (Holland), XII, b 78
——, University of (Arminius), II, b 483; (Descartes), VII, a b 104, *b* 109; (Dousa), b 327; (Scaliger), XXI, b 379-80; (Universities), XXIII, a 906; (Wyttenbach), XXIV, a 751; Observatory of, XVII, a b 735
LEYDEN, John, linguist and poet, XIV, b 495-6; (Siam), XXI, b 895, *b* 896
—— jar (Allamand), I, b 510; (Constitution of Bodies), VI, b 278; (Electricity) (Ill.), VIII, *b* 6, a b 7, b 14, *a* 15, b 32-3
Leyer und Schwert (Körner), XIV, b 142
Lyre, river (Gironde), X, b 556; (Landes), XIV, b 272
Leys d'Amors (Provençal Language), XIX, a 893, a 897; (Provençal Literature), a 902
Leyte, island (Philippine Islands), XVIII, a 763, b 765-6
Le Yuen, emperor (China), V, b 560-1
Leyva, Diego de, painter (Haro), XI, a 433
Lezioni di Commercio (Genovesi), X, a 143
Lezirias, delta (Tagus), XXIII, b 26
Lha-khang, temple (Lhasa), XIV, a b 500
LHASA, city (Ill.), XIV, a 496-503
    buildings, b 496-7, a 498
    climate, a b 501
    coins (Ill.), b 497-8
    commercial features, a b 497
    convents (Ill.), a 498-500
    festivities, b 500-1
    history, b 501-3
    Labrang temple, a 498-9
    missions, b 502-3
    population, a 498
    situation of, a b 496
    works on, a 503
—— (Himalaya), XI, b 735; (Huc), XII, *b* 342; (Tibet), XXIII, a *b* 359 note, *a b* 361, a 362, *a* b 363, *a b* 364, *a* b 365, *a* 367
Lha-tho-thori, king (Tibet), XXIII, a 367
L'Herminier, Félix Louis, naturalist (Ornithology), XVIII, b 24, a b 25, a b 26, note, a b 28
Lherzolite rock (Geology), X, b 210
Lhobra basin (Tibet), XXIII, a 362
Lhojong, town (Tibet), XXIII, b 363
L'HOPITAL or L'Hospital, Michel de, chancellor of France, XIV, a 503; (Catherine de' Medici), V, b 205; (France), IX, *b* 493, *a* 494, b 576; (Francis II.), a 609
Lhota, synod of, 1467 (Moravian Brethren), XVI, *a* 838
L'Hôte, Nestor, antiquary (Mariette), XV, b 549
L'Huillier, Simon, mathematician (Bee), III, b 423; (Trigonometry), XXIII, b 603
Lhuyd, Edward, philologist (Celtic Literature), V, a 260
Li, book of rites (Confucius), VI, b 233
Liability (Guarantee), XI, b 209; (Master and Servant), XV, b 627; (Partnership), XVIII, a b 336, a b 337; fire (Insurance), XIII, b 170, a 171, b 181-4; limited (Banking), III, b 283; (Company), VI, b 197, *a* b 198; separate (Women), XXIV, *b* 674, *a* 675
Lia Fail, coronation stone (Rude Stone Monuments), XXI, b 56
Liais, Emmanuel, astronomer (Zodiacal Light), XXIV, *b* 835, a 837
Liakhoff, explorer (Polar Regions), XIX, a 331
—— islands (Ivory), XIII, a 532; (Mammoth), XV, a 455
Liakura, mountain (Greece), XI, a 74
Lialidæ (Lizard), XIV, b 739
Liao dynasty (China), V, b 545
"Liar," problem of the (Philetas), XVIII, a 756, note
Liard, tree (Poplar), XIX, a 527
Lias, system of rocks (Geology), X, a b 314-5, b 316; (Coal), VI, b 54; (Scotland), XXI, *a* 544; (York), XXIV, a b 784; Corals, VI, b 336, a 337; fauna (Distribution), VII, 246, b 247
Liatris, genus (Horticulture), XII, a 259; (Snake-Root), XXII, a 199
LIAU-YANG, city, XIV, a 504
LIBANIUS, sophist, XIV, a 504
Libanus, mountains. See LEBANON
LIBAU, town, XIV, a 504; (Riga), XX, *a* 569
Libavius, Andreas, chemist (Chemistry), V, b 398; (Zinc), XXIV, a 823
Libby prison (Richmond), XX, b 560
LIBEL AND SLANDER, XIV, b 504-7; (Burdett), IV, b 475-6; (Camden, Earl), *a* b 650; (Campbell, Baron), a 670; (Contempt of Court), VI, a b 283; (Costs), a 400; (Duel), VII, b 444; (Jury), XIII, b 796; (United States), XXIII, *b* 804; actions for (Newspapers), XVII, *b* 427; (Press Laws), XIX, a 730, a 731; trials (Almon), I, a 523; (Mansfield), XV, b 506
Libelli (Palæography), XVIII, a b 158; (Pamphlets), a 208
Libellulidæ, family of insects (Dragon-Fly), VII, b 333, *a b* 334, b 335, *a* b 336
Libellus conventionis, process (Roman Law), XX, a b 730
Libellus Islandorum (Iceland), XII, b 660
—— *Visitatorius* (Melanchthon), XV, b 842, b 843
Libel of English Policy (Ireland), XIII, a 267
LIBER AND LIBERA, Roman deities, XIV, a b 507; (Dionysus), VII, b 217; (Jupiter), XIII, b 790
Liber Albus (Adulteration), I, a 152, a 155, b 156
Liberalia, feast (Liber), XIV, a 507
Liberalism (Belgium), III, b 455, b 457, a b 458; (Communism), VI, b 191-2; (Hungary), XII, b 385-6; (Italy), XIII, a b 497; (Renaissance), XX, b 405-6; English (Fonblanque), IX, b 315-6; German X, a 457, a 459, *b* 460, *a* 461; (Socialism), XXII, a b 222, *a* 227, a 231
Liberal party, English (Brougham), IV, b 338; (Broughton), b 343-4; (Canning), a 715; (Whig and Tory), XXIV, a 571
—— party (Mexico), XVI, a 228, a 229
—— Republican party (Greeley), XI, a 145; (United States), XXIII, a 833
Liber Amoris (Hazlitt), XI, a b 491
Liberata, genus (Crustacea), VI, b 587-8
Liberator, journal (Garrison), X, b 77, a 79
Liber Authenticarum (Justinian I.), XIII, b 803
—— *Comitis*, lectionary (Lection), XIV, b 398
—— *Concordiæ* (Lutherans), XV, a 86
—— *de Causis* (Scholasticism), XXI, a 444
—— *de Infantia* (Mary), XV, a 597
—— *de Mysteriis* (Iamblichus), XII, a *b* 638
—— *de Wintonia* (Domesday), VII, a 303
—— *Diurnus* (Popedom), XIX, a 508
Liberec, town (Reichenberg), XX, b 362
Liberi, heirs (Roman Law), XX, a 721
LIBERIA, republic, XIV, b 507-8; (Africa), I, a 237, a 241; (Coffee), VI, b 100
Liberian gum (India Rubber), XII, b 879-80; Hippopotamus, XI, a 765; tribes (Negro), XVII, a 328
LIBERIUS, pope, XIV, a b 508; (Popedom), XIX, a 505, b 523
Liber Memorandorum of city of London (Sea Laws), XXI, *a* b 611
—— *Pontificalis* (Popedom), XIX, a 503, a 505 note
—— *Regalis* (Coronation), VI, b 380, a 381
—— *Regis* (Annates), II, b 55
Liber Studiorum (Turner), XXIII, b 706-7
Liberties, districts (Ireland), XIII, a 272
Libertines, sect (Jude), XIII, a 772, note
Libertins, party (Geneva), X, a 134
Liberton, town (Edinburgh, County), VII, a 571
Liberty (Government), XI, b 15-7
Liberty, statue, New York (Sculpture), XXI, a 593 note
——, Natural, in Political Economy, XIX, b 371-403
——, religious (England), VIII, a b 315; (Government), XI, a b 16; (Tindal), XXIII, b 430
—— Boys (Tammany Society), XXIII, a 920

- Liberty conventions of United States (Chase), V, a 377
- —— of the press (Press Laws), XIX, a 730, *a* b 731, a b 732, a b 733
- *Liberty of the Press* (Tindal), XXIII, b 430
- —— of speech (England), VIII, a 315
- —— party (Garrison), X, b 78; (Republican Party), XX, b 905; (United States), XXIII, a b 816
- Liberum veto (Poland), XIX, *a* 302, a *b* 306, b 307, b 308, *a* b 309, a 317
- *Liber Veritatis*, collection (Schools of Painting), XXI, a 466
- Liberthenite (Mineralogy) (Ill.), XVI, a 423
- LIBOURNE, town, XIV, b 508
- Libra, sign of Zodiac, XXIV, b 829, a 830, a 831, a 833, *a* 834
- ——, weight (Weights and Measures), XXIV, *a* 508, b 513, a 514, b 516; (Numismatics), XVII, a 673
- LIBRARIES, XIV, a 509–54
  - acquisition of books, b 541-2
  - administration of, a b 540
  - Alexandria, a b 510
  - Arabian, b 513
  - Asia, a b 533, a 552
  - Assyrian, a 509
  - Austria, b 526–7, a 549–50
  - Belgium, b 530–1, a 551
  - binding, b 538
  - British Museum, a 514–5, b 544
  - buildings, a 536–7
  - Cambridge, a b 519, a 543
  - catalogues, a 539-40
  - cathedral, English, b 517–8
  - Charlemagne, period of, a 512
  - classification of books, b 537–8
  - colonial, British, b 533–4, a b 552
  - Constantinople, b 511
  - copyright acts, a 542
  - earliest period of, a 509-11
  - Egyptian, a b 509, a 552
  - England, a b 513, a 514–20
  - free English, b 519–20
  - French, a 523–5, a b 547
  - furniture and appliances, a b 537
  - Germany, b 525–6, b 547–9
  - Great Britain and Ireland, list of, b 542-6
  - Greek, b 509-10, a 552
  - Holland, a b 531, a 551
  - Ireland, b 522–3
  - Italy, a 527–30, a 550-1
  - librarians, b 540-1
  - London, b 515–7, b 544–5
  - mediæval, b 511–4
  - Mexico, a 536, b 554
  - monastic, b 512–3, a 527, b 530
  - national Italian, a b 529
  - official in London, b 516, a 517
- LIBRARIES, *continued*
  - Oxford, a 518–9, b 545-6
  - Paris, b 523–5, b 547
  - Pergamus, b 510
  - practical hints on management, b 538-9
  - public Italian, b 527-8
  - renaissance, b 513-4
  - Roman modern, a 528-9, b 550-1
  - Rome, pagan, b 510-1
  - Russia, b 532–3, a 552
  - Scandinavia, b 531–2, a b 551
  - Scotland, a 521–2
  - selection of books, a b 541
  - South America, b 535–6, a b 554
  - Spain and Portugal, a b 532, b 551
  - subscription, English, a 517, a 521
  - Switzerland, a 527, a 550
  - table of, b 542–54
  - United States, a 534–5, b 552-4
  - universities, Italian, b 529-30
  - Vatican, a b 528
- —— (Abbey), I, a 19, b 22, a 23, a 24; (Alexandria), a b 436; (Arabian Philosophy), II, *a* 235; (Aristotle), a 450; (Athens), III, a 9; (Babylonia), a 161, b 162, b 165, a 166; (Belgium), b 450; (Birmingham), a 680; (Bologna), IV, b 18; (Bonn), a 31; (Boston), b 67; (Brazil), a 214; (Brescia), a 231; (Breslau), a 232; (Bristol), a b 317; (Brussels), a b 364; (Cairo), b 573; (Cambridge), *b* 645, a b 646, *a* 647; (Canterbury), V, b 26; (Cava), a 226; (Chicago), b 252; (China), *b* 560, b 575; (Copenhagen), VI, a b 305, a 306; (Copyright), a 317, a 318; (Corvey), b 392; (Dresden), VII, a 405; (Dublin), b 430, b 431; (Dundee), a 463; (Edinburgh), b 575, b 577; (Etchmiadzin), VIII, a 500; (Ferrara), IX, a 95; (Florence), a 291; (Frankfort), b 621
- —— (Geneva), X, a 133; (Genoa), a b 140; (Germany), a 424; (Ghent), a 504; (Gibbon), b 514-5; (Gibraltar), a 522; (Glasgow), b 574, a 575; (Gotha), b 750 (Göttingen), a 760; (Greece), XI, b 128, b 133; (Grenoble), b 165, note; (Hague), a 333; (Hartford), *b* 444; (Harvard College), b 447; (Heidelberg), *b* 556, a 557; (Herculaneum), b 648; (Indianapolis), XII, *b* 854; (Inns of Court), XIII, b 96, a b 97; (Italy), a 472; (Leeds), XIV, b 408-9; (London), b 846; (Lucerne), XV, b 42; (Lund), a 67; (Lyons), b 113; (Madrid), b 192; (Manchester), b 468, a b 470; (Maryland), b 610-1; (Massachusetts), a b 621; (Melbourne), b 845-6; (Milan), XVI, a 304; (Montreal), a 821; (New York), XVII, a 897, a 898; (Oldenburg), a 780
- —— (Oxford), XVIII, a b 98, a b 99, a b 100, a 101; (Paris), a 286, b 301; (Pavia), b 449; (Pesth), b 705; (Philadelphia), a 754; (Plymouth), XIX, b 249; (Preston), b 737; (Rhode Island), XX, a 539; (Rochelle), b 628; (St. Louis), XXI, a 193; (St. Petersburg), b 203; (Schaffhausen), b 403; (Siena), XXII, a 44; (Upsala), XXIII, b 916; (Valenciennes), XXIV, a 41; (Windsor), b 633; (Wisconsin), a 652; (Wolfenbüttel), b 664
- ——, book collecting for (Dictionary), VII, a 156
- ——, British garrison (Army), II, a 513
- ——, circulating (Franklin), IX, a 627
- ——, classification in (Bibliography), III, a 572–3
- ——, English, destruction of (English Bible), VIII, b 342, note
- *Libraries and Founders of Libraries*, XIV, a 513, note
- Library, Alexandrian, I, b 436; (Amru-ben-el-Ass), a 683; (Egypt), VII, a 646, b 649, note; (Eratosthenes), VIII, b 459; (Septuagint), XXI, b 699, a 700
- —— Association of United Kingdom (Libraries), XIV, a 541
- ——, Astor, II, b 645; (New York City), XVII, a 897
- —— at Athens (Atticus), III, a 54
- —— at Bokhara (Avicenna), III, a 133
- ——of Clermont (Bibliography), III, b 572
- —— of Congress, U. S. (Copyright), VI, b 324-5; (Protection), XIX, a *b* 928; (Washington), XXIV, b 424
- —— Cordova, Saracenic (Spain), XXII, b 328, a 329
- —— of Escorial, VIII, b 477; (Bibliography), III, a 572
- —— management (Panizzi), XVIII, a b 216, a 217
- —— of Monte Casino (Boccaccio), III, a 734
- ——, Paris postal (Post-Office), XIX, a 599
- —— of St. Mark, Venice (Crete), VI, b 506; (Venice) (Ill.), XXIV, b 157–8, b 168, note; (Veronese), a 188
- —— at Salzburg (Arno), II, a 546
- —— Smithsonian, XXII, *a* b 914
- ——, Vatican. See Vatican
- *Library Companion* (Dibdin), VII, b 149
- —— *Journal* (Libraries), XIV, b 536, b 538, b 541, a 542
- —— *of the Fathers* (Pusey), XX, b 123
- Libration, lunar (Astronomy), II, a 700
- *Librettos* (Quinault), XX, *a* b 188
- Libreville, town (Gaboon River), X, *a* 5
- Libri, Girolamo dei, painter (Illumination), XII, a 747
- Libri-Carrucci, Guillaume Brutus Icilius Timoléon, Count, mathematician (Bookbinding), IV, *a* b 37; (Mérimée), XVI, a 42
- *Libri Carolini* (Image Worship), XII, a 752
- —— *di Verità* (Claude Lorraine), V, a 712
- Libripens, officer (Roman Law), XX, b 693, a 694, note
- *Libro di divisamenti di Paesi* (China), V, b 546
- LIBURNIANS, people, XIV, a 554
- *Libusin Soud* (Slavs), XXII, b 160, a 162
- Libussa, princess (Prague), XIX, a 679
- LIBYA, country, XIV, a 554–5; (Africa), I, b 223; (Asia), II, b 596, a 597; Birds of, III, b 657-8
- Libyan desert (Oases), XVII, b 714–5; (Sahara), XXI, a b 158, a 159; (Tripoli), XXIII, b 611-2
- —— or Berber language (Philology), XVIII, a 792
- —— marble (Rome), XX, a 826
- Libyans, race (Carthage), V, a b 140, a b 141; (Egypt), VII, b 634, a 677
- Libyan War (Hamilcar), XI, b 366
- Licara firsts, sulphur (Gunpowder), XI, b 289
- Licata, town (Alicata), I, a 506; (Sicily), XXII, b 36
- Lice. See LOUSE
- Liceaceæ, order (Protozoa), XIX, a 863
- License (Game Laws), X, b 56, a 57; (Gothenburg), a 752; (Liquor Laws), XIV, a b 694, a *b* 695, a 696; (Marriage), XV, *b* 573; (Newspapers), XVII, b 425–6; (Police), XIX, a 348; (Press Laws), b 729, a 730, a 731, a b 732, a 733; (Theatre), XXIII, b 245, a 246, a b 247; English begging (Poor Laws), XIX, b 477, b 479; granted by Patentees, XVIII, b 360–1; royal (Corporation), VI, a 384; (Raleigh), XX, a 274
- Licenses, revenue from (Taxation, U. S.), XXIII, b 924, *a* 925, a b 926
- *Licensing Act*, 1737 (Drama), VII, b 738; (Sunday), XXII, b 690
- Licetus of Genoa (Phrenology), XVIII, a 857, note
- Lichen, eruption (Skin Diseases), XXII, b 130; (Vaccination), XXIV, b 30, b 31, a 32, a 33
- ——, plant. See LICHENS
- Lichenacei (Lichens), XIV, a 556, b 564-5
- Lichenes (Fungus), IX, a 728, *a* 729, *b* 733, a 734; (Parasitism), XVIII, b 270
- Lichenin (Botany), IV, a 78; (Lichens), XIV, b 561, a b 562
- LICHENS, plants (Ill.), XIV, a 555–66
  - apothecia (Ill.), a b 557

- LICHENS, *continued*
  - chemistry of, b 561–2
  - classification of, b 563–5
  - distribution of, a b 566
  - economical uses of, b 562–3
  - external structure, a b 555
  - gonidia of (Ill.), a 559–61
  - habitats of, b 565–6
  - internal structure, b 555–7
  - nutrition and life, a b 561
  - origin of gonidia, b 559–61
  - pycnides (Ill.), a 559
  - reproductive system (Ill.), a 557–9
  - spermagones (Ill.), a 558–9

—

- —— (Acharius), I, a 89; (Archil), II, b 331–2; (Biology), III, a 599, b 600; (Botany) (Ill.), IV, b 75, a 78, b 96, *a* b 144, b 145, b 147; (Herbarium), XI, b 641; (Histology), XII, a 16, a 19; (Morphology), XVI, a 870; (Parasitism), XVIII, a b 273; (Reproduction), XX, b 435; (Vegetable Kingdom), XXIV, a 140
- LICHFIELD, city, XIV, b 566–7; (Stafford), XXII, b 459, a 460; Cathedral (Libraries), XIV, a 518, b 544
- ——, Thomas George Anson, earl of (Post-Office), XIX, b 583, a 584, note, a 585
- Lich-gate (Architecture), II, b 410
- "Lichtdruck" surface-printing (Photography), XVIII, a 846
- LICHTENBERG, principality, XIV, a 567
- LICHTENBERG, Georg Christoph, physicist, XIV, a 567; (Electricity), VIII, b 62
- Lichtenfels, station (Greenland), XI, b 152
- *Lichtenstein* (Hauff), XI, b 465
- Lichtenstein, M. H. K., naturalist (Ostrich), XVIII, b 66, note
- ——, Ulrich von, poet (Germany), X, a 470
- Lichtwer, Magnus Gottfried, fabulist (Germany), X, a 478
- Licinian laws (Land), XIV, b 261; (Prætor), XIX, a 675; (Roman Law), XX, a b 696, b 713; (Rome), a b 757. See Licinius Stolo
- —— Olive, XVII, b 783, a 785
- Licinio, Giovanni Antonio, painter (Pordenone), XIX, b 533
- LICINIUS, Publius Flavius Galerius Valerius Licinianus, emperor, XIV, a b 567; (Constantine I.), VI, b 266, a b 267
- —— Stolo, Caius, tribune (Agrarian Laws), I, a 258; (Nobility), XVII, b 539, a *b* 540; (Rome), XX, a 757
- —— Calvus, Caius, poet (Catullus), V, *a* b 217
- —— Macer, annalist (Livy), XIV, b 734, a 736
- —— Sura, Lucius (Trajan), XXIII, a 534, b 535
- Licinus, Porcius, author (Terence), XXIII, b 203
- Lick, James, philanthropist (San Francisco), XXI, b 277; (Telescope), XXIII, a 166 note
- —— Observatory, XVII, a 736; (San José), XXI, b 278; (Telescope) (Ill.), XXIII, b 155, b 165–6, note; (Telescopic Work), a b 934, *a b* 935
- Licker-in roller (Wool), XXIV, a b 693
- Licongue, gum (India-Rubber), XII, b 879
- Liddel, river (Roxburgh), XXI, a 39
- Liddell, Duncan, physician (Scotland), XXI, b 568
- Liddesdale, district (Roxburgh), XXI, *a* 40
- Lidner, Bengt, poet (Sweden), XXII, a 795
- Lie, Jonas, novelist (Norway), XVII, a 606
- Liebenau, Hermann and Theodore von, historians (Winkelried), XXIV, a 645, note, a 646
- Liebenerite (Mineralogy), XVI, a b 443
- Liebenthal, bathing place (Odessa), XVII, a 746
- LIEBER, Francis, publicist, XIV, b 567–8
- Lieberkühn, J. N. (Anatomy), I, a 714, *a* 715; (Microscope), XVI, b 282; glands of (Digestive Organs) (Ill.), VII, a b 197, a 198
- Lieberkuhnia, genus (Foraminifera) (Ill.), IX, a *b* 326, *a* 327
- Liebermann, chemist (Dyeing), VII, a 494
- LIEBIG, Justus, baron, chemist, XIV, a 568–71
  - biographical notes, a 568–9
  - chemical science, state of, a b 569
  - ether-alcohol controversy, b 569–70
  - organic chemistry, beginning of, b 569
  - radical theories, b 570–1
  - vegetation, chemistry of, a b 571
  - works of, b 571

—

- —— (Agriculture), I, b 309, a 310; (Chemistry), V, a 398, b 401, b 403, a 472; (Chloral), b 587; (Chloroform), a 591; (Dietetics), VII, a 174, b 175; (Fermentation), IX, *a* 83, a 84; (Gay-Lussac), X, a b 111; (Gelatin), b 118; (Gerhardt), *b* 398, a 399; (Guano), XI, a 207; (Manure), XV, a 513, a 515, a 516; (Mirror), XVI, a 524; (Potassium), XIX, b 608; (Prussic Acid), XX, b 26, *a* 27, a 28, *b* 29; (Sodium), XXII, a 255 note; (Uric Acid), XXIV, b 16; (Wöhler), *a b* 660, a 661; on Bacon's method III, a 187 note
- Liebigite (Mineralogy), XVI, a 416
- Liebig's condenser (Distillation), VII, a 227; cyanide (Prussic Acid), XX, a 28; method (Cobalt), VI, b 76
- Liebknecht, Wilhelm, economist (Socialism), XXII, a 226
- Liebler or Lieber, Thomas. See ERASTUS
- Liebmann, Frederik, botanist (Denmark), VII, b 81
- Liebreich, physician (Chloral), V, a 588, a 589
- Liechtenfels, count de (Alchemy), I, a 413
- LIECHTENSTEIN, principality, XIV, b 571–2
- —— collection (Terra-Cotta) (Ill.), XXIII, b 209, b 212
- *Lieder, Buch der*, Heine's (Germany), X, a 487; (Heine), XI, b 558, b 559
- —— *ohne Worte* (Mendelssohn), XVI, a 12
- Lief, Norse explorer (America), I, a 620; (Greenland), XI, a 153
- LIÉGE, city (Plan), XIV, a 572–3; (Libraries), a 531; (Zinc), XXIV, a 823; conquest of (Charles the Bold), V, b 367, a 368; University of, XXIII, a b 906; (Belgium), III, b 448–9
- —— basin (Coal), VI, b 52
- LIEGNITZ, town and duchy XIV, a 573; (Silesia), XXII, a b 58, a 59; battle of, 1241 (Silesia), b 57
- "Liégoise Labelle" (Théroigne de Méricourt), XXIII, a 314
- Liemba, lake (Africa), I, b 222, a 229
- LIEN, law-term, XIV, a b 573; (Agent), I, a 251; (Innkeepers), XIII, a 89; (Sale), XXI, b 218, b 219
- LIERRE, town, XIV, b 573
- Liesthal, town (Basel), III, a 353; (Switzerland), XXII b 816
- Lieutaud, Joseph, anatomist (Anatomy), I, a 714
- Lieutenant, officer (Navy), XVII, b 301, a *b* 303
- Lieutenant-governor (Bengal), III, b 487
- Lievrite (Mineralogy) (Ill.), XVI, a 374, a 428
- Life (Biology), III, b 587–602; (Distribution), VII, a 232–52; (Evolution), VIII, a 652–76; (Geology), X, a 256–8; (Longevity), XIV, a 868–70; (Physiology), XIX, a 71–2; (Protoplasm), a 850–2. See ANIMAL KINGDOM, VEGETABLE KINGDOM, ZOOLOGY, etc.
- ——, sign of Zodiac, XXIV, a 831
- ——, change of (Insanity), XIII, b 108
- ——, Distribution of, VII, a 232–52; (Geography), X, a b 189
- ——, duration of (Longevity), XIV, a 868–70; (Medical Jurisprudence), XV, b 788
- ——, dynamic influences of (Geology), X, a 256–8
- ——, human (Age), I, a b 249; (Anatomy), *b* 739; (Fire), IX, a 201; (Longevity), XIV, b 868–70; (Nutrition), XVII, a 686–706
- ——, theory of (Hunter, J.), XII, a b 406; (Sleep), XXII, a 166
- ——, primal, æon (Mandæans), XV, b 475, *a* 476, note
- —— annuities, II, a 68 *sq.*; (England), VIII, b 217
- —— assurance. See INSURANCE, LIFE
- Lifebelt (Lifeboat) (Ill.), XIV, a 575, b 576, b 577
- LIFEBOAT (Ill.), XIV, b 573–7
  - French society, a 577
  - German association, a 577
  - hammocks, life-saving, b 577
  - history, a 575–6
  - lifebelt (Ill.), a 575
  - necessity for, b 574–5
  - qualities required in, a 574–5
  - rocket apparatus, a b 576
  - United States service, b 576–7

—

- —— (Shipbuilding), XXI, b 864
- Life-buoy light (Phosphorus), XVIII, b 830
- Life-car (Lifeboat), XIV, b 576, a 577
- *Life Drama*, poem (Smith), XXII, *a* 182
- Life estates (Land), XIV, a b 265, b 270
- LIFE INSURANCE, XIII, a 169, a 175–90; (Annuities), II, b 77; (Post-Office), XIX, a b 590, b 593, note. See Insurance
- —— Peerage, XVIII, b 475, a b 477
- —— preservers (Lifeboat), XIV, b 577
- —— saving service, British, (Lifeboat), XIV, b 573–6; U. S. (Lifeboat), b 576–7
- Liffey river (Dublin), VII, b 427, *b* 428; (Kildare), XIV, *a* 74
- Lifford, town (Donegal), VII, *a* 314
- Lift Hammer (Ill.), XI, a 380
- Lifting machines (Mechanics), XV, a 782; piece (Clocks), VI, a b 23
- Lift pumps (Hydromechanics), XII, a b 565
- LIFTS (Ill.), XIV, b 577–80
  - accidents, a b 580
  - definitions, b 577
  - hydraulic power (Ill.), b 578–9
  - parts of structure, b 577–8
  - steam motor, b 580

—

- —— (Canal), IV, a 693; furnace (Iron), XIII, b 307–9; hydraulic (Hydromechanics) (Ill.), XII, b 550–1
- Lift valves (Steam-Engine), (Ill.), XXII, b 528
- Lifu island (Loyalty Islands), XV, *b* 32
- Ligaments (Anatomy), I, a b 731, a 746; (Horse), XII, a 182; peritoneal (Digestive Organs), VII, b 194, a 195
- Ligamentum denticulatum (Anatomy), I, a 760
- Ligan, goods lost (Flotsam), IX, a 300
- Ligature, history of (Surgery), XXII, b 707, b 709, b 710, *b* 711; modern (Surgery), b 723, a 726
- LIGHT (Ill.), XIV, a 581–619
  - color perceptions, b 582–3
  - divisions of subject, a b 581, a b 584
  - early history, b 581–2
  - GEOMETRICAL OPTICS (Ill.), a 584–608
    - abnormal dispersion, b 606–7

LIGHT, *continued*
- GEOMETRICAL OPTICS
  - absorption, a 605-7
  - apertures, passage through, b 585-6
  - combination of lenses, a b 599
  - composition of white light, a 594-5
  - corpuscular theory of refraction, a 596, a 603
  - cylindrical mirrors (Ill.), a 593-4
  - cylindrical refractors (Ill.), a 600-2
  - dispersion, prismatic, b 596-7
  - fluorescence, a 607-8
  - Foucault's velocity measurements, a b 589
  - halos, coronæ, etc., a 602
  - Hamilton's characteristic function, a 602-3
  - illumination, law of, b 586-7
  - images formed by lenses, b 598-9
  - lenses (Ill.), b 597-9
  - Maxwell's fish-eye problem, b 603-4
  - media, surface common to two homogeneous, a b 590
  - medium, refraction in non-homogeneous, a 602-5
  - mirage, b 604-5
  - phantom palisades, a 586
  - phosphorescence, b 607-8
  - photometry, b 587-8
  - plane surface reflection, a b 591
  - prisms, a 596-7
  - radiation, law of luminous, a b 587
  - rainbows, a 600-2
  - rectilinear propagation, b 584-7
  - reflection of, b 590-4
  - refraction (Ill.), a 594-605
  - shadows, b 584-6
  - spectra, a b 597, b 599
  - spectra, absorption, b 605-6
  - spherical surface reflection, b 591-3
  - spherical surface refraction, b 597
  - undulatory theory, b 603-5
  - velocity measurements, a 588-90
  - water refraction, a 595-6
  - propagation theories a 584
  - sources of, a 583-4
- UNDULATORY OR PHYSICAL THEORY (Ill.), a 608-19
  - Brewster's law, a 616
  - classes of waves, b 610-2
  - colors, b 613-4
  - crystals, uniaxal and biaxal, b 618
  - divisions of subject, a b 608
  - Döppler's principle, b 618-9

LIGHT, *continued*
- UNDULATORY OR PHYSICAL THEORY
  - double refraction, b 614-9
  - gratings, interference and complementary, a 612-3
  - homogeneous light, b 617-8
  - homogeneous rays, different, b 612-3
  - interference, b 610-2, a 616
  - isotropic homogeneous medium, a 608-12
  - nature of common light, b 616-7
  - Newton's rings, b 613-4
  - Nicol's prisms, a b 617-8
  - opposition to wave-theory, a b 610
  - polarization, a 615-8
  - reflection, wave theory of, a b 609
  - refraction, wave theory of, b 609-10
  - refractive index in wave-lengths, a b 614
  - stress refraction, b 618
  - thin plate experiments, a b 613, a 614
  - vibrations, transverse, b 615-7
  - wave-lengths, b 611-4
- vision, a 582-3
- See OPTICS, WAVE THEORY OF LIGHT and ZODIACAL LIGHT

—— (Aberration), I, a b 50; (Ether), VIII, a 502; (Eye) (Ill.), a 719-20; (Fresnel), IX, b 681; (Heat), XI, a 515; (Magnetism), XV, b 275-6; (Mineralogy), XVI, a 387, a 391; action of (Photography), XVIII, a b 848, a b 852-3
——, electric. See LIGHTING, ELECTRIC
——, god of (Mithras), XVI, a b 554
——, hot-house (Horticulture), XII, a b 219, b 225-6, a 253
——, incidence of, oblique (Wave Theory), XXIV, b 461
——, influence on plants (Horticulture), XII, b 216, a 217, a b 219; on plant movements (Physiology), XIX, a b 66, a 70
——, intensity of. See Intensity of Light
——, oscillation of (Mechanics), XV, b 719; penetration in water of (Ichthyology), XII, b 721
——, Phosphorescent, XVIII, b 825, b 827
——, plant energy (Physiology), XIX, b 53, b 62-3, a 65; plant evolution of (Physiology), b 63
——, radiant (Radiation), XX, *a* b 220, a 222-3; reflection and transmission of (Metals), XVI, a 69; refrangibility of (Newton), XVII, b 451-2
——, regulation of (Painting). XVIII, b 141; (Photography), a b 842
——, stellar absorption of (Sun), XXII, b 684-5
——, undulatory theory of (Ill.), XIV, a 608-19; (Arago), II, a b 266, a 267; (Wave Theory), XXIV, b 443-85
——, velocity of (Parallax), XVIII, b 250, a b 256; (Roemer), XX, b 635; (Wave Theory), XXIV, b 484-5
LIGHT, ZODIACAL, XXIV, a 835-7
——. See Lighting and Lights
"Light" (Mandæans), XV, *a* 476; (Manichæism), b 490-1, b 492
——, John's doctrine of (Gospels), X, a 737, b 742, a b 743; (John, Epistles of), XIII, a b 719
Light in malting (Brewing), IV, a 240
—— of Meteors, XVI, a 114, b 117
Light balls (Gunnery), XI, a 271
Lighter, bell- (Diving) (Ill.), VII, b 257
Lighterage (Charter-Party), V, a 375
LIGHTFOOT, John, theologian, XVII, a 619-20; (Ainsworth, Henry), I, a 379
——, Joseph Barber, bishop (Apostolic Fathers), II, b 171, a 173; (Colossians), VI, b 148-9; (Ephesians , VIII, *a* b 409, a 414; (Episcopacy), a 430, a 431, a 432; (Galatians), X, *a* 20; (Gospels), *a* 724, a 726, a b 729, a 732, a b 738 notes
Lightfoot's process, J. (Calico-Printing), IV, b 611, a 612; (Coal Tar Colors), XVIII, b 904
—— steel (Iron, Therapeutics of), XIII, b 370
LIGHTHOUSE (Plate VII) (Ill.), XIV, a 620-36
- beacons and buoys (Ill.), a b 632
- distinctions of lights, b 634
- distribution of lights, b 634-5
- floating lights (Ill.), b 635-6
- history of modern works, a 620-1
- illuminants, b 632-4
- illumination (Ill.), b 622-32
  - azimuthal condensing system, a 628-31
  - catoptric system, b 623-4
  - classes of towers, b 622-3
  - dioptric system, b 624-6
  - Fresnel's combinations, a b 625
  - holophotal system, a 626-8
  - Stevenson's improvements, b 625-6
- literature, b 636
- other apparatus, a b 636

LIGHTHOUSE, *continued*
- rules of construction, a b 622
- statistics of apparatus, a 634

—— administration, British (Trinity House), XXIII, b 611
—— Board, U. S. (Henry, J.), XI, a b 602
—— system (Brewster), IV, b 246; towers (Harbors and Docks), XI, b 411-2
Lighthouses (Boston), IV, a 66; (Egypt), VII, a 681; (Japan), XIII, a 590
Lighting (Building), IV, b 456; (Gas), X, a 79-93; (Hospital), XII, a 319; (Lamp), XIV, a 245-9; (Libraries), a 537; (Lighthouse), b 622-36; (London), a 835; (Theatre), XXIII, b 244; cars (Railway), XX, a 259, b 260; mines (Coal), VI, b 67; stables (Horse), XII, b 196. See Lights
LIGHTING, electric, XIV, a 637-40
- arc-lights, a 639-40
- continuous current machines, a 638-9
- dynamo machines, a 637-8
- general problem, a 637
- incandescent lamps, a 639
- measurements, a 640

—— (Electricity), VIII, a 5, b 55-6
Lightning (Aurora Polaris), III, a 81; (Thunderstorm), XXIII, a b 351; death from (Medical Jurisprudence), XV, b 791; divination by (Augurs), III, a b 64; Franklin's discoveries (Electricity), VIII, b 7; heat- (Meteorology), XVI, b 132; stage- (Theatre), XXIII, b 244-5
—— bones (Lhasa), XIV, a 497, note
LIGHTNING CONDUCTOR or Rod, XIV, a 640-1; (Frisi, P.), IX, a 691; (Guyton de Morveau), XI, b 307; (Lighthouse), XIV, a 636; marine (Harris, Sir W. S.), XI, b 441
"Lightning" expedition (Dredge), XII, a 399
Light of Nature Pursued (Tucker), XXIII, a b 641
Light Oils (Tar), b 63, a b 64
Lights, distinction of (Lighthouse), XIV, b 634, a 635; fixed (Lighthouse) (Ill.), b 622-3, a 624, a b 625, a 627, b 628, b 629, b 630, b 631, *b* 634; floating (Lighthouse) (Ill.), b 635-6; revolving (Lighthouse) (Ill.), b 622-3, a 624, a b 625, a 626, *a* 627, b 628, b 630, a b 631, *b* 634
——, rules for ship's (Navigation), XVII, b 285; steamer's side (Lighthouse) (Ill.), XIV, b 629-30
Lightships (Lighthouse), XIV, b 635-6
Ligia, genus (Crustacea) (Ill.), VI, b 567, *b* 571, *a* 572, b 573, note, b 574, b 580 note, b 582

Lign Aloes, I, b 525
Lignamine, Johannes Philippus de, chronicler (Typography), XXIII, a 724, b 731
Lignin (Physiology), XIX, b 50
Lignin-dynamite (Nitroglycerin), XVII, b 534
Lignite (Coal), VI, *b* 43, a b 44, a *b* 45, b 52, b 53, a 54, a b 55, b 56, a 57, a 62; (Fuel), IX, a 710; (Geology), X, a 213; (Germany), b 407; (Ireland), XIII, b 223; (Iron), a 299; (Jet), a b 683; (Mexico), XVI, a 909; (Mineralogy), b 448; (Mining), a b 490; (Switzerland), XXII, b 816
Lignitic series (Geology), X, a 319, a 324
Lignon du Nord, river (Loire), XIV, a b 816
Lignum vitæ, tree (Forests), IX, b 357; (Guaiacum), XI, b 204-5; (Joints), XIII, b 741
Ligny, battle of, 1815 (Napoleon), XVII, b 230; (Wellington), XXIV, *a* 525
Ligor, district (Malay Peninsula), XV, *a* b 325, note
Ligorio, Pirro, antiquary (Vesta), XXIV, a 211
Liguest, Laclede Pierre, pioneer (St. Louis), XXI, *a* 195
Ligula, genus (Tape-Worms), XXIII, a b 60
Ligulatæ, sub-class (Ferns), IX, b 89, b 94
Ligule (Botany) (Ill.), IV, a 102, b 103; (Grasses), XI, a 49
LIGUORI, LIGUORIANISM, XIV, a 641-6
  applied casuistry, b 644-6
  authority of his writings, a b 643
  biographical notes, b 641-2
  equivocation, b 644-5
  historical view of casuistry, a b 641
  literature, a 646
  personal character, a b 642
  probabilism, principles of, b 642-3, a 646
  sins, grading of, b 643-4
  theft, b 645-6

—— (Torture), XXIII, b 493
LIGURIA, district, XIV, a 646-7; (Italy), XIII, b 446, b 456, b 465; (Nice), XVII, b 494; acquisition of (Rome), XX, a 770, b 775
Ligurian Apennines, II, b 149; (Italy), XIII, b 446-7; dialect (Italy), *a b* 503; Queen Bee, III, b 428, a b 429, a 430; republic (Genoa), X, *a* 142; (Italy), XIII, *b* 495
Ligurians, race (Europe), VIII, *a* b 612; (Gaul), X, *b* 100; (Italy), XIII, *b* 455-6
Ligurinus, genus (Greenfinch), XI, a 148
Ligustrum, plant (Privet), XIX, b 784
Li Hung-chang, statesman (Tong-King), XXIII, b 470
Likeness, category (Psychology), XX, b 84-5

Lilac, color (Dyeing), VII, b 500
LILAC, plant, XIV, a 647; (Arboriculture), II, a 281; (Botany), IV, b 97, b 98, b 106
LILBURNE, John, sectary, XIV, a 647-8; (Pamphlets), XVIII, a 209
Liliaceæ, order (Botany), IV, a 79
Lilienfeld, P. von, economist (Political Economy), XIX, b 407
Lilienthal Observatory, XVII, a 733
Lilith, myth (Adam), I, b 127; (Demonology), VII, b 55
Lilium, genus (Lily), XIV, b 649
Lilius, Aloysius, physician (Calendar), IV, b 595, *a* 596, a 599
Lilja, Göran. See STIERNHELM
Liljegren, J. G., philologist (Scandinavian Languages), XXI, a 387 note, a 388, note
Lilla Lulea Elf or river (Sweden), XXII, a 774
LILLE, city, (Plan), XIV, a 648-9; (Nord), XVII, *a* b 548; University of, XXIII, a 907
LILLEBONNE, town, XIV, a 649
Lilliburlero, song (Purcell), XX, b 119; (Wharton, T.), XXIV, b 558
Lilljeborg, Wilhelm, naturalist (Ornithology), XVIII, a 38
Lillo, George, dramatist (Drama), VII, a 378, note
Lilly, John, author. See LYLY
LILLY, William, astrologer, XIV, a b 649; (Napier), XVII, a 187; (Witchcraft), XXIV, b 655
——, William, grammarian. See LILYE
LILY, plant, XIV, b 649-50; (Botany) (Ill.), IV, b 79, *a* 88, b 93, a 106, a 114, b 122, a 129, a 130, b 135, b 138; (Horticulture), XII, b 264-5; trumpet- (Botany), IV, b 108; of the Valley (Horticulture), XII, a 258; water- (Botany) (Ill.), IV, a 87, a 97, b 98, a 115, b 140
Lilybæum or Lilybaion, town (Marsala), XV, a 578; (Rome), XX, b 766; (Sicily), XXII, a 22, b 26, a b 27, *a* 28
LILYE or Lilly, William, Hellenist, XIV, a b 650; (Colet), VI, a 426; (English Literature), VIII, a 370; his *Latin Grammar* (Copyright), VI, a 321
LIMA, Ohio, town, XIV, a 652
LIMA, Peru, city (Plan), XIV, b 650-2; (Libraries), a 536, b 554; (Newspapers), XVII, a 449; (Peru), XVIII, b 687, b 689, b 690, b 691, b 692, a 693; captured by General San Martin (Argentine Republic), II, a 432; see of (Peru), XVIII, b 689
——, Antonio de, chamberlain (Camoens), IV, *a* 660

Limacidæ, family (Mollusca), XVI, b 684
Limacinidæ, family (Mollusca), XVI, b 689, b 690, a 691
Limaçon (Curve), VI, a 638
Limagne, district (Puy de Dôme), XX, *b* 125
Limans, sluices (Caspian Sea), V, b 154, b 155
Limasol, poet (Cyprus), VI, *a* 660
Li-ma-teu, missionary (Ricci), XX, b 551, note
Limax, genus (Mollusca) (Ill.), XVI, a 677, a b 686, a 688; (Snail), XXII, a 198
Limay river (Patagonia), XVIII, a 358
Limbang or Bruni river (Borneo), IV, b 50
Limber (Gunnery) (Ill.), XI, a 278
Limberg, province (Guelderland), XI, a 216
Limbird, John, publisher (Periodicals), XVIII, b 548, note
Limbomba mountains (Transvaal), XXIII, b 549, a b 550, a 551
LIMBORCH, Philip van, theologian, XIV, a 652; (Dogmatic), VII, a 297
Limbotto, state (Celebes), V, a 252
Limbs, Anatomy of, I, a 724-8; defective (Monster), XVI, a 791; development of (Skeleton), XXII, b 127; of Mammalia, XV, a b 350; anterior (Mammalia) (Ill.), a 361-2; posterior (Mammalia), b 362-3; of proboscidea (Mammalia), a 430; of Reptiles, XX, b 467-8, b 469-70; girdles of (Reptiles) (Ill.), *a* 466-7; paired (Skeleton), XXII, b 124-6. See Arm, Leg
LIMBURG or Limbourg, Belgium, province, XIV, a b 652
LIMBURG or Limbourg, Holland, province, XIV, b 652; (Holland), XII, *a* 65, a 66, *a* b 67, a 68, a b 69, a b 71, *a* 73, a *b* 76, a 87
LIMBURG, Prussia, town, XIV, b 652
—— diluvium (Holland), XII, *a* 65
Limburgite rock (Geology), X, b 210
LIMBUS, intermediate state, XIV, b 652-3; (Eschatology), VIII, b 472
LIME, XIV, b 653-5; (Agriculture), I, b 270, b 311-2, a 327; (Alcohol), b 415; (Bleaching), III, a 707; (Horticulture), XII, b 238; (Manure), XV, *a* b 513, *b* 515, *a b* 516, *a* b 517, b 518. See Limestone
——, blue lias (Building), IV, a 452
——, carbonate of. See Carbonate of lime
—— decomposition (Sainte-Claire Deville), XXI, a 175; fluxes (Iron), XIII, a 361; (Furnace) (Ill.), IX, b 741-2; lining for converters (Iron), XIII, b 355, note, b 356; mortar (Building), IV, *b* 408, b 409-10, b 411

—— phosphate. See Phosphate of lime
——, physiological sources of (Water), XXIV, a 421
——, precipitation (Sewerage), XXI, a b 747; purifier (Gas and Gas-Lighting) (Ill.), X, a 85-6; in refinery (Iron), XIII, a 328; salts (Oxalic Acid), XVIII, b 95; saponification (Candle), IV, b 708; slaking (Building), b 409-10
—— sulphate. See Sulphate of lime
—— super-phosphate (Agriculture), I, a b 310. See Phosphate
——, use of, forbidden (Bleaching), III, b 712
——, fruit (Lemon), XIV, a 438, *a* b 439-40; (Montserrat), XVI, b 823; juice of (Citric Acid), V, a b 694; (Dietetics), VII, b 180; (Gutta Percha), XI, a 302; (Italy), XIII, b 460; (Scurvy), XXI, b 599
LIME or LINDEN, tree, XIV, a 655; (Arboriculture), II, b 279, *b* 281; (Botany) (Ill.), IV, b 89, *b* 90, b 91, a 104, *a* 109, a 118, b 142; (Poland), XIX, a b 320; (United States), XXIII, a 860; wood of (Building), IV, b 435
Limenitis, Georgilas, poet (Greece), XI, a 134
LIMERICK, county, XIV, a 655-6
LIMERICK, city (Plan), XIV, a b 656; capitulation of 1691 (Ginckell), X, a 538; (Ireland), XIII, *b* 274
Limes Germaniæ, entrenchments (Trajan), XXIII, a 535
Limestone (Geology) (Ill.), X, a b 206-9, a b 213; (Mammoth Cave), XV, b 455; (Marble), *b* 535, *a b* 536, *a* 537; (Mineralogy), XVI, b 386, a 387, b 394; (Roads and Streets), XX, b 598-9; (Strength of Materials), XXII, b 634; calcination of (Iron), XIII, b 303
—— carboniferous series (Geology), X, a b 307-9, *a b* 310; (Foraminifera), IX, a *b* 339, *a b* 340, a 341; decomposition of (Geology) X, b 238; Laurentian (Geology), *b* 290; (Foraminifera) (Ill.), IX, b 336-8, a b 339; magnesian (Iron), XIII, a 303; Permian (Geology), X, b 311; (Missouri), XVI, b 548; in masonry (Building), IV, b 419-20; nodular Devonian (Geology), X, b 302; rotten (Mississippi), XVI, b 545, a 546; silurian (Geology), X, *b* 296, a b 297, b 298
Lime water, purifying (Water-Supply), XXIV, a 431
Limicola, genus (Annelida), II, *a* 62
Limicolæ, division of Worms, XXIV, *b* 712, *b* 714, b 715, a 716, a b 717, *b* 718
——, group of birds (Birds), III, a 632, a 633, a 663, a 670, a 671, *a* 672; (Ornithology), XVIII, b 35, note, a 38 note, a 46, a b 49, a 50;

Limicolæ, *continued* (Plover), XIX, a 240; (Ruff), XXI, b 60
LIMITATION, Statutes of, XIV, b 656–7
—— of indictment (Treason), XXIII, a 561
—— of the state (Government), XI, b 15–6
Limited liability Banks, III, b 283; Companies, VI, a b 198
Limited Partnership, XVIII, b 337
Limits of Religious Thought (Mansel), XV, a 505
Limits of variation in Weights and Measures, XXIV, b 508
Limmat, river (Zurich), XXIV, *b* 869
Limnæidæ, family (Mollusca), XVI, b 684; (Snail), XXII, b 197, a 198
Limnæus, pond-snail (Mollusca) (Ill.), XVI, b 659, a 660, b 684, a 685, a 686, a 687; (Trematoda), XXIII, b 571
Limnite (Mineralogy), XVI, a 404
Limnoria, insect (Harbors and Docks), XI, a 414; (Crustacea), VI, a 583
Limnos, island. See LEMNOS
Limoges, district (Turgot), XXIII, b 668
LIMOGES, city (Plan), XIV, b 657–8; (Enamel), VIII, b 168–9; (Fountain), IX, *a* 429; (Interdict), XIII, a 194; (Metal-Work), XVI, b 83; (Vienne), XXIV, b 241; siege of (Edward the Black Prince), VII, b 595; statuary (Sculpture), XXI, b 585, note
Limonite, mineral (Geology), X, a 204; (Mineralogy), XVI, b 385, a 386, a 398, b 403–4; ore (Iron), XIII, a 293; (New York), XVII, b 465; (United States), XXIII, a 867
Limonum, city (Poitiers), XIX, a 294
Limosa, genus (Birds), III, a 653, a 672; (Godwit), X, *a* 642
——, island (Mediterranean Sea), XV, b 829
Li-mou Shan, mountains (Hainan), XI, b 334
Limousin, Léonard, artist (Enamel), VIII, a 169
—— language (Provençal Language), XIX, a 893
—— mountains (France), IX, b 445
Limpet (Mollusca) (Ill.), XVI, b 668–71
Limpia mountains (Texas), XXIII, b 221, a 222
Limpkin, bird (Rail), XX, b 230
Limpopo or Crocodile River (Africa), I, b 224, b 226, a 228; (Transvaal), XXIII, *b* 549, *a* b 550, *a* b 551; (Tsetse Fly), b 639
Limulus, genus (Crustacea) (Ill.), VI, a b 584, b 585, *a* b 586
Limvuba river (Transvaal), XXIII, *a* 550
Limyrus river (Lycia), XV, b 94, a 95
Lina (Droz), VII, a 412
LINACRE, Thomas, physician, XIV, b 658–9; (English Literature), VIII, b 369; (Grocyn), XI, a b 183
Linant, Maurice Adolph, engineer (Egypt), VII, b 612, a 615, a 634, a 637, b 671
LINARES, town, XIV, b 659
——, José Maria, president (Bolivia), IV, b 17
Linaria, plant (Horticulture) XII, a 255, a 259
Linarite (Mineralogy) (Ill.), XVI, b 419
Lincei, at Rome (Academy), I, b 68
LINCOLN, county (Plate VIII), XIV, b 659–64
  administrative features, a b 662
  agriculture and climate, a b 661
  antiquities, b 662–3
  area and surface, b 659–60
  geology and minerals, b 660–1
  history, b 662
  traffic features, a 661–2
  water system, a 661
—— (Horse), XII, a 196; sheep (Agriculture), I, b 347; Wolds of (Agriculture), b 312
LINCOLN, city (Plan) XIV, a 663–4, note
  antiquities, a b 664
  cathedral, b 663–4
  history, a 664
—— Cathedral (Libraries), XIV, a 518. See Cathedral
—— College (Oxford), XVIII, b 100
—— diocese (Grosseteste), XI, b 187–8; (Hugh, St.), XII, *b* 350
LINCOLN, Illinois, city, XIV, b 664
LINCOLN, Nebraska, city, XIV, b 664–5; (Nebraska), XVII, *b* 318, a 319
——, Rhode Island, XX, a 539
——, lake (Africa), I, b 222
——, mount (America), I, a 592
LINCOLN, Abraham, president, XIV, a 665–9
  assassination, a 669
  as president, a 666–9
  birth and education, a b 665
  emancipation, b 666–7
  foreign policy, b 667–8
  Gettysburg oration, b 667
  peace conference, a b 668
  personal characteristics, a b 669
  reëlection, b 668
  slavery agitation, b 665–6
—— (Greeley), XI, a b 144; (Johnson, Andrew), XIII, *a* 730; (Republican Party), XX, *a b* 906; (Stanton), XXII, *b* 919; (Sumner), b 934; (Taylor, Z.), XXIII, b 928; (Thanksgiving Day), b 937; (United States), *a* 821, *b* 822, *a b* 823, a 825, a 826, a 828, a b 829; monument (Springfield), XXII, b 449
——, Benjamin, general (Georgia), X, a 394
——, John, earl of (England), VIII, *a* 295
——, Robert Todd, statesman (Lincoln), XIV, a 669
Lincoln's Inn (Inns of Court), XIII, b 93, *a* 94, b 96; (Libraries), XIV, a 516
Lincrusta Walton, wall cover (Linoleum), XIV, a 683
Lind, Jenny, Madame Otto Goldschmidt, singer (Manchester), XV, a 468; (Mendelssohn), XVI, *b* 12; (Meyerbeer), a b 231
Lindakerite (Mineralogy), XVI, a 416
LINDAU, town, XIV, b 669
Lindbladia, genus (Protozoa), XIX, a 863
Linde, Van der, orientalist (Chess), V, a b 520–1, b 521
Lindemann, mathematician (Squaring the Circle), XXII, a 454
Linden, town (Hanover), XI, *b* 399
LINDEN or lime, tree, XIV, a 655
Lindenau, Bernhard von, premier (Saxony), XXI, *b* 371
Lindenhof, mound (Zurich), XXIV, *a* 870
Linde's machine (Ice), XII, b 648–9
Lindia, animalcule (Rotifera) (Ill.), XXI, b 10, a b 12
Lindisfarne or HOLY ISLAND, XII, b 108; (Cuthbert), VI, *b* 646; (Ireland), XIII, a 255, b 261; (Northumberland), XVII, b 578, a 580, *b* 583, a 584
—— *Gospels* (English Bible), VIII, a 342; (Palæography) (Ill.), XVIII, b 162, a 163
Lindissi, district (Northumberland), XVII, a b 583
LINDLEY, John, botanist, XIV, b 669–70; (Botany), IV, *b* 71; his classification (Cabbage), a 549
——, Sir N., jurist (Partnership), XVIII, b 334 note, a 335, a 336
Lindner, E. O., philosopher (Schopenhauer), XXI, a 476, a 479
Lindocolina, town. See LINCOLN, England
Lind's Anemometer, II, b 23–4
Lindsay, A. W. C., lord (Astronomy), II, b 690; (Parallax), XVIII, b 252, a 253, b 254
—— of Balcarres, Sir John (Scotland), XXI, *a* 531
——, captain, adventurer (Persia), XVIII, a b 659
——, Sir David, poet. See Lyndsay
——, Robert Bertie, earl of (Lincoln), XIV, a 660
—— heliometer (Micrometer), XVI, b 264
—— -Gill Micrometer (Ill.), XVI, b 255
LINDSEY, Theophilus, theologian, XIV, a 670; (Unitarianism), XXIII, *b* 773
——, parts of (Lincoln), XIV, *a* b 662, a 663
Lindström, Dr. (Corals), VI, b 338, a b 340
Lindus, town (Rhodes), XX, a b 541
Line, axioms of (Geometry), X, b 334–5; equation of (Algebra), I, b 474; (Geometry), X, b 374–5
—— of collimation (Surveying), XXII, b 755
—— of flow (Hydromechanics), XII, b 463
—— of force (Electricity), VIII, a 23
—— Gunter's, XI, b 295
——, physical, defined (Knot), XIV, b 128
——, representation of a (Projection), XIX, b 822
——, segment of a (Geometry), X, a b 348
Linea alba (Anatomy), I, a 733
—— brachistochrona (Bernoulli), III, a 523. See Brachistochrone
Lineage, female (Mythology), XVII, a 149
Linear circuit in magnetic field (Electricity), VIII, a 64
—— congruence (Numbers), XVII, a b 632, b 633; (Surface), XXII, b 702, b 704, a b 705
—— diffusion (Heat), XI, a b 519
—— instruments (Surveying), XXII, a b 754
—— magnet, distribution in (Magnetism), XV, b 243
—— motion, equations of (Heat), XI, a 525
—— perspective (Projection), XIX, b 826
—— system of discrete masses (Wave), XXIV, b 439–40
—— transformation (Measurement), XV, b 672–3
—— velocity compared with angular (Mechanics), XV, a 699
Line blocks, making (Typography), XXIII, a 750
Line coördinates (Curve), VI, a b 635; (Geometry), X, a b 373
—— -fishing (Fisheries), IX, a 223–4, a 229. See ANGLING
—— integrals (Magnetism), XV, a b 234, b 236
Linen, bleaching of, III, b 712–3; Buttons, IV, a b 533; books (Livy), XIV, *b* 734, a 735; Damask, VI, *a* 698; (Flax), IX, b 256–7; Paper, XVIII, b 221; Egyptian (Textiles), XXIII, a 225
LINEN MANUFACTURES (Ill.), XIV, a 670–4
  bleaching, b 673
  early trade, b 670–1
  hecking (Ill.), a 671–2
  linen fabrics, a 674
  preparing, a b 672
  primitive implements, a 671
  spinning (Ill.), b 672–3
  trade and commerce, a b 674
  weaving, b 673–4
—— (Armagh), II, b 478; (Belfast), III, b 442–3; (Dundee), VII, a b 461, a 463; (Dunfermline), b

Linen, *continued*
  468; (England), VIII, b 210-1; (Fife), IX, a 133; (Forfar), b 362; (France), b 459; (Germany), X, b 412; (Ireland), XIII, b 235, a 236-7, b 275; (Kirkcaldy), XIV, b 98; (Laval), a 352; (Scotland), XXI, b 557-8
Lines, infinite number of (Geometry), X, b 365
——, luminous and double in spectra (Wave Theory), XXIV, a b 454, b 456-7, b 460
——, uneven in early books (Typography), XXIII, a 730
—— and planes in space (Geometry), X, b 343-5
—— of force (Magnetism) (Ill.), XV, a b 223, b 226, b 231-2, a 249; equipotential (Magnetism), b 231, a b 237
Lineus, genus (Nemertines), XVII, a 336, b 340
"L'infame," expression used by Voltaire, XXIV, a 312
LING, fish, XIV, b 674-5; (Fisheries), IX, *a b* 229
——, plant (Heath), XI, b 526-7
——, Per Henrik, gymnasticist (Sweden), XXII, b 795
Linga group (Indian Archipelago), XII, b 855, b 856
LINGARD, John, historian, XIV, a 675
Lingáyats, sect (Dhárwár), VII, b 126; (India), XII, a 799; (Madras), XV, *a* 186
Lingdan, Khan, ruler (Mongols), XVI, a 770
Ling Keang, river (China), V, b 553
Ling-nan, city (Hang-Chow-Foo), XI, b 393
Lingoa-Geral, language (Brazil), IV, a 211
Lingones, race (Umbria), XXIII, a 771
Lingua Franca (Dictionary), VII, b 161
—— illustre (Italy), XIII, b 510, a 513, b 524
Lingual dentition (Mollusca) (Ill.), XVI, b 701; ribbon (Mollusca), a 679
Linguals (Sanskrit), XXI, a 283
Linguet, Simon Nicholas Henri, editor (Beard), III, b 400; (Newspapers), XVII, a b 441
Linguistics or science of language (Philology), XVIII, a b 779
Lingula, genus (Brachiopoda) (Ill.), IV, b 170, a b 171, b 172, a 173, *b* 174, *a b* 175, b 176, *b* 177
—— flags (Geology), X, a 292
Lingulella (Brachiopoda), IV, b 176, b 177
Lingulidæ, family (Brachiopoda), IV, a 172, a b 176
Lingzi-tang plateau (Tibet), XXIII, a 360, a 361
Link in frames (Diagrams), VII, a b 130
—— in Mechanics, XV, b 770
Linkage (Steam-Engine), XXII, b 537
Link Joints (Ill.), XIII, b 742-3; -motion (Steam-Engine), XXII, b 525-6, b 923, a 924; -work (Mechanics), XV, a b 705, b 770-1
LINKOPING, city, XIV, a b 675; (Sweden), XXII, a b 776-7, b 783
Links, sands (Aberdeen), I, b 45
Linley, Thomas, composer (Mozart), XVII, a 15; (Sheridan), XXI, b 834, a 835
LINLITHGOW or West Lothian, county, XIV, b 675-7
—— Loch, XIV, b 675; (Lake), *a* 221; hatchery (Salmonidæ), XXI, b 237. See Lothian
LINLITHGOW, town, XIV, a b 677
Linnæite, mineral (Cobalt), VI, a 76; (Mineralogy) (Ill.), XVI, a 407
LINNÆUS, Carolus, botanist, XIV, b 677-81
  education, a b 678
  explorations in Lapland, a 679
  family of, b 680 note
  last years in Sweden, a b 680
  Lund, life at, a b 678
  Netherland life, b 679-80
  personal characteristics, b 680-1
  Upsala, life at, b 678, a b 680
—— (Amphibia), I, b 657; (Animal Kingdom), II, a 45; (Ape), a 130; (Artedi), a 562; (Arthropoda), a 566; (Botany), IV, b 70, b 72; (Butterflies and Moths), b 529; (Cæsalpinus), a *b* 562; (Cocoa), VI, b 92; (Crystallography), a 595; (Edwards, G.), VII, a 597; (Grasses), XI, a 48; (Herbarium), b 639; (Hasselquist), b 456; (Humming-Bird), XII, b 371; (Ichthyology), a b 668; (Insectivorous Plants), XIII, b 142, b 144, b 145; (Insects), a 154; (Lantern-Fly), XIV, a 291; (Leech), b 405; (Mollusca), XVI, a 654; (Morphology), b 864-5, a 868; (Ornithology), XVIII, b 8-9; (Parasitism), a 262; (Pearl), a 459; (Pratincole), XIX, a 680 note; (Reptiles), XX, b 444-5, b 446; (Species), XXII, a 386; (Tern), XXIII, a 206 note; (Thermometer), a 309; (Turnstone), b 710 note; (Variation and Selection), XXIV, a 83; his classification (Zoology), b 839, b 842, a b 843-5; *Life of* (Afzelius), I, a 244
——, Carl, the younger, naturalist, XIV, b 680, note
Linnæan Society, London (Gray, J. E.), XI, a 69; (Royal Society), XXI, b 44; (Societies), XXII, b 233
LINNELL, John, painter, XIV, a b 681; (Palmer), XVIII, a 197
LINNET, bird, XIV, b 681-2; Green (Greenfinch), XI, a 148
Linnhe, Loch (Scotland), XXI, a 545
Linoleic acid (Linseed), XIV, b 683; (Oils), XVII, b 760, *b* 761
LINOLEUM, floor-cloth, XIV, a 682-3; (Cork), VI, a 357; (Floor Cloth), IX, a 289; (Kirkcaldy), XIV, b 98
Linota, genus (Linnet), XIV, b 681, *a* 682
Linoxein, fabric (Floor Cloth), IX, a 289
Linschoten, Jan Hugen van, traveller (Geography), X, b 166
LINSEED, XIV, a 683-4; (Agriculture), I, b 337, a 338; -cake (Adulteration), b 158; (Oil-Cake), XVII, b 759, a 760; Oil, b 760, a b 761, a 765, a b 766, a 767; (Varnish), XXIV, b 99; oxidation of (Linoleum), XIV, a b 682; tea (Veterinary Science), XXIV, b 217
Lint, plant. See Linum
Lintels (Building), IV, a 416; stone- (Arch), II, a b 286
Linth river (Glarus), X, a b 567; (Switzerland), XXII, *a* 815
Lintot Society (Friendly Societies), IX, b 685-6
Lin-tsing Chow, town (China), V, a 549
Lin-tsze, city (Tse-nan Foo), XXIII, a 639
Linum, flax-plant (Botany), IV, a 122, a 129, a 135, a 136, b 139; (Flax), IX, a 256; (Horticulture), XII, a 255, a 259
LINUS, hero, XIV, a b 684; Song of (Greece), XI, *a* 122
LINUS, saint, XIV, b 684
LINZ, city (Plan), XIV, b 684-5
LION, mammal (Ill.), XIV, b 685-8
  character, a b 688
  external variations, a b 686
  family life, b 687-8
  geographical range, b 685-6
  habits, a b 687
  internal structure, a 687
—— (Fur), IX, b 735, b 736; (Hunting), XII, b 408; (India), a 779; (Mesopotamia), XVI, a 55; (Tiger), XXIII, a 412; color of (Mimicry), XVI, b 355
—— in Heraldry (Ill.), XI, *a* b 609, *a* 610, a 613, b 622-3
—— dollar, coin (Roumania), XXI, a 23 note
Lionel, Duke of Clarence (York), XXIV, *b* 789, *a* 790
Lion-gate (Mycenæ), XVII, a 122
Lions, marble, from Athens (Venice), XXIV, b 168, note
Lion's Tail, sign of Zodiac, XXIV, a 833
Lionne, Hugues de, Marquis de Berny, diplomat (France), IX, b 505, a 506, b 507; (Mazarin), XV, b 659, *a* 660
Lionville, Joseph, mathematician (Infinitesimal Calculus), XIII, b 52
Lipâd, rue plant (Afghânistân), I, b 208
Lipadosa, island (Lampedusa), XIV, a 250
Lipalule, river (Transvaal), XXIII, b 549, *a* b 550, *a* 551
Lipara, island (Numismatics), XVII, a 656
LIPARI ISLANDS, XIV, b 688-9; (Æoliæ Insulæ), I, a 165; (Italy), XIII, a 450; (Sicily), XXII, a 36
Liparis, genus (Lump-Sucker), XV, b 66
Liparit Orboulk, chief (Georgia, Kingdom), X, a b 388
Liparite, rock (Geology), X, b 208-9
Lipenius, Martin, Bibliographer, III, b 571
LIPETSK, town, XIV, a b 689; (Tamboff), XXIII, b 45, a 46; battle of, 1215 (Russia), XXI, b 98
Lipetz, drink (Honey), XII, a 141
Lip-fish (Wrasse), XXIV, b 721
Liphistius, genus (Arachnida), II, a 255, *b* 256
Lipini monti (Italy), XIII, a 418
Lipno, district (Plock), XIX, b 238, a 239
Lipoa, genus (Megapode), XV, b 836
Lipocephala, branch (Mollusca), XVI, b 655, a 662, a 710-2
Lipogastrosis, condition (Sponges), XXII, *b* 431
Lipoma, tumor (Pathology), XVIII, a b 398
Lipostoma, genus (Protozoa), XIX, b 860
Lipostomosis, condition (Sponges), XXII, b 431
LIPPE, territory, XIV, b 689-90; river (Prussia), XX, a 25; (Rhine), a 534; (Westphalia), XXIV, a *b* 545
Lippemüde, town. See WESEL
Lippershey, Hans, optician (Galileo), X, b 29; (Telescope), XXIII, a b 147, a 151
LIPPI, Filippino, painter, XIV, a b 691; (Fresco), IX, *a* 679; (Glass), X, a 598; (Masaccio), XV, *a b* 612; (Schools of Painting), XXI, b 452, a 462
LIPPI, Fra, Filippo, painter, XIV, a 690-1; (Botticelli), IV, b 150; (Diamante), VII, *a* 140; (Schools of Painting) (Ill.), XXI, b 452, a 462, a *b* 467
LIPPI, Lorenzo, painter, XIV, b 691; (Rosa), XX, *a* 870
Lippmann, physicist (Capillary Action), V, a 59; his apparatus (Electrolysis), VIII, b 102-3
Lips (Anatomy), I, a 734; (Manatee), XV, b 463, b 464-5
Lipscombe Filters, IX, a 147; cistern filter, a 149
LIPSIUS, Justus, humanist, XIV, b 691-2; (Church History), V, a 665; (Gnosticism), X, b 625, a 626, b 628; (Latin), XIV, a 343; (Scaliger), XXI, b 379, a 380

Lipsius, Richard Adelbert, theologian (Peter), XVIII, b 709 note
Liptau, mountains (Carpathian Mountains), V, a 112
Liquation (Alloy), I, a 518; (Metals), XVI, a 73
Liqueuring Champagnes (Wine), XXIV, a 638
LIQUEURS, XIV, b 692-3; (Chartreuse), V, a 377
Liquid films, tension of (Capillary Action), V, *b* 52, b 53-6, b 59-62
—— manure (Horticulture), XII, b 238; (Manure), XV, a 517-8
—— thermometers (Heat), XI, b 500-8
—— transmitter (Telephone) (Ill.), XXIII, a b 142
LIQUIDAMBAR or Sweet Gum, tree, XIV, b 693-4; (Balsam), III, a 253; (Java), XIII, a 613
Liquidated Damages, VI, a 694
Liquidation (Company), VI, a 198; private, in Bankruptcy, III, a 296
Liquids, defined (Constitution of Bodies), VI, a 277; (Hydromechanics), XII, a b 435, b 478-9; (Acoustics), I, b 97-8, a 108; (Elasticity), VII, a 692, a 695; analysis of (Chemistry, Organic), V, a 473; contact force in (Electricity), VIII, b 79-81; differential action (Magnetism), XV, a b 266; Diffusion of, VII, a 188-9; (Graham, T.), XI, b 30; (Molecule), XVI, a 646; expansion of (Heat), XI, b 521; friction of (Hydromechanics), XII, a 506-8; gravitation and tension of (Wave), XXIV, b 440-2; index of refraction (Optics), XVII, b 824-5; instability of jet of (Capillary Action), V, b 61; stability of plane surfaces (Capillary Action), V, a b 62; steam pressures of (Heat), XI, 522; surface tension of (Capillary Action), V, a b 51, *b* 52, b 53, a 56-7, b 58-9; tables of surface tensions of (Capillary Action), b 63; testing of (Magnetism), XV, b 264; weight of (Mechanics), b 783
——, letters (Hieroglyphics), XI, a 713-4; Aryan (Philology), XVIII, b 801; Dutch (Holland), XII, b 90-1
Liquor fortissimus (Nitrogen), XVII, b 529
LIQUORICE, XIV, a 694; (Italy), XIII, a 460; (Mesopotamia), XVI, a 55
LIQUOR LAWS, XIV, a 694; -6; (Government), XI, a 19; (Maine), XV, a 302; (Sunday), XXII, b 690-1; (West Virginia), XXIV, b 547
Liquor potassæ (Corpulence), VI, a 386
Liquors (Alcohol), I, a b 416; (Austria), III, b 105; (Adulteration), I, b 152, b 156-8, b 159; (Taxation), XXIII, a b 92; (Taxation, U. S.), b 924
Liquor sanguinis (Respiration) (Ill.), XX, b 496, a b 497
Lira, river (Italy), XIII, b 445
Liris river, battle of the, 280 B.C. (Rome), XX, b 762. See Garigliano
Liroconite (Mineralogy), XVI, a 424
Lisân, peninsula (Dead Sea), VII, b 3
LISBON, city (Plan), XIV, b 696-9
  administration, b 698
  architectural works, a 697-8
  climate, a 699
  galleries and cemeteries, a 698
  history, a b 699
  site of, b 696-7
  traffic, a b 698
  water-supply, b 698
—— (Academy), I, b 71; (Libraries), XIV, a 532, b 551; (London), XIV, b 829; (Portugal), XIX, *b* 551, *a* 552, *a b* 554, *a* 555, a 556, a 561; (Yellow Fever), XXIV, *a* 772; bay of (Tagus), XXIII, a 27; district (Wine), XXIV, b 641; earthquake, 1755 (Geology), X, a 227; lazaretto (Quarantine), XX, a 160; (Observatory), XVII, a 734; (Meteorology), XVI, b 179-81, a 184
LISBURN, town, XIV, b 699; (Antrim), II, *a b* 126
Liscannor bay (Clare), V, a b 701
Liscow or Liscov, Christian Ludwig, satirist (Germany), X, b 477
Lisdoonvarna, town (Clare), V, a b 701
LISIEUX, town, XIV, b 699-700
Liske, Xavier, historian (Poland), XIX, a 317
LISKEARD, town, XIV, a 700
Lisle, barony of (Peerage), XVIII, b 475
——, Guillaume de, astronomer (Geography), X, a 168; (Time), XXIII, a 421
——, John Dudley, viscount (Scotland), XXI, b 521
——, John Talbot, viscount (Talbot), XXIII, *a* 31
LISLE, Joseph Nicolas de, astronomer, XIV, a 700
——, Leconte de, poet (France), IX, b 595
——, Louis de, astronomer (Thermometer), XXIII, a 309
——, Rouget de, poet. See ROUGET DE LISLE
LISMORE, island, XIV, a b 700
LISMORE, town, XIV, a 700-1; (Waterford), XXIV, *b* 422, *a* 423; monastery (Ireland), XIII, b 256
Lismore's Book, Dean of (Celtic Literature), V, a b 272, b 282, a 284
Liso tribes (Tibet), XXIII, a 365
LISSA, Austria, island and town, XIV, a 701; battle of, 1866 (Italy), XIII, a 501; (War), XXIV, b 386
LISSA, Posen, town XIV, a 701
Lissajoux's tuning-forks (Mechanics), XV, b 719
Lissoflagellata, genus (Protozoa), XIX, b 880-3
List, Friedrich, economist (Political Economy), XIX, b 397, b 402-3; (Protection), a 939, a 941
Lista, Alberto, critic (Spain), XXII, b 375
Lister, Sir Joseph, surgeon (Antiseptics), II, a 120; (Fermentation), IX, b 85; (Schizomycetes), XXI, b 416, *a* 417, b 423, a b 425, note; his wound-treatment (Surgery), XXII, b 712-4
——, Joseph Jackson, microscopist (Microscope), XVI, a b 273, notes
——, Sir Matthew, physician (Rhubarb), XX, a 545
——, S C., manufacturer (Bradford), IV, b 178, a 179; (Wool), XXIV, b 695; his processes (Silk), XXII, b 69-70
Listing, mathematician (Knot), XIV, b 128
List of Absentees (Ireland), XIII, b 234, b 248
LISTON, John, comedian, XIV, a b 701
LISTON, Robert, surgeon, XIV, b 701; (Syme), XXII, a b 849
List-shops (Betting), III, a 535
Listvenichnaya, town (Transbaikalia), XXIII, a 543
Lisuarte of England, king (Romance), XX, *a b* 671
Lisuarte of Greece (Romance), XX, b 671-2
Liszt, Franz, Abbé, composer (Chopin), V, b 596; (Raff), XX, *a* b 226; (Wagner), XXIV, b 334, *a* 335, a 337; (Weimar), b 519
Lita or Litáni river (Lebanon), XIV, b 392, a 393, a 394; (Syria), XXII, b 860
Litang plateau (Tibet), XXIII, b 362
Litang, town (Tibet), XXIII, b 363
LITANY, prayers, XIV, b 701-2; (England, Church of), VIII, b 339; musical (Tallis), XXIII, b 38-9
—— river. See Lita
Litchfield Observatory, Hamilton College, N. Y., XVII, a 736
Literary forgery (Jesuits), XIII, b 660-1; (Richard of Cirencester), XX, b 557-8. See Forgery, literary
"Literary fund" (New Hampshire), XVII, a b 402; language (Italy), XIII, a 507-8; Philology, XVIII, b 778-80; schools (Germany), X, b 476-7; (Societies), XXII, b 239-40. See Academy; early (Germany), X, b 474
Literaturbladet, periodical (Geijer), X, a 116
Literaturbriefe (Lessing), XIV, a 480
Literature (Ethnography), VIII, a 546-7; (Philology), XVIII, b 778-9
——, Afghan, I, b 213-4
LITERATURE, AMERICAN, I, b 630-44; (Irving, W.), XIII, a 383-4; (United States), XXIII, b 801, a 814
——, Arabic (Arabia), II, a 230-2; (Hindustani Literature), XI, b 755; (Ibn Khaldoun), XII, b 644; (Mo'allakát), XVI, b 559-63; (Mohammedanism), a 617-28; (Tabarí), XXIII, b 6-9
LITERATURE, ARAMAIC, II, b 269-70
——, Babylonian, III, b 165-6; (Pottery and Porcelain), XVIII, a 622-3
——, Battak (Sumatra), XXII, a 674 note
——, Bonpa (Tibet), XXIII, a b 366
——, Brazilian, IV, b 214; (Dias), VII, a 146
——, Byzantine, IV, a 546; (Greece), XI, b 106, b 129-31
——, Calmuck, IV, a 629
LITERATURE, CELTIC, V, a 258-85
——, Ceylonese, V, b 318
——, Chinese, V, b 233-4, a 573-80; (Drama), VII, a b 346, b 347-8
——, Columbian, VI, a 140, a b 141
——, Coptic, VI, a 315. See Literature, Egyptian
——, Corean, VI, b 348
——, Czech or Bohemian, III, a b 748; (Slavs), XXII, a 160-3
LITERATURE, DANISH (Denmark), VII, b 78-82; (Baggesen), III, a 199; (Grundtvig), XI, b 199-200; (Holberg), XII, 58-9; (Kierkegaard), XIV, a 74; (Pontoppidan), XIX, a 473
——, Druse, VII, b 419
LITERATURE, DUTCH (Holland), XII, a 93-101; (Hooft), a b 150; (Huygens), a 433
——, ecclesiastical (Church History), V, b 667-70
——, Egyptian, VII, b 625; (Hieroglyphics), XI, a 723; modern, VII, a b 629
LITERATURE, ENGLISH, VIII, a 360-87; (De Quincey), VII, b 89-91; (Drama), a b 379; (Hooker), XII, b 154-6; (Johnson, S.), XIII, b 731-40; (Milton), XVI, b 350-1; (Scott), XXI, b 572-6; (Shakespeare), b 792-807; patronage of (Pitt), XIX, b 151-2. See ENGLISH LITERATURE and names of authors
——, Esthonian, VIII, b 496
——, Ethiopic, VIII, b 538-9
——, Etruscan, VIII, b 559
——, Finnish (Finland), IX, a 191-2
——, Flemish (Holland), XII, b 101
LITERATURE, FRENCH, IX, a 561-600; (France), a 503, b 505, a 507, b 521-3; (Dudevant), VII, a 439-41; (Dumas), a 450-1; (La Fontaine), XIV, a 206-7; (Lamartine), b 234-5; (Richelieu), XX, a b 359; (Ronsard), b 863-5; (Rous-

LITERATURE, FRENCH, *continued* seau), XXI, a 33; (Sévigné), a 739-40; (Voltaire), XXIV, b 312-4. See FRENCH LITERATURE and names of authors

——, GAELIC, X, b 9-13

LITERATURE, GERMAN, X, a 467-88; (Drama), VII, b 330-2; (Goethe), X, a 645-56; (Herder), XI, b 650-2; (Lessing), XIV, a 479-82; (Schiller), XXI, b 412-5. See German Literature

——, Gothic, X, b 756, a b 757

LITERATURE, HINDUSTANI, XI, a 753-9; (Drama), VII, b 343-4, b 345-6; (India), XII, b 813, a b 815

——, Irish, XIII, a b 256. See CELTIC LITERATURE

LITERATURE, HEBREW, XI, a 534-7; (Bible), III, a 549, b 551; (Israel), XIII, a b 418; (Job), a b 709, a b 713-4; mediæval (Israel), a 439; modern (Jews), a 691, a b 692, *b* 696, b 698

——, GREEK, XI, b 121-36; (Alexandrian School), I, a 440-1; (Homer), XII, a 113-23; (Satire), XXI, a b 333, a 334; Jewish (Septuagint), XXI, b 699-702. See GREEK LITERATURE, Greek Drama, Greek Historians and names of authors

LITERATURE, HUNGARIAN, XII, a 390-6; (Kölcsey), XIV, a 138. See Hungarian Literature

LITERATURE, ICELANDIC, XII, 654, a 657-63; (Edda), VII, b 563-5

——, Japanese, XIII, b 596-8

LITERATURE, ITALIAN, XIII, a 509-26; (Dante), VI, a 716-7; (Leopardi), XIV, b 464-6; (Manzoni), XV, a b 522; (Politian), XIX, a 359; (Siena), XXII, b 48-9; (Tiraboschi), XXIII, a 434

——, Kanuri (Bornu), IV, b 54

——, Latin. See ROMAN LITERATURE

——, Lithuanian, XIV, *a* 709

——, Malay, XV, b 328-9

——, mediæval European (Isidorus), XIII, a 397; (Italy), a 509 16; (Romance), XX, b 653-78

——, Mongol, XVI, b 777

——, Nepalese, XVII, a 353

LITERATURE, Norwegian, XVII, b 603-6

——, Oriental (Hammer-Purgstall), XI, b 381-2. See Arabic, Pali, Persian, etc.

LITERATURE, PAHLAVI, XVIII, b 140

LITERATURE, PALI, XVIII, b 188-90

LITERATURE, PERSIAN, XVIII, a 668-73; (Hafiz), XI, a 328-9; (Hindustani Literature), XI, a 758; (Rúdagí), XXI, a b 55; (Sa'di), b 150 1

——, Peruvian, XVIII, b 688 9, b 692 3

LITERATURE, POLISH, XIX, b 310-7

LITERATURE, PORTUGUESE, XIX, a 570-4

LITERATURE, PROVENCAL, XIX, a 897-902

—— of the Renaissance, XX, a 395-7, a 400-1, a b 403, a 404-5

LITERATURE, ROMAN, XX, a 735-46; (Latin), XIV, b 329-43. See ROMAN LITERATURE

——, Romani (Gipsies), X, a b 549

LITERATURE, RUSSIAN, XXI, a 111-8; (Hertzen), XI, a b 691; (Karamzin), XIV, a b 5; (Poushkin), XIX, a 668-9

——, Samaritan, XXII, a b 528

LITERATURE, SANSKRIT, XXI, a 286-309

LITERATURE, SCOTTISH, XXI, b 565-8; (Edinburgh), VII, a b 574

LITERATURE, SERVIAN, XXI, a 722-4

LITERATURE, SLAVONIC, XXII, a 159-64

LITERATURE, SPANISH, XXII, a 367-79; (Cervantes), V, a 305-9; (Duran), VII, b 476; (Iriarte), XIII, a b 397; (Vega Carpio), XXIV, a 132-6

LITERATURE, SWEDISH, XXII, b 791-6

LITERATURE, SWISS, XXII, a b 831, a 835-8

LITERATURE, SYRIAC, XXII, a 863-901

LITERATURE, TURKISH, XXIII, b 697-9, a 704

Literature of Europe (Hallam), XI, a 351, a 352

—— *of Political Economy* (M'Culloch), XV, a 136

Lithamœba discus, species (Protozoa) (Ill.), XIX, b 864

Litharge, oxide of lead (Chemistry), V, b 460; (Coal), VI, a 75; (Lead), XIV, a 375, b 376, *b* 377; (Metallurgy), XVI, a 66-7

Litherland, watchmaker (Liverpool), XIV, b 721-2

LITHGOW, William, traveller, XIV, b 702-3; (Torture), XXIII, b 493; (Whirlpool), XXIV, b 571

Lithia. See LITHIUM

Lithiophilite (Mineralogy), XVI, b 420

Lithistida, class (Sponges) (Ill.), XXII, *b* 432, *a* b 433, b 434, a 437, *a b* 438, b 440, *a b* 444, a 445

LITHIUM, metal, XIV, a b 703; (Chemistry), V, b 454-5; (Mineral Waters), XVI, b 455-6; carbonate (Gout), XI, a 9

Lithobius, genus (Myriapoda), XVII, b 123-4, b 126, a 127

Lithocyst (Actinozoa), I, b 121, *a* 122

Lithofracteur, explosive (Blasting), III, *b* 702

Lithographic Crayons, VI, a 492; printing (Typography), XXIII, a 742; stone (France), IX, b 461; (Mineralogy), XVI, a 414

Lithographs (Copyright), VI, b 319

LITHOGRAPHY, XIV, b 703-7
  artistic uses of, a b 707
  chromatic work, a 706

LITHOGRAPHY, *continued*
  discovery, b 703-4
  materials and appliances, a b 704
  methods of drawing, b 704-5
  photo-lithography, b 705
  printing, a 706-7
  transfer process, a b 705
  zincography, b 705

—— (Charlet), V, a 372; charting (Surveying), XXII, a b 752, b 753; in India (Hindustani Literature), XI, a 759

Litholapaxy, operation (Vesical Diseases), XXIV, a b 206

Lithological characters of strata (Geology), X, b 262

Litholophida (Protozoa), XIX, b 874

Lithomarge (Mineralogy), XVI, b 442

Lithospermum, plant (Horticulture), XII, a 259

Lithotomy, operation (Vesical Diseases), XXIV, b 205-6; history of (Surgery), XXII, *a* 707, *b* 708, *a* b 709, b 710, a 711

Lithotrity, operation (Vesical Diseases), XXIV, a b 206; history of (Surgery), XXII, a 709, a b 711

Lithoxylon, opal (Mineralogy), XVI, a 406

Lithuania, province (Bible Societies), III, a 562; (Teutonic Order), XXIII, b 218; annexation of (Poland), XIX, b 300-1, a b 303; revolt of (Poland), b 302

Lithuanian Dictionaries, VII, a 163; language (Slavs), XXII, a 157

LITHUANIANS, people, XIV, b 707-9; (Poland), XIX, b 320; (Russia), XXI, a 87, a b 88, a 89; (Semitic Languages), b 675; (Slavs), XXII, a 157

Lithwinsk (Coal), VI, a 55

Liti or lazzi, freedmen (Germany), X, b 425; (Saxony), XXI, a 367

Litigation, conditions of (Women), XXIV, a b 675, a 677; pending (Contempt of Court), VI, b 283

Litis contestatio, process (Roman Law), XX, a 699, a 700, b 730; denuntiatio, process (Roman Law), a 730

LITMUS, reagent, XIV, a b 709; (Lichens), a 563; blue (Dyeing), VII, b 499

Litra, Sicilian coin (Numismatics), XVII, a 654

Litre, measure (France), IX, b 464; (Weights and Measures), XXIV, b 507, b 517

Littera Sancti Petri (Palæography), XVIII, a 160

Littérature dramatique, Cours de (Girardin, X. S. M.), b 554

——, *Eléments de* (Marmontel), XV, a 566

—— *Française, Cours de la* (Villemain), XXIV, a 249

Little Caucasus, V, b 219

—— Cottonwood mines (United States), XXIII, a 868

Little Dorrit (Dickens), VII, a 153

"Little Ease" cell (Torture), XXIII, b 494

LITTLE FALLS, village, XIV, b 709

Little Genesis (Apocalyptic Literature), II, a 155

Little Go Act, 1802 (Lotteries), XV, a 13

Littlehampton, town (Sussex), XXII, a b 761, a 763

Little Java, island (Bali), III, a b 243

—— Miami, river (Pearl), XVIII, a 459

—— Ouse, river (Thetford), XXIII, *b* 320

"—— parliament" (Cromwell), VI, b 532

Little Passion (Dürer), VII, b 481

—— Peconic Bay (Long Island), XIV, a 876

LITTLE ROCK, city, XIV, b 709

—— Russian literature (Russia), XXI, a b 118

—— Russians, people (Slavs), XXII, a 153

—— Sisters of the Poor (Monachism), XVI, b 740, a 743

LITTLETON, Thomas de, jurist, XIV, b 709-11

Little Tour in Ireland (Leech), XIV, b 406

Little Venice (Arendal), II, a 424

——, Walachia (Vlachs), XXIV, b 289

Littorale, district (Hungary), XII, b 375, a 377

Littoral deposits (Geology), X, a b 255; Sharks (Ill.), XXI, a 811-2

Littorina, periwinkle (Mollusca) (Ill.), XVI, a b 673, b 675

LITTRÉ, Paul Maximilien Émile, lexicographer, XIV, b 711-2; (Comte), VI, a 207, b 209; his Dictionary, VII, a 156, a 157

Lituola, genus (Foraminifera) (Ill.), IX, a *b* 329, a 339; (Protozoa), XIX, a 860

Lituolidea, order (Protozoa) (Ill.), XIX, b 869-70

Liturgia Gallicana (Lection), XIV, b 398

Liturgical mysteries (Drama), VII, b 357; psalter (Messiah), XVI, b 58; works (Luther), XV, a 79

——, taxes (Finance), IX, a 151

LITURGY, XIV, b 712-8
  Ambrosian, a 714
  American Episcopal, b 717
  Anglican, mediæval, a 715-6
  Celtic church, b 714-5
  Eastern groups, b 612-3
  European continent, Protestant, a 718
  Gallican, b 713-4
  Irish Prayer Book, b 717
  Latin groups, a 713-4
  Mozarabic, b 713
  Prayer Books, English, b 716-7
  Presbyterian, b 717-8
  reformed English, a 716-7
  Roman, a b 714
  Scotch Episcopal, a b 717

Liturgy (Ambrose, St.), I, b 583; (Armenian), II, a b 481, a 482; (Bunsen), IV, a b 468; (Calamy), a 579; (Cranmer), VI, b 487, a 488; (Doxology), VII, b 332; (England, Church of), VIII, b 339-40; (Greece), XI, b 131; (Greek Church), a b 140, a b 142; (Gregory I.), a 157; (Ireland), XIII, b 269; (Lection), XIV, a b 398; (Sacrifice), XXI, b 147–8. See LECTION, MISSAL
——, Alexandrian (Missal), XVI, b 532; Aztec (Mexico), a 220; Eastern (Renaudot), XX, a 406
Liturgy, John Knox's (Gaelic), X, b 12
—— manuscripts (Palæography), XVIII, b 152, b 155; of Milan (Italy), XIII, b 468; Nestorian (Missal), XVI, a 532; Rabbinical (Ramban), XX, b 276; Roman (Missal), XVI, b 531, b 532; in Scotland (Presbyterianism), XIX, a 702, b 704; (Scotland), XXI, b 533–4; Slavonic (Methodius), XVI, a 202
Litu-Slavic languages (Philology), XVIII, b 799, b 800; (Slavs), XXII, a 157
Lituus, Roman Trumpet, XXIII, a 630
Litzin, watering-place (Bourgas), IV, a 160
Liubatrin mountain (Macedonia), XV, a 138
Liu Kiu islands (Lew Chew), XIV, a 489–90
LIUTPRAND, chronicler, XIV, a 718
——, king (Lombards), XIV, b 823, b 824
Livadia, district and town (Bœotia), III, b 742
——, town (Crimea), VI, a 519
Live-birth (Medical Jurisprudence), XV, b 789, b 790–1, b 793
Liveing, physicist (Spectroscopy), XXII, *b* 389, *a* b 390, *a* 391, a 393, *a* 394
Liver, organ (Amphibia), I, a 669; (Ape), II, a 145; (Arachnida), II, a 239, a 248, b 257; (Crustacea), VI, a 565; (Horse), XII, a 184; (Mammalia) (Ill.), XV, b 365–6
——, human (Anatomy), I, b 702, b 703, b 742; (Diabetes), VII, b 127; (Digestive Organs) (Ill.), a 199–201; (Jaundice), XIII, b 608-10; (Nutrition), XVII, a 688, a 693, b 699–700, a b 701; (Physiology), XIX, b 14, a b 15; (Yellow Fever), XXIV, a b 771, b 772; Galen's theory of (Vascular System), *a* 103
——, abscess of (Pathology), XVIII, b 405, b 406, a 407; acute yellow atrophy of, III, a 45; blood tumor of (Pathology), XVIII, a 376; bloodvessels of (Anatomy), I, a 793, a 796; cancer of (Pathology), XVIII, b 387, b 390; cancerous infection of (Pathology), a 391; circulation in (Vascular System), XXIV, b 118
—— of cephalopoda (Mollusca), XVI, a 702; chiroptera (Mammalia), XV, b 412
——, effect of malaria on (Pathology), XVIII, a 405; metabolic diseases of (Pathology), a 394–5; secondary tumors of (Pathology), a 412
—— -fluke, parasite (Snail), XXII, a 198; (Trematoda) (Ill.), XXIII, 569-73
LIVERPOOL, city (Plan), XIV, b 718–24
  books on, a 724
  docks, a b 722
  educational institutions, a 721
  general aspect, b 718–9
  history, b 722-3
  manufactures, b 721–2
  municipal works and features, b 720, b 723–4
  parks, a 719
  population, a 721
  public buildings, b 719–20, a 721
  religion and charities, b 720–1
  traffic features, b 720, b 721
—— (Commerce), VI, b 181; (Harbors and Docks), XI, *b* 418, a 419, b 421; (Libraries), XIV, a b 520, a 521, a 540, b 544; (London), XIV, *a b* 839; (Newspapers), XVII, a 432; (Nova Scotia), a 618; (Savings Banks), XXI, a 343, a 345; stations (Railway), XX, a 244
——, town, Nova Scotia, XVII, a 618
—— and Manchester R.R. (Railway), XX, *b* 231, *a* 241, a 255, a 258
—— button (Lamp), XIV, b 246
LIVERPOOL, Charles Jenkinson, Earl of, XIV, a b 724; (Treaties), XXIII, b 565
LIVERPOOL, Robert Banks Jenkinson, Earl of, prime minister, XIV, b 724; (Cobbett), VI, a 78; (Finance), IX, b 164; (George IV.), X, b 384, *b* 385; (Money), XVI, b 764 *sq.*; (Palmerston), XVIII, a 198; (Peel), b 464, a b 465; (Wellesley), XXIV, *b* 520
LIVERWORTS, plants, XIV, b 724-5; (Botany) (Ill.), IV, a b 127, *b* 143, a 144; (Muscineæ) (Ill.), XVII, b 71-6, a 81; (Phosphorescence), XVIII, b 826; (Vegetable Kingdom), XXIV, a b 140
Livery (Heraldry), XI, b 634; colors (Costume), VI, b 415–6, a b 423–4
—— Companies, VI, b 198–200; (Guild), XI, *b* 232; (London), XIV, *a* b 828, a 843, a 845, b 862; (Londonderry), XIV, *b* 863
Liverymen (Company), VI, *b* 199, a 200
Lives, race (Russia), XXI, *a* 87, b 88
Lives, Plutarch's, XIX, b 243, a b 244, a 247
Livesey, Joseph, philanthropist (Temperance), XXIII, b 174
Livesey's scrubber (Gas and Gas-Lighting), X, a 85
Lives of the Poets (Goldsmith), X, a b 680; (Johnson, S.), XIII, a b 739, b 740
—— *of Saints* (Nestor), XVII, b 363
—— *of the Saints* (Butler, A. and C.), IV, *b* 518; (Ursula, St.), XXIV, b 17
Live stock. See CATTLE and names of animals
Livia, empress (Ovid), XVIII, a 84; (Tiberius), XXIII, a 356, a 357, a 358; house of (Rome), XX, a b 841
Livigno, val di (Engadine), VIII, b 193
Livilla, wife of Drusus Cæsar (Tiberius), XXIII, a 358
Living matter (Zoology), XXIV, b 841–2; cyclic changes of (Biology), III, a 588
Livings in commendam (Bacon), III, a b 178
Livingston, town (Guatemala), XI, a 214
LIVINGSTON, Edward, jurist, XIV, b 725–6; (Code), VI, b 96; (Reformatories), XX, *b* 898; (United States), XXIII, a 813
LIVINGSTON, Robert R., chancellor, XIV, a 726; (Street), XXII, b 930; (Montgomery), XXIII, a 839; (Tammany Society), a 920; (United States), b 790
Livingstone, river (Zaire) XXIV, b 801 note
——, Sir Alexander, regent (Scotland), XXI, b 515, a 516
LIVINGSTONE, David, explorer, XIV, b 726–9
  central African explorations, a b 728
  missionary period, b 726–7
  results, b 728–9
  South African researches, a b 727
  Stanley relief, b 728
  youth, b 726
  Zambesi expedition, b 727–8
—— (Africa), I, a *b* 221, *a* b 222, a 223, b 225, *a* b 226, b 227, b 228, b 230, a 236, a b 243, a 244; (Congo), VI, b 237; (Geography), X, b 173; (Geology), b 235, a 244; (Moffat), XVI, b 566; (Transvaal), XXIII, a 552; (Zaire), XXIV, *b* 801, *a* 802; (Zambesi), b 804
Living Temple, The (Howe), XII, b 336, a 337
LIVIUS ANDRONICUS, poet, XIV, a b 729; (Drama), VII, *b* 354, b 355; (Nævius), XVII, a 168; (Roman Literature), XX, a 735, *a* b 736
——, Marcus, consul (Hannibal), XI, *a* 397
——, Titus, historian. See LIVY
Livland, province. See LIVONIA
LIVNY, town, XIV, b 729–30
LIVONIA or LIVLAND, province, XIV, a 730–1; (Russia), XXI, a 76, a 87, a 88, b 94, a 99, a *b* 101, *a* 106
Livonian order (Lithuanians), XIV, a b 708
Livorno, city. See LEGHORN
Livret, law of (Labor), XIV, b 173
LIVY, historian, XIV, a 731–8
  aim in writing, b 732-3
  authorities, b 735–6
  defects in his methods, b 736–7
  enthusiasm for Rome, a b 733-4
  epitomes of his work, b 732
  indifference to research, b 734–5
  life, a 731–2
  merits, b 737–8
  moral idea, b 733
  outline of his history, a b 732
  philosophy of, a 734
  Roman annalists, a b 735
  style, a b 738
—— (Æneas), I, a 165; (Augustus), III, a b 73; (Cato), V, *a* b 209; (Chronology), b 618; (Claudius Crassus), *b* 713; (Claudius Germanicus), a 714; (Comitia), VI, b 174, *a* 175; (Drakenborch), VII, a 338; (Hannibal), XI, b 397, *a* 398; (Italy), XIII, b 455, a 456; (Latin), XIV, b 335–6; (Nobility), XVII, b 539; (Polybius), XIX, b 427; (Roman Literature), XX, b 743; (Valerius Maximus), XXIV, a 48; (manuscripts of (Palæography), XVIII, a 157
Liwiec river (Siedlce), XXII, a 42
Lixiviation (Copper), VI, a 311; (Sodium), XXII, a b 256
Lixuri, city (Cephalonia), V, b 298, *a* 299
Lixus, river (Mauretania), XV, b 643; town (Phœnicia), XVIII, b 819, a 820
Liza or *Nest of Nobles* (Tourguenieff), XXIII, *b* 519
LIZARD (Ill.), XIV, b 738–44
  Agamidæ, a 742–3
  Australian agamus, a 743
  Chamæleons, b 743
  classification, a 739–40
  Geckos, b 743–4
  general characteristics, b 738–9
  glass-snake, a b 741
  Iguanidæ (Ill.), b 741–2
  Lacerta, 740–1
  Mexican, a 741
  Monitoridæ (Ill.), 740
  number of species, b 738
  Skinks, b 741
—— (Australia), III, b 97; (Dragon), VII, b 333; (Gecko), X, b 113-4; (Iguana), XII, b 739–40; (Parasitism), XVIII, a 264; (Reptiles) (Ill.), XX, *b* 445, b 451, a b 457, *a b* 458, a 461, a 463–4, b 470–1, b 472, a 475, *b* 480, b 483,

Lizard, *continued* a *b* 485, a *b* 486-7; (Skeleton), XXII, b 114, *a* 119, *a* 120, *b* 121, *a* 122, b 123, b 124, b 126; (Zoology, American), XXIV, b 924-5; relation to Snakes, XXII, b 199
——. sign of the Zodiac, XXIV, a 832
—— rock, England (Serpentine), XXI, a 715
Lizzia, genus (Hydrozoa) (Ill.), XII, b 580, a 583, *a* b 584, b 595
Ljubuska, town (Herzegovina), XI, *a* 693
LLAMA, mammal (Ill.), XIV, a 744-6; (Alpaca), I, *a* 526, (Bolivia), IV, *b* 12-3; (Breeds), b 224; (Camel), b 650, a 651; blood of (Mammalia), XV, b 366
Llanberis, valley and lake (Carnarvon), V, *a* b 105
Llandaff, town. See CARDIFF
Llandeilo, flag group (Geology), X, b 293-4, b 295, b 298, b 299
Llandovery, lower group (Geology), X, a b 294; upper group (Geology), a b 296
Llandrindod, spa (Radnor), XX, a b 224
LLANDUDNO, watering-place, XIV, b 746-7; (Carnarvon), V, b 105
LLANELLY, town, XIV, a 747; (Carmarthen), V, b 101, *a* 102
Llanganati, mountain (Ecuador), VII, *a* 559
LLANGOLLEN, town, XIV, a 747
Llangorse lake (Brecon), IV, a 218
Llano de la Retama (Canary Islands), IV, b 704-5
—— Estacado, plains (Texas), XXIII, *a* 220, *a* b 221
Llanos of the Orinoco (Colombia), VI, b 137, *a* 139; (Venezuela), XXIV, b 150-1
Llanquihue, province (Chili), V, a b 535, a *b* 536, a 537, a 538, b 539, a 540, b 541; lake (Chili), b 535
Llanrwst, town (Denbigh), VII, b 67, *a* b 68; Bridge at (Ill.), IV, b 299, b 300
Llanthony Abbey (Monmouth), XVI, b 781
Llanwit Major, town (Glamorgan), X, a 565
Llanquen, lake (Chili), V, b 535
Llewelyn Park (Orange, N. J.), XVII, b 836
—— II., Wales (Chester), V, b 526; (England), VIII, a b 280
Lloegrwys, race (Celtic Literature), V, *a b* 261
Llona, Numa Pompilio, poet (Peru), XVIII, a 689
LLORENTE, Juan Antonio, historian, XIV, a 747; (Inquisition), XIII, b 100, *b* 101
Lloyd, Dr. (Meteorology), XVI, a 165, b 166, b 185, a 189, b 191
——, Charles, bishop (Peel, XVIII, b 465
——, Edward, journalist (Newspapers), XVII, a 426
——, H., optician (Telescope), XXIII, a 156
——, Robert, poet (Churchill), V, a 670
LLOYDS, marine association, XIV, b 747-8; Austrian (Trieste), XXIII, b 595, a 596; *List* (Newspapers), XVII, a 426; register, requirements of (Anchor), II, 5
Lloyd's tuyere (Iron), XIII, b 313
—— *Weekly Newspaper*, XVII, a 430, a 431, a 432
Lludd, king (Celtic Literature), V, b 278
Llugw river (Radnor), XX, a 224
Llwchwr river (Carmarthen), V, b 101; (Glamorgan), X, *b* 564
Llyn Safaddu, lake (Brecon), IV, a 218
Llywarch or Llewelyn, poet (Celtic Literature), V, b 277
—— Hen (Celtic Literature), V, *b* 274, a b 275-6, b 284
LOACH, fish, XIV, a 748; (Ichthyology), XII, b 731
Load (Bridge) (Ill.), IV, a 254, b 257-9; distribution of (Bridges) (Ill.), b 260-2, a b 264, b 266; "live" (Strength of Materials), XXII, b 633; suspension bridge (Bridges) (Ill.), IV, a 270-1
Loaded governor (Steam-Engine) (Ill.), XXII, a *b* 529-30
Loading "Inflexible" guns (Gunnery), XI, a 279
—— life policies (Insurance), XIII, b 179-80, a b 183
—— process (Paper), XVIII, b 224
Load pressure, defective estimate (Arch), II, b 286-7
Loadstone (Compass), VI, b 201, a 202; (Iron), XIII, a 286, a 292, a 293; (Japan), b 582; (Magnetism), XV, *a b* 220, a b 276
Loam, clay (Mineralogy), XVI, b 442; moulding (Founding), IX, a 424
Loamy soil (Horticulture), XII, a 222, b 237; tilling (Agriculture), I, a b 302
Loan, relief by (Poor Laws), XIX, a 489
LOANDA, town, XIV, a b 748
LOANGO, country, XIV, b 748-9; (Africa), I, b 241
Loans, national (Finance), IX, a b 158-9; (Lotteries), XV, a 13; classes of (National Debt), XVII, a 250-1
——, private (Partnership), XVIII, a 335; action on (Roman Law), XX, a 720
——, foreign (Commerce), VI, b 184-5
——, government (Ireland), XIII, b 233, a 234
Lobatæ (Actinozoa), I, b 122
Lobato, Balthasar, Gonçalves, novelist (Portugal), XIX, *a* 572
Lobatschewsky, N., mathematician (Parallels), XVIII, a 259
Lobau, battle of, 1809 (Austria), III, b 116; (Napoleon I.), XVII, *a* 221
Lobay river (Zaire), XXIV, b 802
Löbe, Julius, philologist (Gabelentz), X, *b* 3
Lobeck, Christian August, archæologist (Mysteries), XVII, a b 132, b 133; (Mythology), b 144, b 149
Lobeid. See EL-OBEID
Lobeira, Vasco de, writer (Amadis of Gaul), I, *a* 572; (France), IX, a 575; (Portugal), XIX, a 571; (Romance), XX, a 670
Lobel, Matthias de, botanist (Lobelia), XIV, b 749
LOBELIA, plant, XIV, b 749; (Botany), IV, a 124, b 130; (Horticulture), XII, a b 265; (Hybridism), a 440
Lobes of Dionæa (Insectivorous Plants), XIII, b 142-3
Lobes, liver (Mammalia) (Ill.), XV, b 365-6
Lobgesang auf die Jungfrau Maria (Gottfried), X, a 759
——Mendelssohn's (Hymns), XII, a 621
Lobkovic, Jan Hasisteinsky z, satirist (Slavs), XXII, a 161
Lobkowitz, Georg Christian, prince (Gluck), X, *b* 618
Loblolly Pine, XIX, a 114
Lob-nor, lake (Gobi), X, *b* 635; (Turkestan), XXIII, a 679
Lobo, Francisco Alexander, author (Portugal), XIX, b 573
——, Francisco Rodrigues, novelist (Portugal), XIX, *a* 572
LOBO, Jeronimo, Jesuit missionary, XIV, b 749-50
Lobodon, classification (Mammalia), XV, b 450
Lobos islands (Guano), XI, a b 207, a b 208; (Peru), XVIII, b 684, a 688; (Seal), XXI, *b* 610
Lobosa, class (Protozoa) (Ill.), XIX, *a* b 860, a b 864-6
Lobostominæ, group (Mammalia), XV, a 419
Lobster (Crustacea) (Ill.), VI, b 559, *b* 560, a b 561, a 563, *a* b 564, b 565, *a* 566, a 567, a b 568, a 570, b 577, a 578 note, a 579, *a* 582, note; (Fisheries), IX, b 231, a 235; parasite of (Protozoa), XIX, *b* 878
Lobules of glands (Digestive Organs), VII, *a* 193; of the liver (Digestive Organs) (Ill.), a b 200
Lobulus azygos, lungs (Mammalia), XV, b 368
Local Government Board (Public Health), XX, *a* b 102
Locality, organ of (Phrenology), XVIII, a 860; sense of (Touch), XXIII, a 511
Localization of impressions (Psychology), XX, a 58-60, a 68, a 89
Local option (Liquor Laws), XIV, *a* 695; preachers (Methodism), XVI, a 196, a 197, b 200; (Probability), XIX, b 804-9
Locamaria, town (Quimper), XX, a 188
Locarno, town (Maggiore), XV, b 199; (Ticino), XXIII, *b* 373, a 374
Locatio-conductio (Landlord and Tenant), XIV, b 273
Locative case (Grammar), XI, *b* 36
Locatores or contractors (Prussia), XX, b 7
Loch Ascog (Bute), IV, b 516
—— Doughfour (Canal), IV, *b* 695
—— Fad (Bute), IV, *b* 516
—— Foyle (Agriculture), I, a 360; (Ireland), XIII, b 221, a 222
—— Fyne (Argyllshire), II, *b* 439, a 440; (Fisheries), IX, a b 227, *a* 228
—— Katrine. See Katrine
—— Leven. See Leven
—— Lochy (Canal), IV, b 695; (Lake), XIV, a 218, b 219
—— Lomond (Dumbarton, County), VII, *b* 452
—— Muick (Aberdeenshire), I, *b* 46
—— Na Keal (Mull), XVII, a 22
—— Ness (Canal), IV, b 695
—— Oich (Canal), IV, b 695
—— Ranza (Arran), II, b 549
—— Ryan (Wigtown), XXIV, *a* 594, *a* 595
—— Scavaig, Skye (Aurora), III, b 80
—— Scridain (Mull), XVII, a 22
—— Skene (Dumfries, County), VII, b 454; (Scotland), XXI, a 549
Lochaber axe (Halbert), XI, a 340
Lochar moss (Dumfries), VII, b 454
Lochee, suburb (Dundee), VII, *a* 463
Lochgelly, district (Coal), VI, *b* 51
Lochleven, poem (Bruce M.), IV, b 353, *a* 354. See Leven
Lochmaben, burgh (Dumfries), VII, a b 454, a 456
Lochnagar, mountain (Aberdeenshire), I, b 46; (Scotland), XXI, b 547
Lochs, Scotch (Perth), XVIII, b 678; (Wigtown), XXIV, a 594
Lochy river (Inverness), XIII, b 205, a 206. See Loch Lochy
Loci Communes (Chemnitz), V, a 504; (Melanchthon), XV, b 842, a *b* 843
Loci, geometrical. See LOCUS
Loci theologici (Gerhard), X, b 398
LOCK (Ill.), XIV, a 750-8
    Barron's, a 751
    Bramah's b 751-2
    Beckett's, a b 756
    changeable key, b 756-7
    Chubb's, b 752-3
    early history, b 750
    Hobb's, b 753-4
    inside and outside locks, b 752
    letter locks, b 752
    master keys, a 755
    Nettlefold's bolt, b 754-5
    picking, b 751-2
    safe locks, b 755-6
    spring locks, a b 755
    Tucker's, a b 754
    Yale locks, b 757-8
—— (Safes), XXI, b 152
——, Gatling (Gunmaking) (Ill.), XI, b 253-4; sporting (Gunmaking), a 248

Lockage (Canal), IV, b 692–3; (Harbors and Docks), XI, b 419. See Locks
LOCKE, John, philosopher, XIV, a 758–69
  birth and education, a b 758
  cause and effect, a b 767
  early MSS., 759
  educational works, a 762, b 763-4
  essays on Christianity, b 760, a b 761, a 762, a b 763
  exile in Holland, b 759-60
  experience, a 765–7
  Human Understanding, a 764-8
  knowledge and its applications, a 767–9
  literature on, a b 769
  life and work at Oates, a b 760–1
  miscellaneous works, a b 762
  method of, b 761–2
  moral features, b 761
  Oxford period, b 758–9
  Shaftesbury period, a b 759
  views of innate knowledge, b 764–5
  works on social polity, a b 760, a b 761, a 762–3

—— (Analytic Judgment), I, *a* 700; (Apologetics), II, b 168; (Association of Ideas), b 638, b 639; (Axioms), III, b 138; (Berkeley), a 509; (Butler Bishop), IV, b 519; (Categories), V, b 195; (Collins), VI, a 132, a 133; (Condillac), b 221, a 222; (Dream), VII, b 393; (Education), b 585; (England), VIII, b 315; (English Literature), b 378, a 379, *b* 384; (Ethics), b 526–7; (Evolution), a 665; (Filmer, Sir R.), IX, a 146; (Government), XI, a b 10, b 15; (Hobbes), XII, *a* 42; (Hooker, R.), a 156; (Hume), XII, b 360, a 361, *a b* 365, a 366, a 369; (Hutcheson), *a b* 426; (Kant), XIII, *b* 857–8; (Leibnitz), XIV, a b 422; (Logic), XIV, b 800–1, a 802; (Medicine), XV, b 820–1; (Metaphysic), XVI, a 94; (Mint), b 507; (Money), a 753; (Newton), XVII, b 456, *b* 457, a 460; (Norris), *a b* 566; (North Carolina), b 575; (Penn), XVIII, b 506, a 507; (Philosophy), a 808; (Political Economy), XIX, a b 371, note; (Predestination), b 691; (Psychology), XX, a *b* 43, b 45, *a* 46, b 60 note, a 62, *a* b 70, *a* 71, a 80 note, b 81, b 83, a 87 note, a 88 note; (Sarpi), XXI, b 326; (Shaftesbury), a b 767, a 770; (Toland), XXIII, b 462; (Trade), a 529
——, Joseph, engineer (Brassey), IV, *a* 198; (Railway), XX, a 232, b 233, a 255
LOCKHART, John Gibson, author, XIV, b 769–71; (Abbotsford), I, a 31; (Scott, Sir W.), XXI, b 570, a b 576; (Wilson), XXIV, *a* 624
——, Lord Covington, lawyer (Wedderburn), XXIV, a 502
——, physician (Ginseng), X, *a* 540
"Lock" Hospitals, XII, a b 315
Locking plate (Clocks)(Ill.), VI, a b 23, a 25, a 30
Lock-jaw. See TETANUS
Lock-picking, XIV, a b 751–2, a b 753, b 754, b 755, a b 756
LOCKPORT, city, XIV, a 771; (Heating), XI, a 529
Locks (Canals), IV, b 695, b -696, a 697; (Harbors and Docks), XI, b 416–7; invention of (Canal), IV, a b 691; time of emptying (Hydromechanics) (Ill.), XII, a 499; tidal, Portsmouth (Dockyards), VII, a 272, 275
Locks and Keys, XIV, a 753
Locksley Hall, Tennyson's (Arabia), II, a 231
Lock stitch (Sewing Machines) (Ill.), XXI, b 755, a 919–20
Lockwood, Lieutenant, explorer (Polar Regions), XIX, a 339, note
—— Samuel, naturalist, (Crustacea), VI, a b 574, note
Lockyer, Joseph Norman, astronomer (Astronomy), II, b 689; (Geology), X, a b 191, note, *a* 192; (Spectroscopy), XXII, *a* 390, a b 391, *b* 392
LOCLE, LE, village, XIV, a 771; (Neuchatel), XVII, b 370; (Switzerland), XXII, b 817, a 818
Locmariaquer menhir (Rude Stone Monuments), XXI, a 57
Locomotive engines (Agriculture) (Ill.), I, a 279–80, a 288; (Highways), XI, a 725; (Patents), XVIII, b 878–9, b 881; (Railways), XX, b 232–3, a *b* 234, *a b* 235, b 254-7; (Steam-Engine) (Ill.), XXII, a 547–9; (Tramway), XXIII, b 539-40; American (Hartford), XI, b 444; (Steam-Engine), XXII, b 922-6; (United States), XXIII, a b 813; anticipation of (Watt), XXIV, a 436; boilers (Steam-Engine) (Ill.), XXII, a 520–1, *b* 522, a 523; coal-dust-burning (Pennsylvania), XVIII, a 512; electric (Traction), XXIII, a b 526, a b 527; fuel (Coke), VI, a 108, a 109; invention of (Steam-Engine), XXII, b 494, a 496; (Trevithick), XXIII, a 589; stations (Railways), XX, b 245–6
—— Torpedoes (Ill.), XXIII, a 479–80
—— type, marine boilers of (Steam-Engine), XXII, a 522, b 523
LOCOMOTOR ATAXY, II, b 723–4; (Insanity), XIII, a 107, 115; (Ophthalmology), XVII, b 806; (Pathology), XVIII, a b 401, a 402; (Physiology), XIX, b 40
—— organs (Rotifera), XXI, b 8–10
LOCRI, people, XIV, a b 771
—— Epizephyrii, colony (Greece), XI, a 86; ruins (Gerace) X, a 395
Locrian coins (Numismatics), XVII, b 653, b 658; dialect (Greece), XI, a b 119
Löcse, town (Leutschau), XIV, b 484
Loculi, graves (Catacombs) (Ill.), V, a b 182, a 183
LOCUS, geometrical term, XIV, b 771; (Conic Sections), VI, b 242; (Geometry), X, b 353; (Mathematics), XV, b 637; (Thales), XXIII, b 236; equation of (Geometry), X, b 371
LOCUST, insect (Ill.), XIV, b 771–4; (Algeria), I, a 497, b 501; (Arabia), II, b 212; (Canary Islands), IV, b 703; (Colorado), VI, b 146; (Egypt), VII, a 618; (Grasshopper), XI, a 54; (Himalaya), XI, a 745; (India), XII, a 782; (Insects), XIII, b 148, b 159; (Joel), b 715, b 716, a 717; (Nebraska), XVII, a 317
LOCUST-TREE, XIV, a b 774; (West Indies), XXIV, a 540; forests (United States), XXIII, a b 860
Locustidæ, family (Grasshopper), XI, b 53, *a* 54
Lodalskaupen, mount (Norway), XVII, a 589
Loddigesia mirabilis (Humming-Bird), XII, a 372 note
Loddon, river (Victoria), XXIV, a 233
Lodes, metallic (Geology), X, a b 281; (Mining) (Ill.), XVI, a 460–1; lights (Mining), a 462
LODÈAE, capital town, XIV, b 774
LODGE, Thomas, dramatist, XIV, b 74–5 (Drama), VII, b 370, b 371; (Greene, R.), XI, b 147; (Pastoral), XVIII, b 351
Lodgers' rights (Distress), VII, b 231-2
Lothikerá, town (Chhindwárá), V, a 529
Lodi dynasty (India), XII, b 832, b 833
Lodicules (Grasses), XI, a *b* 50, b 51
Lödingen, town (Lofoten and Vesteraalen), XIV, a 776
Lodomeria, principality (Galicia), X, b 23, *b* 24
Lodore, Falls of (Cumberland), VI, b 617–8
LODZ, town, XIV, b 775; (Poland), XIX, a 324; district (Poland), a 321, *b* 322
Lodzia, John, bishop (Poland), XIX, a 311
Loe, Thomas, Quaker (Penn), XVIII, a 503
Loèche la Ville (Leuk), XIV, b 484
Loescher, Valentine Ernest, philologist (Pietism), XIX, b 92
Loess, alluvial deposit (China), V, a 550; (Geology), X, b 325–6; (Iowa), XIII, a b 214; (Nebraska) XVII, *a* 318; (Russia), XXI, *a* b 82
Loew, Oscar, ethnologist (Indians), XII, *a* 863, b 866; (Surveys), XXII, a 937, a 938
Loewenburg, castle of (Cassel), V, a 160
Loewy, Maurice, astronomer (Transit Circle), XXIII, b 548; his equatorial coudé (Telescope) (Ill.), a 168
LOFOTEN and VESTERAALEN, group of islands, XIV, b 775–6; (Norway), XVII, b 590, *a* 591, a 592, *a b* 593, *a b* 594, a 596; (Whirlpool), XXIV, a b 571, a 572
Loftus, Adam, archbishop (Ireland), XIII, a b 271
——, Dudley, lawyer (Syriac Literature), XXII, b 895 note
——, W. K., archæologist (Architecture), II, a b 350, note, *a* 351, b 400; (Shustar), XXI, *b* 888
Loftusia, genus (Foraminifera), IX, b 329
Loftusina, group (Protozoa), XIX, b 870
Log, measure (Weights and Measures), XXIV, *b* 512
LOG, ship's (Ill.), XIV, a 776–8; (Navigation), XVII, a 263, b 265
Logan, Mount (Quebec), XX, b 171
LOGAN, John, poet, XIV, b 778–9; (Bruce) (Ill.), IV, b 353–4; (Hymns), XII, b 628
——, John Alexander, senator, *b.* 1826, *d.* 1888 (Thomas), XXIII, a 939
——, J. R., geologist (Singapore), XXII, a 100; (Tibet), XXIII, a 367, a 368 note
——, Sir William Edmond, geologist (Foraminifera), IX, b 337, a 339, note; (Geology), X, *b* 290, a 293, b 306, *b* 328 (Quebec), XX, *a* b 172
Loganiaceæ, plants (Nux Vomica), XVII, b 706
Loganian Library (Libraries), XIV, b 534; (Philadelphia), XVIII, a 754
LOGANSPORT, city, XIV, a 779
Logarithmic integrals (Infinitesimal Calculus), XIII a 43, a b 53; (Tables), XXIII, b 19
Logarithmorum chilias prima (Logarithms), XIV, b 780–1; (Napier), XVII, b 187, note
LOGARITHMS, XIV, a 779–87
  Briggs's system, b 780–1
  calculation and formulæ, b 784–6
  Gaussian, a b 784
  hyperbolic tables, a 784
  invention and history, b 780–4
  properties, a 779–80
  seven-figure tables, b 782
  tables, history of, b 782–4
  trigonometrical functions, a b 783

—— (Algebra), I, a 490–1; (Annuities), II, a b 71; (Astronomy), I, a b 59; (Gunter), XI, b 295; (Kepler), XIV, a 49; (Na-

Logarithms, *continued* pier, J.), XVII, b 185–90; (Navigation), b 267 note, a 268, a 270; latitude (Geodesy), X, b 152; scale of (Briggs), IV, a *b* 310; of (Tables), XXIII, b 10, a 11, a 12, b 13, a 14–7; (Mensuration), XVI, b 20, b 21; theory of (Trigonometry), XXIII, a 607
Logau, Frederich von, satirist (Germany), X, a 475
Log book (Navigation), XVII, b 260, *b* 270, a b 271; (Navy), b 301; deck (Navigation), b 270
Logcock, bird (Woodpecker), XXIV, b 686
Log College (Presbyterianism), XIX, a 718; (Tennent), XXIII, *b* 936
Logeman magnets (Magnetism), XV, b 277
Loges, François des (Villon), XXIV, b 249, a 250
Loggerhead duck (Pochard), XIX, a 265
Loggerhead, Tortoise (Ill.), XXIII, a 487, a 488
Loggia dei Lanzi, building (Orcagna), XVII, a 839
LOGIC, XIV, a 787–812
Aristotelian Logic, a 791–8
Antisthenes, nominalism of, b 791–2
apodictic reasoning, b 793–5
earliest Greek schools, a 791–2
inductive analysis, a 796–7
judgment, b 795–6, b 798
knowledge, theory of, a b 795
mathematical process of definition, b 794–5
metaphysical basis of, a b 798
Metaphysics, b 792–3
Organon, a b 792
Platonic method, a 792
proof, nature of, b 797–8
sophist and Socratic method, b 791
syllogism, a 796–7
thought, relation of being to, a b 793
Baconian method, a b 800
classical period, later, b 798–9
classification of schools, a 808
contradiction, elimination of, b 809
criticism of schools, b 807–11
deductive types, Kantian, b 804–5
Descartes' system, b 799–800
definition of, a 787–91
difficulties of fixing the province of, a 787–91
empirical psychological basis of, a 800–2
formal logic, defect of, b 810–1
Grassmann's system, b 810
Hamilton's system, b 808
LOGIC, *continued*
Hindu systems, b 811–2
historical process of definition, a 790–1
Histories of, b 811
identity, element of thought, a b 809
Kantian system, a 803–5, a 808–9
metaphysical logic, b 806–7
metaphysical psychological basis, b 802–3
Mill's system, a 801–2
mind, relation to knowledge of, b 789–90
philosophical deduction, definition by, a b 788
psychological analysis, definition by, b 787–8
Ramists, b 812
scholastic period, a b 799
scientific classification, a b 787, b 788–9
subjective consciousness, definition by, a b 789
summary, critical, a b 811
symbolic method, b 809–10
synthesis, relation of analysis to, a 809
theory of knowledge basis, b 805–6, a b 811
transcendental and formal conceptions of, a b 805
understanding, Kantian view of, a b 804

—— (Abstraction), I, b 59; (Albertus Magnus), a 402; (Aldrich), b 420; (Aristotle), II, b 453–4; (Avicenna), III, a b 134, a 135; (Bacon), b 185, b 186, a 187; (Beneke), b 484; (Burgersdyk), IV, a 477; (Buridan), a 481; (De Morgan), VII, b 58; (Galen, C.), X, b 22; (Gassendi), b 96; (Genovesi), b 142; (Gilbert de la Porrée), a 529; (Hamilton, Sir W.), XI, a 372, b 374–5; (Hegel), a b 552, a 553; (Herbart), a 642; (Hutcheson), XII, b 424, a b 426; (Kant), XIII, a 855, a 857, a 861, a 862; (Leibnitz), XIV, b 422–3; (Lully), XV, b 64–6; (Metaphysic), XVI, a 99–104; (Mill, John Stuart), b 323, b 324; (Philosophy), XVIII, b 805, a 806, b 808–9; (Psychology), XX, a 82–3; (Ramus), b 280–1; (Rhetoric), *b* 524, a b 525; (Sanskrit), XXI, b 305; (Scholasticism), b 435, *b* 437, a 439; b 443, b 444; (Stoics), XXII, a 595; (Trendelenburg), XXIII, a 577; (Universities), *a* 890, b 899–900
Logic, Elements of (Whately), XXIV, b 558, a 559, a 560; *Lectures on* (Kant), XIII, a 855, a 857, a 861; *Mathematical Analysis of* (Boole), IV, a 43; *Symbolic*, Venn's, XIV, b 809 note; *System of*, Mill's, a 801; XV, a b 324; (Hume), XII, b 369
Logical Analysis, I, b 698–9; proof (Rhetoric), XX, a b 525
Logie, parish (Stirling), XXII, b 580, a 581
Logik, Wissenschaft der (Hegel), XI, a 549, a 551
Logistic Logarithms, XIV, a 784; (Tables), XXIII, b 17
Log-lines (Seamanship), XXI, b 621
Logographers, speech-writers (Lysias), XV, b 119; (Rhetoric), XX, b 523
Logographi, narrators (Greece), XI, a 126
Logon river (Soudan), XXII, *b* 290, *a* 291, b 292; state (Soudan), b 292, a 293; tribes (Negro), XVII, a 328
LOGOS, doctrine, XIV, a 812–4; (Alchemy), I, a 411; (Angel), II, b 25; (Dogmatic), VII, b 293, a b 294; (Gospels), X, a 732–3, a 734, b 738, a 739 note, a 749; (Jesus Christ), XIII, b 681, *a* 682; (Justin), b 800; (Origen), XVII, a b 866, a 867; (Paul of Samosata), XVIII, a b 440; (Philo), b 775; (Stoics), XXII, b 590, a *b* 593, a b 594, a b 595; (Tatian), XXIII, a 87; (Theodore), b 274
Logotypes (Typography), XXIII, a 747
LOGRONO, province, XIV, b 814; (Spain), XXII, a 309, a 310, b 312; city, XIV, b 814
Logroscino, Nicolo, composer (Music), XVII, b 101
"Log-ship" (Ill.), XIV, a 777
Logtak lake (Manipur), XV, a 497
Logudorese dialect (Italy), XIII, b 503–4
LOGWOOD, XIV, b 814–5; (Calico-Printing), IV, a 611, a 612, *a* 614; (Dyeing), VII, a 494, a 495, a 497, b 499, b 500, a 501; (Honduras, British), XII, a 137; (Ink), XIII, b 86, a 87
LOHÁRDAGÁ, district, XIV, a b 815
Lohaya, town (Beit el Fakih), III, b 440
Lohengrin, opera (Wagner), XXIV, *a* 335, b 336
Lohenstein, Danois Gaspar von, poet (Drama), VII, a 381; (Germany), X, a b 475, a 476, a 477
Loher, Franz von, traveller (Imbros), XII, a b 753
Lohit river (Himalaya), XI, b 734
Lohrmann's lunar charts (Astronomy), II, a 701
Loij, river (Zaire), XXIV, b 802
Loing, river (Loiret), XIV, a 818; (Seine-et-Marne), XXI, *b* 655, *a* 656
Loir, river (France), IX, a 446, b 457; (Sarthe), XXI, *a* 329
LOIRE, department, XIV, a b 816
LOIRE, river, XIV, b 815–6, a b 817; (France), IX, *a* 446, b 457; (Indre-et-Loire), XII, a 887; (Loir-et-Cher), XIV, b 818; (Maine-et-Loire), XV, *b* 305; (Nièvre), XVII, *a* 509; (Saone-et-Loire), XXI, *b* 316
LOIRE, HAUTE-, department, XIV, b 816–7
LOIRE-INFÉRIEURE, department, XIV, b 817
LOIRET, department, XIV, a 818; river, a 818
LOIR-ET-CHER, department, XIV, b 818–9
Loirston Loch (Kincardine), XIV, b 80
Lois Civiles (Domat), VII, b 300
Loiseleur, Jules, author (Molière), XVI, a 647, a 648, a 653
Lois Maritimes (Sea Laws), XXI, b 612, a 613
Loi Tinguy (Newspapers), XVII, a 438
Loja mountains (Andes), II, b 17
LOJA or Loxa, town, XIV, a 819
Lo-kao or Chinese green (Dyeing), VII, a 500
Lokapālas (Brahmanism), IV, a 188
LOKEREN, town, XIV, a 819
Loki, god (Æsir), I, *b* 189, a 190; (Baldur), III, *a* 238; (Fire), IX, b 201; (Mythology), XVII, *b* 162; (Nibelungenlied), *b* 487
Lokinga or Mushinga mountains (Zaire), XXIV, b 801
Lökke, Jakob Olaus, grammarian (Norway), XVII, b 606
LOKMÁN, Arabian myth, XIV, a b 819; (Æsop), I, a 191; (Balaam), III, b 224
Lokoja, city (Soudan), XXII, b 292
Lokon mountain (Celebes), V, b 251
Loligidæ, family (Mollusca), XVI, b 695
Loligo, squid (Cuttle-Fish) (Ill.), VI, a b 649, b 651, *b* 652; (Mollusca) (Ill.), XVI, a 677, b 696, b 701; development of (Mollusca) (Ill.), b 708, b 709
Loligopsidæ, family (Mollusca), XVI, b 695
Loligopsis, genus (Mollusca) (Ill.), XVI, b 694, b 695
Lolland, island (Denmark), VII, b 70, *a* b 73
LOLLARDS, sect, XIV, b 819–22; (England, Church of), VIII, a 335; (English Literature), a 367; (Henry IV., V., VI., England), XI, b 588, a b 589; (Lancaster), XIV, a 257; (Oldcastle), XVII, a 775; (Reformation), XX, a *b* 335; (Scotland), XXI, b 512, b 513
Lollards' tower (London), XIV, b 848
Lollius Urbicus, general (Scotland), XXI, b 493
Lolo or Lako tribes (Tibet), XXIII, a b 365
Loma lake (China), V, a 549
Lomas, hills (Peru), XVIII, b 683
Loma Tina, mountain (Hayti), XI, b 485, a 486
Lomazzo, Giovanni Paolo, painter (Schools of Painting), XXI, b 463, a 465 note
LOMBARD, Peter, bishop, XIV, a 822; (Ethics), VIII, a *b* 522; (Sacrament), XXI, a 140; (Scholasticism), *a* b 443, note; (Universities), XXIII, a 890

Lombard Alps, I, b 551, a 552; art (Miniature), XVI, a 458, b 459; communes (Italy), XIII, b 480–1; Crown, VI, a b 547; (Coronation), a 380; dialect (Italy), XIII, a b 503
Lombard History (Paulus Diaconus), XVIII, a 447
Lombard invasion (Italy), XIII, b 456; (Rome), XX, b 800, a b 801, *b* 803; league, 1167 (Frederick I., Emperor), IX, a 642; league, 1226 (Frederick II., Emperor), b 643, a 644; (Italy), XIII, a b 484; (Mantua), XV, b 511
Lombardi, Giovanni Battista, physician (Correggio), VI, a 387
Lombardic writing (Palæography) (Ill.), XVIII, b 159-60
Lombardo, Girolamo, sculptor (Sculpture), XXI, b 596
——, Pietro, architect (Venice), XXIV, a b 168
Lombardo-Venetian kingdom (Italy), XIII, a 496, a b 498
LOMBARDS, XIV, a 822–5
  characteristics of kingdom, b 823–4
  early history, b 822–3
  kingdom of, in Italy, a 823–5
  legends of, b 822, a 824
  overthrow in Italy, a b 825
  relations with the Italians, a b 824

—— (Germany), X, a b 434–5; (Italy), XIII, a 478–9; (Knighthood), XIV, b 113; (Milan), XVI, b 304; (Naples), XVII, a 198; (Paulus Diaconus), XVIII, b 446-7; (Popedom), XIX, b 507, a 508, a 509; (Sicily), XXII, *a* 31; (Roman Law), XX, b 734–5
Lombardy, district (Italy), XIII, b 450, a b 451, b 462, a 463; (Foundling Hospitals), IX, a 426; (Napoleon III.), XVII, b 234; peasantry of (Pellagra), XVIII, b 486, a 488; plains and rivers of (Geology), X, b 245, note
—— Poplar, XIX, b 526; (Arboriculture), II, a 276, a 279
LOMBOK, island, XIV, b 825; (Indian Archipelago), XII, a b 855, note, b 857; strait (Birds), III, a b 640
Lôme, Dupuy de (Aëronautics), I, b 182
Loménie de Brienne, Étienne Charles, cardinal (Marie Antoinette), XV, a 547
Lommel, E., mathematician (Tables), XXIII, b 19; (Wave Theory), XXIV, a 455, a 456, b 468, a 469; his series, b 469
Lomnicky, Simon, poet (Slavs), XXII, a 161
Lomnitz, mount (Carpathian Mountains), V, a 112; (Austria), III, b 100
Lomond, Loch (Climate), VI, a 6; (Dumbarton), VII, b 452; (Lake), XIV, a 218, a b 219, a 220, *a* 221
——, N., mechanician (Telegraph), XXIII, b 120
LOMONOSOFF, Mikhail Vasilievich, author, XIV, a 826; (Poushkin), XIX, b 669; (Russia), XXI, a 114
Lompobattang or Dikbuik, mountain (Celebes), V, a 251
LOMZA, government, XIV, b 823; statistics (Russia), XXI, a 76; town, XIV, b 826
Loncheres, genus (Mammalia), XV, a 422
Londinium (London), XIV, *b* 850, *a* 851
LONDON, city (Plates IX, X) (Ill.), XIV, a 827–62
  administrative history, b 827
  banking, b 841
  boards and vestries, administrative, a b 829
  bridges, a b 832
  charities, a b 843
  commerce, b 838–40
  commercial buildings, a b 841
  communications, internal, b 732-3
  crime, a 843–4
  docks, a 840–1
  drama, b 845–6
  ecclesiastical buildings, a 847–8
  education, a 844–5
  fire department, b 835
  galleries and museums, b 846–7
  HISTORY, a 850–62
    bridge, Roman, a b 852
    Celtic period, a b 850
    eighteenth century, (Plan), a 860–1
    Elizabethan period, b 857–8
    James I., reign of, a 858-9
    London stone, b 852
    monasteries, establishment of, b 855
    nineteenth century, b 861–2
    Norman period, a 854–5
    plague and great fire period, a b 859
    Plantagenet period, a 855–6
    Roman occupation, b 850–2
    Saxon period, b 852–4
    Stuart period, a 858–60
    Tudor period (Ill.), b 856–8
    walls, Roman, a 851–2
  lighting, a 835
  literature, a b 862
  manufactures, b 841–2
  markets, a 837–8
  monuments, b 849–50
  municipal corporation government, a 828–9
  music, a b 846
  palaces and government buildings, b 848–9
  parks and commons, a b 833
  pauperism, b 842–3
  population and growth, b 829–30
  sanitary administration, b 835–6
LONDON, *continued*
  scientific institutions, a b 845
  site, a b 827
  streets, a 831–2
  vital statistics, a 836-7
  water-supply, b 833–4

—— (Alderman), I, b 418; (Abattoir), b 13–4; (Artesian Wells), II, a 565; (Cemetery), V, a 286, a b 287; (Chamberlain), b 329; (Commerce), VI, b 181; (Company), b 198-200; (Conservatory), b 260; (Corporation), b 385; (Court), b 458, a 459; (England), VIII, b 241, b 244; (Filter), IX, a 149; (Fire), a 207; (Fortification), a 412, b 413; (Foundling Hospitals), a 427; (Fur), b 735; (Hygiene), XII, b 600, a 602; (India), b 798; (Libraries), XIV, b 515-7, b 544–5; (Middlesex), XVI, a 291–4; (Public Health), XX, b 101, b 102–3; (Roads and Streets), a b 600, a b 601, a *b* 602; (Tramway), XXIII, a 538, b 539; (Veterinary Science), XXIV, a b 215; (Water-Supply), b 425, *a* 426
London, poem (Johnson, S.), XIII, a 733
——, *Account of* (Pennant), XVIII, b 508
London Architecture, II, b 396, a b 397; (Venice), XXIV, a 168 note
—— Assurance Company (Insurance), XIII, a 187; Bankruptcy Court, *b* 295
—— Bishop of, III, a 684, a 685; (Arches), II, b 331; (Convocation), VI, b 292
—— Bridge (Plate XVIII) (Ill.), IV, a b 297–8, b 300–1, a 308; (London), XIV, b 831, *a* b 832, *a* b 834, a 836, a 837, b 854, a 855, *a* b 861
—— Brokers, IV, b 325; century of dirtiness (Soap), XXII, a 216; charter (Quo Warranto), XX, b 196
—— City and Guilds Institute (Technical Education), XXIII, a 115, a 116, a 117
—— clay (Geology), X, *b* 320–1; (Middlesex), XVI, a 291; (Club), VI, a 40-1; coins (Numismatics), XVII, a 646; colleges (Technical Education), XXIII, a 117
—— Companies for Virginia (Smith), XXII, a 185, *a* 186; (United States), XXIII, a *b* 777
—— conference, 1831 (Palmerston), XVIII, b 199; conference, 1852 (France), IX, b 550; conference, 1867 (Palmerston), XVIII, b 201
London Courant, Daily (Newspapers), XVII, a 426
London, debasement in (Gavarni), X, a 107
—— Docks (Harbors and Docks), XI, b 418, b 419, a 420; drainage (Sewerage), XXI, a b 746, note; early printing at (Typography), XXIII, a 729
—— in eighteenth century (Newspapers), XVII, a 426–7
—— epidemics (Plague), XIX, a b 75–6; (Sweating Sickness), XXII, a *b* 772; gas industry (Gas Lighting), X, a 91
London Gazette (Lloyd's), XIV, *b* 747; (Newspapers), XVII, b 425
London German colony (Hanseatic League), XI, *a b* 402, b 403
——, great fire of, 1666, XIV, b 859; (Fires), IX, b 202; (Wren), XXIV, b 724, a 725
London, Handbook of (Cunningham, P.), VI, a 625; *Journal* (Hunt), XII, b 399
London, lord mayors of (Fabyan), VIII, a 738; court of (Attachment), III, a 46
London Magazine (Hood), XII, b 148; (Lamb), XIV, b 235–6
—— Missionary Society (Burder), IV, b 475; (Missions), XVI, a 538; (Polynesia), XIX, a 441
London News, Illustrated (Newspapers), XVII, a b 430, a 431
London and Northwestern Railway, XX, *a* 233, a b 234, a 235, a 236, a 244, a 245, b 252, 253, b 255, a b 256
——, old dwellings of (Brick), IV, b 249; Periodicals of, XVIII, a 546-9
London Pharmacopœia, XVIII, *b* 744; *Polyglott*, XIX, a 431
London Press Association (Newspapers), XVII, b 423-4
London Review (Mill, James), XVI, b 319; (Molesworth), a 646
—— sextons, enterprise of (Cemetery), V, a 286
—— in sixteenth century (Shakespeare), XXI, b 795
—— and Southwestern Railway, XX, b 234, a 235, b 260; stations (Railway), a 244–5, a 249; (Stock Exchange), XXII, a b 585
—— Stone, XIV, b 848, b 852
London, Survey of, Stow (Brewing), IV, a 237; (Stow), XXII, b 608
—— Theatres (Ill.), XXIII, a b 243 note, b 244, a 245, *b* 247
—— *Times*. See *Times*
—— treaty of, 1827 (Turkey), XXIII, a b 691; University of, XXIII, *a* 910
—— *Weekly News* (Newspapers), XVII, a 422, a 423
LONDON, Canada, town, XIV, a 862–3; (Ontario), XVII, a 797
LONDONDERRY, county, XIV, a 863–4
LONDONDERRY, town, XIV, a b 864; (Ireland), XIII, b 242, a 272, b 274; siege of, 1690 (Hopkins, E.), XII, a 162
—— ore, Nova Scotia (Iron), XIII, a 293
LONDONDERRY, Robert Stewart, marquis of, Lord Castlereagh, statesman, XIV, b 864–7
  Canning connection, a b 865

LONDONDERRY, *continued*
  death and character, b 866
  family and political connections, b 864
  foreign policy of, b 865–6
  Irish administration, b 864–5
  literature on, b 866–7
  Pitt alliance, a 865

——. See Castlereagh
Lone Pine village (California), IV, a 621
Long, Crawford W., physician (Wells), XXIV, a b 890
LONG, George, scholar, XIV, a b 867
——, Roger, astronomer (Globe), X, b 609
——, Stephen H., engineer (Surveys), XXII, b 935; (Steam-Engine), b 923
Long Acre, street (London), XIV, a 842
Long-Beard, William, crusader (England), VIII, a 275
Longberg, Christian, astronomer, XIV, a b 877. See LONGOMONTANUS
LONG BRANCH, seaside resort, XIV, b 867–8
Longchamp, William, bishop (John, England), XIII, a 724
Longet, Col di (Alps), I, a b 548
LONGEVITY, XIV, a 868–70
  animal kingdom, b 868–70
  definitions, a 868
  expectation of life, b 869–70
  human examples, a b 869
  literature, b 870
  plant life, a b 868
  senility, physiology of, a b 870

—— (Elephants), VIII, a 117
LONGFELLOW, Henry Wadsworth, poet, XIV, b 870–4
  culmination of productive life, a b 872
  estimate of, a b 873
  Harvard college period, a 871–2
  last years and friends, b 872–3
  Maine life, b 870–1
  personal qualities, a b 873–4

—— (American Literature), I, b 638, a 641–2, b 644; (Clough), VI, *b* 37; (Crossbill), a 543 note; (Finland), IX, b 191; (Hawthorne), XI, a 480; (Todd), XXIII, a 942
——, Samuel, divine, XIV, a 872
Longfield, Mountifort, judge (Political Economy), XIX, b 390–1
LONGFORD, county, XIV, a b 874
LONGFORD, town, XIV, a 875
Long Friday (Good Friday), X, b 688, note
Longhena, Baldassare, architect (Venice), XXIV, a 161, a 167, a 168
Longhorns (Cattle), V, a 214
Longicornes, beetles (Coleoptera) (Ill.), VI, a b 115, b 116, a 121
Longicornia (Insects), XIII, a 156
Longimana, species (Whale), XXIV, b 557
LONGINUS, philosopher, XIV, a b 875; (Rhetoric), XX, a 529; (Ruhnken), XXI, a 64
—— or Jan Dlugosz, historian (Poland), XIX, b 311
LONG ISLAND (Map), XIV, b 875–6; (New York), XVII, a *b* 463, a b 465; (United States), XXIII, b 840–1; battle of, 1776 (Sullivan), XXII, b 932; (United States), XXIII, a 791
—— Island (Nova Scotia), XVII, a 616
LONG ISLAND CITY, XIV, a 877
—— Island Sound, XIV, b 875; (Oyster), XVIII, a 113, a 114
Longitude (Earth), VII, a b 525; (Geodesy), X, a b 154; (Geography), b 167, *b* 176; (Map), XV, b 523, a 524, a 525; (Mayer), b 655; (Newton), XVII, b 459; co-ordinates, transformation of (Surveying), XXII, a 743; determination of (Geography), X, a b 177; (Navigation), XVII, a b 263, a b 264, a 278–80; (Surveying), XXII, b 749; (Time), XXIII, b 420–3; Greek reckoning (Geography), X, b 158; (Ptolemy), XX, b 97; stations (Surveying), XXII, b 736
——, celestial (Astronomy), II, a 674; lunar (Gravitation), XI, b 68; (Tides), XXIII, a 387–8, b 389–90, b 391–2
Longitudes, Bureau des (Arago), II, a b 264, a b 265; (Paris), XVIII, b 286
——, replacing (Tides), XXIII, b 391–2
Longjumeau, peace of, 1568 (France), IX, b 494
Longland. See Langland
——, John, bishop (England, Church of), VIII, b 335
Long Mynd, hill (Shropshire), XXI, b 886; rocks (Geology), X, b 291
Longobardi, tribe (Hungary), XII, a 382. See LOMBARDS
Longobardian dukes (Ivrea), XIII, b 535
Longolius, Gybertus, naturalist (Ornithology), XVIII, b 7
LONGOMONTANUS or Longberg, Christian, astronomer, XIV, a b 877; (Napier), XVII, a b 189
Long Parliament (Charles I.), V, b 351–3; (Clarendon), b 703; (Cromwell), VI, a 529, a b 530, a 532; (Vane), XXIV, *a* b 72, a 73
—— Pepper, XVIII, b 527
—— period Tides, XXIII, b 383–4, b 386, a 388, a 389, a 391, a 399
—— range, channel (Killarney), XIV, a 78
—— Range, mountains (Newfoundland), XVII, b 391, a 392
Longridge, M., engineer (Steam-Engine), XXII, a 514 note, b 536
—— gun (Gunmaking), XI, a 256; construction of (Strength of Materials), XXII, b 639
Long Serpent, ship (Norway), XVII, b 600–1
Long's Peak (United States), XXIII, a 846
Long-splice (Seamanship), XXI, b 619
Longstreet, James, general (United States), XXIII, *a* 827
Longsword, William, duke of Normandy, XVII, a 554
Longton, town (Stafford), XXII, a 460
Longuerue, Louis du Four de, Abbé, historian (Persia), XVIII, b 609, b 617
LONGUEVILLE, Anne Geneviéve, Duchesse de, XIV, b 877–8; (Condé the Great), VI, a b 219, a 220; (Conti), a b 284; (France), IX, *b* 504; (Turenne), XXIII, a 667
LONGUS, romancer, XIV, b 878; (Greece), XI, b 101; (Romance), XX, b 651
Long-wall working (Coal) (Ill.), VI, a b 61–2
Longwood, house (St. Helena), XXI, a 180
Longwy, town (Meurthe-et-Moselle), XVI, b 212, *a* 213
Loni, river (Rajputâna), XX, a 272
Lonicera, plant (Botany) (Ill.), IV, b 102, a 103; (Honeysuckle), XII, *b* 143
Lonk, sheep (Agriculture), I, a 349
Lönnrot, Elias, philologist (Castren), V, b 174; (Finland), IX, *b* 191; (Sweden), XXII, b 796
Lonsdaleia (Corals), VI, a 338, a *b* 339, b 340, a 341
LONS-LE-SAULNIER, town, XIV, a b 879; (Jura), XIII, b 790, a b 791, b 792
Lónyay, ministry (Hungary), XII, a 389
Loo, game, XV, a 3–4
Loochoo, islands. See LEW CHEW
Loof, mathematician (Tables), XXIII, b 18
Looking-glass. See MIRROR
Lookout mountain (Georgia) X, b 390
LOOM or Loon, bird, XV, a b 4; (Grebe), XI, b 72
Loom, machine (Italy), XIII, a b 463; (Linen Manufacture), XIV, b 673; (Net), XVII, b 368–9; (Ribbon), XX, b 546; (Weaving), XXIV, *b* 489; Greek (Textiles) (Ill.), XXIII, b 223–4; Indian (Cotton), VI, b 432; (Textiles) (Ill), XXIII, b 228; mediæval (Textiles) (Ill.), b 224; power (Cartwright), V, a 145; silk-weaving (Jacquard), XIII, a b 549; (Weaving) (Ill.), XXIV, a b 491–2
Loomeries, nesting places (Loom), XV, b 4
Loomis, Elias, *b.* 1811, *d.* 1889 (Astronomy), II, a b 688, a b 720; (Aurora), III, a 84, a b 85, b 86; (Meteorology), XVI, b 119, b 135, a 145, a 176, b 182, b 184, a b 185; (Signal Service), XXII, a 904; (United States), XXIII, b 855, a b 858
Loon, bird. See LOOM
Loop of a curve (Infinitesimal Calculus), XIII, a 56
Loop test for faults (Telegraph), XXIII, a 128
Loosjes, Adrian, novelist (Holland), XII, b 100
Loots, Cornelis, poet (Holland), XII, b 100
Lop, desert of (Polo), XIX, a 419. See Lob-Nor
Lope de Rueda, actor (Cervantes), V, a 302; (Drama), VII, b 363 .
Lope de Vega Carpio, poet. See VEGA CARPIO
Lopes, Duarte, traveller (Geography), X, b 163
Lopes, Fernao, chronicler (Castro), V, *b* 176; (Portugal), XIX, b 571
Lopevi, volcano (New Hebrides), XVII, a 405
Lopez, island (San Juan), XXI, a 279
LOPEZ, Carlos Antonio, dictator, XV, b 4; (Argentine Republic), II, a b 433; (Paraguay), XVIII, a b 249
——, Fernandez, navigator (St. Helena), XXI, a 180
LOPEZ, Francisco Solano, dictator, XV, b 4–5; (Brazil), IV, a b 210; (Paraguay), XVIII, a b 249
——, Narciso, insurgent (Cuba), VI, b 600
—— de Hoyos, humanist (Cervantes), V, a b 302
—— de Segura, Ruy (Chess), V, a 522, a 524
Lophiodon, fossil ungulate (Mammalia), XV, *a* 434
Lophiomys, rodent (Mammalia) (Ill.), XV, a 365, a 422, b 423
Lophius, genus (Fishing-Frog) (Ill.), IX, a b 235
Lophobranchii, order (Ichthyology), XII, a 672, b 694, b 695, b 698, a 699, a b 716, a b 718, b 720, a 733; (Hippocampus), XI, *a* 761
Lopholatilus, fish (Smithsonian), XXII, a 916
Lophomonadina, class (Protozoa) (Ill.), XIX, a 882, a 883
Lophomonas, genus (Protozoa) (Ill.), XIX, a 882, b 887
Lophophore (Polyzoa) (Ill.), XIX, *a* 446, a 448, a b 449, *a* 451, b 452, *a* 454, b 455
Lophopus, genus (Polyzoa) (Ill.), XIX, a 446, *b* 451
Lophotes, genus (Ichthyology), XII, a 723, b 729
Lophyropoda, class (Crustacea), VI, a 579, b 587–8
Lophyrus, genus (Saw Flies), XXI, b 358
Lopuri, river (Zaire), XXIV, b 802
Lora, river (Afghânistân), I, a 206; (Quetta), XX, b 184
Loranthaceæ, order of plants (Parasitism), XVIII, a 270
LORCA, town, XV, a b 5
Lord (Titles of Honor), XXIII, a 445

Lord Admiral or Lord High Admiral, I, a b 142, a b 143; (Admiralty), b 144, a 145, a *b* 146; his Company, actors (Drama), VII, b 370, a 371; (Jonson), XIII, b 751
—— Advocate, I, a 162
—— Almoner, I, a 524
—— Bros. opener (Cotton), VI, b 435–6
—— Chamberlain, V, b 329; (Royal Household), XXI, b 42–3; (Theatre), XXIII, b 246, b 247; his Company, actors (Drama), VII, b 370, a 371; (Jonson), XIII, *a* 752
—— Chancellor or Lord High Chancellor, V, a b 337; (Charities), *b* 348; (Ministry), XVI, b 495; (State, Great Officers of), XXII, *b* 475; list of (England), VIII, a 329–30
Lord Chancellors, Lives of the (Campbell), IV, b 670; (Eldon), VII, b 719, b 720
—— Chief Justice, XIII, a 798; (Coroner), VI, b 381
"—— Fanny" (Hervey, John), XI, a 692
—— Great Chamberlain, V, b 329; (State, Great Officers of), XXII, *b* 475, a b 476
—— High Constable, VI, a 263; (State, Great Officers of), XXII, *b* 475, a b 476–7
—— High Steward (State, Great Officers of), XXII, *b* 475, a b 476
—— of the Isles (Hebrides), XI, a b 542; (Islay), XIII, b 397
—— Keeper of the great seal (Chancellor), V, a b 337. See Lord Chancellor
—— lieutenant (County), VI, b 455; (Scotland), XXI, b 560; of Ireland (Knighthood), XIV, a 126
—— of the manor (Copyhold), VI, b 315–6
Lord of the Manor, opera (Jackson, W.), XIII, b 545
—— of Misrule (Christmas), V, b 611
—— President of council (Ministry), XVI, b 495; (State, Great Officers of), XXII, *b* 475
—— Privy Seal (State, Great Officers of), XXII, *b* 475
Lord's park (London), XIV, b 833
Lords, creation of (Parliament), XVIII, a 316
——, House of (Grey), XI, a b 171; (Ministry), XVI, b 495, b 496; (Monk), b 779; (Parliament), XVIII, b 312, b 313, a 314, b 315, a b 316. See House of Lords
—— of appeal (Judicature), XIII, a 775
—— of the Articles (Scotland), XXI, b 532, b 534, a 535, b 537, a 538, a 539, a 540
—— of the Congregation (Presbyterianism), XIX, a 699
—— of the marches (Monmouth), XVI, a 781
Lord's day (Sunday), XXII, b 687–91
—— island (Cumberland), VI, b 617
—— prayer (Gospels), X, a 710–5; (Goths), b 757; Aztec (Alphabet), I, a 530; *Exposition of* (Luther), XV, b 74; versions of (Germany), X, b 463, note; of Moslems (Mohammedanism), XVI, a 625
Lords spiritual (Parliament), XVIII, b 312, b 316; (Peerage), a 469, a b 470, b 473, a 476, a 477
Lord's supper (Corporation), VI, a 385; (Knox), XIV, *a* 132; (Methodism), XVI, *b* 194, b 196; (Paul), XVIII, b 439. See EUCHARIST and Sacrament
Lord treasurer (State, Great Officers of), XXII, b 475
Loredano, Doge, portrait (Schools of Painting), XXI, b 454
Lorenz, physicist (Electricity), VIII, *b* 97
——, Ludwig Ritter, naturalist (Trematoda), XXIII, b 571, a 574, a 575
——, O., historian (Winkelried), XXIV, b 645
Lorenzetti, Ambrogio, painter (Schools of Painting), XXI, b 451–2, a 462
Lorenzo, St. See LAWRENCE, ST.
——, Florenzo di, painter (Schools of Painting) (Ill.), XXI, a *b* 453, b 462, a 465
—— di Credi, painter (Leonardo da Vinci), XIV, b 456, a 457 note
LORENZO MARQUES, town, XV, b 5; (Delagoa Bay), VII, *b* 36; (Mozambique), XVII, *a b* 13, note
LORETO, city, XV, b 5–6; (Crashaw), VI, a 420; (Pilgrimage), XIX, b 103
Loret's Gazette (Newspapers), XVII, a 435
Loretto, town (California), IV, b 615
Lorgna, Antonio Maria, geometer (Bernoulli), III, b 524
——, Chevalier (Encaustic Painting), VIII, a b 170
Lorgna's projection (Geography), X, b 179
Loria, city (Lauria), XIV, b 350
Loricaria, genus (Siluridæ) (Ill.), XXII, b 75, a 76
Loricata, division (Protozoa), XIX, a 883; (Rotifera), XXI, a 12
Loricula, genus (Crustacea), VI, b 589
LORIENT, town, XV, a b 6
Lorikeets, birds (Lory), XV, a b 9
Lorillard, town (Yucatan), XXIV, b 796, *a* 797
Lorimer, William, biographer (Knox), XIV, *a* 132
——, jurist (Pufendorf), XX, b 105, a 106
Loring, Charles H., engineer (Steam-Engine), XXII, a 507, note, a 514 note
Loris, mammal (Lemur) (Ill.), XIV, b 443–4
Lorius, genus (Lory), XV, a b 9
Lorme, Jean Louis de, publisher (Hardouin), XI, b 424
Lorn, district (Argyllshire), II, a 439; (Hebrides), XI, b 542
"Lorna," yawl (Yachting), XXIV, a b 760
LORRAINE, province, XV, b 6–9; (Alsace), I, b 560; (Anjou, René duc d'), II, a 53; (France), IX, b 471; (Guise), XI, b 235–6; (Henry, I., Emperor), a 594; (Holland), XII, b 73; (Metz), XVI, a 211; (Otho II.), XVIII, a 70; duchies of (Prussia), XX, a b 26; history of (Germany), X, a b 431, a *b* 432, a b 433, a *b* 434, a *b* 435, *b* 436, a 437, b 441, b 450, b 459, a 461
——, Charles of, cardinal (France), IX, a b 493, b 495; (Guise), XI, a *b* 236
——, Claude of, painter. See CLAUDE of Lorraine
——, Claude of, XIV, b 8; (Guise), XI, b 235, a b 236
——, Conrad, duke of (Germany), X, b 433, *a b* 434
——, Francis of. See FRANCIS I., emperor
——, John, cardinal (Guise), XI, a 236
——, Leopold I., duke of (Pisa), XIX, b 130
Lorris, William of, poet. See WILLIAM of Lorris
LORY, bird, XV, a b 9; (Parrot), XVIII, a 328; (Touraco), XXIII, b 518
Los, islands (Senegambia), XXI, a 694, a 695; (Sierra Leone), XXII, a b 50
LOS ALAMOS, town, I, a 391
Los Andes, state (Venezuela), XXIV, *a* b 152
LOS ANGELES, city, XV, b 9; county (California), IV, b 618, b 624, b 625
Loschmidt, chemist (Diffusion), VII, b 186, a 188, note; on molecules (Atom), III, *b* 37
Loseby's compensation balance (Watch), XXIV, b 417
Loss, adjustment of (Insurance), XIII, b 171, a 193–4; distribution of fire (Insurance), a b 169, b 170, b 171–2, a 173
Lossie river (Elgin), VIII, *b* 121, *a b* 122
Lost goods, appropriation of (Theft), XXIII, b 251
Lost Illusions (Gleyre), X, b 605
Lost Lover (Manley), XV, a 499
LOT, department, XV, a b 10; river (France), IX, b 457; (Lot), XV, a 10; (Lozère), *a* 33
LOT, patriarch, XV, b 9–10; (Abraham), I, a *b* 54, a 55; (Moab), XVI, b 558
Lota, bowl (India), XII, b 801
LOT-ET-GARONNE, department, XV, b 10–11
Loth, weight (Weights and Measures), XXIV, b 517, b 518
LOTHAIR I., emperor, XV, a 11; (Eugenius II.), VIII, b 581; (France), IX, a b 471; (Germany), X, *a* b 431; (Holland), XII, a 73; (Popedom), XIX, a b 511; (Seals), XXI, a 614
—— II., king, Lorraine, XV, b 6; (Germany), X, b 431; (Nicholas I.), XVII, b 496–7
LOTHAIR III., the Saxon, emperor, XV, a b 11; (Germany), X, *a* 439; (Hanover), XI, b 399; (Innocent II.), XIII, b 89; (Italy), a 483; (Popedom), XIX, b 514; (Saxony), XXI, b 367
——, king of France, IX, a 473; (Germany), X, b 435
—— or Hlothar I., king of Franks (France), IX, a b 468
—— II., king (France), IX, b 468
Lothaire, sages of (Rashi), XX, *b* 296
Lotharingia, duchy. See LORRAINE
Lotharingian synod (Hincmar), XI, a 747
Lothario, rake (Rowe), XXI, b 34
Lothbury, street (London), XIV, b 831
LOTHIAN, county, XV, b 11–2; (Northumberland), XVII, a b 584, a 585; kingdom (Scotland), XXI, *a* b 500, b 501, a 502, *a* b 503, b 505
——, East (Agriculture), I, b 268–9; (Haddington), XI, b 322–4
Lothrop, Amy, pseudonym (Warner, S.), XXIV, a 884
Lo-ting, district (China), V, b 555
Lots (Magic), XV, b 204
—— casting (Divination), VII, b 254
LOTTERIES, XV, b 12–3; (Finance), XI, a 159; (Saxony), XXI, a 375; (Tontine), XXIII, b 472; loans (National Debt), XVII, a 251
Lotto, Lorenzo, painter (Schools of Painting), XXI, a 455, b 462, a b 465, b 467
Lotus, plant (Egypt), VII, a b 616; (Nettle Tree), XVII, a 370
—— capital (Architecture), II, b 342
LOTUS-EATERS, tribe, XV, b 13
—— -Eaters' island (Gerba), X, b 397
Lotz, Johann Friedrich Eusebius (Political Economy), XIX, a 401
LOTZE, Rudolph Hermann, philosopher, XV, b 13–7
  anthropological method, a b 15
  critical views of, b 15–7
  education, b 13–4
  historical position of, b 16–7
  metaphysics of, a b 16
  methods, a 14–5

—— (Æsthetics), I, b 201; (Evolution), VIII, a b 672; (Fine Arts), IX, b 175, a 183; (Logic), XIV, a b 806, note, b 807, a 810 note; (Psychology), XX, a 59, a 66 note, b 84, b 90; (Scepticism), XXI, *b* 400
Loubere, missionary (Aëronautics), I, a 181
Loudon, Gédéon Ernest, marshal (Austria), III, a *b* 112

Loudon, John, earl, chancellor (Scotland), XXI, *a* 534
Loudun, town, XV, a 17
Loue, river (Jura), XIII, b 790, a *b* 791, a 792
Lough Beg (Antrim), II, a 125
Loughborough, town, XV, a b 17
Lough Cé, Annals of (Ireland), XIII, b 264, a b 265
—— Derg (Clare), V, b 701
—— Foyle. See Loch Foyle
—— Leighs or Lough-Leighaghs (Cavan), V, b 229
—— Mourne (Carrickfergus), V, a 121
—— Neagh (Antrim), II, b 124, *a b* 125, a 126; (Ireland), XIII, b 222, a b 223; (Londonderry), XIV, *a* 863
—— Neagh (Tyrone), XXIII, *b* 759
—— Oughter (Cavan), V, b 229
Loughrea, village (Galway), X, *b*, 51, *a* 52
Lough Tea (Tyrone), XXIII, b 759
Louis, town (Gaboon), X, *a* 5
Louis I., le Débonnaire emperor, XV, b 17–8; (Diplomatics), VII, b 221; (Eginhard), *b* 605; (France), IX, a 471; (Germany), X, a 431; (Hincmar), XI, b 746; (Spain), XXII, a 326; (Soissons), *b* 260, a 261; (Toulouse), XXIII, b 516
Louis II., emperor, XV, a 18; (Germany), X, b 431; (Nicholas I.), XVII, b 496, *a* 497
Louis III., the Blind, emperor, XV, a 18
—— IV., the Child, emperor, XV, a b 18; (Germany), X, a *b* 432
Louis IV. or V., the Bavarian, emperor, XV, b 18; (Charles IV.), V, a 358; (France), IX, a *b* 471; (Germany), X, a 443–4; (Italy), XIII, b 487; (John XXII., Pope), *a* 723; (Occam), XVII; (Palatinate), XVIII, a 171; (Rome), XX, *b* 816–17; (Switzerland), XXII, *b* 821, a 822
Louis the German, king, XV, b 18–9; (Charles I.), V, b 354–5; (Germany), X, *a b* 431; (Holland), XII, b 73; (Switzerland), XXII, a 820
Louis I. or Ludwig, king, Bavaria, III, b 392; (Görres), X, *b* 699; (Maurer), XV, *a* 643; (Munich), XVII, a 30, a 32, a 33
—— II. or Ludwig, king (Bavaria), III, b 392–3; (Wagner), XXIV, b 336
—— I., duke of Bavaria (Palatinate), XVIII, a 171
—— I., France. See Louis I., Emperor
Louis II., France, the Stammerer, XV, a 19; (France), IX, b 472
Louis III., France, king, XV, a 19
Louis IV., France, D'Outremer, XV, a b 19; (France), IX, a 473; (Germany), X, a 434; (Normandy), XVII, *b* 554
Louis V., France, le Fainéant, XV, b 19
Louis VI., France, the Bruiser, XV, b 19; (France), IX, b 475–6; (Henry I., England), XI, a b 585; (Seals), XXI, a 614
Louis VII., France, the Young, XV, b 19; (Eleanor), VIII, *a* 3; (France), IX, b 476–7; (Henry II., England), XI, *a b* 586; (Heraldry), b 608; (Paris), XVIII, b 293; (Seals), XXI, a 614; (Templars), XXIII, *a b* 176
Louis VIII., France, the Lion, XV, b 19–20; (France), IX, b 478; (Henry III., England), XI, a 587; (John, England), XIII, a 725
Louis IX., St., France, XV, a 20; (Carmelites), V, a 103; (Charles of Anjou), *b* 366; (Crusades), VI, *a* b 557; (Damietta), b 699; (Egypt), VII, *a* b 655; (France), IX, b 478–80; (Henry III., England), XI, a 588; (Inquisition), XIII, a 99; (Joinville), a 744, a b 745; (Money), XVI, b 753; (Monreale), b 786; (Paris), XVIII, b 294; (Rubruquis), XXI, a b 52; (Sens), b 697; (Sword), XXII, a 840; (Templars), XXIII, a b 178, a 179; (Tunis), a 661; (Universities), a 894
Louis X., France, the Quarreller, XV, a 20; (France), IX, a 481; (Paris), XVIII, b 295
Louis XI., France, le Hutin, XV, a 20; (Charles the Bold), V, b 367, *a b* 368; (Comines), VI, *a* 174; (Edward IV.), VII, a b 594; (France), IX, b 486–8, a 571; (Francis of Paola), b 612; (Paris), XVIII, b 295; (Péronne), a 564; (Pius II.), XIX, a 163; (Popedom), b 517; (Roussillon), XXI, b 33–4; (Spain), XXII, *b* 339, a 340; (Switzerland), *b* 825, *a b* 826
Louis XII., France, XV, a 20; (Caricature), V, a 92; (D'Amboise), VI, a 699; (Ferdinand V.), IX, a b 72; (France), IX, a 489–90; (Italy), XIII, b 491; (Julius), *b* 781; (Leonardo), XIV, a 459; (Paris), XVIII, b 296; (Popedom), XIX, b 517; (Reformation), XX, b 336–7; (Switzerland), XXII, *a* 828
Louis XIII., France, XV, a b 20; (Callot), IV, b 628; (France), IX, b 499–503; (Mazarin), XV, b 658; (Medici), b 802; (Paris), XVIII, b 297; (Pau), b 425; (Provence), XIX, a 904; (Sanson), XXI, a 309; (Syra), XXII, a 852; (Versailles), XXIV, b 192
Louis XIV., France, Le Grand, XV, b 20; (Alsace), I, b 560; (Army), II, a b 525, a 528; (Artillery), b 574; (Austria), III, a b 110; (Balance of Power), *b* 232; (Bossuet), IV, b 62, a b 63; (Bourdaloue), a 159; (Camisards), a 657, b 658–9; (Colbert), VI, a 111; (Concordat), a 215; (Condé the Great), b 219–20; (Corneille), *b* 370; (De Witt), VII, *b* 125; (Dubois), b 434; (Dufresny), b 445; (Eugene, Prince), VIII, a b 579; (Fenelon), IX, b 64, a b 65; (Fortification), a 390; (Fouquet), b 430–1; (France), a 503, *a b* 505–14, a 581; (Franche Comté), a 606; (Frederick William), *b* 645, a 646; (Gendarmerie), X, a 127; (Germany), a b 450; (Girardon), *a* 555; (Globe), b 609
—— (Holland), XII, *b* 83–4; (Huguenots), a 353; (Iron Mask), XIII, *a* 371; (James II., England), a 570; (Jesuits), *b* 664; (Knighthood), XIV, a 123, note; (Le Brun), b 396; (Leibnitz), b 418, a 419; (Leopold I.), *b* 466, *a* 467; (Lettres de Cachet), a 484; (Libraries), a 524; (Lorraine), XV, b 8; (Lotteries), b 12; (Louvois), b 28–9; (Maintenon), a b 307; (Marlborough), b 560, a b 561; (Marly-le-Roi), a 565; (Mascaron), b 614; (Massillon), *b* 624; (Mazarin), a 660; (Meulon), XVI, a 212; (Molière), a b 650, a b 651, a 652; (Molinos), a 654; (Montpensier), b 819
—— (Orleans), XVII, b 876; *a* 877; (Paris), XVIII, b 297, a 298, a 299; (Philip V.), a 760; (Poland), XIX, a b 308; (Popedom), b 520, a 521; (Port Royal), b 548; (Portugal), a b 564; (Pottery and Porcelain), a 657; (Racine), XX, a b 211, *b* 214, *a* b 215; (St. Germain-en-Laye), XXI, a 179; (Saint Simon), *a* 209; (Spain). XXII, *a b* 347, b 348, *a b* 349, *a b* 350, b 360; (Switzerland), *b* 830; (Temple), XXIII, *b* 187–8; (Trappists), a 557; (Turenne), a 667; (Turgot), b 669; (Versailles), XXIV, *a b* 191, a *b* 192; (William III.), *b* 610, a b 611, a 612; age of (History), XII, a 23, a b 24; reign of (Drama), VII, *a* b 367
Louis XV., France, XV, b 20; (Damiens), VI, b 699; (Denon), VII, a 83; (Du Barry), b 426; (France), IX, b 515; (La Chalotais), XIV, b 192–3; (Paris), XVIII, a b 298, a 299; (Plate), XIX, a 194; (Pompadour), a b 458, a 459; (Versailles), XXIV, b 191, *b* 192
Louis XVI., France, XV, b 20; (Chouans), V, b 596; (David, J. L.), VI, b 741; (Drouet), VII, b 408; (England), VIII, b 322; (Fersen), IX, b 98; (France), a 523–32; (Gibbon), X, a 520; (Goldoni), b 676; (Huguenots), XII, b 353; (Malesherbes), XV, b 335, a 336; (Marat), b 534; (Marie Antoinette), a *b* 547; (Maury, J. S.), a 649; (Necker), XVII, b 321–2; (Orleans), *a* 878; (Paris), XVIII, a 298; (Talleyrand), XXIII, b 35, a 36; (Turgot), a 669; (Vergniaud), XXIV, *a* b 179; (Versailles), *a* b 192; his Globe, X, b 609; his trial (Cambacérès), IV, a 639; (Robespierre), XX, b 618
—— XVII., France, XV, b 20; (Williams, E.), XXIV, a 899
Louis XVIII., France, XV, b 20–1; (Chateaubriand), V, a 379; (Cousin), VI, b 463; (Ferdinand VII.), IX, b 73, a 74; (France), a 536, a 544, *a* 545; (Guizot), XI, a b 238; (Institute of France), XIII, b 167; (Napoleon I.), XVII, a b 229; (Paris), XVIII, a 299; (St. Denis), XXI, *a* 170; (Saintonge), b 197; (Talleyrand), XXIII, a 37; (Turgot), 669; (Wellington), XXIV, b 524, *a* b 525
—— II., king of Germany, X, a 432
—— I., the Great, Hungary, (Galicia), X, *b* 24; (Hungary), XII, a 383; (Poland), XIX, a b 300; (Universities), XXIII, b 895
—— II., king (Hungary), XII, b 383
——, Baden, prince, general (France), IX, *a b* 512
—— or Luis Don, prince (Spain), XXII, b 351–2
—— I. and II., Brandenburg, electors (Prussia), XX, a 7
—— I., grand duke (Hesse-Darmstadt), XI, a b 697
—— of Nassau, duke (Holland), XII, a *b* 78
—— of Orange, prince (William the Silent), XXIV, a 615
—— of Savoy, duke (Geneva), X, a 134; (Savoy), XXI, b 356
—— the Springer, chief baron (Thuringia), XXIII, a 353
—— of Châtillon, count (Soissons), XXII, a 261
——, count of Flanders (Artevelde), II, *b* 565
—— IV., Thuringia, landgrave (Elizabeth, St.), VIII, a 135
——, Antoine, surgeon (Medical Jurisprudence), XV, *b* 793; (Medicine), b 825
Louisa Henrietta, electress (Frederick William), IX, a 646; (Hymns), XII, b 621
Louisa, Mecklenburg-Strelitz, queen of Prussia, XV, a b 21; (Frederick William III.), IX, b 650; (Rauch), XX, *a* 307
Louis Bonaparte, king, Holland (Hortense), XII, a b 214
Louisburg, town (Cape Breton), V, *a* 37; capture of, 1758 (United States), XXIII, a 782, a 783; (Wolfe), XXIV, a 664

Louise of Savoy, queen (France), IX, b 490
— Charlotte, czarina (Nicholas I.), XVII, b 498
— Marie of Nevers, queen (Poland), XIX, b 306, a 307
Louisette (Guillotine), XI, a 234
LOUISIANA, state (Plate I), XV, b 21–4
  history, b 21–2
  industrial features, b 22–3
  physical features, b 21–2
  political features, a b 23
— (Livingston), XIV, *a* 726; (Mississippi), XVI, a -b 543; (Mobile), b 563; (Salt), XXI, a 220; (Slavery), XXII, *b* 907; (Universities), XXIII, a 913, a b 954, a 961; history (United States), a 808, a 809, b 811, b 813, a 818, b 821, *b* 826, b 829, b 832, a 833; statistics (United States), b 853, b 860, a 863, b 873, *a* 878, a 882
—, laws of (Code), VI, b 96; (Limitations), XIV, b 657; (Novation), XVII, a 619; (Obligation), b 724; (Partnership), XVIII, b 337; (Prescription), XIX, a 725; (Press Laws), b 731; (Sale), XXI, a 220; (Sedition), a 651; (Treasure Trove), XXIII, b 563; (Wills), XXIV, *b* 605
— purchase (Georgia), X, a 394; (Jefferson), XIII, a 627; (Monroe), XVI, b 787; (United States), XXIII, a b 806
— territory (Mississippi), XVI, a 547; (Missouri), b 550; (Montana), a 800; (United States), XXIII, a 783; cessions of (St. Louis), XXI, a 195
—, Upper (Minnesota), XVI, a 500
LOUIS PHILIPPE, king of the French, XV, a 21; (Broglie), IV, *b* 324; (Cousin), VI, b 464, a 465; (Fieschi), IX, a b 129; (France), a 546–7; (Guizot), XI, a 239 41; (Napoleon III.), XVII, a *b* 233; (Neuilly-sur-Seine), b 371; (Nicholas I.), a 499; (Paris), XVIII, a b 299; (Palmerston), b 198, b 199; (Talleyrand), XXIII, b 37; (Versailles), XXIV, a 191, b 192
LOUISVILLE, Kentucky, city (Plan), XV, b 24–5; (Artesian Wells), II, a b 565
LOULÉ, town, XV, b 25, a 26
Loup, river (Nebraska), XVII, b 316, b 317
—, St., bishop (Troyes), XXIII, b 627
—, Collin le, ironmaster (Spa), XXII, b 306
Loup-garou, were-wolf (Lycanthropy), XV, a b 90
LOURDES, town, XV, a 26; (Pyrénées), XX, a *b* 133
LOUSE, insect, XV, a 26–7; (Bee), III, a 430; (Insects), XIII, a 149, a 159, a 160; (Skin Diseases), XXII, b 131
LOUTH, county, XV, a b 27
LOUTH, town, XV, b 27
—, John de Birmingham, earl of (Ireland), XIII, b 266
Loutherbourg, painter. See DE LOUTHERBOURG
LOUVAIN, town, XV, a 28; (Jansenism), XIII, *a* 576; (Massys), XV, *b* 626; University, XXIII, b 896 7, a 901; (Libraries), XIV, a 531
L'Ouverture, Toussaint, liberator. See TOUSSAINT
LOUVIERS, town, XV, a b 28
LOUVOIS, François Michel le Tellier, Marquis de, statesman, XV, b 28–9; (Army), II, *a* 525; (Camisards), IV, a b 657; (Colbert), VI, a 112; (France), IX, a 506, a 507, *a* 508
Louvre in Architecture, II, b 410
— palace, Paris (Architecture), II, b 349, b 386; (Colbert), VI, a 112; (France), IX, a 507; (Paris), XVIII, b 280–1, a 287, a 294, b 295, b 296, a b 297, a 298, b 299; gallery (Cimabue), V, b 680; (Géricault), X, a 399; (Goujon), XI, b 4–5; (Greuze), b 168; (Gros), b 185, a 186; (Heim), a 558; (Huysum), XII, b 433, a 434; (Jouvenet), XIII, a 765; (Leonardo), XIV, b 461; (Metsu), XVI, a b 207; (Meulen), b 212; (Michel Angelo), a 241; (Nain, Le), XVII, a 173; (Ostade), XVIII, a 62, b 63; (Poussin), XIX, *a* 670; (Prud'hon), XX, *b* 5; (Puget), *b* 107; (Rosa), *a* 870; (Sarto), XXI, *a* 331; (Sculpture), *b* 589, b 590 note; (Schools of Painting), a 466; (Sueur), XXII, *b* 652; (Teniers), XXIII, *a* 191; (Terra-Cotta), *a* 208, note, b 209, a b 210, *a* 211, a b 212; (Titian), a 443, a b 444; (Transverse Flute), b 552 note; (Velazquez), XXIV, a 145, b 147; (Veronese), b 188; (Watteau), b 436; manuscripts (Palæography), XVIII, a b 150, a 151, a 153; museum (Archæology), II, *b* 311, b 315; (Filigree), IX, *b* 143, b 144; (Gems), X, a 123; (Plate), XIX, b 189
Lovat river (Pskoff), XX, a *b* 40; (Russia), XXI, a b 80
LOVAT, Simon Fraser, Baron, Jacobite, XV, a 29–30; (Scotland), XXI, a 542; (Treason), XXIII, a 561
Love (Aphrodite), II, a b 151; (Buddhism), IV, a 384; (Ethics), VIII, b 519 20; (Fine Arts), IX, a 172; (John, Epistles of), XIII, b 719; (Plato), XIX, a b 212, b 213; of God Malebranche on (Cartesianism), V, a b 132; Spinoza on (Cartesianism), a b 139
Love, Sacred and Profane, Titian (Schools of Painting) (Ill.), XXI, a 455, a 467
—, statues of (Thespiæ), XXIII, b 317
— apple. See Tomato
Love Asserted (Dennis), VII, b 82
LOVE-BIRD, XV, a 30
Love-feasts (Agape), I, a 245; (Hymns), XII, b 613; (Methodism), XVI, a 196, b 200
Love for Love (Congreve), VI, a 241; (Vanbrugh), XXIV, *b* 62
Love in a Wood, comedy (Wycherley), XXIV, b 741–2, b 743
Lovejoy, Elijah P., abolitionist (Slavery), XXII, a b 909
LOVELACE, Richard, poet, XV, a b 30
Lovell, Lord, insurrection of (England), VIII, a 295
—, Joseph, surgeon (Signal Service), XXII, b 903
Lovel the Widower (Thackeray), XXIII, b 234
Loven, biologist (Echinodermata), VII, b 545, b 555
—, geologist (Spitzbergen), XXII, b 125
Love par amours (Knighthood), XIV, a 119 note
— poetry (Roman Literature), XX, a 741; mediæval (Italy), XIII, a 510, b 512, a b 514, a 516; (Provençal Literature), XIX, a b 898, a 899
— potion (Gottfried), X, a 759; (Romance), XX, b 663
LOVER, Samuel, novelist, XV, b 30–1; (Poetry), XIX, b 284–5
Lover of Lying (Lucian), XV, a b 46
Lover's Melancholy (Ford, J.), IX, a b 347
Lovers of Teruel, XXIII, a 216
Love's Labor's Lost, play (Florio), IX, b 299; (Shakespeare), XXI, a 786, a 791, a 793, a b 799, a 805
Loves of the Angels, poem (Moore), XVI, b 833, 834
— *of Clitophon and Leucippe* (Achilles Tatius), I, a 90; (Romance), XX, b 651
— *of Erogelos and Erasmia* (Greece), XI, b 134
Love-stories, Greek (Romance), XX, b 650–52
Love Tricks (Shirley), XXI, b 868
Lovett, Beresford, major (Persia), XVIII, a b 634, a b 635
Low archipelago (Pacific Ocean), XVIII, b 132; (Tahiti), XXIII, a b 27; (Tuamotu), b 639 note
—, David (Agriculture), I, b 272
—, James, orientalist (Siam), XXI, *b* 895, a b 896
— Countries. See HOLLAND
Low-Dutch, language (England), VIII, b 242; (Holland), XII, a 87–93
Lowdham of Oxford, physician (Surgery), XXII, b 710
Lowe, Sir Hudson, gaoler (Napoleon I.), XVII, a 232
—, Robert, on suspension of bank Act (Banking), III, b 281
Loweite (Mineralogy), XVI, a 419
LOWELL, city, XV, a b 31
—, James Russell, poet, (American Literature), I, a b 638, a 639, b 643–4; (De Quincey), VII, a 91; (Longfellow), XIV, b 871, b 873; (Satire), XXI, b 335
Lowell Offering (Lowell), XV, b 31; (Periodicals), XVIII, a 556
Löwenburg. See LEMBERG
Löwenhaupt, Adam Louis, count (Russia), XXI, b 105
Löwenstern, statesman (Hymns), XII, a 621
Löwenthal, J., player (Chess), V, b 522, *a* 523, a 524
Löwenthal's tannin test (Leather), XIV, a 383
Lower, Mark Antony, antiquary (Sussex), XXII, *b* 763
Lower, Richard, surgeon (Anatomy), I, a b 711; (Vascular System), XXIV, *a* 105
— Bann river (Londonderry), XIV, *a* b 863
— California. See California, Lower
— Canada, IV, b 675–6, b 685, b 687, a 689. See QUEBEC
Lowertz, lake of (Lucerne), XV, a 43
LOWESTOFT, town, XV, b 31–2
Lowestoft, town (Suffolk), XXII, *b* 654
Low-German (Europe), VIII, a 615; (Germany), X, a b 462, a b 464, a 465
LOWICZ, town, XV, a 32; (Warsaw), XXIV, b 395
Lowlands of Scotland, XXI, a b 546, a 549, a 550, b 553, b 556, b 557
— of Siberia, XXII, b 7–8
Low Latin (Romance Languages), XX, a 684–5
— Moor (Coal), VI, a 49; (North Bierley), XVII, a 572
Lowndes, W. T., Bibliographer, III, b 571
Lowne, B. T. (Mimicry), XVI, b 356
LOWTH, Robert, bishop, XV, a b 32; (Canticles), V, b 30, *a* 31; (Michaelis), XVI, a 237
Lowther, family (Whitehaven), XXIV, b 583
Low-water computation (Tides), XXIII, b 393; observations (Tides), a b 394
Low wines (Distillation), VII, b 230
Loxa, town. See LOJA
— bark, drug (Cinchona), V, a 683
Loxia, genus (Crossbill), VI, b 542–3; (Grosbeak), XI, *a* b 186, note; (Weaver Bird), XXIV, a 489, note
Loxodon, genus (Mammalia), XV, b 430, a 431
Loxodromic charts (Map), XV, *b* 525; curve (Geography), X, b 186
Loxosoma, genus (Polyzoa), XIX, a 444 note, a 445, a 447, a b 449, b 450, a 451, *a b* 453, b 455

Loy of Whitby, physician (Vaccination), XXIV, b 29
LOYALTY ISLANDS, XV, b 32; (Polynesia), XIX, b 434, b 436, a 441
Loyang, town (Bridges), IV, b 299; (China), V, b 559, a *b* 560, b 562; (Chinchew), a 585
LOYOLA, Ignatius de, St., XV, b 32; (Illuminati), XII, a 745; (Jesuits), XIII, a b 657–8, *b* 660, *a* 661, b 662-3, *a* 664; (Montserrat), XVI, a 824; (Pamplona), XVIII, b 211; (Renaissance), XX, a 402
Loyson, Charles, Père Hyacinthe (Old Catholics), XVII, b 776, b 777, a 778
Lo Yu, chronicler (Tea), XXIII, a 105, b 108
Lozenge in Heraldry, XI, a b 617, note, b 621, b 630
Lozenges (Confectionery), VI, a 228
LOZÈRE, department, XV, b 32-3; mountains (Cevennes), V, *b* 311
Lû, Marquis of (Mencius), XVI, b 8
Lua, goddess (Saturn), XXI, b 336
Lualaba, river (Africa), I, *b* 222, a 223, b 225, b 227
Luang Prabang, town (Siam), XXI, *b* 892, a 894
Luapula river (Cazembe), V, b 245; (Zaire), XXIV, b 801
Luar, Sumbah or Malayu, lake (Borneo), IV, b 50
Lubbock, Sir John, naturalist (Bee), III, b 421, a 434; (Ephemeridæ), VIII, b 406, a 407; (Ethnography), a b 540; (Family), IX, *a* 23; (Fetichism), a 104; (Fire), b 198; (Hymenoptera), XII, b 609; (Insects), XIII, a 152, a 153, *b* 160
——, Sir John William (Annuities), II, a b 74, a 76; (Banking), III, b 283
——, Sir John William, astronomer (Tides), XXIII, a 378, b 386, b 394
LUBECK, city (Plan), XV, b 33–6
    bibliography, a 36
    history, b 33–5
    government, a b 35
    guilds, a b 35
    manufactures, b 35
—— (Denmark), VII, b 74; (Gustavus I.), XI, b 297, a 298; (Hamburg), *b* 360, a 361, a 365; (Hanseatic League), *a b* 402, *a* b 403, a 404; (Organ), XVII, a 861
——, principality (Oldenburg), XVII, *a b* 779, *a* 780
Lubéron, mountains (Vaucluse), XXIV, b 124
Lubienski, Felix, count (Albertandy), I, b 401
Lubilash or Boloko, river (Zaire), XXIV, a 802
Lubisches Recht (Hanseatic League), XI, b 402
LUBLIN, town, XV, a 36; (Poland), XIX, a 324; (Unitarianism), XXIII, a 793; diet of, 1569 (Poland), XIX, a b 303; government statistics (Poland), b 320, b 322; (Russia), XXI, a 76
Lubny, town (Poltava), XIX, *a* 424
Lubory, town (Poltava), XIX, b 423
LUBRICANTS, XV, a 36–8; (Glycerin), X, b 623; (Joints), XIII, b 743-4; (Oils), XVII, *a b* 765, b 768; (Paraffin), XVIII, a b 244, a 247; (Petroleum), b 732, b 733, b 891, a b 892
Luca conference, 56 B.C. (Rome), XX, a 784. See LUCCA
—— da Cortona. See Signorelli
LUCAN, Marcus Annæus Lucanus, poet, XV, a 38–9; (Latin Language), XIV, b 337; (Marlowe), XV, a 565; (Martial), *a* 586; (Monaco), XVI, b 743; (Persius), XVIII, b 675; (Roman Literature), XX, *a b* 744, *a* 745; (Statius), XXII, a b 485
LUCANIA, province, XV, a 39–40
Lucanians, people (Græcia Magna), XI, b 28; (Italy), XIII, b 454-5, b 456; (Rome), XX, *a* b 761, a *b* 762, a b 763, a 770, a b 778, b 779; (Samnites), XXI, b 260, a 261
Lucanidæ, family (Coleoptera) (Ill.), VI, a 115, b 116, a 117, a 119
Lucaris, Cyril. See Cyrillus Lucaris
Lucas, African traveller (Geography), X, b 168
LUCAS OF LEYDEN, painter, XV, a b 40
—— of Liege, mathematician (Newton), XVII, *b* 452
——, Louis, inventor (Mirror), XVI, b 523
—— -Championnière, physician (Surgery), XXII, *a* 725
Lucas's method of printing (Blind), III, b 718–9
Lucasta, poems (Lovelace), XV, *b* 30
Lucayas Islands. See BAHAMAS
LUCCA, city, XV, b 40–1; (Italy), XIII, a 458, a 469; (Pisa), XIX, a b 128, *a b* 129, *a* 130; (Schools of Painting), XXI, a b 451, a 462; Bridge of, IV, b 297; duchy (Bourbon), b 158; (Italy), XIII, b 495, a 498
LUCCA, Baths of, commune, XV, b 41; (Montaigne), XVI, a 795
Lucca gum, resin (Olive), XVII, a 784
Luce bay (Wigtown), XXIV, b 593–4, a 595
LUCENA, town, XV, b 41
——, author (Chess), V, b 523–4
LUCERA, city, XV, b 41–2
Luceres, tribe (Rome), XX, a 751, notes
Luceria, town (Rome), XX, a 761. See LUCERA
Lucernariæ, order (Hydrozoa) (Ill.), XII, a 580, b 581, a 582, a 583, b 585, *a* 586, *b* 588, *b* 589–90
LUCERNE, canton, XV, a 42–3; (Switzerland), XXII, a 816, a 819, *a* 821, b 822, *a* b 823, *a* 829, a 830, a 831; town, XV, b 42–3; (Switzerland), XXII, b 816, a *b* 822, b 829, *a* 830, a b 832
LUCERNE, lake of (Map), XV, a b 43; (Lake), XIV, a 219, a 221; (Switzerland), XXII, *a* 815
——, plant (Agriculture), I, b 335, a 337; (Chili), V, a b 541
Lucetius (Jupiter), XIII, b 789
Luchetto da Genova, painter. See CANGIAGI and GENOVA
LUCIA or Lucy, St., XV, a 44
Lucia di Lammermoor, opera (Donizetti), VII, a 315
LUCIAN the Martyr, XV, b 47–8
LUCIAN, satirist, XV, a 44–7
    biography, a b 44
    dialogues, a 46–7
    narratives, a 45–6
    style, b 44–5
    works, description of, a 45–7
—— (Apuleius), II, b 188; (Celsus), V, b 256; (Deluge), VII, a 50; (Gout), XI, a 7; (Greece), a 121, b 128, a 129; (Hermeneutics), b 667; (Herodotus), a 677, a 678; (Jesus Christ), XIII, b 668; (Leopardi), XIV, a 465; (Magic), XV, a 209; (Pollux), XIX, a 417; (Rabelais), XX, a b 204; (Romance), b 650; (Satire), XXI, a 334
Luciani, Sebastiano del Piombo, painter, XXI, a 646–7
Lucic, Hannibal, poet (Servia), XXI, b 722
Lucidor the Unfortunate, poet (Humerus), XII, a b 370; (Sweden), XXII, a 793
LUCIFER, bishop, XV, a b 48
Lucifer (Holland), XII, a 98; (Poetry), XIX, a 280
Luciferians, sect (Templars), XXIII, a 181
Lucifer matches (Fuel), IX, b 710
Lucifuga, genus (Ichthyology), XII, b 712, b 730
Lucilia hominivorax, insect (Diptera), VII, b 223
LUCILIUS, Caius, poet, XV, b 48-50; (Anthology), II, a 93; (Horace), XII, *b* 167, a 168; (Juvenal), XIII, b 813, a 814; (Latin Language), XIV, b 332–3; (Persius), XVIII, a b 674, a 675, b 676; (Roman Literature), XX, a 738; (Satire), XXI, b 333
Lucinacea, family (Mollusca), XVI, a 711
Lucioperca, genus (Perch), XVIII, b 532; (Pike-Perch), XIX, a 98
Luciotrutta, genus (Salmonidæ), XXI, a 232
LUCIUS I., pope, XV, a 50
LUCIUS II., pope, XV, a 50; (Rome), XX, a 810
LUCIUS III., pope, XV, a 50; (Verona), XXIV, a 185
——, king, Britain (London), XIV, b 853
Lucius or the Ass (Lucian), XV, b 45–6
——, Cæcilius (Lactantius Firmianus), XIV, a b 196
LUCKE, Gottfried Christian Friedrich, theologian, XV, a b 50; (Apocalyptic Literature), II, a b 156, *a* 158; (Hermeneutics), XI, a b 669
LUCKENWALDE, town, XV, b 50
Luckimpoor, district. See LAKHIMPUR
LUCKNOW, district, XV, b 50–2
LUCKNOW, city, XV, a 51–2; (Oudh), XVIII, b 74, a b 75, b 76, a 77; (Outram), a 80; Observatory, XVII, a 737; siege of (Clyde, Lord), VI, b 42; (India), XII, b 849; (Libraries), XIV, a 533
Lucolongo, Peter of, merchant (China), V, b 546
Luçon, town (Vendée), XXIV, b 149
Lucrèce, poem (Ponsard), XIX, b 468
Lucrece, Rape of (Shakespeare), XXI, b 792, a 795, a 800, b 805
LUCRETIUS, Titus Carus, poet, XV, a 52–7
    argument of *De Rerum Natura*, b 55–6
    biographical vestigia, b 52–4
    claims to modern attention, a b 52
    editions, a 57
    mental derangement of, a b 53
    personal characteristics in writings of, a 54–5
    philosophy of, a b 55
    poetical rank of, b 56–7
    religious views of, a b 56
—— (Atom), III, b 33, a 34, *a* 41; (Creech), VI, a 494; (Empedocles), VIII, a 164; (Epicurus), b 422; (Etna), a 551; (Evolution), a b 663; (Ethnography), a 550; (Horace), XII, *b* 166, a b 167, *a* b 168; (Lachmann), XIV, a 194; (Latin Language), b 333, b 334; (Magnetism), XV, a b 219, *a* 220, b 226; (Molière), XVI, a 647; (Ovid), XVIII, b 82, note, a 85, a 87; (Roman Literature), XX, b 740; (Virgil), XXIV, *a b* 267, a 268, *a b* 271
Lucrine Lake (Agrippa, M. V.), I, a 371; (Agrippina), b 372
Lucullite (Mineralogy), XVI, b 413
LUCULLUS, Lucius Licinius Ponticus, general, XV, a 57–9; (Hortensius), XII, b 214; (Libraries), XIV, b 510; (Mithradates), XVI, a 554; (Spain), XXII, a 321; (Triumph), XXIII, b 614
Lucy. See Lucia
——, M. de, naturalist (Flight), IX, b 276, a 277 note
——, Sir Thomas, magistrate (Shakespeare), XXI, *b* 789–90
—— furnace, Pittsburgh (Iron), XIII, b 316

Lud, Ned, idiot (Luddites), XV, a 59
Ludbrat of Sweden, king (Russia), XXI, a 96
LUDDITES, rioters, XV, a b 59
Lüder, August Ferdinand (Political Economy), XIX, a 401
Ludgate (London), XIV, a 850, a *b* 851, *a* 852, *a* 853, a 861
LUDHIÁNA, district, XV, b 59-60; (Punjab), XX, b 114, a b 115
LUDHIÁNA, town, XV, a b 60
Ludicrous, The (Æsthetics), I, b 191, a b 192, a b 195, *b* 196, *a* b 197, a 198, a 201
Ludi Magni (Games), X, b 59-60; Publici (Games), X, a b 59
Ludlamite (Mineralogy) (Ill.), XVI, b 421
LUDLOW, borough, XV, b 60; (Mary I.), b 599; (Shropshire), XXI, *b* 887
—— Castle (Milton), XVI, a b 238
—— group of rocks (Geology), X, a 296, a 297–8
LUDLOW, Edmund, general, XV, b 60–1
——, J.M., economist (Socialism), XXII, b 221
Ludolf of Saxony, duke (Gandersheim), X, b 61; (Saxony), XXI, b 367
—— of Swabia, duke (Germany), X, a *b* 434
——, Johann Job, mathematician (Squaring the Circle), XXII, b 451; (Tables), XXIII, *b* 12
LUDOLF or Leutholf, Hiob, orientalist, XV, a 61
Ludovico il Moro. See Sforza, Lodovico
Lüdtge, physicist (Capillary Action), V, b 52
"Ludus Troiæ" (Games), X, b 59, a 60
Ludwig. See Louis
——, Karl Friedrich Wilhelm, physician (Physiology), XIX, *b* 34; (Vascular System), XXIV, *a* 106, a 107, a 109, b 117, b 118
Ludwigite (Mineralogy), XVI, a 413
LUDWIGSBURG, royal residence, XV, a 61–2
Ludwig's canal (Germany), X, b 413
Ludwigshafen, town (Mannheim), XV, *a* b 501
Ludwigslied, ballad (Germany), X, a 463, b 467
Ludwigstrasse (Munich), XVII, a b 30
Luff, nautical term (Sail), XXI, a 162
Lug, river (Hereford), XI, *b* 652
Lugaid, clan (Ireland), XIII, a 250, a b 251, b 252, and note
LUGANO, Lake of, XV, b 61; (Switzerland), XXII, *a* 815
LUGANO, town, XV, b 61; (Switzerland), XXII, b 815; (Ticino), XXIII, *b* 373, a 374
LUGANSK, town, XV, b 61–2
Lugansky, Kossack, author (Dahl, V. I.), VI, b 672
Lugduff, mount (Down), VII, a 331
Lugdunum, city, coins (Numismatics), XVII, a 652. See LYONS
—— Batavorum, town. See LEYDEN
Luggie, The, poem (Gray, D.), XI, *a* 69
Lug Lámfada, god (Celtic Literature), V, *b* 260, a 279
Lugnaquilla, mountain (Ireland), XIII, a 221; (Wicklow), XXIV, a 588, a 589
Lugnasad, games (Ireland), XIII, b 250, note
LUGO, province, XV, a b 62; (Spain), XXII, a 309, b 312; town, XV, b 62; (Galicia), X, *a b* 25
LUGOS, town, XV, 62
Luguet, mountains (Puy de Dôme), XX, b 125; (Loire, Haute), XIV, a 817
Luh or Deer city (Wan-Chow-Fu), XXIV, b 363
Luhea, plant (Botany), IV, a 123, a 124
Luiken, Jan, poet (Holland), XII, *a* 99
Luinas, tribe (Zambesi), XXIV, b 803
LUINI, Bernardino, painter, XV, b 62–3; (Fresco), IX, a 680; (Leonardo), XIV, a 458, b 461; (Schools of Painting), XXI, *b* 456, a 463, a 465, a b 466, a 467
Luino, town (Maggiore), XV, b 199
Luis, king (Portugal), XIX, a 569, b 573
Lujan, Pedro de, author (Romance), XX, a 672
LUKE, evangelist, XV, b 63–4; (Acts of the Apostles), I, a 115 *sq.;* (Hebrews), XI, *b* 538, *a* 539; (Loreto), XV, a 6; (Marseilles), a 579; (Smolensk), XXII, b 193
——, *Gospel of,* X, b 716–21; (Marcion), XV, a b 542; critical history of (Gospels), X, b 747–8; date of (Gospels), b 722-3; (Jesus Christ), XIII, a 671, note; compared with *John* (Gospels), X, a b 735; with *Mark* (Gospels), b 708–9; with *Matthew* (Gospels), a 709–12; omissions of (Gospels), a 707–8; originality of (Gospels), a 702–7
——, Sir Samuel, colonel (Butler), IV, *b* 523, a 524
Lu-khang palace (Lhasa), XIV, a 498, a 500
Lu-Kiang or Lu-tse-Kiang river (Tibet), XXIII, b 362
Lukin, Lionel, inventor (Lifeboat), XIV, a 575
LUKOW, town, XV, b 64
LUKOYANOFF, town, XV, b 64
Luktas, mountain (Crete), VI, b 503–4
Lukuga or Lukugu, river (Lake), XIV, b 222; (Tanganyika), XXIII, b 50; (Zaire), XXIV, b 801, a 802
Lukula, river (Loango), XIV, b 748
Lukunor, island (Caroline Islands), V, b 111
Lulach, king (Scotland), XXI, b 502, b 503
Lule Dictionary, VII, a 168
Lull, Edward P., commander (Canal), IV, a 700, a 701
Lulli, G. B., composer. See LULLY
Lullin, Marie Aimée, naturalist (Huber, F.), XII, b 341
Lullitpoor, district (Lalitpur), XIV, a b 226
LULLY, Giovanni Battista, musical composer, XV, b 64; (Minuet), XVI, b 515–6; (Molière), a 652; (Music), XVII, *b* 94–5; (Quinault), XX, a b 188; (Transverse Flute), XXIII, a 553
LULLY, Raymond, philosopher, XV, b 64–6; (Alchemy), I, a 410, b 411; (Arabian Philosophy), II, b 236; (Bruno), IV, b 359; (Distillation), VII, b 229; (Ether), VIII, b 501; (Missions), XVI, a 536; (Palma), XVIII, b 195; (Spain), XXII, a b 377–8
Lulongo, river (Zaire), XXIV, *b* 802
Lulua, river (Zaire), XXIV, a 803
Lumachella (Marble), XV, a 537; (Mineralogy), XVI, b 413
LUMBAGO, ailment, XV, b 66
Lumbar arteries (Anatomy), I, *b* 793; ganglia (Anatomy), b 775, *a* 776; plexus (Anatomy), b 762; region (Mammalia), XV, a 360; vertebræ (Anatomy), I, b 720; (Skeleton), XXII, a 120
Lumber. See FORESTS
—— industry and trade (Canada), IV, b 683-4, *a* b 687; (Manistee), XV, b 497; (Michigan), XVI, b 247; (Minnesota), a 499; (Mississippi), b 546; (New Brunswick), XVII, a b 383; (Pine), XIX, a 112; (Saws), XXI, a b 359–61; (United States), XXIII, b 863; (Wisconsin), XXIV, *a* 651
Lumbo-sacral cord (Anatomy), I, a 763
Lumbricoid worm (Veterinary Science), XXIV, a b 222
Lumbriconereis (Annelida), II, b 59, b 60, a 61
Lumbricus, genus of worms (Annelida), II, b 61, *a* 62, *a* 64; (Reproduction) XX, b 431; (Tape-Worms), XXIII, b 54; (Worm) (Ill.), XXIV, a b 712, note, a *b* 713, *b* 714, a b 715, *a b* 716, *a b* 717, *a* b 718
Lumbuzha, river and town (Onega), XVII, a 794
Lumby on the Creeds, VI, *b* 497, b 498, b 500
Lumen (Hydrozoa), XII, b 583, b 585
Luminaria (Catacombs), V, a 182
Luminous insects (Insects), XIII, b 149; paint (Light), XIV, a 608; (Pigments), XIX, a 97; rain (Thunderstorm), XXIII, b 350; signals (Surveying), XXII, a 734
"Lumme," bird (Loom), XV, a 4, note
LUMP-SUCKER or Lump-fish, XV, b 66–7; (Ichthyology), XII, a 729
Lumsden, major (Afghânistân), I, a b 216
Luna, town (Carrara), V, a 118; marble (Rome), XX, a 826
——, Alvaro de, statesman (Spain), XXII, *a* 336
——, Frederick, count of (Spain), XXII, *b* 338
Lunacy. See INSANITY
Lunadoro, historian (Curia), VI, b 627
Lunar axial rotation (Tides), XXIII, a b 404; caustic (Silver), XXII, b 78; cycle (Calendar), IV, b 594; deflection of gravity (Tides), XXIII, a b 380; equations (Astronomy), II, a 690; (Calendar), IV, b 596–7, a 600; (Navigation), XVII, a 267; festivals (Sabbath), XXI, b 134–5; inequalities, reduction of (Tides), XXIII, b 391–2; influence (Tides), a 376, a *b* 377, a 378, b 379–80, a 385, *a* 387–9, a 390; magnetism (Meteorology), XVI, b 186, b 191; motions (Ptolemy), XX, a 95; myths (Mythology), XVII, a b 164; observations (Navigation), b 276, b 279-80; Parallax, XVIII, a b 250, b 256-7; rainbow (Light), XIV, a 602; and solar synthesis (Tides), XXIII, a 392–3, a b 404; spots (Astronomy), II, b 700; tables (Mayer), XV, b 655; (Navigation), XVII, a 264, note, b 266, a b 267, *a b* 268; theory (Astronomy), II, b 698; (Hansen), XI, a 404; (Horrocks), XII, b 175–6; (Moon), XVI, a 825-9; tides (Mechanics), XV, a b 694; (Tides), XXIII, b 388, b 406; year (Calendar), IV, b 592–601; Zodiac, XXIV, a 832. See Moon
Lunardi, Vincent (Aëronautics), I, b 171–2, a 173, a 187
Lunatic asylums (France), IX, b 454; (Insanity), XIII, b 115, a 116–7; (New Jersey), XVII, b 407. See Insane Asylums
Lunatics (Contract), VI, a 287; (Insanity), XIII, a 110-19; (Roman Law), XX, a 706, a 707; pauper (Poor Laws), XIX, a b 492. See Insane
Lunation (Astronomy), II, a 700
LUND, town, XV, a 67; (Libraries), XIV, a 532, b 551; (Sweden), XXII, b 783; University, XXIII, b 906; Observatory, XVII, a 735
Lunda, kingdom (Africa), I, a 236; town, b 243; (Cazembe), V, b 244
Lundell, J. A., philologist (Scandinavian Languages) XXI, b 390, note, a 391
Lundin's furnace (Iron), XIII, a 302
Lundy, Benjamin, abolitionist (Garrison), X, a b 77; (Slavery), XXII, b 150, a 909
—— Lane battle, 1814 (Scott), XXI, b 576 note
Lune (Mensuration), XVI, a 23, a 30
——, river (Lancashire), XIV, a 253

Luneburg, town, XV, a 67–8; duchy Hanover), XI, a *b* 399, *a* 400
Lüneburger Haide, heath (Germany), X, b 403
Luneburgite (Mineralogy), XVI, b 425
Lunelviel Cave, V, a 231
Lunenburg, town (Nova Scotia), XVII, *a* 618
Lunette (Fortification) (Ill.), IX, b 385, a 386
Lunéville, town, XV, b 67; (Meurthe - et - Moselle), XVI, b 212, *a* 213
Lung mountains (China), V, a 548
Lunge, George (Coal Tar Colors), XVIII, b 900
Lungebungo river (Zambesi), XXIV, b 803
Lung fish (Loango), XIV, a 749
Lung Keang, river (China), V, a 556
—— -king, emperor (China), V, a 563
—— plague (Murrain), XVII, a b 66, b 67
Lungs (Amphibia), I, b 672; (Birds), III, a 630; (Ichthyology) (Ill.), XII, a 695–6; (Mammalia), XV, b 368; (Reptiles), XX, b 471, *a* 472; (Respiration) (Ill.), a b 489, a b 492; of fœtus (Medical Jurisprudence), XV, b 790, a 793; circulation in (Vascular System), XXIV, b 118–9; collapse of (Bronchitis), IV, a b 327; diseases of (Dropsy), VII, a 408; (Phthisis), XVIII, a 869–72; (Pneumonia), XIX, a b 262; equine (Veterinary Science), XXIV, b 219
Lung-sac (Mollusca), XVI, b 684, a 685
Luni, river (Jodhpur), XIII, b 714
Lunnite (Mineralogy), XVI, b 423
Lunulæ of Gianuzzi (Nutrition), XVII, b 691
Lun Yu or Analects (Confucius), VI, a 233
Lupercalia, Roman festival, XV, b 67–8; (Candlemas), IV, a 710; (Carnival), V, *b* 107
Luperci, priests (Lupercalia), XV, *b* 67, *a* 68
Lupine, plant, XV, a 68; (Agriculture), I, b 336; (Horticulture), XII, a 255, a 259; (Italy), XIII, b 459, a 461
Lupton, village (Chatham), V, a 381
Lupul, Vasilje, prince, Moldavia (Roumania), XXI, b 24
Lupulin, alkaloid (Brewing), IV, a 243; (Hops), XII, a 160, a b 161; Narcotics), XVII, 238
Lupus, disorder (Skin Diseases), XXII, b 129-30
——, Virius, general (Scotland), XXI, b 494
—— Servatus, abbé (Libraries), XIV, a 512
Luque, Hemandode, priest (Pizzaro), XIX, a 169
Lubay Cavern (Plan), XV, b 68-9
Lurcher (Dog), VII, b 284–5
Lurgan, town, XV, b 69–70; (Armagh), II, *a* 479
Luri tribes (Khúzistá), XIV, a 70; (Luristan), XV, *a* b 70
Luristan, province, XV, a b 70
Lurngan family (Görz), X, b 700
Lusatia, district, XV, b 70–1; (Germany), X, a 423, b 436, *a* 437, a 444; (Saxony), XXI, *a* b 373, b 374; acquisition of (Saxony), XXI, a 370, a 371
Lusatian literature (Slavs), XXII, a b 163
Lushai Hills, district, XV, a 71
Lusiad, poem (Camoens), IV, b 660, *a b* 661, *a b* 662; (Fanshawe, Sir R.), IX, a 27; (Mickle), XVI, b 250
Lusici, tribe (Lusatia), XV, b 70
Lusitania, province (Portugal), XIX, *a* 555; conquest by Rome of (Spain), XXII, *a* b 321
Lustdorf, bathing place (Odessa), XVII, a 746
Lustration, purification, XV, a b 71: (Baptism), III, a 301; (Ecclesia), VII, a 589; (Holy Water), XII, a 109; (Penance), XVIII, a 495
Lustre of rocks (Geology), X, a 205; (Mineralogy), XVI, a 387
Lustred Tiles (Ill.), XXIII, b 415; ware (Pottery and Porcelain) (Ill.), XIX, b 638–9, a b 641, a b 643, a 644, a 646
Lut desert (Kirmán), XIV, a 102, note
Lutdge, Robert, inventor (Telephone), XXIII, a 140
Lute, musical instrument (Ill.), XV, b 71–3
—— stop (Pianoforte), XIX, b 78
Lutetia, city (Paris), XVIII, b 292, a 293
Lutf Alí Khán, sháh (Persia), XVIII, a b 656
Luther, Martin, reformer, XV, a 73–85
  Augsburg diet and confession, a 83–4
  bibliography, b 85
  childhood, a 73
  Eck, controversy with, a b 75
  excommunication, a 76
  indulgence theses, Wittenberg, b 73–4
  later years, b 84–5
  legatine courts, before the, b 74–5
  marriage, b 80–1
  monastic life of, a 73–4
  Nuremberg diet and German politics, b 78–9
  Philip's Hessian church, b 81–2
  political situation in 1520, b 75–6
  preaching of, a b 74
  princely adherence to, a 81–2
  protest at Spires, a b 82
  Smalkald league, a b 84
  tumults, knightly and peasant, b 79–80
  Wartburg, life at, a b 77
  Wittenberg reformers restrained, b 77–8
  Worms, diet of, 1521, a 76–7
Luther, *continued*
  worship, his reformation of, a b 79
  Zwinglian controversy, b 82–3
  Postscript, a b 857
—— (Agricola, Johannes), I, a 259; (Aleandro), b 421; (Antinomians), II, *b* 114; (Aurifaber), III, b 78; (Baptism), a 302; (Cajetan), IV, a 576; (Canon), V, a 14; (Canticles), b 30; (Carlstadt), a *b* 100; (Charles V.), a 359; (Coburg), VI, a 84; (Cranach), b 482; (Creeds), b 499; (Depres), VII, b 88; (Devil), a 119; (Dogmatic), b 293; (Dürer), a b 482; (Ecclesiastes), *b* 539, b 541; (Eck), a 556; (Education), b 583; (Eisenach), b 685; (Eisleben), a 686; (English Bible), VIII, *a* 344; (Erasmus), a 455, *b* 456; (Eucharist), a 574; (Faber, Johann), *b* 731; (Germany), X, a b 446, *a* 447, a b 472, b 473, a 474
—— (Hebrews), XI, b 538; (Hermeneutics), a b 668; (Hymns), XII, a 620–1; (Image Worship), b 752; (James), XIII, b 564; (Magdeburg), XV, b 198; (Monster), XVI, b 788; (Music), XVII, b 92; (Mysticism), a b 141; (Pietism), XIX, *b* 91; (Reformation), XX, a b 338, a b 339, a b 340–1, *b* 345, a b 346, a 347, a 348; (Sacrifice), XXI, a 148; (Schwenkfeld), *b* 484; (Spalatin), XXII, *a* 380; (Theism), XXIII, b 262, a 263; (Torgau), *a* 476; (Trent, Council of), b 578, a 580; (Wittenberg), XXIV, a 659; (Zwingli), a 873; language of (Germany), X, a b 466, b 472
Lutheran Catechisms, V, b 191
Lutheran influence on Church of England (Articles), II, a 572
Lutheranism. See **Lutherans**
Lutheranism, Historical and Apologetical Commentary on (Seckendorf), XXI, a 648
Lutheranism, rise of (Universities), XXIII, a b 900
Lutheran and Reformed churches, union of (Lutherans), XV, a 87
Lutherans, XV, b 85–7; (Chemnitz), V, a b 504; (Confession), VI, a 229; (Decalogue), VII, a 16; (Esthonia), VIII, a 496; (Germany), X, a 422, a 447–8; (Hamburg), XI, a 361, a 365; (Holland), XII, b 95; (Huguenots), b 351; (Hutten), b 428–9, (Iceland), b 656; (Liturgy), XIV, a 718; (Penance), XVIII, b 498; (Pietism), XIX, b 91; (Saxony), XXI, b 374
Lutheran theology (Dogmatic), VII, b 295, *a* 296–7; (Predestination), XIX, b 690
Luther's table (Comet), VI, a 170
Lutke, Feodor Petrovitch, count, explorer (Geography), X, a b 172; (Nova Zembla), XVII, b 620; (Polar Regions), XIX, b 331
Luton, country seat (Bute), IV, b 518
Luton, town, XV, b 87; (Agriculture), I, b 318; (Bedfordshire), III, *a* 417; hat trade (Straw Manufactures), XXII, b 622
Lutouver dynasty (Lithuanians), XIV, a b 708
Lutra, genus (Mammalia), XV, a 446; (Otter), XVIII, b 72–3
Lutrin (Boileau-Despreaux), III, b 750
Lu-tse-Kiang or Giama-Nu-chu river (Tibet), XXIII, *b* 360, a b 362, b 363
Lutz or Kunung tribes (Tibet), XXIII, a 365
Lützen, battle of, 1632 (Artillery), II, b 584; (Germany), X, a 449; (Gustavus II.), XI, a 299; (Hymns), XII, a 621; (Pappenheim), XVIII, b 233
Lutzk, town, XV, b 87
Lützgow, Ludwig Adolph Wilhelm, baron von, soldier (Körner), XIV, b 142
Luvini's *Logarithms* (Tables), XXIII, b 16
Luvu or Loewoe, kingdom of (Celebes), V, a 251
Luxembourg, house of (Brabant), IV, *a* 169; (Germany), X, a b 443–4
—— margraves (Prussia), XX, a b 7
——, palace (Paris), XVIII, a b 280, b 297, b 299, a 301
Luxembourg, François Henri de Montmorency-Boutteville, Duc de, XV, b 87–8; (Cavalry), V, a 228
Luxemburg, duchy, XV, a 88–9; (Holland), XII, a 68, a 76, a *b* 86; province, XV, b 89–90; partition of (Belgium), III, b 456, *a* b 457
Luxemburg, city (Plan), XV, b 88–9
Luxeuil, town (Saone, Haute), XXI, *a* 316
Luxor or El-Uksur, village and temple, XV, a 90; (Egypt), VII, b 673
Luxullianite (Granite), XI, a 44
Luxury (Abbots), I, a 29; legal aspects of (Sumptuary Laws), XXII, b 678–9; Roman (Baths), III, *b* 377
Luynes, Albert, count of courtier (France), IX, a b 500
——, Charles d'Albert, Duc de (Louis XIII.), XV, b 20
——, Honoré Théodoric Paul Joseph d'Albert, Duc de, archæologist (Metapontum), XVI, b 108
Luz, town (Bethel), III, a 533
Luzan, Ignacio de, Don, rhetorician (Spain), XXII, b 374
——, José Martinez, painter (Goya y Lucientes), XI, b 20-21
Luzel, F. M., antiquary (Celtic Literature), V, *b* 281, *b* 285

Luzon, island (Philippine Islands), XVIII, a b 762, a b 763, b 764, b 765 note, a 767
Luzonite (Mineralogy), XVI, a 412
Luzzati, Luigi (Political Economy), XIX, a b 408
Luzzato, Samuel David, scholar (Talmud), XXIII, a 43
Lycabettus, hill (Attica), III, a 52, a 53
Lycæna (Butterflies), IV, a 529
Lycalopex, genus (Mammalia), XV, a 445
Lycambes of Paros (Archilochus), II, a 332
LYCANTHROPY, XV, a 90–3
  definition, a b 90
  doctrine, b 92–3
  literature, a 93
  mediæval, b 90–1
  modes of metamorphosis, b 91–2
  origin of belief, a b 92
  pagan, a b 91
  savage, b 91
—— (Mythology), XVII, a 152
LYCAON, myth, XV, a b 93
——, genus (Mammalia) (Ill.), XV, a b 444, b 445
LYCAONIA, province (Plate II), XV, b 93–4; (Asia Minor), II, a 615, a 617, b 620
Lycées, high schools (Paris), XVIII, a 286
Ly-ce-moon pass (Hong-Kong), XII, b 144
Lyceums (Aristotle), II, a 450; (Athens), III, a 4; (Italy), XIII, a 471
Lychnis, plant (Botany) (Ill.), IV, b 80–1, b 114, b 118, b 121, b 130, b 135, a 142; (Horticulture), XII, a 259
Lychnites (Marble), XV, b 535
Lychnokaie, festival (Lamp), XIV, a 248
LYCIA, district (Plate II), XV, a 94–5; (Apollo), II, b 162; (Asia Minor), b 615, a 616, a 619, a 620; (Greece), XI, b 82; (Numismatics), XVII, a b 665; (Pandarus), XVIII, b 214
Lycians, race (Asia Minor), II, a 622; (Persia), XVIII, a 578, note
Lycidas, Milton's (Drummond), VII, a 415; (Milton), XVI, b 338, b 350
Lycodidæ, family (Ichthyology), XII, a b 716, b 720, a 730
Lycodontidæ, family (Snakes), XXII, a 201, b 203, b 206
Lycogala (Protozoa), XIX, a 863
Lycon of Athens, orator (Socrates), XXII, b 241, a 248
Lycoperdon nut (Truffle), XXIII, b 629
LYCOPHRON, poet, XV, b 95–6; (Periander), XVIII, a b 539
Lycopodiaceæ, order (Botany) (Ill.), IV, a 84, b 95, b 103, a 127, b 146; (Biology), III, a 601; (Ferns), IX, b 89, a b 94; (Lycopodium), XV, a 96
LYCOPODIUM, fern, XV, a 96; (Botany) (Ill.), IV, a 146; (Ferns), IX, a b 94
Lycortas of Megalopolis (Polybius), XIX, a 425
Lycosa, genus (Arachnida), II, b 257 notes, b 261, a 262
Lycosura, town (Arcadia), II, a 286
Lycurgus, king, Thrace (Dionysus), VII, b 216
LYCURGUS, lawgiver, XV, a 96–8
  historical position, b 96
  land reforms, a b 98
  military law, b 97–8
  political legislation, a b 97
—— (Agrarian Laws), I, b 256; (Chronology), V, b 617; (Drama), VII, b 350, a 351, note; (Greece), XI, b 84, b 122; (Homer), XII, a b 119
LYCURGUS, orator, XV, b 98–9; (Athens), III, a 8
Lycus river (Asia Minor), II, a 618
Lydd, town (England), VIII, b 195
Lydenburg, town and district (Transvaal), XXIII, b 550, a 551
LYDGATE, John, poet, XV, a b 99; (Chatterton), V, b 386, a 389; (English Language), VIII, b 355, 359
LYDIA, kingdom (Plate II), XV, b 99–102
  antiquities, b 101–2
  boundaries and physical features, b 99–100
  history, b 101–2
  race and religion, a b 100
—— (Asia), II, b 622; (Etruria), VIII, b 556, note; (Greece), XI, a 83, b 88; (Ionia), XIII, a 211; (Miletus), XVI, a 307; (Numismatics), XVII, b 661–2, b 665; (Persia), XVIII, b 575, b 577, a 578; (Phrygia), a b 865
Lydian conquests (Smyrna), XXII, a 196; influence (Troad), XXIII, a 616
—— stone (Geology), X, b 212; (Mineralogy), XVI, a 405
Lye (Potassium), XIX, b 606–7; soda ash (Sodium), XXII, b 255
LYELL, Sir Charles, geologist, XV, a 102–4; (Atlantic Ocean), III, a 16, b 17; (Distribution), VII, b 244, a b 245, b 247, b 252; (Geology), X, b 220, a 320, a b 321; (Miller, Hugh), XVI, b 331; on Niagara Falls (Canada), IV, b 679
Lygdamis, king of Naxos (Halicarnassus), XI, b 342; (Herodotus), a b 676, a 677; (Pisistratus), XIX, b 140
Lygdamus, poet (Tibullus), XXIII, b 371, b 372
Lygeum, genus (Grasses), XI, a 50, a 51, b 52, b 53
Lying-in Hospitals, XII, a b 316
Lykens valley coal-bed (Pennsylvania), XVIII, b 511
LYLY or Lilly or Lylie, John, author, XV, a 104–6
  biographical, a b 104
  comedies, b 104–5
  Euphues, a b 105
  style of, b 105–6
—— (Drama), VII, b 366, a 371, notes; (Pastoral), XVIII, b 351, a 352; (Shakespeare), XXI, b 793, b 798
Lyman, Theodore, philanthropist (Reformatories), XX, b 898
Lyman's reflector (Telescopic Work), XXIII, a 934
LYMINGTON, town, XV, b 106; (Hampshire), XI, b 385
Lymph (Anatomy), I, a 743, b 796; (Mollusca), XVI, b 656; of brain (Physiology), XIX, b 49; exudation of (Pleurisy), a 234; function of (Physiology), a 20
Lymphad, the (Heraldry) (Ill.), XI, b 628
Lymphatic follicles in catarrh (Pathology), XVIII, b 385
—— glands, cancer of (Pathology), XVIII, b 390–1; disorders of (Pathology), b 383, a 384; pus from (Pathology), a b 410
—— heart (Reptiles), XX, a 472, a 473
—— system (Amphibia), I, a b 672; (Anatomy), b 711, a 714, a 715, b 742, a 743, b 744, a 745, b 746, b 778, b 796–7; (Digestive Organs), VII, a 198, a 199; (Hunter, J.), XII, a 401; (Hunter, W.), a 408; (Mammalia), XV, b 367; (Nutrition), XVII, a b 688, b 697; (Reptiles), XX, a 473
Lymphatics of the brain (Insanity), XIII, b 106; cardiac (Vascular System), XXIV, a 111; of liver (Digestive Organs), VII, a 201; of lungs (Respiration), XX, b 489; of skin (Anatomy), I, a 788
Lymph-scrotum, disease (Parasitism), XVIII, b 275
Lympne, town (Hythe), XII, a b 636
Lynaker, Thomas, physician. See LINACRE
Lyncestis, plain (Macedonia), XV, b 137–8
Lynch, Mrs., adventuress (Lopez, F.), XV, b 4
——, James Fitzstephen, mayor (Lynch Law), XV, a 106–7
——, William F., naval officer (Dead Sea), VII, a 4, a 5
LYNCHBURG, city, XV, b 106
LYNCH LAW, XV, b 106–7
Lyncornis, genus (Goatsucker), X, b 634–5
Lyncurius, mineral (Electricity), VIII, b 4, b 8
Lynde brook dam (Water-Supply), XXIV, a 430
LYNDHURST, John Singleton Copley, lord, XV, a b 107; (Brougham), IV, b 340, a 342; (Marriage), XV, a 574; (Smith), XXII, a 188
LYNDSAY, Sir David, poet, XV, b 107–10
  biography, b 107–8
  Dreme, b 108–9
  reform proposals, a 109–10
  satires, a 109
—— (Drama), VII, b 359; (English Literature), VIII, a 371; (Haddington), XI, a b 324; (Scotland), XXI, a 567
——, Robert of Pittscottie, historian (Scotland), XXI, b 567
Lyngby, K. L., philologist (Scandinavian Languages), XXI, a 382 note, b 384, b 387 note, b 389, b 390
LYNN, city, Mass., XV, a 110; (United States), XXIII, b 863
LYNN REGIS, borough and town, XV, a b 110
Lynom, Thomas, solicitor (Shore), XXI, a 875
Lynton group, rocks (Geology), X, a 302
LYNX, mammal (Ill.), XV, b 110–1; (Amber), I, b 579; (Caracal), V, b 72; (Fur), IX, b 735, b 736; (Mammalia), XV, b 440, b 441
Lyon, Emma (Hamilton, Sir W.), XI, a 376
——, John, philanthropist (Harrow-on-the-Hill), XI, a 443
——, Mary, educator (Women), XXIV, a 911
——, Nathaniel, general, b. 1819, *d.* 1861 (Missouri), XVI, b 550
Lyonnais mountains (Cevennes), V, b 311
LYONS, city (Plan), XV, b 111–4
  ancient buildings, b 112
  aqueducts and communications, b 113
  education, a b 113
  fortifications, a b 112
  history, a 114
  industries, b 113–4
  museums, a b 113
  situation, b 111–2
—— (Collot d'Herbois), VI, b 134; (Couthon), b 469; (Filter), IX, a 149; (France), a 460, a 466, a 534; (Irenæus), XIII, a b 279; (Jacquard), a b 549; (Jordan, C.), a 757; (Jura), a 792; (Libraries), XIV, a 547; (Molière), XVI, b 648; (Observatory), XVII, a 732; (Rabelais), XX, a b 201; (Rhone), b 543, a 544; (Silk), XXII, a b 71; (Technical Education), XXIII, a 116; (Veterinary Science), XXIV, b 214
——, council of, 1245 (Italy), XIII, b 485; (Michael VIII.), XVI, b 235
LYONS, Edmund Lyons, lord, diplomatist, XV, a b 114
——, Israel, mathematician (Navigation), XVII, b 267, note, a 268
Lypemania (Insanity), XIII, a 110
Lypomata (Brachiopoda), IV, a 171
LYRA, Nicolaus de, commentator, XV, b 114; (Hermeneutics), XI, a 668

Lyra Apostolica (Hymns), XII, a b 630; *Germanica* (Hymns), a 623; *Innocentium* (Keble), XIV, *b* 27
Lyraids, (Meteor), XVI, b 116
LYRE, instrument (Ill.), XV, b 114–6; (Greece), XI, b 121; (Homer), XII, b 113, a 114; (Music), XVII, a b 85–6; (Violin), XXIV, b 260, a b 262
LYRE-BIRD (Ill.), XV, b 116–8; (Birds), III, a 643
Lyrical Ballads (Coleridge, S. T.), VI, a 123; (Wordsworth), XXIV, a 705, a 709
Lyric drama (Metastasio), XVI, b 110; (Monteverde), a 812; (Paludan-Müller), XVIII, a b 207
—— eclogues (Pastoral), XVIII, a b 352
Lyrichord, musical instrument (Pianoforte), XIX, b 81, a 82
Lyric Poetry, XIX, b 275, a b 276, b 281, a 282; (Fine Arts), IX, b 180; Arabic, II, b 230; (Moʻallakát), XVI, b 259–63; Bohemian (Slavs), XXII, a 162; Danish, VII, b 79; French, IX, a b 565; German, X, a 476, a 479, a 481, a 482, a b 485, a 487, a 488; Greek, XI, b 124; Hebrew, b 534, b 535; (Bible), III, a b 552; (Isaiah), XIII, a 392; Hungarian, XII, b 391; Italian, mediæval, XIII, b 510, a b 512, a b 514; modern, a 514, b 518, b 519–21; Latin, XIV, a 335; (Roman Literature), XX, b 742–3; Provençal, XIX, a 899–901; Russian, XXI, b 114, b 115, a 117, b 118; Sanskrit, b 300; Spanish, XXII, a b 371, b 374–5, a 376
Lyrics, Danish (Ewald, J.), VIII, b 678–9; (Hertz), XI, b 690–1
——, English (Beaumont and Fletcher), III, a b 409; (Browning, Mrs.), IV, a 352; (Burns), b 506–7, b 508; (Campbell), *a* 668; (Coleridge), VI, a 184; (Collins), a 133–4; (Gray), XI, b 70; (Hemans), b 575–6; (Herrick), a 683; (Jonson), XIII, b 754; (Keats), XIV, a b 25; (Marlowe), XV, a 565; (Moore), XVI, b 832
——, French (Bellay), III, a 470; (Béranger), a b 502; (Deschamps), VII, b 111; (Lamartine), XIV, b 234, a 235; (Ronsard), XX, b 864
——, German (Bürger), IV, b 477; (Fleming, P.), IX, a 265; (Franzen), b 637; (Goethe), X, b 649; (Hardenberg), XI, b 422; (Heine), b 559–60; (Höltz), XII, b 107; (Körner), XIV, b 142–3; (Schiller), XXI, a 413, a 414
——, Greek (Alcæus), I, a 405; (Alcman), a 415; (Aristophanes), II, a 447; (Ibycus), XII, a 646; (Pindar), XIX, b 107, a b 108, a b 110; (Sappho), XXI, a b 318; (Simonides), XXII, b 91; (Sophocles), a b 287; (Stesichorus), a 571
——, Italian (Filicaia), IX, b 142–3; (Petrarch), XVIII, a b 724
——, Latin (Catullus), V, a 216–8; (Horace), XII, a 165, b 168–9; (Pontanus), XIX, a 469
——, Persian, XVIII, b 671–2; (Hafiz), XI, b 328–9; (Rumi), XXI, a b 65; (Sa'di), b 151
——, Portuguese, XIX, a 571; (Gonzaga), X, b 687
——, Spanish (Herrera, F.), XI, b 681; (Leon, L. P. de), XIV, a 456
——, Swedish (Bellman), III, b 473–4; (Kellgren), XIV, *a* 31
—— tragedy, Greek (Drama), VII, b 349
Lys river (France), IX, a 446, a 458
Lysa Gora mountains (Radom), XX, b 224
LYSANDER, admiral, XV, a 118; (Greece), XI, *a b* 92; (Persia), XVIII, b 587, a 588
Lysanias, district (Tetrarch), XXIII, a 218
Lysberg, Booy, musician (Geneva), X, a 132
Lyse Fjord (Norway), XVII, a 590
Lysianassina, crustaceans (Distribution), VII, a 242
LYSIAS, orator, XV, b 118–21
  bibliography, a 121
  character, personal and literary, b 119–20
  life, b 118–9
  style, a 120
  works, a b 120
—— (Greece), XI, a 127; (Isæus), XIII, b 386, a 387
—— of Syria, regent (Israel), XIII, b 431–2
——, tyrant philosopher (Tarsus), XXIII, b 73 note
Lysicles, Athenian politician (Aspasia), II, b 624
Lysicrates, monument of (Archæology), II, b 316, b 318; (Architecture) (Plate XII), *a* 357, b 358, b 360; (Athens), III, b 8
Lysigenous cavities (Histology), XII, b 18, a 19
Lysimachia, plant (Botany), IV, a b 104, a 110, a 118
LYSIMACHUS, king of Thrace, XV, a b 121; (Arsinoe), II, b 555; (Numismatics), XVII, b 657; (Pergamum), XVIII, a 538; (Troad), XXIII, b 616, a 617
LYSIPPUS, sculptor, XV, b 121–2; (Archæology), II, a 316; (Eupompus), VIII, a 590; (Hercules), XI, a 650
Lysis, dialogue (Plato), XIX, a 208, a 212
Lysistrata, comedy (Aristophanes), II, a 447, a 448
Lyskamm, mountain (Alps), I, b 545, b 549
Lysons, Samuel, antiquary (Whittington), XXIV, a 487, note
Lyssacina (Sponges), XXII, a b 437, a 438, a 439, b 444
LYTE, Henry Francis, hymn writer, XV, a 122
Lytta vesicatoria, beetle (Coleoptera) (Ill.), VI, b 120
Lyttelton, town (Canterbury), V, *a* 29; (Christchurch), b 597
LYTTELTON, George, lord, statesman, XV, a 122; (Fielding, H.), IX, *a* b 125, a 126, b 127, *a* 128
——, Sir Thomas, debater (Lyttelton), XV, a 122
LYTTON, Edward George Earle Lytton Bulwer-Lytton, baron, novelist, XV, b 122–5
  parliamentary career, b 123–4
  play writings, a 124
  poems, b 122, a 124
  romances, a b 123–5
—— (Godwin, W.), X, b 640; (Newspapers), XVII, b 430; (Theatre), XXIII, a 246; (Tierney), b 409
——, Edward Robert Bulwer-Lytton, earl, statesman (India), XII, *a* 851
——, Warburton, scholar (Dalling), VI, a 688
Lywarch, bard (Arthur), II, a 568

M, letter, XV, a 125
Mā, goddess (Cappadocia), V, a 68; (Comano), VI, b 158
—— Yuen, general (Tong-King), XXIII, b 468
Maal, language (Norway), XVII, b 605, b 606
Maalstrœv, school (Norway), XVII, *b* 605
Maani, traveller (Valle), XXIV, *a* b 50
Maas, river. See MEUSE
Maasarah, El, town (Egypt), VII, a 671
Maassen, jurist (Canon Law), V, a 21
Maastricht, town. See MAESTRICHT
Maba, race (Soudan), XXII, a 292, a 293
——, tree (Satin Wood), XXI, b 332
MABILLON, Jean, historian, XV, a b 125; (Trappists), XXIII, b 557
Mabinogion (Celtic Literature), V, a 269, b 270, b 274, b 276, b 278–9, a 285; (English Literature), VIII, b 364; (Romance), XX, b 660–1, a 662, a b 665
Mably, Gabriel Bonnot de, historian (France), IX, a 587
Mabotsa, valley (Livingstone), XIV, b 726
Mabuse, pseudonym (Gossart), X, b 749, b 750
Macabi, islands (Guano), XI, a b 207; (Peru), XVIII, b 684, a 688
Macacus (Ape) (Ill.), II, a b 133, a b 137, *a* 138, *a* 139, a *b* 140, a 141, a 145, *a b* 146
Macadam, John Loudon, surveyor (Roads and Streets), XX, *b* 597, a b 598; pavement of (Roads and Streets), *b* 597, a b 598, *a* b 603, *a* 604
McAll mission (Paris), XVIII, b 288
Macalpine, king. See Kenneth
Macalubas, volcanoes (Geology), X, b 223
Macanao, Mount (Margarita), XV, a 545
MACAO, town, XV, b 125–6; (Commerce), VI, b 180; (Coolie), *a* 297
Macaque, ape. See Macacus
Macara, river (Peru), XVIII, b 682
Macareus, chief (Lesbos), XIV, *a* 474
Macario, psychologist (Dream), VII, a b 395
MACARONI, food, XV, a b 126; (Italy), XIII, a b 451, b 459
Macaronic literature (Poland), XIX, a b 313; (Folengo), IX, a b 311
Macarthur, shepherd (New South Wales), XVII, b 422
Macarthy, family (Cork), VI, a 359
Macarthy's island (Gambia), X, a b 54
MACARTNEY, George Macartney, earl of, diplomat, XV, b 126–7; (Barrow), III, *b* 342; (China), V, a 565; (St. Paul), XXI, *a* 199
Macartney, anatomist (Ornithology), XVIII, b 19, a 30 note
MacCarthy, Denis Florence, poet (Calderon), IV, a 587
——, Dermot, king (Kerry), XIV, a 54
——, Justin, historian (Pulteney), XX, a 109 note
—— gin, (Cotton), VI, *a* 429
Macassar, department and town (Celebes), V, b 250, a 252; language (Celebes), V, b 250; (Dictionary), VII, b 166
—— straits (Asia), II, b 597
Macaturing, volcanoes (Philippine Islands), XVIII, a 763, note
MACAULAY, Thomas Babington, baron, historian, XV, a 127–31
  conversational gifts, b 127
  criticism of, a 130–1
  History of England, b 129–30
  India, service in, b 128–9
  literary qualities, a 127, b 130
  peerage days, a 130
  political career, b 127–8, a b 129
  youth, a 127
—— (Bacon), III, a 187; (Barère), b 323, note; (Bennet), b 495; (Copyright), VI, a b 318, a 319; (Croker, J. W.), b 526; (Defoe), VII, *a* 28; (Demosthenes), a 64; (Dogmatic), a 293, note; (Edgeworth), a *b* 567; (Government), XI, a b 16; (Hastings), a b 458, a 459, a 461; (Hume), XII, a 364 note; (India), b 845, a 846; (Ireland), XIII, b 273, a 274; (Junius), a b 786; (Penn), XVIII, b 506; (Richardson), XX, b 558–9; (Rights, Bill of), a 570; (Saint-Simon), XXI, a 210; (Voltaire), XXIV, *a* 309;

Macaulay, *continued* (Whitgift), a 585; (Wycherley), b 741, a *b* 742; his description of the siege of Arcot, II, b 42. See List of Contributors

——, Zachary, philanthropist (Macaulay), XV, a 127, a 128

McCauley, C. A. H., explorer (Surveys), XXII, b 936

MACAW, bird, XV, a b 131

MACBETH, king of Scotland, XV, b 131-132; (England), VIII, a 260, b 261; (Inverness), XIII, b 206, a 207; (Perth), XVIII, a 680; (Scotland), XXI, a b 502

Macbeth, play (Drama), VII, b 340; (Holinshead), XII, a b 61; (Hungary), b 392; (Middleton, Thomas), XVI, b 295; (Shakespeare), XXI, b 800, a 805; (Siddons), XXII, a b 38

Maccabæan Era (Chronology), V, a 621; (Psalms), XX, b 36

—— Weights and Measures, XXIV, *a* 514, a 515

Maccabæus, Jonathan Appius, high priest (Israel), XIII, b 432, a 433

——, Judas, general, XV, a 132; (Israel), XIII, b 431-2

——, Simon, prince (Numismatics), XVII, *a* 668

MACCABEES, family, XV, a b 132; (Hyrcanus), XII, a 634; (Israel), XIII, a b 432-3; (Messiah), XVI, b 59-60

MACCABEES, Books of, XV, a 132-3; (Apocrypha), II, b 159, *a* 160

MACCLESFIELD, town, XV, a 133; (Cheshire), V, *b* 512

McCLELLAN, George Brinton, general, XXIII, b 838-9; (Burnside), a 837; (Jackson, T. J.), XIII, *b* 544, *a* 545; (Lincoln), XIV, a 667, *b* 668; (Pacific Railroads), XIX, b 913; (Stanton), XXII, b 919; (Stuart), a 931; (United States), XXIII, b 823, b 825, a 826, b 828. See List of Contributors

——, countess of (Savage), XXI, b 339

McClintock, Emory, actuary (Annuities), II, a b 77

——, Sir Leopold, navigator (Franklin, Sir J.), IX, *a b* 635; (Geography), X, *b* 174; (Polar Regions), XIX, *a* 333, a b 334

McClure Inlet (New Guinea), XVII, a 396

M'CLURE, Sir Robert John Le Mesurier, navigator, XV, a 133; (America), I, b 627; (Geography), X, *b* 174; (Polar Regions), XIX, a b 333, *a* 334

MacCoise, Erard, poet (Celtic Literature), V, a 271

McCook, Henry C., entomologist (Honey), XII, b 139

McCormick, Cyrus, inventor (Patents), XVIII, b 877; (Stanton), XXII, a 919; (United States), XXIII, a 817; his reaper (Agriculture), I, b 286-7

M'CRIE, Thomas, divine, XV, b 133-4; (Knox), XIV, a 131 note, a b 132, a 134, a 135

McCrindle, J. W., translator (India), XII, a 826 note, b 851

MACCULLAGH, James, geometer, XV, a 134

MACCULLOCH, Horatio, painter, XV, a b 134

MACCULLOCH, John, geologist, XV, b 134-5; (Geology), X, a 290, b 292; (Malaria), XV, a 319

M'CULLOCH, John Ramsay, economist, XV, a 135-6; (Banking), III, b 277 note; (Political Economy), XIX, b 382, b 383 note, *a* 390, b 391, a b 415; (Taxation), XXIII, b 91, b 93, a 94

Maccus, clown (Punchinello), XX, *a* 111

MacDonald, Alexander, poet (Gaelic), X, a 13

——, Alexander I., Lord of the Isles (Scotland), XXI, *a* 515

MACDONALD, Étienne-Jacques-Joseph-Alexander, marshal, XV, a 136-7; (Austria), III, b 114, b 117

——, Flora, heroine (Macdonald), XV, a 136

——, John, Lord of the Isles (Hebrides), XI, b 542; (Islay), XIII, b 397

——, Sir John, envoy (Persia), XVIII, b 659

——, John Hay Athole, electrician (War), XXIV, *a b* 376, a 377 note, b 378, a 384

MACDONALD, Lawrence, sculptor, XV, a 137

Macdonalds of Boisdale and of Clanranald (Charles Edward), V, b 369

Macdonnell, Alexander, player (Chess), V, *b* 522, a 524

Macdonough, Thomas, commodore (United States), XXIII, b 808, note

Macdowall's escapement (Clocks) (Ill.), VI, a b 19; (Watch), XXIV, a 418

M'Dowell, Ephraim, physician (Surgery), XXII, a 726

——, Irwin, general, *b*. 1818, *d*. 1885 (United States), XXIII, b 825, *a* 826

Macduff, town (Banff), III, a 269

Mace of nutmeg (Botany), IV, a 140; (Nutmeg), XVII, a b 685

——, Thomas, composer (Hymns), XII, a 626; (Pianoforte), XIX, b 78

MACEDONIA, country (Plate III), XV, a 137-9
  Chalcidice, b 138-9
  geographical features, a 137-8
  history, a 139

—— (Demetrius I. and II.), VII, b 51-2; (Dorians), b 317, a 318; (Euripides), VIII, a 591; (Greece), XI, b 93, a b 94; (Illyria), XII, a b 748; (Numismatics), XVII, b 656-7; (Opium), b 811; Persian relations with, XVIII, a 592; (Roman conquest of (Paulus), b 446; (Rome), XX, a 768, a b 770-1, a b 772; usurpation in (Andriscus), II, b 21

Macedonian Army, II, a 492; (Beard), III, a 400

MACEDONIAN EMPIRE, XV, a 139-46
  Alexander's conquests, b 140-2
  conquest of Greece, b 139-40
  early governments, b 139
  Hellenism in Egypt, a b 145
  Hellenizing of the East, a b 142, b 143-5
  Roman conquests, b 145
  wars of Alexander's generals, b 142-3

—— fall of (Persia), XVIII, b 602, b 603

—— Era (Chronology), V, a 621; Greeks (Greece), XI, a b 96; kings (Libya), XIV, a 555; party at Athens (Aristotle), II, a 450. See DEMOSTHENES and PHOCION

Macedonicus, praetor. See Metellus

MACEDONIUS, patriarch, XV, a 146

MACEIO or Macayo, city, XV, a 146

Macellarius, emperor. See LEO I.

McEnery, J., geologist (Cave), V, b 232

MACERATA, city, XV, a b 146; (Libraries), XIV, b 550; (States of the Church), XXII, b 477

——, Cassian di, monk (Tibet), XXIII, a 368 note

Maceration, process (Oils), XVII, b 769-70; (Perfumery), XVIII, b 536

Macestus, river (Asia Minor), II, b 618; (Mysia), XVII, b 129-30

Macewen of Glasgow, physician (Surgery), XXII, a 725, b 727

MacFarlane, Donald, physicist (Elasticity), VII, b 690, b 707, a b 710; (Heat), XI, b 515

Macfarquhar, Colin, publisher (Encyclopædia), VIII, *a* b 182

Macfergus, Angus, Pictish king (Northumberland), XVII, a 584; (Scotland), XXI, *a* 499

——, Constantine, Pictish king (Scotland), XXI, a 499

Mc Fingal, satire (Trumbull, John), XXIII, *b* 944-5

MacFlecknoe, satire (Shadwell), XXI, b 763

McGill University (Montreal), XVI, a 821; (Universities), XXIII, b 912

Macgillicuddy's Reeks, mountains (Ireland), XIII, a 221; (Kerry), XIV, b 52

MACGILLIVRAY, William, ornithologist, XV, b 146-7; (Birds), III, a b 628 notes, b 629 notes, a 630 note; (Ornithology), XVIII, b 15, b 19, a 22, b 28, note, b 31, a 32, a 33, a b 52, note; (Woodpecker), XXIV, a 687; (Wren), a 724

MacGrath, Sir Charles, traveller (Persia), XVIII, a b 629, a 632, a b 639

——, John, economist (Treaties), XXIII, b 565

——, John, historian (Celtic Literature), V, a 268

——, Robert. See ROB ROY

——, R. G. (Anthology), II, b 93

——, musician (Transverse Flute), XXIII, a 554

Machærodont, fossils (Mammalia), XV, b 441; (Zoology), XXIV, b 926

Machæropterus, genus (Manakin), XV, b 462-3

Machanidas of Sparta, tyrant (Philopœmen), XVIII, a 804

Machaon of Homer, surgeon (Surgery), XXII, b 708

Machar of Aberdeen, missionary (Scotland), XXI, a 497, b 498

Mac Harold, Lord of the Isles (Ireland), XIII, a 259

Machaut or Machault, Guillaume de, poet (France), IX, a 567; (Romance), XX, a 657

Machberoth Ithiel (Harírí), XI, b 429

Machell, inventor (Tuning-fork), XXIII, b 659

Machetes, genus (Ruff), XXI, a 60

MacHeth of Moray, Malcolm, mormaer (Scotland), XXI, a b 505

MACHIAVELLI, Niccolò, statesman, XV, a 147-53
  characteristics of, a 153
  comedies, a b 152
  diplomatic services, b 147-8, a 152-3
  early writings, a b 149
  education, a 147
  estimate of Cesare Borgia, a 148
  exile and imprisonment, b 149-50
  Guicciardini, b 152-3
  History of Florence, b 151-2
  letters, a 150
  national militia schemes a 148-9
  political treatises, a 150-2
  return to public life, a 152

—— (Agrarian Laws), I, a 257; (Guicciardini), XI, b 227, a 228; (Italy), XIII, a 519, a 520; (Medici), XV, b 797, a 800; (Pisa), XIX, b 130; (Renaissance), XX, b 398

——, Zanobi, painter (Gozzoli), XI, a 23

Machicolations in Architecture, II, b 410; (Castle) (Ill.), V, a 173

Machin, John, mathematician (Squaring the Circle), XXII, a 453; (Trigonometry), XXIII, b 607

Machine, frame of (Mechanics), XV, b 760-1

—— guns (Gunmaking) (Ill.), XI, a 253-4, a b 255, a 256

—— politics (Tammany Society), XXIII, a 921

Machinery (Agriculture), I, b 271, a 276-92; (Forge), IX, b 363-4; (Jewellery), XIII, b 689-90; capacity of English (Protection), XIX, a 933; effect on wages of, XXIV, b 332-3; hydraulic (Hydromechanics), XII, a 549-67; introduction of (Ireland), XIII, a *b* 237; manufacture of (Germany), X, b 408; (Seraing), XXI, b 706; revolving light (Lighthouse), XIV, a b 636; riots (Arkwright), II, a 475, a 476; (Luddites), XV, a b 59
—— or press room (Typography), XXIII, a 757
Machines, purposes of (Mechanics), XV, a 781-2; theory of (Mechanics), b 760-84; of uniform velocity (Mechanics), a 774-9; of varying velocity (Mechanics), a 779-81
Machine Tools (Ill.), XV, a 153-8
    antiquity of, a b 153
    boring machines, b 156-7
    break lathes, b 154
    face lathes, a 155
    lathes, b 153-5
    measuring machines, b 158
    motors, a b 158
    planing machine, b 155-6
    profiling machines, b 157
    punching machines, a 158
    screw-cutting lathe, b 154-5
    screwing machine, b 155
    shaping machines, b 157
    shearing machines, a 158
    slide-rest tools, b 155
    slotting machines, a b 157
    vertical drilling machine, b 156

Machlinia, William de, printer (Littleton), XIV, a 711
Machná, river (Betul), III, b 535
Machpelah, cave (Hebron), XI, b 542-3
Macieiowski, Wenceslas Alexandre, jurist (Poland), XIX, a 315
Maciejowice, battle of, 1794 (Warsaw), XXIV, b 397
Macintosh, William, general (Georgia), X, a 394
—— cementation process (Iron), XIII, b 349, b 350
—— cloth (India-Rubber), XII, a 883
Macintyre or Duncan Ban, poet (Gaelic), X, a 13
Macistus, mountain (Eubœa), VIII, b 568
——, town (Elis), VIII, b 130
Mack, Alexander, sectary (Dunkers), VII, a 469
——, Carl von, general (Austria), III, b 115; (Napoleon I.), XVII, a 216; (War), XXIV, a 366, b 367
MacKail, Hugh, martyr (Scotland), XXI, a 538
Mackay, town (Queensland), XX, *a* b 178, a 180
——, Gordon, inventor (Shoemaking), XXI, *b* 870
——, Hugh, general (Dundee), VII, a b 465
MacKay or Calder, Rob Donn (Gaelic), X, a 13
Mackenzie islands (Caroline Islands), V, a 111
Mackenzie, Sir Alexander, explorer, XV, b 158; (Geography), X, a 170; (Polar Regions), XIX, a 330
——, Charles Frazer, bishop (Livingstone), XIV, b 727
——, Colin, general (Ellenborough), VIII, b 136; (Wilson, H. H.), XXIV, b 622
——, George, author, XV, a 159
Mackenzie, Sir George, lawyer, XV, b 158-9
——, Sir George, earl of Cromarty (Archery), II, a 327, a 328
——, Sir George, traveller (Geysers), X, b 497
Mackenzie, Henry, author, XV, a 159-60
—— River. See Athabasca
—— River Dog, VII, b 281, a 282
—— valley races (Indians), XII, b 867
Mackerel, fish, XV, a 160-1; (Cork), VI, a 358; (Fisheries), IX, a 213, *b* 218, a 221, b 229 note, a 231, *b* 232, a 233, *a* 234; (Ichthyology), XII, b 702, b 728; (Newfoundland), XVII, a 391; (Tunny), XXIII, b 665, a 666 note
Mackie's composing machine (Typography), XXIII, a 747
Mackinaw or Mackinac, strait (St. Lawrence), XXI, b 187
Mackintosh, Donald, antiquary (Gaelic), X, *b* 11
Mackintosh, Sir James, publicist, XV, a 161-2; (Gentz), X, *b* 145, a 146; (Gibbon), *a* 519; (Grote), XI, a 190; (Grotius), a 196; (Hall, Robert), a b 349; (Hartley), a 446; (Mill, James), XVI, b 319, a 320
Maclaren, Archibald, athlete (Gymnastics), XI, b 312, a 313
——, Charles, editor (Encyclopædia), VIII, a 184; (Geology), X, a 265
M'Lauchlan, Thomas, antiquary (Celtic Literature), V, a 272, *a* 284
Maclaurin, Colin, mathematician, XV, a 162-3; (Bee), III, b 423; (Earth), VII, a 519; (Hydromechanics), XII, *a* 453, a 465; (Infinitesimal Calculus), XIII, a b 66; (Telescope), XXIII, a 149; (Tides), a 378, b 386; his series (Infinitesimal Calculus), XIII, b 21, a 22, a 66
——, John, Lord Dreghorn, judge, XV, a 163
Maclean, Charles, editor (Newspapers), XVII, b 443
——, Elizabeth Letitia, poetess. See Landon
McLean, John, jurist (Taney), XXIII, b 921, a 922
Maclear, Sir Thomas, astronomer (Earth), VII, a 517, a 518; (Observatory), XVII, b 736; (Parallax), XVIII, b 257
Macleay, William Sharpe, naturalist (Ornithology), XVIII, a b 19 note, a 20
M'Lennan, John Ferguson, sociologist, XV, a *b* 163; (Ethnography), VIII, b 543-4
Macleod, Norman, divine, XV, b 163-5; (Church), V, a 664
McLeod case (Webster), XXIV, b 499
Maclise, Daniel, painter, XV, b 165-6
Mac Lonain, Fland, poet (Ireland), XIII, a 257
Maclure, William, geologist, XV, a 166
Mac Mac district (Transvaal), XXIII, b 550
MacMahon, Marie Edme Patrice Maurice, president of France (Algeria), I, b 501; (Austria), III, a 121; (France), IX, b 549, *a* 552, *a* b 553; (Paris), XVIII, b 300; (War), XXIV, b 367-8, b 371
Macmillan, John, clergyman (Free Church of Scotland), IX, *b* 655
M'Murrough, Art, of Leinster (Ireland), XIII, a 267
——, Dermod, king of Leinster (Ireland), XIII, b 264-5; (Wexford), XXIV, *a* b 550
Macnaghten, Sir William, ambassador (India), XII, b 846
M'Naught, inventor (Steam-Engine), XXII, b 495, b 514; his indicator (Steam-Engine), a b 510
Macnee, Sir, Daniel, portrait painter, XV, a b 166
Macneill, Hector, poet, XV, b 166
——, Sir John, envoy (Persia), XVIII, b 661, a b 662
Macnish, Robert, physician (Phrenology), XVIII, b 858
Macomb, Alexander, general *b.* 1782, *d.* 1841 (Scott), XXI, b 576 note, a 577 note
——, J. N., explorer (Surveys), XXII, b 936, a 938
Macomo, chief (Kaffraria), XIII, *a* 827
Macon, France, town, XV, b 166-7; (Wine), XXIV, a 639
Macon, Georgia, city, XV, a 167
Maconochie on Prison Discipline, XIX, *a* 774
Macotherium, fossils (Mammalia), XV, b 392
Macphail of Colonsay, myth (Whirlpool), XXIV, *b* 572
Macpherson, Charles, on irrigation (Agriculture), I, b 332
Macpherson, James, poet, XV, a b 167; (Celtic Literature), V, a b 272; (Fenians), IX, b 66, a 67; (Fingal), a 187; (Gaelic), X, a b 13; (Johnson, S.), XIII, b 738
—— straits (Andaman Islands), II, a 12
Macquarie, governor (Prison Discipline), XIX, *b* 769
—— Lake (New South Wales), XVII, b 418, b 419; (Sydney), XXII, b 847; river (Australia), III, *a* b 91, b 93, b 94
McQueen, Walter, inventor, (Steam-Engine), XXII, a 924
Macquer, Pierre Joseph, chemist (Chemistry), V, b 398, b 399
Macrauchenia, fossil (Horse), XII, b 176; (Llama), XIV, a 745; (Mammalia), XV, a 432, b 434
Macready, William Charles, actor, XV, b 167-8
MacRegol, scribe (English Bible), VIII, a 342
Macreuse, bird (Coot), VI, a 303
Macri, gulf of (Lycia), XV, *b* 94
Macrinus, Marcus Opilius, Roman emperor (Heliogabalus), XI, *b* 564; (Persia), XVIII, b 616
Macrobdella valdiviana, species (Leech), XIV, b 405
Macrobius, Ambrosius Theodosius, grammarian, XV, a b 168; (Janus), XIII, b 578; (Sosigenes), XXII, b 289
Macrocarpa Pine, XIX, a 114
Macrocephalus, species (Whale) (Ill.), XXIV, a 554, b 557
Macrocercus, genus (Macaw), XV, a 131
Macrocheires, group (Humming-Bird), XII, b 371
Macroclemmys, genus of chelonians (Tortoise), XXIII, b 487
Macrococci (Schizomycetes) (Ill.), XXI, a 416, b 418
Macrocystis, genus (Algæ), I, b 449
Macrodipteryx, genus (Goatsucker), X, b 634
Macrodome, crystal-form (Mineralogy) (Ill.), XVI, b 373
Macroglossa, genus (Butterflies), IV, a 528
Macroglossus, genus (Mammalia), XV, a b 414
Macrones, fish (Ichthyology), XII, a 710, a 714, b 730
Macronyx, genus (Pipit), XIX, b 121
Macrophthalmus, genus (Crustacea), VI, a 579, a 580
Macropodidæ, sub-order (Kangaroo), XIII, b 849; (Mammalia), XV, b 384
Macropoma, sub-family (Ichthyology), XII, b 706, b 725
Macropus, genus (Kangaroo) (Ill.), XIII, a 848, b 849
Macrorhinus, genus (Mammalia), XV, b 368, b 450; (Seal), XXI, a 610
Macrorhynchus (Planarians), XIX, b 184
Macroscelidæ, family (Mammalia) (Ill.), XV, a b 406
Macrosporangium (Reproduction), XX, a 437
Macrotheriidæ, fossils (Mammalia), XV, b 392
Macrotis, genus (Mammalia), XV, a 384

Macroura, sub-order (Crustacea), VI, *b* 561, a 564, a b 566, a 567, a 568, b 573 note, b 579, b 580, a 581, a 582, b 584; (Distribution), VII, *a* 242, 246; (Shrimp), XXI, a 886
Macruridæ, family (Ichthyology), XII, a b 722, a 723, b 730
McSwiney's Gun, cavern (Donegal), VII, b 314
Mactear's process (Sodium), XXII, *a* b 256
Mactra, genus (Mollusca) (Ill.), XVI, a 711, b 718
McTyeire, Holland Nimmons, bishop (Vanderbilt), XXIV, b 875-6
Macucagua, bird (Tinamou), XXIII, b 429
Maculla, town. See MAKALLA
Madách, Emeric, poet (Hungary), XII, a 294
Madadkatte dam (Káveri), XIV, a 21
MADAGASCAR, island (Plate IV), XV, b 168-76
  commerce, a b 173
  exploration, b 168
  fauna, a b 171
  flora, b 170-1
  geology, a b 170
  government, b 175-6
  history, a 174-6
  industries, a 172-3
  inhabitants, b 171-2
  language, a 172
  literature, a b 176
  physical features, a 169-70
  religion and morals, b 173-4
  society, a b 172
  water system, b 169-70

—— (Africa), I, 231, *a* 232, b 234, b 236, a 237, b 243; (Ellis), VIII, a 140; (Flacourt), IX, b 240-1; (Forests), b 359; (Funeral Rites), a 725; (Honey), XII, b 140, a 141; (Ichthyology), a 711; (Indian Ocean), b 860, b 861; (Lemur), XIV, b 440-1; (Mouse), XVII, a b 12; (Negro), b 328; (Reptiles), XX, b 482, b 486; (Slavery), XXII, *b* 152; fauna (Mammalia), XV, a b 171; (Birds), III, a b 659; (Distribution), VII, a b 235, b 239; flora, XV, b 170-1; (Distribution), VII, a 252; fossil Birds, III, a 634; marriage in (Caste), V, a 163. See Malagasy
—— gum (India-Rubber), XII, b 876, *b* 879
—— spice tree (Madagascar), XV, a 171
Madáin, city (Mohammedanism), XVI, a 601
Madáiní, historian (Tabarí), XXIII, b 6-7
Madalena, mountains (New Mexico), XVII, a b 410
Madalon, mountain (Sabah), XXI, b 131, a 132
Madama, Villa (Raphael), XX, b 293, note; (Turin), XXIII, b 670
Madame, Isle (Nova Scotia), XVII, a 616
Madame de Fleury (Edgeworth, Maria), VII, b 567
Madan, Martin, chaplain (Romilly), XX, a 861
Madâwerah, 'Ain el (Galilee), X, b 27
MADDALONI, city, XV, b 176-7
——, Duke of (Masaniello), XV, *a* b 613, a 614
MADDEN, Sir Frederic, palæographer, XV, a b 177
MADDER, root, XV, b 177; (Alizarin), I, a 509; (Botany) (Ill.), IV, a 79, b 97, a 104, b 118, a 119; (Calico-Printing), IV, *a* 609, b 610, a 614; (Hunter, J.), XII, a 402; (Huntingdon), b 413; artificial (Coal Tar Colors), XVIII, a b 905; carmine (Pigments), XIX, b 96; purple (Dyeing), VII, b 500; red (Dyeing), a b 497
Madé, town (Burmah), IV, b 495
MADEIRA, islands (Plate III), XV, b 177-82
  agriculture, b 178-9
  botany, b 181
  climate and meteorology, b 180
  Desertas, the, b 182
  geology, b 181-2
  history, a 178
  inhabitants and government, b 178
  physical features, b 177-8
  Porto Santo, b 182
  trade and commerce, b 179-80
  zoology, b 180-1

—— (Africa), I, b 243; (Distribution), VII, a 235; (Geography), X, a 161; Wine, XXIV, a 637, a 640, b 641, a *b* 642; Adulteration of, I, b 157
—— river (Amazon), I, a b 575; (Bolivia), IV, *a* 12
Madelaine cave (Archæology), II, b 295
Mädele-Gabel (Algau), I, a 450
Madeleine, church of the (Paris), XVIII, b 299
—— of France, queen of Scotland, XXI, a 521
—— mountains (France), IX, b 445; (Loire, Department), XIV, b 816
Mademoiselle de Maupin (Gautier), X, a 106
Maderaspatam, factory (India), XII, b 838
Maderna, Stefano, sculptor (Cecilia), V, b 247; (Sculpture), XXI, a 597
Mâdhava Achârya, exegete (Sanskrit), XXI, b 302, *b* 303
Madhubani, town (Tirhut), XXIII, b 434
Madhumati, river (Jessor), XIII, a 656
Madhupur jungle (Maimansinh), XV, a 297
Madi. See Mahdi
Madia oil (Oils), XVII, a 765, a 766, a 767
Madio, Emanuele de, senator (Rome), XX, b 814
MADISON, Indiana, city, XV, b 182
MADISON, Wisconsin, city, XV, b 182-3
MADISON, James, president, XV, a 183-5; (Gallatin), X, *b* 36, a 37; (Patents), XVIII, a 873; (Slavery), XXII, b 908; (Tammany Society), XXIII, b 920; (Taylor, J.), *a* 927; (United States), b 799, b 800, b 801, *b* 804, *b* 807; *Life and Times of* (Rives), XX, a 910
—— or Shoshone Lake (Yellowstone Park), XXIV, a 773
—— river (Yellowstone Park), XXIV, b 773, *b* 774
—— University (Hamilton, N. Y.), XI, b 367
Madja language (Java), XIII, *b* 618
Madjapahit, city (Java), XIII, a b 620, note
Mädler, J. H. (Astronomy), II, a b 701, *b* 704, b 708
"Mad Meg," cannon (Ghent), X, b 503
Madness. See INSANITY
Madonie mountains (Sicily), XXII, *a* b 35
Madonna (Correggio), VI, b 387; (Ghirlandajo), X, b 507-8; (Giorgione), b 542; (Guido), XI, b 229
Madonna, Ansidei (Raphael), XX, a 289; Borghese gallery (Leonardo), XIV, a 457 note; Cimabue's (Schools of Painting), (Ill.), XXI, b 451; Connestabile (Raphael), XX, a 287; Crivelli's (Schools of Painting), XXI, b 454; Mantegna's (Schools of Painting) (Ill.), a 454; Leonardo da Vinci (Schools of Painting), b 456; Perugino's (Schools of Painting) (Ill.), a 454; of St. Antonio (Raphael), XX, b 288, note; San Severino (Pinturicchio), XIX, b 117; Sistine (Piacenza), a 72; (Urbino), XXIV, b 14-5; Van Eyck's, Louvre (Schools of Painting), XXI, b 457; Wonder-working (Pilgrimage), XIX, a 104
Madonna and Child, paintings (Cimabue), V, a *b* 680; (Moretto), XVI, b 847; (Parmigiano), XVIII, b 323
—— *and Saints*, painting (Perugino), XVIII, b 695; *del Baldacchino* (Raphael), XX, a 289; *Della Perla* (Raphael), b 292, note
——, della Steccata, church of (Parma), XVIII, a 320; *della Vittoria* (Mantegna), XV, a 509
Madonna seated, bas-relief (Michael Angelo), XVI, a 239
MADRAS, presidency (Plan), XV, a 185-90
  administration, b 187-8
  agriculture, b 186-7
  climate, a 188
  city, a b 190
  fauna, b 185-6
  history, a 188-90
  industrial features, a b 187
  physical features, a b 185
  population, a b 186

—— (Army), II, b 516, b 518; (India), XII, a 772, b 774, b 777, b 782, a b 783, *a b* 784, a 785, *a* b 787, b 788, *b* 789, *a* 791, a b 793, b 797, *a b* 798, a 799, *a b* 806, a b 808, a 810, b 811-3, *a* b 815; (Sandalwood), XXI, b 268, a 269; (Weights and Measures), XXIV, a b 518; acquisition of (India), XII, *b* 839, b 842, b 843
MADRAS, city (Plan), XV, b 189, a b 190; (Clive), VI, b 9-10; (Hastings), XI, *b* 458, b 459-60; (Libraries), XIV, a 552; (Newspapers), XVII, b 443; Observatory, a 737; (Time), XXIII, b 421
—— College (St. Andrews), XXI, b 166
—— University, XXIII, a 912
Madrasa, school (Sunnites), XXII, a 696, note
Madre de Dios Archipelago (Patagonia), XVIII, a 357
Madreporic canal (Echinodermata), VII, b 545, a 546, a 548, b 549, b 554
Madreporidæ, family (Corals) (Ill.), VI, b 329, b 333, b 334, a 337
MADRID, province, XV, b 190-1; (Spain), XXII, b 312, b 316, a 317, *b* 318
MADRID, city (Plan), XV, a 191-3; (Academy), I, b 71, b 73, b 75; (Libraries), XIV, a 532, b 551; (Murillo), XVII, *a* 63; (Newspapers), *b* 442; (Observatory), a 734; (Spain), XXII, b 310, a 311, a 313, *b* 316; (Wellington), XXIV, *a* 524
—— Gallery, XV, b 192; (Rubens), XXI, b 47, a b 48, a b 51; (Schools of Painting), b 466; (Titian), XXIII, a 443; (Velazquez), XXIV, a *b* 144, a 145, *a* 146, *b* 147
MADRIGAL, musical composition, XV, a b 193; (Bird, Wm.), III, a 604; (Glee), X, a 604; (Music), XVII, a 91
Madrona or Madroño tree (United States), XXIII, a 862
MADURA, district, XV, b 193-4
MADURA, island, XV, b 194-5; (Indian Archipelago), XII, b 857, a b 858, *a* 859; (Java), XIII, a b 611, b 617, b 618
MADURA, city, XV, a b 194; (India), XII, a b 832, a 833; siege of, 1763 (Rennell), XX, b 410, note
Madvig, Johan Nikolai, philologist (Denmark), VII, a 82
Mæander river (Asia Minor), II, *a* 619, b 620; (Ionia), XIII, a b 211; (Miletus), XVI, b 306, a 307; (Phrygia), XVIII, a 867
Mæatæ, tribe (Caledonia), IV, a 589
MÆCENAS, C. Cilnius, statesman, XV, a 195-6; (Baths), III, b 375; (Horace), XII, a *b* 164, *a* b 165, a 166; (Virgil), XXIV, b 269, b 270
Maecht, Jan de, artist (Middelburg), XVI, a 290
Maedoo, town (Burmah), IV, b 492

Maelgwn Gwynedd, prince, Wales (Eisteddfod), VII, a 686
Mælius, Spurius, knight (Cincinnatus, V, b 685
Mael Milscothach's Cathair (Celtic Literature), V, a b 271
Maelmorda, king (Ireland), XIII, b 259
Maelmuad or Molloy, king (Ireland), XIII, b 258-9
Maelzel, Johann Nepomuk, mechanician (Magic), XV, a 209, a 211; (Metronome), XVI, a b 206
Mænads, Bacchanals (Orgies), XVII, b 863
Mænalus, mount (Mantineia), XV, b 510
Mænian law (Rome), XX, b 757
Mæniana, galleries (Amphitheatre), I, b 680
Mæonia, district (Lydia), XV, b 99, a 100, a 101
Maerlant, Jakob van, poet (Holland), XII, *a* 89, a 92, a *b* 93, *a* 94, a 95; (Romance), XX, b 654
Maes, Godefroi, painter (Hooch), XII, b 147
Mæsa, Julia, empress (Heliogabalus), XI, *b* 564
Maese, river. See MEUSE
Maeseyck, town (Limburg), XIV, a 652
Maestlin, Michael, astronomer (Micrometer), XVI, a 250
Maestre della Milizia, magistrates (Venice), XXIV, a b 153
Maestri, Pietro, statistician (Italy), XIII, a 457, a 472
MAESTRICHT, town, XV, b 196-7; (Holland), XII, a 66, a 67, *a* 82; partition of district (Belgium), III, a 457; siege of, 1673 (Farnese), IX, b 34; (France), b 508
MAFFEI, Francesco Scipione, archæologist, XV, a b 197; (Drama), VII, a 361; (Italy), XIII, a 522; (Pianoforte), XIX, b 78, *a* b 79; (Verona), XXIV, a 186, b 187
Maffei Volaterranus, Raphael, scholar (Encyclopædia), VIII, a-b 176
Mafia or Monfia, island (Zanzibar), XXIV, *a* b 806
——, secret society (Sicily), XXII, b 36
Mafŏr language (Papuan Languages), XVIII, a 235
MAFRA, town, XV, b 197
Magadha, kingdom (India), XII, b 826-7; language of (Alphabet), I, b 534; (Hindustani), XI, b 750; kings of (Behar), III, a 439
Magadis, instrument (Music), XVII, b 86
Magalhaes, navigator. See MAGELLAN
Magaliesberg, range (Transvaal), XXIII, a 550
Magaña, river (Spain), XXII, a 308
Magarah, Wady (Cheops), and (Chephren), V, a 506
Magars, people (Nepal), XVII, a b 350
Magas, genus (Brachiopoda) (Ill.), IV, a 171, a 172, b 176
——, king (Egypt), VII, b 645, a 646
Magati, Cesare, physician (Surgery), XXII, b 710
Magazine (Fortification) (Ill.), IX, a 387
—— rifles (Gunmaking) (Ill.), XI, b 252
Magazines (American Journalism), XVII, a 892-3; (Periodicals), XVIII, b 547-8
MAGDALA, town, XV, b 197; (Abyssinia), I, a 62, *a* 64, b 65, a b 66
——, town (Galilee, Sea of), X, a 28
—— red (Coal Tar Colors), XVIII, a 905
Magdalena, bay (California), IV, a 617
——, island (Patagonia), XVIII, a 357
—— river (Colombia), VI, b 137-8; (Honda), XII, b 132
Magdalen college (Cambridge, Town), IV, a 647; (Libraries), XIV, b 519, a 543; (Pepys), XVIII, a 530, b 531
—— college, Oxford (Architecture), II, a 404, a 415, b 416, b 418; (Hymns), XII, a 620; (Oxford), XVIII, b 100; (Penn), b 506
—— hall (Oxford), XVIII, b 100, b 101
—— islands (Quebec), XX, a 172
Magdalene, painting (Correggio), VI, b 387; Van der Weyden's (Schools of Painting) (Ill.), XXI, a 458
Magdeburg, duchy (Saxony), XXI, a b 375, *a* 376
MAGDEBURG, town (Plan), XV, b 197-8; (Universities), XXIII, b 902; convention, 1526 (Luther), XV, a 81; sack of, 1631 (Gustavus II.), XI, b 298; (Tilly), XXIII, b 417
Magdeburg Centuries (Church History), V, b 668
—— hemispheres (Hydromechanics), XII, b 461
Magdeburgicum Jus. See *Jus Magdeburgicum*
Magdoshu or Magadoxo, station (Zanzibar), XXIV, a 806, a 807
Magee, William, archbishop (Plymouth Brethren), XIX, b 250; (Smith, A.), XXII, a 180
MAGELLAN or Magalhaes, Fernando, navigator, XV, b 198-9; (Argentine Republic), II, b 430; (Geography), X, a b 163; (Ladrone Islands), XIV, a 200, a 201; (Pacific Ocean), XVIII, a 119; (Patagonia), b 358; (Tierra del Fuego), XXIII, a 411; (Tuamotu), a 640
——, islands (Micronesia), XVI, a 267
——, strait (Pacific Ocean), XVIII, a b 119; (Patagonia), a 357, note; (Tierra del Fuego), XXIII, b 409
——, territory (Chili), V, a 535, *b* 536, a 538, a b 539, a b 540, a b 541; (Patagonia), XVIII, a 357
Magellanic clouds (Astronomy), II, a 719
Magenta, battle of, 1859, (Austria), III, a 121; (France), IX, b 549; (Italy), XIII, a 500
Magenta-dye (Aniline), II, a 44; (Coal Tar Colors), XVIII, a b 902, a 903
Maggia, river (Maggiore), XV, *b* 199; valley (Ticino), XXIII, b 373
MAGGIORE, Lago (Map), XV, a b 199; (Alps), I, b 550, a 551; (Italy), XIII, a 445, b 449; (Switzerland), XXII, b 814, *a* 815
——, mount (Istria), XIII, a 443
Mâgha, poet (Sanskrit), XXI, b 297, note
"Magházil," monument (Phœnicia), XVIII, b 823
Magherafelt, town (Londonderry), XIV, *b* 863
MAGHIÁNA, town, XV, a 200
Maghil, village (Bussorah), IV, b 514-5
Maghrebins, Western Moslems (Mohammedanism), XVI, b 601
Maghrib. See MOROCCO
Maghs, race (Arákán), II, b 268; (Bákarganj), III, a 214; (India), XII, b 845
Magi, Eastern priests (Jesus Christ), XIII, b 671; (Caste), V, a b 167; (Epiphany), VIII, b 428-9; (Mohammedanism), XVI, b 583; (Persia), XVIII, a 576; (Syriac Literature), XXII, a 871, note; (Zend Avesta), XXIV, a 815; (Zoroaster), b 862
——, *Adoration of the* (Peruzzi), XVIII, b 696
"Magia," science of (Pico), XIX, b 89
Magia Naturalis (Porta), XIX, *b* 540
MAGIC, XV, a 200-7
    Asiatic, modern, a 204-5
    Babylonian-Assyrian, a b 202
    characteristics of, a b 200
    Christendom, a b 205
    Egyptian, b 201-2
    elements of, material, b 206-7
    Greek and Roman, b 202-3
    origin of, b 205-6
    philosophic and theurgic, b 203-4
    savage, b 200-1
    scientific results of, b 207
—— (Abano), I, b 12; (Abracadabra), a 54; (Alchemy), *a* 407; (Apparitions), II, b 177; (Babylonia), III, b 167; (Cannibalism), IV, a b 713; (Ethnography), VIII, b 547; (Hecate), XI, b 543; (Lapland), XIV, a b 307; (Legerdemain), a 415-6; (Lhasa), a b 499; (Lycanthropy), XV, b 91-2; (Priest), XIX, a 745, a 746; (Religions), XX, *a* 380, a 382; legends of (Scot), XXI, a *b* 491
MAGIC, WHITE, XV, b 207-12
    acoustic, b 208-9
    automata, b 211-2
    electro-magnetism, b 209-10
    fire-tricks, b 209
    improvements, b 210
MAGIC, WHITE, *continued*
    materialized spirits, a 212
    mechanical tricks, b 210-2
    mind-reading, a 209
    reappearances, b 210-1
    spectral, b 207-8
Magic Flute (Hummel), XII, b 370
MAGIC LANTERN (Ill.), XV, a 212-4
    light, b 212-3
    mechanism, a b 212
    slides, b 213-4
—— (Magic), XV, *a* 208
—— Mirrors, XVI, b 524
MAGIC SQUARE (Ill.), XV, a 214-7
    even roots, b 215
    history, a b 214
    Nasik cubes, b 216-7
        squares, b 215-6
    odd roots, b 214-5
Maginus or Magini, Giovanni Antonio, astronomer (Tables), XXIII, b 12
Magister, Thomas, scholiast (Greece), XI, *b* 130
Magistracies, imperial (Rome), XX, a 789-90
MAGISTRATE, XV, b 217
Magistri Militum, generals (Rome), XX, *a* 796, b 800, a 801. See Maestre del Milizia
MAGLIABECHI, Antonio, bibliophile, XV, b 217-8; collection of (Libraries), XIV, a 529
Magloire, St., missionary (Channel Islands), V, b 349
Magmas of Durocher (Geology), X, b 198-9
Magna Charta (Assize), II, a 638; (Charter), V, a *b* 374; (Dublin), VII, a b 433; (Ecclesiastical Law), a 543; (England), VIII, a 276, a b 277; (Finance), IX, b 154, b 155; (Fine), a 169; (Forests), a 361; (Henry III., England), XI, a 587; (Ireland), XIII, a 266; (John of England), b 724-5; (Labor), XIV, a 167; (Langton), b 287; (London), a 839; (Parliament), XVIII, b 309, a b 310; (Peerage), a 470, b 472, a 473; (Petition), a 717; (Scotland), XXI, a 507, a 509; (Torture), XXIII, a 494; (Waste), XXIV, b 414; Women), b 673; (Writ), b 728, a 729
MAGNA GRÆCIA, country, XI, a b 28; (Dionysus), VII, b 217; (Metapontum), XVI, a 108; art of (Terra-Cotta), XXIII, b 210; conquest of (Rome), XX, b 762-3, a,770
Magnanerie, house (Silk), XXII, b 64
Magnecrystallic couple (Magnetism), XV, b 266-7; phenomenon (Magnetism), a 248, a 251, b 266-8
Magnentius, archbishop. See HRABANUS MAURUS
—— of Rhætia, pretender (Rome), XX, b 796
MAGNESIA of Ionia, city, XV, a 218; school of (Archæology), II, a 305

Magnesia of Lydia, city, XV, a 218
Magnesia, mineral (Furnace), IX, b 741; (Mineralogy), XVI, b 386, a 404, b 433-4; (Magnesium), XV, a b 219; (Manure), b 516
—— alba, explosive (Nitroglycerin), XVII, b 534
—— process (Sodium), XXII, b 257-8
Magnesian fluxes (Iron), XIII, a b 303
—— limestone (Geology), X, a 207; (Building), IV, a 420; (York), XXIV, b 784
Magnesio-ferrite (Mineralogy), XVI, a 402
Magnesite (Mineralogy), XVI, a 414
MAGNESIUM, metal, XV, a 218-9; (Chemistry), V, a b 456, b 457; (Iron), XIII, b 295; (Nickel), XVII, b 501, note; silicate of (Meerschaum), XVII, b 834; chloride, solubility of (Chemistry), V, *a* 420; spectra of group (Spectroscopy) XXII, b 390
Magnet, mountain (Western Australia), XXIV, b 535
——. See Magnets
Magnetic action (Electricity), VIII, b 10-11; (Gravitation), XI, *a* b 59
—— carbide (Filter), IX, a b 148, b 149
—— Clocks (Ill.), VI, b 25-6
—— curves (Magnetism) (Ill.), XV, a 223-4, a b 226, a b 257-8; dip observation (Meteorology), XVI, b 164-8; disturbances (Meteorology), b 191; disturbances and sun-spots (Astronomy), II, a b 688
—— field, XV, a 223-4, a 228, a 229, a 231, *b* 245, a 246-9, a b 254, b 263; (Lighting, Electric), XIV, b 638; strength of, XV, a 228
—— gauze (Filter), IX, b 149
—— induction defined (Electricity), VIII, a 64, note. See Induction
—— intensity, XV, a 229
—— instruments for surveying, XXII, *b* 755
—— measurements (Dimensions), VII, b 210
—— needle. See COMPASS, Needle
—— ore (Iron), XIII, a 292, a b 293, b 297; properties of Iron, XIII, b 284, b 285, a 286
—— oxide protective coating (Iron), XIII, a b 367
—— pole. See Poles
—— rotation of polarized light (Wave Theory), XXIV, a 477
—— shell (Electricity), VIII, b 63-4
—— sounds XV, b 272-3
—— storms. See Storms
MAGNETISM (Ill.), XV, a 219-79
electro magnets, a b 277
INDUCTION, b 244-63
approximate theory for finite bodies, b 249
Auerbach's experiments, a 261-2
axioms, b 244-5

MAGNETISM, *continued*
INDUCTION
Bouty's experiments, a 259-60
classification of bodies, a b 245
compass deviations, b 252-4
early experiments, a 252
ellipsoid, æolotropic homogeneous, field uniform, b 246-8; isotropic, etc., b 248
experiments in, a 254-63
Fromme's experiments, a 260-1
general conclusions, a 258-9
history, a 251-2
iron and steel, influence of properties of, b 262
isotropic media, generalized theory, b 250-1
κ, earlier values of, a 256-7
literature, a b 262-3
mathematical theory, b 244-52
metal filings and electrolytic iron, a 263
method, experimental, a 255-6
problem in general, b 249-50
Rowland's experiments, b 257
sphere, æolotropic homogeneous, field uniform, b 245-6
sphere, isotropic homogeneous, field uniform, b 246
sphere, small æolotropic, field not uniform, a b 248
sphere, small isotropic, field not uniform, b 248-9
Stoletow's experiments, a b 257
strongly magnetic bodies, a 252-3
uniform field, importance of, a b 254
introductory, a 219-20
INVERSE SQUARE, experiments in law of, b 237-9
laminated magnets, b 277-8
LEADING PHENOMENA, a 220-7
ancient knowledge, a 220
axis and meridian, b 220-1
compass, discovery of, a b 220
earth's coupling action, a b 224
field, magnetic, a 223-4
induction experiments, b 224-7
iron filings experiment, a b 226
molecular property of magnetism, b 224
needle and dip, a 221-2

MAGNETISM, *continued*
LEADING PHENOMENA
polar attraction and repulsion, b 222
permanent and induced magnetism, relations of, a b 227
terella or ideal earth, b 223-4
MAGNETS, forms of, a 276-8
MEASUREMENTS (Ill.), a 239-44
axial direction and declination, a 239-40
carrying power of magnet, b 244
deflection experiments, b 240-1
distribution, determination of, a 243-4
electromagnetic induction, method, b 241-2
history of, b 242-4
moment and horizontal intensity, a 240-1
statical method, b 241
vibration experiments, b 240, b 242
molecular magnet, theory, b 278-9
PERMANENT MAGNETIZATION, mathematical theory of, b 227-37
dip of needle theory, b 228-9
distribution, b 229-30
elementary laws of, b 227-8
field, properties of, a 228-9
induction, a b 230
inside magnetic force, a 230
lamellar magnets, b 233-5
magnetic moment resolved, a b 229
parallels and meridians, b 236-7
potential, approximate expression for, b 234-5
potential energy of two magnets, b 230-1
solenoidal magnets, a 230, b 231-2
terrestrial magnetism, Gauss's theory, b 235-6
translation, force of, a b 235
uniformly magnetized bodies, b 232-3
PROPERTIES OF MATTER in general, a 263-76
magnetic, a 263-70; crystalline forms and magnetic æolotropy, a b 268; data of weak susceptibilities, a 269-70; early observers, a b 263; Faraday's experiments, b 263-5; gases, a 265-6; magnecrystallic

MAGNETISM, *continued*
PROPERTIES OF MATTER
phenomena, b 266-8; paramagnetics and diamagnetics, experimental law of, b 264-5; polarity, diamagnetic, b 268-9; testing arrangements, b 263-4
relations of diverse properties, b 270-6; general views, a b 273; heat development, a b 275; miscellaneous relations, b 275-6; shocks and vibrations, b 270-1; sounds, magnetic, b 272-3; strain, mechanical, a b 271; temperature, effect of, b 273-5; torsion, effects of, a b 272; traction, effects of, b 271-2
ULTIMATE THEORIES, a 278-9
vortex theory, a b 279
——(Æpinus), I, a 166; (Aëronautics), b 175-6, b 179; (Ampère), b 656; (Arago), II, a 266; (Aurora), III, a 84-5; (Cobalt), VI, a 76; (Electricity) (Ill.), VIII, b 4, b 10-1, b 38-9, b 62-78, a b 97-8; (Gaus), X, b 104; (Gay-Lussac), b 109; (Gilbert), b 528; (Humboldt, A.), XII, b 357, *a* 358; (Laplace), XIV, b 303, a 304; (Metals), XVI, a 73; (Mining), a 488; (Perpetual Motion), XVIII, b 566-7; classification of (Physical Sciences), XIX, b 6-7; in minerals (Mineralogy), XVI, b 391; of rocks (Geology), X, a b 205. See Electro-magnetism
MAGNETISM, ANIMAL, XV, b 279-85
definitions, b 279
history, b 279-81
inhibitory action, a b 283-4
insensibility to pain, a 284
literature, a b 285
nervous phenomena, b 284-5
phenomena and physiological explanation, b 281-5
process of inducing mesmerism, a b 281, b 282-3
reflex muscular action, a b 284
state of the nervous system, b 281-4
——, terrestrial (Ill.), XV, b 223-4, b 235-6; (Hansteen), XI, a b 404; (Mayer), XV, a 656; (Meteorology), XVI, a 164-92; (Scoresby), XXI, a b 490
Magnetite, mineral (Geology), X, a 204, a 205, b 207; (Mineralogy), XVI, b 378, a 382, a 383, a 392, b 401; (Mining), a 491; iron ores (United States), XXIII, *b* 866, a 867

Magnetization (Electricity), VIII, a 11; (Michell), XVI, a 246; permanent (Magnetism), XV, b 227-37
Magneto-electric machines (Electricity), VIII, a b 12; (Lighting), XIV, b 638; theories (Thunderstorm), XXIII, a 351; theory of light (Ether), VIII, a b 504. See Electro-magnetic
Magnetographs (Meteorology) (Ill.), XVI, b 166, b 167, b 168, a-b 180, b 184
Magnetometer (Ill.), XV, b 239-41; (Meteorology), XVI, a 165-8; differential (Ill.), b 166; horizontal force (Ill.), a 167; vertical force (Ill.), a 167-8
Magneto-telephone (Telephones), XXIII, b 930-1
Magnets, bundles of (Magnetism), XV, a 277; construction of (Magnetism), (Ill.), b 262, a 276-8; electro- (Electricity), VIII, a 11; (Henry, J.), XI, b 601-2; form of (Magnetism) (Ill.), XV, a 276-8; horseshoe (Magnetism), b 277, a 278; literature of (Magnetism), b 262-3; preservation of (Magnetism), a 278; steel (Magnetism), b 276; transference of energy (Mechanics), a b 735; undulations in (Wave Theory), XXIV, a 440. See Electro-magnets.
Magnifiers, natural (Microscope), XVI, b 268
Magnifying power (Microscope), XVI, b 269-a 270, a 272, b 276, a 281; determining (Telescope), XXIII, a b 151; law of (Wave Theory), XXIV, a 446
Magnitude of stars (Photometry), XVIII, a b 854-5
Magnitudes (Mensuration), XVI, a b 17; ratios of (Geometry), X, b 340-1. See Incommensurable Magnitudes
Magnol, Pierre, naturalist (Magnolia), XV, b 285
MAGNOLIA, tree, XV, b 285-6; (Arboriculture), II, b 276, b 280; (Botany), IV, b 102, a 106, a 118, b 135, b 137, a 140; forests (America), I, b 601; (United States), XXIII, a 860
Magnoliaceæ, order (Botany), IV, *b* 114, b 117; (Magnolia), XV, b 285-6
Magnolite (Mineralogy), XVI, b 419
Magnon, Jean de, historiographer (Encyclopædia), VIII, a 177
Magnum Concilium, English (Privy Council), XIX, a *b* 785
Magnus, Saint, bishop (Venice), XXIV, a 160
—— I., the Good, son of St. Olaf, king of Norway (Harold III.), XI, *b* 433; (Norway), XVII, b 601-2
—— II., Barefoot or Bareleg, king of Norway (Iona), XIII, a 210; (Ireland), b 260; (Man, Isle of), XV, a 461; (Norway), XVII, a 602; (Scotland), XXI, *a* 504
—— III., king, Norway (Harold IV.), XI, a 434; (Norway), XVII, a 602
—— IV., son of Erling Skakke, king (Norway), XVII, a b 602
—— V., Lagabætr, king, Norway (Alexander III.), I, a 431; (Norway), XVII, b 602-3; (Scotland), XXI, a 504
Magnus I., Ladu-laas, king (Sweden), XXII, a b 784
—— II., Smek, king (Sweden), XXII, b 784
—— Clemens. See MAXIMUS
MAGNUS, Heinrich Gustav, physicist, XV, a 286; (Electricity), VIII, a *b* 89; (Electrolysis), b 103
——, Johannes, archbishop (Olaus Magnus), XVII, a 774
—— -Billung, duke (Saxony), XXI, b 367
—— -Heiresen, naval commander (Faroe Islands), IX, b 36
—— -hitch (Seamanship), XXI, b 618
Magnus's green salt (Platinum), XIX, b 203
MAGNUSSON, Arni, scholar, XV, a b 286; (Iceland), XII, a 663
——, Peter, bishop (Episcopacy), VIII, b 435
MAGO, Carthaginian name, XV, b 286
—— I., king (Carthage), V, b 140
—— II., brother of Hannibal, XV, b 286; (Carthage), V, a 141; (Hannibal), XI, b 394, b 395, a 397; (Rome), XX, b 768-9
——, uncertain author, XV, b 286; (Veterinary Science), XXIV, a 213
Magog, legendary race (Gog), X, a 657; (Japheth), XIII, b 603
MAGPIE, bird, XV, b 286-7; (Birds), III, a 657; (Spain), XXII, a 312; nest of (Birds), III, a 669
—— moth (Gooseberry), X, b 693
Magra, river (Italy), XIII, b 446; (Liguria), XIV, a *b* 646
Mag Rath, battle of (Ireland), XIII, b 256
Maguey or Aloe (Mexico), XVI, b 221, a 226, b 910
Maguindanao, island (Philippine Islands), XVIII, a 766
Maguires, family (Fermanagh), IX, a 80
Maguli, islands (Sibságar), XXII, b 18
Magus (Magic), XV, a 204
"Magus of the North" (Hamann), XI, b 359
Magyar Athénás (Hungary), XII, b 391
Magyar invasions (Italy), XIII, b 479; language (Hungary), XII, b 381, b 385, a 386, a b 388, b 389-90; (Ural Altaic), XXIV, a b 5, a *b* 6, *a* 7; literature (Hungary), XII, a 390-6; (Kazinczy), XIV, a 23; movement of revolt (Pesth), XVIII, a 706
Magyar Muzeum, magazine (Hungary), XII, b 392
Magyars, race (Arpad), II, a 549; (Germany), X, *a* b 432, a b 433, b 434, b 436; (Hungary), XII, *b* 379, a 382, b 388, a 389; (Huns), a 398; (Moravia), XVI, b 837
Magyrok Története (Hungary), XII, a 395
MAHÁBALESHWAR, sanitarium, XV, b 287; (Bombay), IV, a 20, a b 21; (Ghâts), X, b 499
Mahâban, mountain (Afghânistân), I, a 216
Mahábhárata, epic (Bopp), IV, b 44; (Deluge), VII, a 50, *a* 51; (Family), IX, b 18; a 19; (Lassen), XIV, a 323, (Panipat), XVIII, b 215; (Sanskrit), XXI, b 294-6
Mahábháshya (Sanskrit), XXI, b 306-7
Mahádeo, mountains (Sátára), XXI, a 332
Mahā devi, goddess (Brahmanism), IV, b 187-8
Mahaffy, John Pentland, scholar (Menander), XVI, a *b* 6
Mahaí Marísí dialect (Nubia), XVII, b 627
Mahakkan or Kuti river (Borneo), IV, b 50
Mahamari or Mahamuree, pestilence (Kúmaún), XIV, a 156; (Plague), XIX, *b* 178
Mahāmāyā, mother of Buddha (Buddhism), IV, a 382
Māha Meru, mountain (Buddhism), IV, b 387-8
Maha-mrat-muni, temple (Ava), III, a 125
MAHÁNADI or Mahanuddy, river, XV, b 287; (Bilaspur), III, a 580; (Cattack), V, a *b* 211; (Orissa), XVII, a 869; (Puri), XX, a 121; (Sambalpur), XXI, *a* 260
Mahanaim, city (Israel), XIII, b 414, b 415
Mahánandá river (Gaur), X, *b* 102; (Maldah), XV, *a* 330; (Purniah), XX, a 122
MAHANOY CITY, XV, b 287
Mahaoya, river (Ceylon), V, a 313
Mahárájá, title (India), XII, a 835
Mahárájpur, city (Gwalior), XI, *a* 309
Maharāshtrī dialect (Hindūstānī), XI, b 750
Mahárávwal, title (Jáisalmir), XIII, b 554, a 555
MAHASEER or mahsir, fish, XV, b 287-8; (India), XII, b 781
Mahávansa, chronicle (Páli), XVIII, b 187, b 188-9
Mahaveli-ganga, river (Ceylon), V, b 312
Mahávinayaka Peak (Cattack), V, b 211
Mahávíra mountains (Chutiá Nágpur), V, a 672
——, prophet (Jains), XIII, a b 553, a 554
Mahāyāna books (Lāmāism), XIV, a b 228, b 229
Mahazorto, codex (Mahzor), XV, b 294-5 note
Mahdee, 'Obeyd Allah, el, prince (Egypt), VII, *b* 650
MAHDI, title, XV, a 288; (Mohammedanism), XVI, a 593; coming of the (Shi'ites), XXII, a *b* 700
——, caliph (Mohammedanism), XVI, b 602
—— of Nubia, religious enthusiast, XVII, a 627
——, rebellion (Soudan), XXII, a 293
Mahdíya, city (Tunis), XXIII, *b* 660, *a* 661
MAHE, town, XV, a 288; island (Seychelles), XXI, *a b* 762, note
Mahé de Labourdonnais, governor (Mauritius), XV, a 648
Mahee country (Dahomey), VI, a *b* 675
Mahendragiri, mountain (Ganjam), X, a 63
Mahi, river (Kaira), XIII, a b 833; (Rajputána), XX, a 272
Mahidasa Aitareya, philosopher (Sanskrit), XXI, *b* 289
MAHI KANTHÁ, group of states, XV, a 288
Mahillon, C., manufacturer (Oboe), XVII, a b 726, note, a 727, a 728
——, Victor, author (Pianoforte), XIX, a b 80, a b 81, a 87
Mahinda, preacher (Ceylon), V, b 318; (India), XII, a 824
Mahl-stick (Painting), XVIII, a 142
Mahmoodee, El-, sultan (Egypt), VII, *a* 657
Mahmoodeeyeh or Mahmondieh, canal (Egypt), VII, b 614, a b 615, b 663, b 666
Mahmoud or Mahmúd. See Mahomet, Mohammed and Muhammad
—— I., sultan Herzegovina), XI, b 693; (Turkey), XXIII, a 688
—— II., sultan (Abdul Medjid), I, b 35; (Army), II, a b 540; (Persia), XVIII, a 660; (Turkey), XXIII, a 690-2
Mahmúd, Afghan chief (Persia), XVIII, a b 651
MAHMUD of Ghazni, Abul Kásimor Mahmúd bin Subuktagin, sultan, XV, b 288-90; (Bombay), IV, a 23; (Firdousi), IX, b 196, a b 197; (Ghasni), X, a *b* 501, *a* 502; (Ghur), a 509; (India), XII, b 830, *b* 831-2; (Mohammedanism), XVI, b 610; (Persia), XVIII, a 669, b 670; (Peshawar), a 698; (Sámánid Dynasty), XXI, *a* 254
—— dynasty (Lahore), XIV, a b 214
—— Sháh (Gaur), X, b 101
—— Tughlak, sultan (India), XII, *b* 832
Mahò, governor (Cotton), VI, a 430
Mahoba, reservoirs (Hanúrpur), XI, a *b* 378
MAHOGANY, XV, a b 290; (Forests), IX, a b 357; (Honduras), XII, a *b* 135, a 137; (Mexico), XVI, b 910; (Western Australia), XXIV, a 536; dye (Calico-Printing), IV, a 611
Mahomed Ali, nawab. See Muhammed
—— Hassein, vizier (Baluchistan), III, a 260
Mahomet. See MOHAMMED
Mahomet, play (Goethe), X, a 647, b 652

Mahomet, play (Voltaire), XXIV, *b* 308
Mahomet of Turkey, sultans. See Muhammad
—— Bey (Ali Bey), I, a 505
—— Said Pasha (Canal), IV, b 697, a b 698
Mahometan. See Mohammedan
Mahommed Abulwafa (Algebra), I, a 452
—— Bakhtiyár Khilji, general (Gaur), X, b 101, a 102
—— -ben-Musa (Algebra), I, b 451, a b 452
—— Hassin, king (Darfur), VI, b 725
Mahon, city. See PORT MAHON
——, king (Ireland), XIII, b 258-9
MAHONY, Francis, poet, XV, b 290-1
Mahrah, district (Arabia), II, b 207, b 217, a 218, b 221, a b 227, b 229
MAHRATTAS or Marhattas, people of India, XV, a 291-4
    English supremacy, a b 294
    history, a 293-4
    invasions, b 293
    land tenures, a b 292
    peasantry, b 292
    physical features, b 292-3
    population, a 291-2
—— (Aurungzebe), III, a 87; (Banswara), b 299; (Berar), a 504; (Bundelkhaud), IV, b 466; (Burhanpur), b 479; (Delhi), VII, b 41, *b* 43; (Gough), XI, a 4; (Hastings), a *b* 459, a 460, a 462; (Hume, J.), XII, b 369; (Hyder Ali), a b 443; (India), b 842, b 843-5; (Jalaun), XIII, b 557; (Malwa), XV, b 349; (Pánipat), XVIII, b 215; (Rajputána), XX, a 273; (Sword) (Ill.), XXII, b 840, a 841; (Tanjore), XXIII, a 52; (Wellington), XXIV, a 522-3; in the Deccan (Asia), II, a 612; *History of*, Duff's, XV, a 293
Mähren. See MORAVIA
Mahsir, fish. See MAHASEER
Mahu, Jacob, admiral (Geography), X, b 166
Mahuá, vegetable (India), XII, a 771
Mahūzā, school (Rābā), XX, *b* 197
Mahwal (Fibres, Textile), IX, a 116
MAHZOR or Mahazor, Rabbinical term, XV, b 294-5
MAI, Angelo, cardinal, XV, b 295-6; (Fronto), IX, *a* 705; (Libraries), XIV, a b 528; (Palæography), XVIII, a 168; (Symmachus), XXII, b 850
MAIA, goddess, XV, a 296; (Mercury), XVI, a 36
——, genus (Crustacea) (Ill.), VI, a b 562, note, a 564, a 569, b 578, a 579
Maiano, Benedetto da, sculptor (Sculpture), XXI, b 586
——, Giovanni da, sculptor (Sculpture), XXI, b 586
Maidalchina, Olympia (Innocent X.), XIII, a 92
Maidán, park (Calcutta), IV, b 582, a 583
——, open country (Mysore), XVII, b 130; (Shimoga), XXI, *b* 840
Maidanpek, town (Servia), XXI, a 719
Maiden, the (Guillotine), XI, b 233
Maiden-hair, tree. See Gingko
MAIDENHEAD, town, XV, a b 296
Maiden-Paps, mountains (Caithness), IV, b 574
Maid Marian (Morris Dance), XVI, a b 873; (Romance), XX, *a* 675
Maiden's tower (Baker), III, a 223
Maid of all Work (Martineau), XV, b 590
—— *of Honor*, play (Massinger), XV, a b 625
Maid of Kent. See BARTON
"Maid of Norway." See Margaret of Norway
Maid of Orleans (Bennett), III, b 496
——. See JOAN OF ARC
Maids of honor (Precedence), XIX, a 684, note; (Royal Household), XXI, a 43
MAIDSTONE, town, XV, b 296-7
Maid's Tragedy (Beaumont and Fletcher), III, a 407
Maidun Castle (Dorset), VII, a 322
Maier. See ECK
Maifeuer, festival (Pales), XVIII, b 174
Maig, river (Limerick), XIV, b 655
Maigrot, Charles, bishop, missionary (Ricci), XX, b 551 note, a 552
Maihingen, Bavaria, town (Libraries), XIV, b 548
Maikál hills (Biláspur), III, a 580
Maikoff, Vasih Ivanovitch, poet (Russia), XXI, a 117
Mail armor (Arms, etc.), II, a b 487
—— contracts (Navy), XVII, a 298
Mailcun, king (Celtic Literature), V, a 275
Maillé Brézé, Clemence de (Condé the Great), VI, b 218, b 219, b 220-1
Maillet, Benoit de, scientist (Evolution), VIII, *b* 655; on Egyptian bee culture, III, b 430
Maillotins, insurgents (Charles VI.), V, a 356
Mail-service. See POST-OFFICE
Mailly, Madame de (Pompadour), XIX, b 458
Maim, tort. See MAYHEM
Maimacteria, festival (Lustration), XV, b 71
Maimana, province (Afghânistân), I, b 216, a 217, a b 218
MAIMANSINH or Mymensing, district, XV, a b 297
MAIMBOURG, Louis, historian, XV, b 297
MAIMONIDES, rabbi, XV, b 297-9; (Mishnah), XVI, a 529; (Talmud), XXIII, b 41, note; (Theism), a 262
Main, hydraulic (Gas-Lighting), X, a b 83
—— Range (Queensland), XX, *a* b 178, a 179
—— river (Bavaria), III, b 389, a 390; (Germany), X, *b* 402, a *b* 404, b 405, b 411
Ma'in, city (Yemen), XXIV, *b* 777
Maina, bird (India), XII, a 781
Mainardi, Sebastian, painter (Ghirlandajo), X, b 507, a 508
MAINE, province, XV, b 299; (Normandy), XVII, b 557, *a b* 558; (William II.), XXIV, a b 609
Maine, river (France), IX, a 446; (Loire), XIV, b 815; (Maine-et-Loire), XV, b 305
—— river (Kerry), XIV, a 53
MAINE, state (Plate V), XV, b 299-304
    geographical features, b 299-300
    geology, b 300-1
    history, a 303-4
    industries, b 302-3
    liquor law, a 302
    natural history, a b 301
    political orgauizations, b 301-2
—— (Liquor Laws), XIV, a 695; (Universities), XXIII, a 913, a b 955, b 962; coast of (United States), b 840; district (New Hampshire), XVII, a 403; (United States), XXIII, *b* 777; history (United States), b 809, b 811, a 822; statistics (United States), *b* 853, *a* b 855, b 859, *b* 860; topography (United States), b 842, a 843
——, Anne Louise Benedicite de Bourbon (Voltaire), XXIV, a 306
——, Sir Henry James Sumner, jurist, *b*. 1822, *d*. 1889 (Adoption), I, b 149; (Clan), V, *a* b 698, note; (Ethnography), VIII, a b 545; (Fictions), IX, a 123; (Government), XI, b 14; (International Law), XIII, b 197; (Law), XIV, b 358, b 359, *a* 360, *a* b 361, *b* 364, a *b* 365, a 366; (Leslie, T. E. C.), a 478; (Primogeniture), XIX, *b* 753, b 754, *a* b 755; (Roman Law), XX, a 695 note; (Will), XXIV, b 601, a 602; (Women), a b 672, b 673
——, Louis Auguste de Bourbon, duke de, bastard (France), IX, a b 514, a 515
MAINE DE BIRAN, François-Pierre-Gonthier, philosopher, XV, b 304-5; (Cousin), VI, a 463
MAINE-ET-LOIRE, department, XV, a 305-6
Maingay's island (Burmah, British), IV, b 500
Mainland, island (Orkney), XVII, *b* 870, *a* 871, b 872
Mainotes, people (Greece), XI, a 76, a 111, a 112
MÁINPURI or Mynpooree, district, XV, a 306; town, b 306-7
Maintenance in law (Bastard), III, b 368; (Husband and Wife), XII, a b 417
—— (Roads and Streets), XX, b 599-600
MAINTENON, François d'Aubigné, Marquise de, XV, a 307-8; (Camisards), IV, a 657; (France), IX, b 509-10; (Guyon), XI, *b* 306; (Huguenots), XII, a 353; (Molière), XVI, a 652; (Monachism), a 743; (Racine), XX, b 214, a b 215; (St. Cyr-L'Ecole), XXI, b 169; (Scarron), a 395
—— Aqueduct (Plate IV), II, a 194, b 200
Mainyard, raising the (Seamanship) (Ill.), XXI, a 632
MAINZ, town (Plan), XV, a 308-9; (Aqueduct), II, b 192; (Free Imperial Cities), IX, b 656; (Gutenberg), XI, *b* 300; (Libraries), XIV, b 548; (Numismatics), XVII, *b* 676; (Universities), XXIII, a b 898, b 899, *a* 904; *Bibles*, 1462 (Libraries), XIV, *b* 529; early printing at (Typography), XXIII, a 727-8, a *b* 731, a b 732, a b 733, *a b* 734, a 735, a b 736, a b 738, a 739; *Psalter*, 1457 (Typography), b 723, b 728, a 731, a 736
Maio, island (Cape Verd Islands), V, b 47
Maioli, Thomas, collector (Bookbinding), IV, a 37
Maipu, mountain (Chili), V, b 535
Mair, John. See MAJOR
——, J. G., engineer (Steam-Engine), XXII, a 510, b 512, a 514 note, a 541 note
Maira, river (Italy), XIII, a 445
Mairan, Jean Jacques Dortous de, astronomer (Zodiacal Light), XXIV, b 835, *a* 837
Maire, officer (Commune), VI, a b 188. See Mayor
——, Jacob Le, sailor (Geography), X, b 166
Mairs, tribe (Aravalli Hills), II, b 272
Maison Carrée, temple (Nimes), XVII, b 523
—— de Force, Ghent (Howard), XII, b 334
—— Dieu, hospital (Dover), VII, b 329-30
Maisonneuve, Paul de Chomedey, sire de, governor (Montreal), XVI, a 820
Maison Rustique (Quesnay), XX, b 182
MAISTRE, Joseph de, diplomatist and author, XV, b 309-10; (Astrology), II, b 649; (Church), V, b 664; (Comte), VI, b 208
MAISTRE, Xavier de, general and author, XV, a b 310
—— es Jeux, title (Jasmin), XIII, a 605
Maistre Pierre Patelin (Drama), VII, a 358
Maisur, state. See MYSORE
Maitani, Lorenzo, architect (Pisano), XIX, a 132
MAITLAND, town, XV, b 310
——, Sir James, hatchery of (Pisciculture), XIX, a 138
MAITLAND, John, Duke of Lauderdale, politician, XV, b 310. See LAUDERDALE
——, Sir John, Lord Thirlestane (Scotland), XXI, a *b* 530

MAITLAND, Sir Richard, lawyer and poet, XV, b 310-11; (Scotland), XXI, b 524, a b 525, b 527, a b 528, a 567
——, Sir Thomas, governor (Ionian Islands), XIII, b 212
MAITLAND, William, of Lethington, statesman, XV, a b 311
——, William, antiquary (Yachting), XXIV, b 758
Maitráyania (Sanskrit), XXI, b 291-2
Maitre, Ponce or Ponce Jacquis, sculptor (Sculpture), XXI, b 589
Maitreya Bodhisattva, deity (Urga), XXIV, b 15
Maitri-vhavana, meditation (Buddhism), IV, b 390
MAITTAIRE, Michel, scholar, XV, b 311; (Bibliography), III, a 564, a 566, b 570, *a* 571
MAIZE, Indian Corn or Zea Mays (Ill.), XV, b 311-3; (Agriculture), I, a 322, b 336; (Botany) (Ill.), IV, b 81, a 83, b 92, b 132, b 137, a 143; (France), IX, *a* 447, *b* 458; (Horse), XII, b 197; (Italy), XIII, b 450, a b 451, b 459, a *b* 465; (Mexico), XVI, b 221, b 225; (Natal), XVII, a 247; (Pellagra), XVIII, b 486, a 488; (Physiology), XIX, *a* 56; (Starch), XXII, b 473; (Turkey), XXIII, b 694; (United States), *b* 877, b 878
—— beer (Malt), XV, a 342; in malting (Brewing), IV, a 242
—— oil (Oils), XVII, a 765, a 767
Majàmbo bay (Madagascar), XV, a b 169
Majella, Monte della (Abruzzo), I, a 57; (Italy), XIII, a b 447
Majesty (Titles of Honor), XXIII, a 446
MAJLÁTH, János, count, historian, XV, a 313
Majma 'al Bahrain (Harírí), XI, b 429
Majolica, ware (Gubbio), XI, b 215; (Pottery and Porcelain) (Ill.), XIX, a 643-8; (Robbia), XX, b 605, a 606, a 607; (Tiles) (Ill.), XXIII, a b 416. See Faience ware
Major or Meier, George, theologian (Lutherans), XV, *a* b 86; (Reformation), XX, a 348
MAJOR or Mair, John, XV, a b 313; (Robin Hood), XX, b 621; (Scotland), XXI, a 567
——, Richard Henry, antiquary (Geography), X, a b 161, b 162, a 163, a 167
Majorat, inheritance (Primogeniture), XIX, b 756
Majorca, island (Balearic Islands), III, a 239-40, a 241; (Spain), XXII, *a* 361, b 362; kingdom of (Perpignan), XVIII, a 568; acquisition of (Spain), XXII, b 337, a 338; railways of (Palma), XVIII, b 195
MAJORIANUS, Julius Valerius, emperor, XV, a b 313; (Apollinaris Sidonius), II, a 162; (Rome), XX, a 799, note
Majorinus, bishop (Donatists), VII, a b 311
Majorists, sect (Reformation), XX, a 348
Major-tones (Acoustics), I, a b 101, b 109
Majuli Island (Assam), II, *b* 628; (Brahmaputra), IV, b 190
Makachinga, peak (Maritime Province), XV, b 554
MAKALLA or Maculla, port, XV, b 313-4
Makamat or Stations (Arabia), II, a 232; (Harírí), XI, a *b* 429
Makarieff, town (Nijni-Novgorod), XVII, b 515
Makart, Hans, painter (Vienna), XXIV, a 239
Makatis, race (Transvaal), XXIII, a 551
Makdisi, geographer. See MOKADDASI
Makeham, W. M., actuary (Annuities), II, b 74, b 75, *b* 76, *a* b 77
Makemie, Francis, divine (Presbyterianism), XIX, b 717
Makham, plateau (Tibet), XXIII, b 362
Makhirites, school (Rashi), XX, b 296
Makhmal, embroidery (India), XII, a 801
Makhna, plain (Shechem), XXI, b 819
Makhzan-ulasrar (Nizámí), XVII, b 535, *a* b 536
Making sail (Seamanship), XXI, b 629-30
Mackinnon, inventor (Pen), XVIII, b 494
MAKKARI, Abu'l-'Abbás, historian, XV, a 314
MAKO, town, XV, a 314
Makololo kingdom (Africa), I, a 236, b 243; (Livingstone), XIV, a 727
Makong, river. See MEKONG
Makraios, Sergios, historian (Greece), XI, b 134
Makrán, rocks (Persia), XVIII, a 633
MAKRIZI, Taki el-Dín, historian, XV, b 314; (Baalbec), III, b 153
Maktesh, quarter (Jerusalem), XIII, b 650, a 651
Makua, race (Mozambique), XVII, *a* 14
Makurti, mountain (Nilgiri Hills), XVII, a 522
MALABAR, district, XV, b 314-5; (Pepper), XVIII, b 526, b 527; (Thomas), XXIII, a 329, note; coast (India), XII, b 772, b 784, a b 785, b 786, *b* 788, a 795, a 804
Malabars, incursions of (Ceylon), V, b 316
Malacca, strait (Indian Ocean), XII, *b* 861
——, territory (Straits Settlements), XXII, a *b* 615. See MALAY PENINSULA
MALACCA, town, XV, b 315-6; (India), XII, *a* b 836; (Weights and Measures), XXIV, a 518; (Xavier), a *b* 753, *a* 754
—— Canes, IV, a 711
—— current (Indian Ocean), XII, b 681
MALACHI, prophet, XV, a 316-7; (Gospels), X, a 736, note
MALACHITE, ore, XV, b 317; (Copper), VI, b 308; (Mineralogy) (Ill.), XVI, b 385, a 416
Malachy I. or Mælsechlain, king (Ireland), XIII, b 257, a 258
—— II., king (Ireland), XIII, a 260
MALACHY, St., archbishop, XV, b 317-8; (Episcopacy), VIII, a 435; (Ireland), XIII, a b 261
Malacobdella, genus (Leech), XIV, b 405; (Nemertines), XVII, a b 335, a 336, a 339
Malacodermata, beetles (Coleoptera), VI, a 120
Malacolite, mineral (Marble), XV, b 536; (Mineralogy) (Ill.), XVI, b 387, a 434
Malacone, mineral (Mineralogy), XVI, a 443
Malacopterus, genus (Ichthyology), XII, b 719, a 720
Malacopterygian fishes (Ichthyology) (Ill.), XII, a b 674, b 700
Malacoptila, genus (Puff-Bird), XX, b 106
Malacostraca, sub-class (Crustacea), VI, a 564, *b* 573, a b 578-85
Malade Imaginaire (Molière), XVI, b 652
Maladetta, mountain (Pyrenees), XX, a 131
Malaga bay (Colombia), VI, a 137
MALAGA, province, XV, a 318-9; (Wine), XXIV, b 639; and city (Spain), XXII, *a* 311, b 312, a 313, *a* b 314, a 315, b 316, b 318; city (Plan), XV, b 318-9; (Yellow Fever), XXIV, *a* 772
Malagarasi, river (Tanganyika), XXIII, b 50
Malagash avifauna (Birds), III, a 659
Malagasy Dictionaries, VII, b 167
——, people (Madagascar), XV, b 171-2, a b 173, *a* b 174, a 175, a b 176
Malakoff, duke of. See PELISSIER
—— tower (Fortification), IX, a 404
Malalas, Joannes, chronicler (Byzantine Historians), IV, b 545
Malamocco, town (Venice), XXIV, b 153, a 160
Malam's purifier (Gas-Lighting), X, b 85
Malanta, island (Solomon Islands), XXII, *b* 265, note, a 267
Malapterurus, genus (Ichthyology), XII, a b 687, b 711, a 731; (Siluridæ) (Ill.), XXII, b 75
Malar bone (Anatomy) (Ill.), I, b 723; (Skeleton), XXII, a *b* 123, a 124
——, lake (Sweden), XXII, b 774, a b 775
Malarce, de, statistician (Savings Banks), XXI, b 346, a 347
MALARIA, XV, a 319-23
    description, a 319-20
    diffusion, a b 322
MALARIA, *continued*
    geographical distribution, b 320-1
    hypothesis, b 322
    literature, b 322-3
    localities, b 321
    origin, conditions of, a b 322
    remedies, b 322
    remittent, a b 320
    seasons, b 321-2
—— (Campagna di Roma), IV, a 664; (Græcia Magna), XI, b 28; (Greece), b 75; (Hong-Kong), XII, b 145; (Hooghly), b 151; (Italy), XIII, a 451; (Rome), XX, a b 825, b 859; (Sardinia), XXI, *b* 323; (Sicily), XXII, a 35; chills (Pathology), XVIII, a b 404-5; (Dysentery), VII, b 505, a b 506; (Pathology), XVIII, a b 403-5, b 407, b 413; prevention of (Wine), XXIV, a 639. See Miasma
Malatesta, dukes of Urbino (Castiglione), V, a 170
——, Carlo, prince (Rimini), XX, *b* 571
——, Galeazzo l'Inetto, prince (Rimini), XX, b 571
——, Galeotto, prince (Rimini), XX, a *b* 571
——, Giovanni, podestà (Rimini), XX, *a* 571
——, Giovanni, Sciancato, general (Rimini), XX, a 571
——, Guastafamiglia, prince (Rimini), XX, a b 571
——, Isotta degli Atti, princess (Rimini), XX, a 572-3, *a* 574
——, Malatestino, prince (Rimini), XX, *a* 571
——, Pandolfaccio, tyrant (Rimini), XX, a 574
——, Pandolfo I., prince (Rimini), XX, *a* 571
——, Pandolfo II., prince (Rimini), XX, b 571
——, Paolo, the Handsome, prince (Rimini), XX, a 571
——, Roberto, tyrant (Rimini), XX, a 574
——, Sacramoro, monk (Savonarola), XXI, b 353
——, Sigismondo Pandolfo, prince (Rimini), XX, *b* 571-4
——, Verruchio da, prince (Rimini), XX, a 571
Malatestis, Robert de, monk (Stigmatization), XXII, a 578
MALATIA or Malatiya, town, XV, a 323; (Cappadocia), V, b 67; (Mohammedanism), XVI, a 602; Opium, XVII, b 811
Málátí-Mádhava (Drama), VII, b 343, a 345; (Sanskrit), XXI, b 299, note
Málavikágnimitra (Kálidása), XIII, b 838; (Sanskrit), XXI, a b 299
Malavolti, Orlando, historian (Siena), XXII, a 48, a 49
Malay archipelago (Asia), II, b 600; (Butterflies), IV, *b* 529; (Dictionary), VII, a b 166; (Indian Archipelago), XII, b 856; winds of (Meteorology), XVI, b 153; rainfall, b 156

MALAY PENINSULA (Plate VI, XV, a 323-6
    climate, a b 324
    fauna, b 324
    geology, a 324
    history, a 326
    inhabitants, a 325-6
    physical features, a 323-4
    political systems, b 324-5
    vegetation, b 324
—— (Siam), XXI, b 890, a 894, a 895; (Straits Settlements), XXII, a 615-6; (Yaws), XXIV, b 768; avifauna (Birds), III, b 661-2; fauna (Distribution), VII, *a* 236, a 243; flora (Asia), II, *a b* 605, b 606-7; (Distribution), VII, a 252; (India), XII, b 778; fowl (Poultry), XIX, a 665; languages (Dictionary), VII, a b 166; (Philology), XVIII, a b 793
Malayâlma, language (Dictionary), VII, a 166; (Tamils), XXIII, a 47
Malayo-Polynesian Religions), XX, a b 377
—— race (Hawaiian Islands), XI, a b 472
MALAYS, race, XV, a 326-9
    language, b 327-8
    literature, b 328-9
    race alliances, a 326-7
    tribal divisions, a b 327
—— (Asia), II, b 609; (Indian Archipelago), XII, a b 857; (Japan), XIII, a 591; (New Guinea), XVII, *b* 397; (Taboo), XXIII, a 22; superstitions of (Demonology), VII, b 54
—— Sword, XXII, a 841
Malbec Wines, XXIV, b 636-7
Malberg glosses (Salic Law), XXI, a *b* 223, a b 224
Malcher, Katharina, martyr (Poland), XIX, a 313
Malchus, king (Carthage), V, b 140
——, legend of (Jew, Wandering), XIII, b 685
Malcolm I., king (Scotland), XI, b 501
—— II., king (Scotland), XXI, b 501-2
—— III., Canmore, Scotland (Dunfermline), VII, a *b* 468; (Inverness), XIII, a 207; (Lothian), XV, b 12; (Scotland), XXI, b 502, a b 503; (Tynemouth), XXIII, a 718; (William I. and II.), XXIV, b 607, a 609
—— IV., the Maiden, king (Scotland), XXI, b 505-6
MALCOLM, Sir John, soldier, XV, b 329-30; (India), XII, a 844, *a* 845; (Persia), XVIII, a 632, b 633, a b 650, a b 659, note; (Timur), XXIII, *b* 426-7
Malczewski, Anton, poet (Poland), XIX, a 316
MALDAH, district, XV, a b 330; station in (Gaur), X, a 102
MALDEN, Massachusetts, town, XV, b 330
Maldive cocoanut (Seychelles), XXI, b 762
MALDIVE ISLANDS (Map), XV, b 330-4
    archipelago, divisions of, a 332
    coral formations, b 330-1
    history, a b 333
    industries, b 333-4
    inhabitants, a b 332
    language, b 332
    natural history, a b 334
    political divisions, a 332-3
    religion, a 333
    sultan's court, b 333
—— (Asia), II, a 599; (Laccadives), XIV, b 183, *a* 184
Maldizer, Gesta de (Portugal), XIX, b 570
MALDON, town, XV, b 334-5
Maldonado, department (Uruguay), XXIV, *b* 19, a b 20
Maldonite (Mineralogy), XVI, a 410
Mâlê, island (Maldive Islands), XV, *b* 333, a b 334
Male Birds, migration of, III, a b 665
—— births, proportion to female (Population), XIX, b 531; (Spain), XXII, a 313
MALEBRANCHE, Nicolas, metaphysician, XV, a 335; (Cartesianism), V, *a* 125, b 130-3; (Condillac), VI, *b* 221; (Descartes), VII, b 102, a b 110, a 111; (France), IX, b 581; (Hutcheson), XII, b 426; (Locke), XIV, b 759, b 760; (Norris), XVII, *b* 565
Malecky. See Malczewski
Male-organs, cryptogams (Botany) (Ill.), IV, b 126-7; phanerogams (Botany) (Ill.), a b 114, a 122-6
MÁLER KOTLA, state, XV, a b 335
MALESHERBES, Chrétien Guillaume de Lamoignon de, statesman, XV, b 335-6; (Cavalier), V, a b 227; (Encyclopædia), VIII, a b 180; (Marat), XV, b 534; (Turgot), XXIII, b 669
Malet, Claude François, general (Napoleon I.), XVII, a 228; (Paris), XVIII, a 299
Malevka, village (Tula), XXIII, b 642
Malevka-Muraevnya horizon in geology (Ryazan), XXI, a 124
Malevolence (Hutcheson), XII, b 425-6
Malformations (Medical Jurisprudence), XV, b 789
Malfúzát or Table-talk of Timur (Persia), XVIII, a 643, note
Malhár Ráo, Gaikwár or ruler (Baroda), III, b 328; (Indore), XII, b 886
MALHERBE, François de, poet, XV, a 336-7; (France), IX, a 507, b 577, b 599; (Poetry), XIX, a 284; (Ronsard), XX, b 864
——, ornithologist (Woodpecker), XXIV, a 687
Malherbe's process (Sodium), XXII, a 255
Mali, town (Mandingoes), XV, a b 483
Malibran, Maria, singer (Garcia), X, a 67
Malic acid (Houseleek), XII, b 331; series (Chemistry), V, b 495
Malice in law (Criminal Law), VI, a b 520; (Libel and Slander), XIV, b 505, a b 506; (Tort), XXIII, b 483; aforethought (Murder), XVII, a *b* 59
Malignant Fever, IX, b 110; pustule (Woolsorter's Disease), XXIV, a b 698; scarlatina (Scarlet Fever), XXI, a b 394; Smallpox, XXII, b 173; tumors (Surgery), XXII, *b* 722-3
Málik of Medina, jurisconsult (Mohammedanism), XVI, a 617
Malik ar-Rahim, sultan (Seljuks), XXI, *b* 666
Málikite, sect (Sunnites), XXII, a b 695
Malik Kafur, soldier (India), XII, a 832, a 833
Málik Sháh, sultan (Mohammedanism), XVI, b 610; (Seljuks), XXI, b 666-7, a 668
Maliks, powers of (Afghânistân), I, b 212, a 213
Malinche or Malintzi, mountains (Tlaxcala), XXIV, b 449
Malindi, station (Zanzibar), XXIV, *a* 807
Malines, town. See MECHLIN
Malingié-Nouvel, stock-grower (Breeds), IV, b 220
Malinkes, race. See MANDINGOES
Máliyás, district (Ganjam), X, a b 63
Malka, river (Caucasus), V, a b 221; (Terek), XXIII, a 203
Malkites, sect. See MELCHITES
Mall, game (Croquet), VI, b 537
Mallalingara-Wouttoo (Buddhism), IV, *a* 381
MALLANWÁN, town, XV, a 337
Mallard Duck, VII, a b 437; (Poultry), XIX, a 667
Mallardite (Mineralogy), XVI, a 418
Malleability (Annealing), II, a 58; (Elasticity), VII, b 691; (Gold), X, b 659; (Goldbeating), a 670, a 671; (Metals), XVI, b 69-70
Malleable cast-iron, production of (Iron), XIII, b 326-7;
—— (Iron), b 285, b 287, *a b* 288, b 290, b 291; its conversion into steel (Iron), a 349-53; its direct production from ore (Iron), b 344-9; its manufacture (Iron), b 435-41; piers of (Harbors and Docks), XI, b 415-6
Mallee-bird (Megapode), XV, b 836
MALLEMUCK, bird, XV, a b 337
Mallet, Allain Manesson, engineer (Fortification), IX, b 389-90, note
——, Charles François, engineer (Hydromechanics), XII, a 454
——, David, poet (Gibbôn), X, a 515
——, J. W., seismologist (Earthquake), VII, b 527, b 529
——, M. A., engineer (Steam-Engine), XXII, a 548
MALLET, Paul Henri, historian, XV, b 337; (Switzerland), XXII, b 837
——, Robert, seismologist (Earthquake), VII, *b* 526, *a b* 627, a *b* 528, *a b* 529, a 530; (Geology), X, b 200, *b* 222, b 225-6, b 227, *b* 229, b 252
Mallet du Pan, Jacques, editor (Newspapers), XVII, b 435, a 439 note, b 441
Malleus, bone (Anatomy), I, *b* 783, *a* 784; (Ear), VII, *b* 511
—— Hereticorum. See FABER, Johann
Mallicolo, island (New Hebrides), XVII, a 405
Malling, Ove, historian (Denmark), VII, a 80
Mallophaga, group (Insects), XIII, a 159, a 160; (Louse), XV, a b 26
Mallorca, island. See MAJORCA
Mallory, Garrick, ethnologist (Indians), XII, b 870
Mallotus, fish genus (Salmonidæ), XXI, b 231, a 232, b 234
——, shrub, genus (Kámalá), XIII, a 840
MALLOW, plant, XV, b 337-8; (Botany) (Plate III), IV, a 80, b 90, a 119, *a* 123, b 136, b 137; (Jute), XIII, b 808; fascicle of (Botany) (Ill.), IV, a 112
MALLOW, town, XV, a 338
Mallus, town (Cilicia), V, *a* 679; (Numismatics), XVII, b 677
——, tribunal (Salic Law), XXI, a 224
Malm, earth (Brick), IV, a 250
Malmantile Racquistato (Lippi), XIV, b 691
MALMESBURY, town, XV, a b 338; (Wilts), XXIV, b 625, *a b* 626, *a* 627
MALMESBURY, James Harris, earl of, diplomatist, XV, b 338-9
MALMESBURY, William of, historian, XV, a b 339; (Grail, the Holy), XI, b 32; (Knighthood), XIV, a 114, note
Malming, process (Brick), IV, a 250
Malmö, island (Sweden), XXII, b 775
MALMO, town, XV, b 339-40; (Sweden), XXII, a 780; armistice of, 1848 (Denmark), VII, a 78; (Germany), X, b 454, a 456
Malmöhus län (Sweden), XXII, a 775, a 778, a *b* 780
Malmsey Wine, XXIV, b 641; (Greece), XI, b 106
Malnâd, district (Kádúr), XIII, b 824; (Mysore), XVII, b 130; (Shimoga), XXI, *b* 840
Malnitz, mountain (Gastein), X, a 97
Maloghetta coast (Africa), I, a 241
Malone, Edmund, critic (Shakespeare), XXI, b 786, b 788, *a b* 804, a b 805, *a* 807
Malorossine or Malorusses, race (Slavs), XXII, a 153, *b* 157, a 158; (Russia), XXI, b 86, a 87, *a* b 88; literature of (Russia), XXI, a b 118

MALORY, Sir Thomas, author, XV, a 340; (Arthur), II, b 569; (Geoffrey of Monmouth), X, a b 155; (Romance), XX, b 663, *b* 664, a b 665

Malovius of Aleth, bishop (St. Malo), XXI, a 196

Maloya Pass (Alps), I, b 545, a 552

Malpais, lava fields (Nicaragua), XVII, a 491

Malpertus, mountain (France), IX, b 445

MALPIGHI, Marcello, anatomist, XV, a 340–1; (Anatomy), I, a 711, a 712, *a* 713, a 714; (Embryology), VIII, b 151; (Evolution), a b 652, note; (Harvey), XI, b 450; (Ichthyology), XII, a 668; (Phrenology), XVIII, b 857; (Vascular System), XXIV, b 104; (Zoology), a 840, b 842, a 843, a 846, a 854

Malpighia, plant (Botany) (Ill.), IV, a b 80, a 81

Malpighiaceæ, order (Botany) (Ill.), IV, b 91, a 92

Malpighian bodies, urinary organs (Mammalia), XV, a, 369; tubes (Insects), XIII, *b* 151; (Myriapoda), XVII, b 124, b 125

M'Alpine, Neil, philologist (Harp), XI, b 437

Malplaquet, battle of, 1709 (France), IX, *b* 513; (Holland), XII, b 84

Malserheide, auf der, battle, 1499 (Switzerland), XXII, b 827

MALSTATT-BURBACH, town, XV, a 341

Malström, whirlpool (Lofoten and Vesteraalen), XIV, a 776; (Norway), XVII, b 594; (Whirlpool), XXIV, a 571, a *b* 572

MALT, XV, a 341–2; (Adulteration), I, a 157; (Alcohol), a 416; (Brewing), IV, b 237, *a* b 238, a 240–2; analyses of (Brewing), a b 241; Kaffre (Brewing), b 236; Vinegar, XXIV, a 259; Whiskey (Distillation), VII, a b 231; XXIV, *a* 573

MALTA, island (Plate III), XV, a 342–6
- antiquities, a b 344
- bibliography, a 346
- climate, b 342
- flora, b 342
- history, a 344–6
- inhabitants, a 343
- literature, a 346
- military importance, b 343
- political organization, a b 343
- population, b 343–4
- towns, a 343

—— (Catacombs), V, a 188; (Dockyard), VII, a 274, 275; (Napoleon I.), XVII, b 207, b 213; (St. John of Jerusalem), XXI, *b* 183, *a* 184; language of (Semitic Languages), b 685; siege of, 1565, XV, b 345; (Turkey), XXIII, a 685; Weights and Measures of, XXIV, a 518

Malt-dust, manure (Horticulture), XII, b 238

MALTE-BRUN, Conrad, geographer, XV, a 346

Maltese Cross, VI, a 541

—— Goat, X, b 631

—— Lace, XIV, b 185

Malthazite (Mineralogy), XVI, b 442

Malthes, B. F., philologist (Celebes), V, b 250

Maltho, gymnasium (Elis), VIII, a 131

Malthus, Daniel (Political Economy), XIX, *a* 384

MALTHUS, Thomas Robert, economist, XV, a b 346; (Political Economy), XIX, a 384–6, b 387, b 389–90; (Socialism), XXII, a 221, b 229

Malthusianism, theory (Communism), VI, *b* 192

Maltin, ferment (Malt), XV, b 341, a 342

MALTON, town, XV, b 347–8

Maltose, sugar (Malt), XV, a b 341; (Nutrition), XVII, a 694; (Sugar), XXII, b 657

Maltravers, Lord (Arundelian Marbles), II, b 586

Maltsoff's Works, colony (Orel), XVII, b 849–50

MALTZAN, Heinrich Karl Eckhardt Hellmuth, Freiherr von, traveller, XV, a 348

Malum Egyptiacum, disease (Diphtheria), VII, b 217

—— Punicum, fruit (Pomegranate), XIX, a 457

Malurus, genus (Whale), XXIV, *a* 388

MALUS, Étienne Louis, physicist, XV, a b 348; (Arago), II, a b 266; (Light), XIV, b 615; (Mineralogy), XVI, b 364, b 388; law of (Wave Theory), XXIV, a *b* 470

Malva, plants (Horticulture), XII, a 259; (Mallow), XV, b 337

Malvaceæ, order (Botany), IV, b 107, b 116, *a* 118, b 128; (Mallow), XV, b 337, a 338

MALVASIA, or Monembasia, town, XV, b 348–9; (Epidaurus), VIII, b 423; (Greece), XI, b 106

——, Marquis of (Micrometer), XVI, b 251

MALVERN, Great, town, XV, a 349; (Water-Supply), XXIV, b 425

——, John of (Higdon), XI, b 723

—— Hills (Worcester), XXIV, *b* 700, a b 701

——, Virginia, battle of, 1862, (United States), XXIII, a 826

Malves, Jean P. de Gua de, scientist (Encyclopædia), VIII, a 180

Malvoisie wine (Greece), XI, a 79. See MALVASIA

MÁLWÁ, province, XV, a b 349; (Betul), III, b 535; (Gwalior), XI, a b 308; (India), XII, b 776, b 787–8; (Opium), XVII, a b 812, a b 813

Maly, Jakub, philologist (Slavs), XXII, a 163

Mamaia, sect (Tahiti), XXIII, b 29

Mamaliga, porridge (Pellagra), XVIII, b 486

Mamaluco, hybrid (Brazil), IV, a 211; (Negro), XVII, a 329

Mama Ocello, sun myth (America), I, *a* 613, a 615

Mambejd, city (Hierapolis), XI, *b* 706–7

Mambrinos, breed (Horse), XII, a 208

Mame, tribes (Yucatan), XXIV, a 798

MAMELUKES, Memluks or Memlooks, military caste, XV, b 349; (Napoleon I.), XVII, b 207, *a* 208; (Turkey), XXIII, a 684; dynasties (Egypt), VII, a 609, a 613, a 655–8; legitimacy of (Sunnites), XXII, a 696; massacre of (Egypt), VII, a 662, a 663

Mamercinus or Mamercus, Æmilius, dictator (Censor), V, b 290

Mamertine prison (Rome) (Ill.), XX, b 827, a b 833

Mamertines, troops (Hiero II.), XI, *a* 708; (Messina), XVI, a 62; (Sicily), XXII, b 25, a b 26

Mami, Arnaut and Deli, pirates (Cervantes), V, b 303, a 304

Mamiani, Terenzio della Rovere, Conte, philosopher (Evolution), VIII, a 668; (Pius IX.), XIX, b 167

Mamilian gens (Tusculum), XXIII, b 713

Mamilius, Octavius, prince of Tusculum (Rome), XX, b 754; (Tusculum), XXIII, b 713

Mamisson pass (Caucasus), V, b 220, a 221

MAMMALIA (Ill.), XV, a 349–450
- ANATOMICAL CHARACTERISTICS, b 350–73
  - appendicular skeleton, a 361–3
  - axial skeleton, a 358–61
  - digestive system, b 363–6
  - liver, b 365–6
  - lymphatic system, b 367–8
  - manus, a b 362
  - mouth and its glands, a 364–5
  - nervous system, a 369–70
  - placenta, b 371–3
  - pelvic girdle and its limb, b 362–3
  - reproductive system, b 370–3
  - respiratory organs, a 368–9
  - senses, b 369–70
  - shoulder girdle and its limb, b 361–2
  - skeleton, b 357–63
  - skull, a 358–9
  - stomach and intestines, a b 365
  - tegumentary structures, b 350–1
  - urinary organs, a 369
  - vascular system, b 366–7
  - vertebræ, a 359–60
- CARNIVORA (Ill.), b 438–51
  - æluroidea (Ill.), b 440–4
  - ailuridæ, a 448

MAMMALIA, *continued*
- CARNIVORA
  - artoidea (Ill.), b 445–8
  - canine series, b 444–5
  - characteristics, b 438–40, a b 449
  - cynoidea (Ill.), a 444–5
  - extinct or doubtful forms, b 448–9, b 350–1
  - felidæ, a 440–1; fossils, b 441
  - fissipedia (Ill.), a 439–49
  - hyænidæ (Ill.), b 443–4
  - lupine series, a 445
  - mustelidæ, a 446–7
  - otariidæ (Ill.), b 449–50
  - phocidæ, a b 450
  - pinnipedia (Ill.), a 449–51
  - procyonidæ, b 447
  - trichechidæ, a 450
  - ursidæ (Ill.), a b 448
  - viverridæ (Ill.), b 441–3
  - vulpine (Ill.), a b 445
- CETACEA (Ill.), a 395–403
  - archæoceti, b 398–9
  - balænoidea, b 397–80
  - bibliography, b 403
  - characteristics, a 395–6
  - mystacoceti, b 397–8
  - odontoceti or delphinoidea (Ill.), a 399–403; delphinidæ, b 401–3; physeteridæ (Ill.), a 399–401; platanistidæ (Ill.), a b 401; squalodontidæ, a 401
  - origin of, a b 397
  - relations of, b 396–7
- CHIROPTERA (Ill.), b 409–20
  - bibliography, a 420
  - class position of, a b 410
  - digestive system, a b 412
  - fossil forms, a 420
  - general characteristics, b 409–10
  - megachiroptera or pteropodidæ (Ill.), b 413–4
  - microchiroptera (Ill.), b 414–20; emballonuridæ (Ill.), a 417–8; molossinæ (Ill.), a b 418; nycteridæ (Ill.), a b 416; phyllostomidæ (Ill.), b 418–20; rhinolophidæ (Ill.) b 416–7; vespertilionidæ (Ill.), b 414–6
  - muscular system, b 411
  - sense organs, b 411–2
  - skeleton, b 410–1
  - wings, a 413
- CLASSIFICATION, a 373–5
  - Eutheria or Monodelphia (Ill.), b 374–5, b 386–452

MAMMALIA, *continued*
- CLASSIFICATION
  - Metatheria or Didelphia (Ill.), a b 374, b 380-6
  - Prototheria or Ornithodelphia Ill.) a 374, b 379-80
- dental system, b 351-7
  - tooth development, b 352-3
  - tooth forms, b 353-4
  - tooth, functional modifications of, a b 357
  - tooth homologies and notation, b 354-7
  - tooth sequence, a b 354
  - tooth structure, a b 352
- DISTRIBUTION, b 375-452
  - aerial forms, b 375
  - aquatic forms, b 375-7
  - Didelphia, a b 374, b 380-6
  - history of, a 377-9
  - Mesozoic forms, b 377-9
  - Monodelphia, b 374-5, b 386-452
  - Monotremata, b 379-80
  - Ornithodelphia, a 374, b 379-80
  - terrestrial forms, a 377
- EDENTATA (Ill.), b 386-92
  - bibliography, b 392
  - bradypodidæ (Ill.), b 387
  - characteristics, b 386-7
  - dasypodidæ (Ill.), b 389-91; chlamydophorinæ, b 389-90; dasypodinæ, a b 390; tatusiinæ (Ill.), b 390-1
  - extinct forms, old world, b 392
  - manidæ, b 391-2
  - megatheriidæ (Ill.), 386-7
  - myrmecophagidæ (Ill.), a 388-9
  - orycteropodidæ, a b 392
- general characteristics, a 349-50
- INDEX, a b 453
- INSECTIVORA (Ill.), b 403-9
  - bibliography, b 409
  - centetidæ (Ill.), b 408-9
  - characteristics, b 403-5
  - chrysochloridæ (Ill.) a b 409
  - erinaceidæ (Ill.), a 406-7
  - fossil forms, b 409
  - galeopithecidæ Ill.) a b 405
  - macroscelidæ, a 406
  - potamogalidæ (Ill.), a b 408
  - solenodontidæ (Ill.), b 408
  - soricidæ (Ill.), a b 407
  - sub-orders, a 405
  - talpidæ (Ill.), b 407-8
  - tupaiidæ (Ill.), b 405-6

MAMMALIA, *continued*
- MARSUPIALIA (Ill.), b 380-6
  - bibliography, a b 386
  - characteristics, b 380-2
  - dasyuridæ (Ill.), b 382-3
  - didelphidæ, b 382
  - fossils (Ill.), b 385-6
  - macropodidæ, b 384
  - peramelidæ (Ill.), b 383-4
  - phalangistidæ (Ill.), b 384-5
  - phascolomyidæ, a 386
- PRIMATES, a 451-2
- RODENTIA (Ill.), a 420-2
  - bibliography, a 427
  - duplicidentata (Ill.), a b 426
  - fossils, b 426-7
  - hystricomorpha (Ill.), a 425-6
  - lagomorpha (Ill.), a b 426
  - muridæ, b 423-4
  - myomorpha (Ill.), a 423-5
  - sciuromorpha (Ill.), a 422-3
  - simplicidentata (Ill.), a 423-6
- SIRENIA (Ill.), b 392-5
  - bibliography, a 395
  - characteristics, b 392-3
  - extinct forms, a 394-5
  - genera, b 393-4
- TILLODONTIA (Ill.), b 438
- UNGULATA (Ill.), a 427-38
  - bovidæ, b 438
  - bunodonta, b 435
  - camelopardalidæ, a b 438
  - cervidæ (Ill.), a 438
  - characteristics, a b 427
  - cotylophora (Ill.), b 436-8
  - elephas, b 430-1
  - equine section, b 434-5
  - extinct proboscideans, b 430-1
  - pecora (Ill.), a 436-8
  - rhinocerotic section, a b 434
  - selenodonta (Ill.), b 435-8
  - subungulata (Ill.), b 427-33; amblypoda (Ill.), b 431-3; hyracoidea (Ill.), b 427-8; proboscidea (Ill.), b 428-31
  - tapiroid section, b 433-4
  - tragulina (Ill.), a b 436
  - tylopoda, a 436
  - vera ungulata (Ill.), a 433-8; artiodactyla (Ill.), a 435-8; characteristics, a 433, a b 435; perissodactyla (Ill.), a 433-5

——— (America), I, a 598-601; (Asia), II, a *b* 607, a 608; (California), IV, a b 623; (Distribution), VII, a b 233, a 234, a *b* 235, *a* b 236, *a* b 237, *a b* 238, *a b* 239, a b 240, *b* 245, a b 246, b 247-8; (Embryology), VIII, a 155; (Europe), a 608-9; (Hibernation), XI, b 703-4; (Himalaya), a b 744; (India), XII, a 779-81; (Japan), XIII, b 584, a b 585, notes; (Longevity), XIV, b 868, a 869; (Philippine Islands), XVIII, a 764; (Reproduction), XX, a 420, b 421, *b* 422, *b* 425, a 426, a 429, a b 432; (Sex), XXI, b 757; (Smell), XXII, b 176-7; (Zoology, American), XXIV, a b 923, a b 925. See names of principal Mammals

——, brain of (Physiology) (Ill.), XIX, a b 38; classifications of (Zoology), XXIV, a 844, a 846, a 847, a 848, b 849, a 852; egg of (Zoology), b 855; feeling in, XV, b 369; (Touch) (Ill.), XXIII, a 509; muscular fibre of (Histology) (Ill.), XII, b 10; oolite (Geology), X, b 315, a 316; (Zoology), XXIV, a b 925; parasites of (Protozoa), XIX, b 878, a 879; preserving (Taxidermy), XXIII, b 96; Skeleton, XV, b 357-63; XXII, a b 125, *a b* 126; vertebræ, XV, a 359-60; (Skeleton), XXII, a *b* 119, *a* 120

Mammaliferous crag formation (Geology), X, b 323

Mammary glands (Mammalia), XV, a 371; (Milk) (Ill.), XVI, a 314-5; (Pathology), XVIII, b 385, b 386, a b 387, a b 388, a b 389, a b 390, b 391-2; blood-vessels of (Anatomy), I, b 793, a 794; tumors of (Surgery), XXII, *b* 722. See Lacteal

Mammillaria, plant (Cactus), IV, *b* 555; (Horticulture), XII, a 275

Mammon-worship (Idolatry), XII, a 737. See America, England, Great Britain, especially commercial references

MAMMOTH, fossil, XV, a 454-5; (Archæology), II, a 294, b 295; (Elephant), VIII, b 118; (Mammalia), XV, a 431

MAMMOTH CAVE, Kentucky (Map), XV, b 455-7; (Cave), V, a b 231, b 234

—— coal bed (Pennsylvania), XVIII, b 511

—— Hot Springs (Yellowstone Park), XXIV, b 774

—— Ivory, XIII, b 530, a 532, a 533

—— powder (Gunpowder) (Ill.), XI, a 294

Mam Saul, mountain (Ross Co.), XX, a 877

Mamun or Mamoun of Baghdad, caliph (Al-Mamun), I, a 519; (Anatomy), a 706; (Arabian Philosophy), II, a 234; (Earth), VII, a 516; (Geography), X, a 159; (Mohammedanism), XVI, b 604, b 605-7; (Syriac Literature), XXII, *a* 88-9; (Tarsus), XXIII, b 73

Mamurat el-Aziz, town. See KHARPUT

Mamurius Veturius, type (Mars), XV, a b 577

Man (Acclimatization), I, a 84; (Hibernation), XI, b 703; (Kabbalah), XIII, b 821-2; (Longevity), XIV, a 869-70; (Mammalia), XV, a 451-2

——, agency of (Geology), X, b 257-8

——, antiquity of (America), I, b 607-8; (Geology), X, b 327; (Mammalia), XV, a b 452

——, blood of (Mammalia), XV, b 366; heart force in (Vascular System), XXIV, b 105-6, a 110, b 115, *b* 116, a 117, a 118

——, doctrine of (Aristotle), II, b 458, a 459; (Charron), V, b 373; (Hobbes), XII, b 35, a 36, b 39, a 42; (Mencius), XVI, b 9-10; Spinoza's (Cartesianism), V, b 136; in Theology, XXIII, b 292

——, dual nature of (Cartesianism), V, b 129-30

——, feeling in (Touch) (Ill.), XXIII, b 509-13

——, organic position of (Anthropology), II, a 95-7; (Morphology), XVI, b 872

——, origin of (Indians), XII, a 862, a 865; (Mammalia), XV, b 451-2; (Manichæism), b 490, a 491, b 492; (Mythology), XVII, a 164; (Tibet), XXIII, a 365

——, parasites of (Parasitism), XVIII, b 264; (Protozoa), XIX, b 879, a 888; (Tape-Worms), XXIII, a 61; (Trematoda) (Ill.), b 572-3, a b 574

——, periods of development in (Medical Jurisprudence), XV, b 788. See ANATOMY, ANTHROPOLOGY, Humanity

MAN, Isle of (Map), XV, a 457-62
- agriculture, b 458-9
- antiquities, a 462
- civil administration, b 459-60
- climate, b 458
- fauna, a 459
- geology and minerals, a b 458
- history, b 460-2
- literature, a 462
- manufactures and trade, a b 459
- physical features, a 457-8
- population, a b 460
- religion and education, a 460

—— (Alexander III., Scotland), I, a 434; (Archbishop), II, b 323; (Fisheries), IX, b 231; (Heraldry), XI, a 613, a 627; (Ireland), XIII, b 251, a b 252, b 258, b 260; (Newspapers), XVII, b 434; (Scotland), XXI, a 508; (Women), XXIV, a 674. See Manx

Mana, river (Guiana), XI, a 225, a 226
Ma'na of Bēth Hardashér, translator (Syriac Literature), XXII, a b 871
MANACOR, town, XV, a 462
Manacus, genus (Manakin), XV, b 462
Manado, residency (Celebes), V, a 250, b 251, a b 252
MANAGUA, town, XV, a b 462; (Nicaragua), XVII, a b 492; Lake (Nicaragua), b 490, *a* 491
MANAKIN, bird, XV, a 462–3
Manama, town (Bahrein), III, b 207
Manandán (Ireland), XIII, b 252
MÁNANTADI or Manantoddy, town, XV, a 463
Máná rabbá, myth (Mandæans), XV, b 475, *a b* 476, a 478
Manás, river (Bhután), III, b 545
Mánasarowar, lake (Himalaya), XI, b 737; (Tibet), XXIII, a 361, a 364
Mánaskhanda (Himalaya), XI, a 745
Manassas, battles of, 1861, 1862 (Jackson, T. J.), XIII, b 544–5; (Stuart), XXII, a 931; (United States), XXIII, a b 823, a 826
—— Gap (United States), XXIII, b 844, a 845
Manasseh, king of Judah (Habakkuk), XI, b 319–20; (Isaiah), XIII, b 390; (Israel), a b 425; (Micah), XVI, b 234; repentance of (Chronicles), V, a b 615; *Prayer of* (Apocrypha), II, b 159, a 161
——, priest (Samaria), XXI, b 256, a b 257
MANASSEH, tribe, XV, a b 463; (Israel), XIII, b 411–12, note; (Palestine), XVIII, a 180
Manasses, Constantine, chronicler (Byzantine Historians), IV, a 546
MANATEE or manatus (Ill.), XV, b 463–5; (Mammalia) (Ill.), a 360, a 365, b 376, *a* b 393, a 394, a 395
—— Hills (Honduras), XII, b 136
Manava-Dharmaśástra (Sanskrit), XXI, b 301, note, a 302
Mânavas, school (Sanskrit), XXI, b 292, b 301–2
Manazil, mansions of the moon (Zodiac), XXIV, a *b* 833
MÁNBHUM, district, XV, a b 465
Manby, George William, captain (Life-Boat), XIV, a b 576
Mance heliostat (Heliography), XI, a 565
Mance's method (Electricity), VIII, b 47–8
MANCHA, La, district, XV, b 465–6; (Spain), XXII, a 308, b 309. b 310, a b 311, b 313, a 315
Manchar lake (Bombay), IV, b 20; fossil beds (India), XII, *b* 773
MANCHE, department, XV, a b 466
MANCHESTER, city (Plan), XV, a 467–72
  bibliography, b 472
  buildings, a b 468
  churches, a 469
  commercial features, b 468, a 471
  education, b 469–70
  government, a 469, a 471
  history, a 471–2
  libraries and museums, a b 470
  parks and statues, a 467–8
  population, b 470–1
  water and light, b 468–9
—— (Cobden), VI, a b 79; (Gaskell), X, a *b* 94; (Libraries), XIV, a b 520, b 545; (Newspapers), XVII, b 432; Ballot system, III, a 250; Coal-field, V, a b 49; cotton mills (Cotton), VI, a 434; (India), XII, b 796; massacres of (England), VIII, b 326; (Ireland), XIII, b 277; nastiness of (Geology), X, a 197; Water-supply, XV, b 468–9; XXIV, a b 427, a 430; (Aqueduct), II, a 195–6, b 200
MANCHESTER, Connecticut, town, XV, b 472
MANCHESTER, New Hampshire, town, XV, b 472; (New Hampshire), XVII, b 401, a 402
——, Sir Edward Montagu, earl of, general (Cromwell), VI, b 529, *a* 530
——, Sheffield and Lincolnshire Railway, XX, b 234, a *b* 235–6, a 242, b 251, a 253; (Savings Banks), XXI, b 345
—— Unity (Friendly Societies), IX, *a* 687; (Oddfellows), XVII, a 744
Manchots, birds (Penguin), XVIII, b 501
Manchu Dictionaries, VII, a 167; dynasty (Corea), VI, a 350; tribes (Asia), II, a 609; (China), V, b 545, b 562, b 563–4; (Mongols), XVI, b 770; writing (Mongols), b 776–777
MANCHURIA, provinces, XV, a 473–5; (Asia), II, a 600, b 604; fauna of (Distribution), VII, a 235
Mancini, Hortense, duchess of Mazarin (Saint-Evremond), XX, a 177
——, Pasquale Fernando, statesman (Giannone), X, b 510
Mancipation (Roman Law), XX, b 693–5; jus civile (Roman Law), a 707–8; jus gentium (Roman Law), *a* 719
Manco Capac, legendary hero (America), I, *a* 613, a 615; (Bolivia), IV, b 11
MANDÆANS, sect, XV, a 475–8
  cosmology, b 476–7
  features of the system, b 475–7
  feasts, b 477
  origin of the system, b 477–8
  priesthood, a b 477
  sacred books, a b 475
  spiritual emanations, a 476
  theology of, b 477–8
—— (Hemerobaptists), XI, a 576; (Sabians), XXI, a b 136; language of (Aramaic Literature), II, a b 270; (Semitic Languages), XXI, b 680–1, *a* 682; (Ural Altaic), XXIV, b 5, a *b* 6, a 7
Mandaitic Grammar, Nöldeke (Talmud), XXIII, a 43
MANDALAY, city, XV, a b 478; (Burmah), IV, a 497 note
Mandamento, division (Italy), XIII, b 457
MANDAMUS, writ of, XV, b 478–9; (Writ), XXIV, b 729, b 731
Mandans, tribes (Indians), XII, a b 872
Mandarin, official (China), V, a 564, b 565, *b* 580–1, *b* 583; (Cochin China), VI, b 88
—— Orange, XVII, b 835
MANDATE, contract, XV, a 479
Mandávi, port (Cutch), VI, b 644, a b 645; river (Goa), X, b 629, a 630
Mandelic acid (Polarity), XIX, a b 327
Mandeling, district (Sumatra), XXII, *b* 672
Mander, Karel van, painter (Lucas), XV, *a* b 40; (Gossart), X, *b* 750
MANDEVILLE, Bernard de, ethical writer, XV, b 479–80; (Ethics), VIII, a 528
MANDEVILLE, Jehan de, or Sir John, traveller, XV, b 480–3; (Geography), X, a 160, note; (Odoric), XVII, a 749; (Polo), XIX, *a* 422
Mandhar, kingdom of (Celebes), V, a 252
MANDI, state, XV, a 483
Mandible, bone (Amphibia), I, a 662, a 665, b 666, a 668, b 674; (Anatomy), b 723; (Ape), II, b 139; arch of (Skeleton), XXII, b 123–4
—— of insects (Arachnida), II, b 238; (Bee), III, a 419; (Hymenoptera), XII, b 606. See Falces
MANDINGOES or Malinkees, race, XV, a b 483; (Africa), I, b 235; (Negro), XVII, b 327; (Senegambia), XXI, *a* 695; (Soudan), XXII, a 292
MANDLA, district, XV, b 483
Mandola or mandore, musical instrument (Lute), XV, a 72
Mandoline, musical instrument (Lute), XV, *a* 72
Mandor, city (Jodhpur), XIII, a 715
Mandragola, comedy (Italy), XIII, a 520, a 523; (Machiavelli), XV, a *b* 152
Mandragora, plant (Anæsthesia), I, b 692; (Mandrake), XV, a 484
MANDRAKE, plant, XV, a 484
Man-dram, beverage (Cayenne Pepper), V, a 244
Mandrel or spindle (Lathe) (Ill.), XIV, a 324
MANDRILL, baboon, XV, a 484–5; (Ape), II, b 133, b 140
Mandrocles, painter (Archæology), II, a 309
Mandu, range (Gwalior), XI, b 398
Mandurah, town (Western Australia), XXIV, b 536
MANDURIA, city, XV, a 485
"Man-eater" (Tiger), XXIII, b 412
Mané Bras, barrows (Carnac), V, b 104
Maneh in Weights and Measures, XXIV, *a* 514
Man-engine, elevator (Mining) (Ill.), XVI, b 483–a 484
"Maneries theory" (Scholasticism), XXI, b 441
MANES, spirits, XV, a 485–6
——, sectarian. See Mani
MANETHO, priest, XV, b 485–6; (Chronology), V, b 616, b 617; (Egypt), VII, b 619, a 621, b 623, note, a 624, b 632, a b 633, *a b* 634, a 635 note, a *b* 636, *b* 637, a 638, *b* 641, *a* 642, a 670, b 671; (Israel), XIII, a 410
Manetta, Filippo, author (Negro), XVII, b 326, a 329
Manetti, Giannozzo, classicist (Italy), XIII, b 516
Manfaloot, town (Egypt), VII, a b 672
MANFRED, king of Sicily, XV, a b 486; (Alexander IV.), I, b 430; (Charles of Anjou), V, *b* 366; (Conradin), VI, b 258; (Dante), b 713; (Italy), XIII, b 485, a 486; (Sicily), XXII, *b* 32
Manfred, play (Byron), IV, a 540, a 542
MANFREDONIA, city, XV, b 486
Mangaba, fruit (India-Rubber), XII, a 878
Mangabeira, gum (India-Rubber), XII, a b 878
MANGALIA, town, XV, b 486
Mangaians, people (Mythology), XVII, *b* 143, a 156, *a* 164
MANGALORE, town, XV, b 486; (Kánara), XIII, *b* 844
Manganates (Chemistry), V, b 463; (Manganese), XV, a b 488
Manganeisen, metal (Iron), XIII, b 359–62
MANGANESE, metal, XV, b 486–8; (Brazil), IV, a 202; (Chemistry), V, a 462–4; (Devonshire), VII, b 121; (France), IX, b 461; (Huelva), XII, b 347, *a* 348; (Iron), XIII, b 287, b 289, a 303; (Mineralogy), XVI, b 386, a b 403, a 407, a 409, a b 414, a 422; (Mining), a 489, a 491; (Pacific Ocean) (Ill.), XVIII, b 129–30, a 131; action of light on (Photography), XVIII, a 853; in analysis of Iron, XIII, a b 295; effect on tensile strength (Iron), b 363; oxidation in cast steel (Iron), a b 343; in puddling (Iron), a 349
—— -bronze (Iron), XIII, a b 362
—— oxide (Scheele), XXI, b 404, a 405; regeneration of (Chlorine), V, *b* 589–90
—— reaction (Blowpipe), III, a 729
—— -red (Mineralogy), XVI, b 414
—— -salts (Spectroscopy), XXII, b 391
—— spar (Mineralogy), XVI, b 434
—— submarine peroxide (Geology), X, *b* 255

Manganese, name (Horse), XII, b 189
Manganiferous ores (Iron), XIII, a 335, a 341, b 342
Manganite (Mineralogy) (Ill.), XVI, b 403
Manganocalcite (Mineralogy), XVI, a 415
Mangatu, river (Chatham Islands), V, a 385
Mange, disease (Veterinary Science), XXIV, b 223
Mangel-wurzel, beet (Agriculture), I, a b 327; (Brewing), IV, b 242; (Dairy), VI, b 677
Mangeraai, island. See FLORES
Manghishlak district. See Mangishlak
Manghit dynasty (Bokhara), IV, b 4-5
Mangishlak peninsula (Caspian Sea), V, b 154; (Transcaspian), XXIII, b 545; (Russia), XXI, b 76, notes
Mangku Khan (Kublai Khan), XIV, *b* 151
Mangle (Calender), IV, a 605; (Jute), XIII, a 812
MANGO, tree, XV, b 488
Mango-fish (Asia), II, a 608
Mangòky, river (Madagascar), XV, b 169, a 170
Mangold. See Mangel-wurzel
——, critic (Romans), XX, b 747, note, *a* 748, a 749
Mangoro, river (Madagascar), XV, b 169
MANGOSTEEN, fruit, XV, b 488-9
MANGROVE, tree, XV, a 489; (Brazil), IV, a b 203; (Malaria), XV, b 321; swamps (Geology), X, a 257
Măngs or Măng-suns, clan (Mencius), XVI, a 7
Mang-Srong mang btsan, king (Tibet), XXIII, a 367
Mang-tsze, works of Mencius (China), V, *b* 574. See MENCIUS
Mangualil, river (Honduras), XII, b 133
Mangu, Khan (China), V, a b 562; (Mongols), XVI, b 768-9
—— Timur, Khan (Mongols), XVI, a 773
Mang-yul province (Tibet), XXIII, *a* 361
Man-haou, town (China), V, b 556
Manhattan Island (New York), XVII, b 469-70
—— Railway Co. (Railway), XX, b 249-50
Manheim, town. See MANNHEIM
Manhissa, river (Delagoa Bay), VII, b 36
Mani, teacher (Manichæism), XV, b 489-90, b 492-3; (Persia), XVIII, b 619
——, votive wall (Ládac), XIV, b 198, note
Mania, disease (Insanity), XIII, b 109, a b 110-13; dancing (Tarantula), XXIII, a 66; a potu (Insanity), XIII, b 115
Manìa, river (Madagascar), XV, *b* 169
Maniaces or Maniakes, George, general (Sicily), XXII, b 29-30; (Syracuse), b 856
MANICHÆISM, XV, a 489-95
  contemporary systems, a b 489
  ethics, b 491-2
  historical position, b 492-3
  history of, b 493-4
  literature, b 494-5
  Mani's life, b 489-90
  Mani's writings, a 490
  sources of history, b 494
  system of, b 490-1
  worship, b 491-2
—— (Albigenses), I, *b* 402; (Augustine), III, b 66, b 67; (Docetæ), VII, a 269; (Dominic), b 306; (Gnosticism), X, b 628; (Heresy), XI, b 656, *a* 659; (India), XII, a 828; (Leo I.), XIV, b 448-9; (Mandæans), XV, a b 476; (Monachism), XVI, b 725; (Simon Magus), XXII, a 88; (Waldenses), XXIV, a b 343. See BOGOMILI, PAULICIANS
Manicheé, Histoire Critique de (Beausobre), III, a 410
Manicordo musical instrument (Pianoforte) (Ill.), XIX, *b* 74
Manidæ, family (Mammalià), XV, a 351, *a* b 387, b 391-2
Manifold, the (Eleatic School), VIII, b 3
Manifoldness (Mathematics), XV, a 636-7; (Measurement), b 667, a b 668; continuous (Mathematics), a b 636, a 637; discrete (Mathematics), *a* b 636
Manifold Writing, XXIV, a b 733
Manihot glaziovii, plant (India-Rubber) (Ill.), XII, b 877-8
Mani Kambum (Lāmāism), XIV, a b 229
MANILA, city, XV, a b 495; (Philippines), XVIII, a 764, a b 765, b 766, a b 767
—— cheroots (Tobacco), XXIII, b 453
MANILA-HEMP, XV, b 495-6; XI, b 577, *b* 578; (Fibres, Textile), IX, a 116; (Rope), XX, a b 866
Manilian law (Cæsar), IV, b 563-4; (Cicero), V, b 673; (Rome), XX, *a* 782, b 785
MANILIUS, poet, XV, a 496; (Zodiac), XXIV, a 834; *Commentary on* (Scaliger), XXI, *b* 379
Manilla, coin (Brass), IV, a 197
—— -nut (Ground Nut), XI, b 196
MANIN, Daniele, patriot, XV, a b 496; (Italy), XIII, a b 499
——, Ludovico, doge (Foundling Hospitals), IX, b 426; (Venice), XXIV, b 159
Manindji, lake (Sumatra), XXII, a 672
Man in the Moon (Godwin, F.), X, a 638
Manioc, food (Cassava), V, b 159; (Tapioca), XXIII, b 61; (Forests), IX, a 358. See Arrowroot
Maniolæ, islands (Maldive Islands), XV, a 333
Maniple, vestment (Costume) (Ill.), VI, b 408
Manipulated dislocations (Surgery), XXII, a 717
Manipuli, troops (Army), II, b 492, a 493
MANIPUR, state, XV, b 496-7
Manis, mammal (Mammalia), XV, b 360, b 361, b 372, b 391-2; (Pangolin), XVIII, b 214, a 215
MANISA, town, XV, a b 497
MANISTEE, city, XV, b 497
MANITOBA, province, XV, b 497-8; (Canada), IV, a *b* 676, a *b* 678, a 680-1, *a* 682, a 683, b 684, a 686; (N. W. Territory), XVII, *b* 587; trade of (Canada), IV, b 688-9
Manitou springs (Colorado), VI, *a* 146
MANITOWOC, city, XV, b 498-9
Mañju-srī, saint (Lāmāism), XIV, *a* b 228, a 229
Mankato, city, XV, a 499
MANLEY, Mary de la Rivier, authoress, XV, a b 499
——, Sir Roger, author, XV, a 499
MANLIUS, Cnæus Vulso, consul, XV, b 499
——, Lucius Vulso, consul (Rome), XX, a 766
MANLIUS, Marcus Capitolinus, soldier, XV, b 499
MANLIUS, Titus Imperiosus Torquatus, consul, XV, b 499
MANLIUS, Titus Torquatus, consul, XV, b 499
Manly Beach, town (Sydney), XXII, b 847
MANN, Horace, educator, XV, b 499-500; (Schools), XXI, a 911
——, Sir Horace, diplomatist (Walpole), XXIV, b 354, b 355
MANNA, exudation, XV, a 500-1; (Afghânistân), I, b 208; (Arboriculture), II, a 281; (Ash), b 594; (Calabria), IV, b 577; (Cedar), V, b 248; (Honey), XII, b 139, b 141
—— -ash (Botany), IV, a 78
Manna de Briançon, gum (Larch), XIV, a 311
Mannaia (Guillotine), XI, b 233
Manna lichen (Lichens), XIV, a 563
Mannār Passage (Ceylon), V, b 311, a 314
Manners (Drama), VII, a 342; social (Quakers), XX, b 156-7
——, John, lord (Post-Office), XIX, a b 587
MANNHEIM, town (Plan), XV, a b 501; (Academy), I, a 70; (Baden), III, *a b* 194; (Fortification), IX, a 390; (Observatory), XVII, a 733
—— convention, 1848 (Germany), X, b 453
Manning, Edward Henry, cardinal (Vatican Council), XXIV, a 122
MANNING, Robert, chronicler, XV, b 501-2; (English Literature), VIII, b 365, b 366
——, Thomas, traveller (Lhasa), XIV, b 502, a 503; (Solomon Islands), XXII, b 266; (Tibet), XXIII, b 359
——, William, inventor (Patents), XVIII, b 877
Mannite, chemical substance (Fermentation), IX, b 85; (Honey), XII, a 140; (Manna), XV, *b* 500
Mannucci, printer. See Manutius
Mannus, legend of (Germany), X, a 425, a 467
Manoa, mythical city (El Dorado), VII, *b* 721
Manoah, family of (Samson), XXI, b 264
Manoel I., of Portugal, Fortunate, VIII, b 145; (Gama), X, *a* b 53; (Osorio), XVIII, b 59; (Portugal), XIX, b 560-1
Manœuvres, military (Artillery), II, a 584; (War), XXIV, a b 380
Manœuvring (Edgeworth, Maria), VII, b 567
Man of Feeling (Mackenzie), XV, b 159
Man of Mode (Etheredge), VIII, b 505
Man-of-War, drawing (Turner), XXIII, b 707
Man-of-war-bird (Frigate-Bird), IX, a 690, note
Manoh or Manna river (Sierra Leone), XXII, b 49
Manolessius, Carolus, editor (Pappus), XVIII, a 235
MANOMETER, pressure gauge (Ill.), XV, a 502-3; (Metallurgy), XVI, b 65; (Pneumatics), XIX, b 257; flame (Acoustics) (Ill.), I, a 108, b 109
Manometric gas thermometer (Pyrometer) (Ill.), XX, b 137-8
—— thermometry (Heat) (Ill.), XI, b 500, note, a 506-8, a b 513, a 514
Manon, Lescaut, novel (Prévost d'Exilles), XIX, a *b* 739
Manoof canal (Egypt), VII, b 615
MANOR, an estate, XV, b 503-4; (Commons), VI, b 186; (Copyhold), b 315-6; (England), VIII, b 268; (Real Estate), XX, a b 318, note, b 320
Manorial lordship (Seignory), XXI, b 654
Manouria, genus (Reptiles), XX, a 481
Man overboard, saving (Seamanship), XXI, b 630
Man Proposes, painting (Landseer), XIV, b 281, a 282
MANRESA, town, XV, a b 504; (Wine), XXIV, a 640
MANS, Le, town, XV, b 504-5; (Normandy), XVII, *b* 557, a 558; (William I.), XXIV, a b 607; battle of, 1793 (France), IX, a 534
Mansabdárs, class (India), XII, *a* 834
Mansard or Mansart, Jules Hardouin, architect (Lyons), XV, b 112; (Paris), XVIII, a 293; (Versailles), XXIV, a b 191, a b 192
Manse defined (Glebe), X, b 603, a 604
MANSEL, Henry Longueville, metaphysician, XV, a 505; (Absolute), I, b 58; (Browne, Peter), IV, b 350; (Gnosticism), X, *b*

MANSEL, Henry Longueville, *continued* 625, a b 627, b 628; (Logic), XIV, a 804 note, a 808, a b 809, b 810 note; (Psychology), XX, b 46, a 88, note; (Scepticism), XXI, a 399; (Theism), XXIII, b 264, b 265
——, Sir Robert, admiral (Algeria), I, a 499; (Glass), X, a 583
MANSFELD, Count Ernest of, general, XV, b 505; (Wallenstein), XXIV, *b* 349
Mansfield, mountain (United States), XXIII, b 842; (Vermont), XXIV, b 180
MANSFIELD, town, XV, b 505
MANSFIELD, Ohio, town U.S., XV, b 505
——, Charles, inventor (Gas-Lighting), X, b 91
MANSFIELD, William Murray, earl of, jurist, XV, b 505-7; (Fearne), IX, a 53; (Junius), XIII, *a* 785; (Slavery), XXII, a 147; (Telescope), XXIII, b 149; (Wreck), XXIV, b 722
Mansion House (London), XIV, a 829, b 838, b 843, a 852, a 861, a 862
Mansions. See Dwellings, Palace
—— lunar, Arabian (Zodiac), XXIV, b 833; Hindu, (Zodiac), a 833
MANSLAUGHTER, XVII, b 58-9; (Homicide), XII, a b 128
Manso, Giovanni Battista, marquis de Villa (Milton, John), XVI, b 339
MANSON, George, water-color painter, XV, a b 507
Mansoor el Hakim, chief. See HAKIM
Mansoor, El Melikel, sultan (Egypt), VII, a 656
Mansoorah, El, town (Egypt), VII, b 654, *a* 655, a 667
MANSUR, Abú Ja'far al-, caliph, XV, b 507-8; (Abbasides), I, b 15; (Mohammedanism), XVI, a 601-2; (Syriac Literature), XXII, a 888
—— Abul Cassim, poet. See FIRDOUSI
—— ibn Abí'Amir, caliph of Cordova (Sunnites), XXII, b 694
—— II., ben Nuh, king (Samanid Dynasty), XXI, b 253, *a* 254
——, devotee (Circassia), V, a 689
—— of Hallaj, pantheist (Hafiz), XI, b 328
Mansuy, St., missionary (Toul), XXIII, a 514
Mausvelt, pirate (Buccaneers), IV, *a* 368
Mant, Richard, bishop, *b.* 1776, *d.* 1848 (Hymns), XII, a 630
Mantanga, king (India), XII, b 821 note
Mantaro or Xauxa, river (Peru), XVIII, a 686
MANTEGNA, Andrea, painter and engraver, XV, a 508-10; (Bellini), III, a *b* 472; (Dürer), VII, b 479, a 481; (Engraving), VIII, a b 392; (Mural Decoration), XVII, b 44; (Padua), XVIII, a 136; (Schools of Painting) (Ill.), XXI, a b 454, b 462, b 465, *b* 467
MANTELL, Gideon Algernon, geologist, XV, a 510; (Iguanodon), XII, b 740
Mantes, town (England), VIII, b 264
Manteuffel, Edwin Hans Karl, general, *b.* 1809, *d.* 1885 (Germany), X, *a* 456
Mantic or *Mantik Uttair*, poem (Ferid-Eddin-Athar), IX, *b* 78; (Persia), XVIII, a b 671, b 673
Mantidæ, group (Insects), XIII, a b 159
Mantin, battle of, 1595 (Roumania), XXI, a 22
MANTINEIA, city, XV, a b 510; (Numismatics), XVII, a 660; battle of, 362 B.C. (Megalopolis), XV, a 836; plain of (Greece), XI, b 74, a 93
Mantis, insect (Mimicry), XVI, b 354, a 356; (Mythology), XVII, a 154. See Mantidæ
Mantissa (Logarithms), XIV, *b* 779
Mantle, article of dress (Costume), VI, b 411, a *b* 412, *a b* 413, a b 415, a 416, b 417, b 419, *a* 423
Mantle or pallium (Brachiopoda), IV, b 172-3; (Mollusca), XVI, b 658, a 681, a 688; (Tunicata), XXIII, a b 649, b 655; sac (Cuttle-Fish), VI, a b 649; chamber (Mollusca), XVI, b 684; flap (Mollusca), b 658; skirt (Mollusca), b 661, b 674, b 676, b 679; of Nautilus (Mollusca), b 697, b 700
Mantling, the (Heraldry), XI, b 635
Mantovano or Mantuano, Rinaldo, painter (Pippi), XIX, b 122
MANTUA, city, XV, a b 511; (Gonzaga), X, *a* 687; (Italy), XIII, b 455; (Mantegna), XV, *a* b 509; (Numismatics), XVII, a 675; (Pippi), XIX, *a* b 122; (Virgil), XXIV, b 267, b 268; siege of, 1796-97 (Napoleon I.), XVII, *a* 204
Mantuan Bible, III, b 560
Mantras (Brahmanism), IV, b 182, b 184
Mantris, officials (Java), XIII, a 616
Mantumba, lake (Zaire), XXIV, b 802-3
Mantzi, country (China), V, b 545
Manu, sage (Caste), V, *b* 164, b 165, a *b* 166; (India), XII, b 821 note; (Poetry), XIX, b 274; (Sanskrit), XXI, a 302; his *Code of Laws* (Brahmanism), IV, *a b* 184, a 185, b 186, a 188; (Family), IX, a 20; (India), XII, a 822; (Ordeal), XVII, a 844; (Primogeniture), XIX, b 753, a 755; Cosmogony of, VI, a 396
Manual, service-book (Liturgy), XIV, a 716
Manual, keyboard (Organ), XVII, b 852, a 854, a 858, b 860
—— alphabet (Deaf and Dumb) (Ill.), VII, a b 9
—— Training (Schools), XXI, a 912. See Industrial and Technical Education
Manubrium (Hydrozoa), XII, a b 583
MANUCODE, bird, XV, b 511-2
MANUEL I., Comnenus, Eastern emperor, XV, a b 512; (Andronicus I.), II, *a* 22; (Greece), XI, *a* 105, a 106; (Venice), XXIV, a 154
MANUEL II., Palæologus, Eastern emperor, XV, b 512; (Greece), XI, a 131; (London), XIV, b 829
MANUEL I.-III., emperors of Trebizond, XV, b 512-3
——, king, Portugal. See Manoel
——, general (Mohammedanism), XVI, a b 607
—— Chrysoloras. See Chrysoloras
—— Philes. See Philes
Manuel du Libraire, catalogue (Bibliography), III, b 571; (Brunet), IV, b 358
Manufacture as an Art, II, b 559; deterioration of British (Protection), XIX, b 935; English views of (Political Economy), XIX, b 389; expansion of (Trade Unions), XXIII, a 531; Financial view of, IX, b 166; of farms (United States), XXIII, a 877; Free Trade view, IX, a b 663; mediæval (Commerce), VI, b 179; productive character of (Technical Education), XXIII, b 113, *a* 114; state patronage (Political Economy), XIX, b 367-8
Manufactures of curious or especial interest, American (Patents), XVIII, b 884; (United States), XXIII, *a* 876, b 878-9; colonial, b 780, a 781; in 1816, b 809; expansion of, a 831; revenue from (Taxation,) b 924; rise of, a 801
——, Arabian, II, b 213; (Mohammedanism), XVI, b 619
——, Dutch (Holland), XII, a b 71; Egyptian, VII, b 681; French, IX, b 459-62, b 506
——, Hindu (India), XII, b 799-803; (Kashmir), XIV, b 13
——, Irish, XIII, b 235-8, a b 275, a 276
——, Persian (Ispahán), XIII, a 405; XVIII, b 636-7
——, Polynesian, XIX, a 439
——, Russian, XXI, a b 94
——, Scotch, XXI, b 557-8; Siberian, XXII, b 14-5. See in analytical contents of each country references to the statistics of MANUFACTURES
Manu-mea, bird (Pigeon), XIX, a 94
Manumission (Roman Law), XX, a 723, b 732; (Slavery), XXII, b 141, a b 142, *a* 143; American (Slavery), *b* 907. See Abolition, Anti-slavery, Emancipation
MANURE, XV, a 513-9
  agricultural resources, a b 513
MANURE, *continued*
  alkaline forms, b 516
  application of, b 519
  artificial manures, b 518-9
  comparative tables, 514, a 515, a b 517, a b 518
  farmyard manure, a 517-8
  feeding stuff manure, a b 518
  nitrogen, b 513-6, a 519
  phosphoric acid, a 516, a 519
  potash salts, b 516
—— (Agriculture), I, a 305-14, a 341, a 359; (Chalk), V, a 323; (Coprolites), VI, b 313-4; (Liebig), XIV, a b 571; (Hops), XII, a 161; (Mussel), XVII, b 117; (Nitrogen), b 530; (Phosphorus), XVIII, a b 832
——, amount per acre (Agriculture), I, a 366; applying, a b 301, a b 325, a 331; artificial, b 314; composting (Agriculture), a 275, b 311-2, a 332; inorganic (Horticulture), XII, b 238-9; liquid (Agriculture), I, a 275, b 305-9; organic (Horticulture), XII, a b 238; portable (Agriculture), I, b 271; sea weed (Jersey), XIII, a *b* 645. See Fertilizers, Plant Food
—— distributors (Agriculture), I, a 286
Manus mountain (Syr-Daria) XXII, a 859
Manus or hand (Amphibia), I, b 668; (Mammalia) (Ill.), XV, a b 362. See Hand
MANUS, law-process (Roman Law), XX, b 688, note, a 689, *b* 694, b 695, b 699; (Husband and Wife), XII, a 416; injectio (Roman Law), XX, a *b* 698, a 699, b 701, a 702-3, a 712; in jus naturale, *a* 725, a 732
Manuscript, oldest Egyptian (Theism), XXIII, a 257; property in (Copyright), VI, b 323-4, a b 325; (Protection), XIX, a 927, a 928-9, a b 930-1
Manuscripts (Acts of the Apostles), I, b 114; (Basilica), III, a 363; (Cædmon), IV, a 560; (Catullus), V, b 218; (Demosthenes), VII, b 65; (Edrisi), b 581; (Euripides), VIII, a b 596; (Exeter), b 701; (Golden Bull), X, a b 674; (Guy of Warwick), XI, a 305; (Isocrates), XIII, b 403; (Pâli), XVIII, a b 188, a 189, a 190; (Patmos), a b 418; (Patrick, St.), b 422; (Pesaro), b 697; (Petis De La Croix), a 717, note; (Physiologus), XIX, b 11; (Pindar), b 110; (Polo), a 421; (Prester John), a 735; (Thucydides), XXIII, b 347; (Tibullus), a 373; (Zend Avesta), XXIV, a b 816. See Codex, DIPLOMATICS, PALÆOGRAPHY
——, Abyssinian, I, a 64; Arabic (Casiri), V, b 153; (Geber), X, a 113; Barberina (Libraries), XIV, a 529; Bibliothèque National (Libraries), *a* b 524; British Museum (Libraries),

Manuscripts, *continued* b 514-5; Cambridge University (Libraries), a *b* 519; of classics, recovery of (Poggio), XIX, b 286; cloister (Libraries), XIV, b 531; Danish (Scandinavian Languages), XXI, b 389, Dante (Libraries), XIV, a b 529, a 530; (Illumination), XII, b 745; decorated (Miniature), XVI, b 456-9; early paper, XVIII, a b 221, note, a b 223; early stained (Palæography), b 148; Ethiopian, VIII, a b 539; Gaelic, X, a b 12; in France, IX, a 555; (Libraries), XIV, a b 525; Icelandic collections (Scandinavian Languages) XXI, *a* 384, note; Irish (Celtic Literature), V, a b 265, b 266, b 269, b 283; Jehan le Begne (Dyeing), VII, b 493; of Koran (Mohammedanism), XVI, b 627-8; masonic (Libraries), XIV, a 533; Medicean, Florence (Libraries), a 530; Naples (Libraries), b 529; New Testament (Bible), III, b 558-9, Norwegian (Scandinavian Languages), XXI, b 385, note; Oriental (Libraries), XIV, a b 515, a b 518, b 519, a b 526, b 528, b 529, a 531, b 532, *a b* 533; preservation of sacred (Palæography), XVIII, b 166; Russia (Libraries), XIV, *b* 532, a 533; *Sacred* (Syriac Literature), XXII, a 864-6; Scottish (Libraries), XIV, *b* 521; scriptural (Canon), V, b 9, b 11; Swedish (Scandinavian Languages), XXI, a 387; transcription of (Libraries), XIV, a b 513; Vatican (Libraries), a b 528; Venice (Libraries), b 529; Vercelli (Libraries), b 530; Welsh (Celtic Literature), V, a 273, a 274
Manusmriti (Sanskrit), XXI, b 301-2
Manu Svâyambhuva, lawgiver (Sanskrit), XXI, a 302
MANUTIUS, Aldus, or Theobaldo Manuzio or Mannucci, printer, XV, b 519-20; (Bibliography), III, *b* 565, *b* 567, a b 570; (Crichton), VI, *a* 571; (Elzevir), VIII, a 145; (Mendoza), XVI, b 13; (Typography), XXIII, a b 739. See Aldine Press
——, Aldus, junior, printer, XV, a b 521
——, Paulus, printer, XV, b 520-1; (Latin Language), XIV, a 343
Manx dialect, XV, b 460; (Celtic Literature), V, b 258, *a b* 259, a 284; (Dictionaries), VII, a 163. See Man, Isle of
Manytch river (Russia), XXI, *a* 81, a 82; (Stavropol), XXII, *b* 489; Lake (Caspian Sea), V, *a* 157
Manyuema Land (Africa), I, b 222, a 226, b 230, a 236, a b 243
Manzana, mountains (New Mexico), XVII, a b 410
Manzanares, river (Madrid), XV, b 190, *a* 191, a 192
Manzaneros, people (Patagonia), XVIII, *a* 358
Manzanilla, seaport (Colima), VI, b 127
—— Wine, XXIV, b 639
Manzanita, shrub (California), IV, *a* 624
MANZONI, Alessandro Francesco Tommaso Antonio, poet and novelist, XV, a b 522; (Grossi), XI, a 189; (Italy), XIII, b 508, a 525; (Torture), XXIII, b 496
Maong-Ratna, temple (Ava), III, a 125
Maori, race (Dictionaries), VII, b 167; (Dinornis), b 212; (Mythology), XVII, a b 156; (New Zealand), b 483, a b 484; (Phormium), XVIII, b 825, a 826
Maour. See Merv
MAP (Plate VII), XV, b 522-30
  Arabian maps, a b 525
  charts, loxodromic, b 525-6
  Egyptians, a 523
  essays in map-making, b 522-3
  geodic measurements, a 529-30
  Greek maps, a 523-4
  list of topographic maps, b 529-30
  mediæval maps, b 524-5
  Mercator and successors, b 527-8
  nautical maps, b 825-7
  Ptolemaic revival, a b 527
  Roman maps, a b 524
  transition period, b 528-9
  triangulations, a b 529-30. See Cartography, Charting, Mapping, Maps

MAP, Mapes or Mapus, Walter, author, XV, b 530-1; (English Literature), VIII, a b 364, b 375; (Grail, Holy), XI, *a* b 32; (Romance), XX, b 648, *a b* 660, *a* b 662
MAPLE, tree, XV, a 531-2; (Arboriculture), II, b 278, b 281, a 282; (Botany), IV, b 89, a 91; forests (United States), XXIII, b 859, b 860
Maples, tribe (Madras), XV, b 186, b 188
——, Chauncey, traveller (Mozambique), XVII, a 14
Maple Sugar, XXII, a 661; (Vermont), XXIV, a 182
Manocho, stream (Santiago), XXI, b 313
Mappa Mundi, monastic (Hereford), XI, a 654
Mappe Monde, Da Vinci's (Geography), X, b 162, a 163
Mapping (Geography), X, b 178-88; (Surveying), XXII, *b* 750-4; details for (Surveying), a 745-8. See Cartography, Charting
Maps (Alps), I, b 559; (Arrowsmith), II, b 552; (Cabot), IV, *a b* 553; (D'Anville), VI, b 722; (Edrisi), VII, b 581; Ethnographical, VIII, a 550; (Geography), X, a 171; (Germany), b 424; (Hakluyt), XI, a b 338, note 5; (Japan), XIII, b 597; (London) (Ill.), XIV, b 856, notes, a b 857, a 858, note, a b 860; (Navigation), XVII, a 257, a b 259-61; (Polo), XIX, b 422-3; (Pyrenees), XX, a 132; (Rome), b 854; (Spain), XXII, *b* 319; (Tibet), XXIII, a 360; of United States Coast Survey, XXII, b 939-40
——, astronomical (Herschel), XI, b 685, a 687; British geological (Phillips), XVIII, a b 772, a b 773; of Central Asia (Oxus), a b 106, note, a 108; Chinese (Geography), X, a 168; construction of (Geography), b 178-88; (Surveying), XXII, a 745-8, *b* 750-4; cotidal (Tides), XXIII, b 396; falsified (Oxus), XVIII, a 106, note; Greek (Ptolemy), XX, b 93-101; hydrographical (Russia), XXI, a 81 note; of India (Geography), X, a 168; list of topographical, XV, b 529-30; mediæval (Geography) (Plate II), X, b 161, b 162-3; Ordnance Survey (Geography), a 188; Oronce Finé (Globe), a 608; Ptolemy's (Geography), b 158; Zeni (Polar Regions), XIX, b 328, a 329
—— system of aiming (Gunnery) (Ill.), XI, a 275-6
Maquassieberg, range (Transvaal), XXIII, a 550
Maquet, Auguste, novelist (Dumas), VII, a 451
Mar, district (Aberdeenshire), I, b 46
MAR, earldom of, XV, a b 532
——, house of (Genealogy), X, a 130 note
——, Alexander Stuart, earl of (James III., Scotland), XIII, b 566; (Scotland), XXI, *b* 513, a 514, *a* 515
——, Donald, earl of, regent (Scotland), XXI, a 511
——, Erskine, of the Ruthven raid, earl of (Scotland), XXI, *a* 529, a 530
——, John Erskine, earl of, regent (Scotland), XXI, b 525, a b 527, a 528
——, Robert Cochrane, earl of (Scotland), XXI, a b 517
——, son of James II., earl (Scotland), XXI, *a b* 517
Māra, tempter (Buddhism), IV, b 382
Mara III. of Amid, bishop (Syriac Literature), XXII, a 874, a 877
Marabastad, town (Transvaal), XXIII, *b* 550
Mär-abhā I., catholicus (Syriac Literature), XXII, a 865, a b 878
—— II. of Kashkar, catholicus (Syriac Literature), XXII, b 887
Marabou, bird (Adjutant), I, a 141; (Jabiru), XIII, b 539
MARABOUT, saint, XV, b 532-3; (Tunis), XXIII, b 660
MARACAIBO, city, XV, a 533; gulf (Lake Dwellings) XIV, a b 223
Maracanda. See SAMARKAND
MARÁGHA, town, XV, a 533; observatory (Time), XXIII, b 419
Marah, waters of (Locust-Tree), XIV, b 774
Marai, sacred enclosure (Tahiti), XXIII, a b 29
Maraldi, Giacomo Filippo, astronomer (Astronomy), II, a 660, a 704; (Bee), III, a 423, b 435
Maranhão or Maranham, province (Brazil), IV, *a b* 202, a b 203, a 204, b 205, b 206, b 207, a 209, a 210, *b* 212; river (Brazil), b 199
MARANHAO, town and island, XV, b 533; (Brazil), IV, b 202, b 206, b 210, b 212, a 215
Marañon, river (Amazon), I, a 575; (Peru), XVIII, b 682, b 685, a b 686, a 690
Marans of Auvergne, Jews (Caste), V, b 163
Maranta, plant (Arrowroot), II, b 551; (Botany), IV, b 77, a 123
Maraschino, liqueur (Cherry) V, a 509; (Liqueurs), XIV, b 693; (Zara), XXIV, a 808
Marasmius, fungus (Mushroom) (Ill.), XVII, b 83-4
MARAT, Jean Paul, revolutionist, XV, b 533-5; (Corday d'Armans), VI, a 345; (France), IX, a 531, a 532, b 533; (Robespierre), XX, a b 618
Marathi dialect (Dictionary), VII, a 166; (Hindustani), XI, a 752
MARATHON, plain and battle, 490 B.C., XV, a 535; (Attica), III, b 53; (Archæology), II, b 297; Aristides at, a b 444; (Greece), XI, a b 89; (Pan), XVIII, b 211; (Persia), a 583; (Platæa), XIX, b 188
Marathon, Battle of (Mural Decoration), XVII, a 47
Marathonisi, port (Gythium), XI, *a* 317
Marathus, city (Numismatics), XVII, b 667
Marattá, Carlo, painter (Camerino), IV, b 655
Marattiaceæ, group (Ferns), IX, b 92-3
Marbault, author (Sully), XXII, *a* 667
MARBLE, XV, b 535-7; (Apennines), II, a 150; (Azerbigan, *i.e.*, Tabreez or Belghami), III, a 146; (Belgium), b 452; (Building), IV, b 419, a 420; (Burmah), a 493, a 495; (Carrara), V, a 118; (Devonshire), VII, b 121; (Dorset), b 321; (Durham), b 483; (France), IX, b 461; (Geology) (Ill.), X, a 206, a 207; (Greece), XI, a 75, a 80; Istrian (Venice), XXIV, *b* 161; (Italy), XIII, a 452; (Kilkenny), XIV, a 76; (Marágha), XV, a 533; (Mineralogy), XVI, *a* b 413-4; (Paros), XVIII, a 325; (Rome), XX, a b 826; (Venice), XXIV, b 161-2; (Vermont), b 180; artificial (Building), IV, a 455

Marble Arch (London), XIV, a 831, *a* 833
—— cements (Building), IV, a 452
—— cutting (Europe), VIII, b 621 .
Marbled white Butterfly, IV, a 530
Marble Faun or Transformation (American Literature), I, b 637; (Hawthorne), XI, b 480
MARBLEHEAD, town, XV, a 537
Marble players of Polycletus (Archæology), II, b 312
Marbles, Greek (Inscriptions), XIII, a b 127 note, b 128, a b 129
Marble shafts in Gothic Architecture, II, a 374
—— statues, making (Sculpture), XXI, a *b* 598-9
—— Tiles, XXIII, a b 414, note
—— veneer or linings (Mural Decoration), XVII, b 41; (Rome) (Ill.), XX, a 829. See Marble of Venice
Marbling (Bookbinding), IV, b 38-9; (Building), b 458
Marbois, François de Barbé, marquis, statesman (Guizot), XI, a 238
MARBURG, Prussia, XV, a b 537; conference of, 1529 (Luther), *a* 83
MARBURG, Styria, XV, b 537-8
Marcabrun, troubadour (Portugal), XIX, a 570; (Provençal Literature), b 899
Marcanda, city. See SAMARKAND
MARCANTONIO, Raimondi, engraver, XV, a 538-9; (Dürer), VII, b 480-1; (Engraving), VIII, a b 393
MARCASITE, mineral, XV, a b 539; (Iron), XIII, b 286; (Mineralogy) (Ill.), XVI, b 379, a 385, b 394, b 406
Marcel, Étienne, provost (Charles II., Navarre), V, a 367; (Charles V., France), a *b* 355; (France), IX, b 482; (Paris), XVIII, *a* 295, b 297
Marceline, mineral (Mineralogy), XVI, a 403
Marcellina, sectary (Celsus), V, b 256; (Gnosticism), X, a 626
MARCELLINUS, Saint, pope, XV, b 539
——, Ammianus, historian, I, b 648; (Alani), b 391; (China), V, a 545; (Druidism), VII, b 412-3; (Goths), X, *a* 753, a 754; (Huns), XII, a 398; (Julian), XIII, a b 779; (Scotland), XXI, b 494
Marcello, Benedetto, musician (Music), XVII, b 99
MARCELLUS I., pope, XV, a 540; (Palestrina), XVIII, b 185
MARCELLUS II., pope, XV, a 540; (Palestrina), XVIII, a b 183, b 185; (Trent, Council of), XXIII, b 579, a 582
——, monk (Celtic Literature), V, b 273
—— of Ancyra, bishop (Creeds), VI, *a* 497; (Origen), XVII, a 867
MARCELLUS, Marcus Claudius, general, XV, b 539-40; (Archimedes), II, a 333; (Hannibal), XI, a *b* 396; (Spain), XXII, a 321; (Syracuse), a b 856
MARCELLUS, M. Claudius, consul, XV, a 540; (Cicero), V, b 674, a 675
MARCELLUS, Marcus Claudius, Cæsar or young Marcellus, XV, a 540
——, theatre of (Architecture), II, b 363, a 366, a 367
——, Ulpius, general (Scotland), XXI, b 494
——, Burdigallensis, physician (Celtic Literature), V, a 260, b 271
Marcet, Bordier, optician (Lighthouse), XIV, a 624, a b 625
Marcgrave or Marcgraf, Georg, ornithologist (Puffbird), XX, b 106
MARCH, month, XV, a b 540; (Calendar), IV, *b* 590, *a b* 591, b 598; calendar, British (Horticulture), XII, b 303; United States (Horticulture), b 306-7
—— festival (Mars), XV, a 577
——, military (War), XXIV, a b 383
—— or Morava, river (Moravia), XVI, b 836
——, Dunbar, earl of (Scotland), XXI, a *b* 513, a 515
——, Edward Mortimer, earl of (Shakespeare), XXI, b 776
——, Roger Mortimer, earl of. See Mortimer
——, Valencian Auzias, poet (Spain), XXII, a b 377
Marchand, J. Louis, organist (Bach), III, b 168-9
——, Prosper, Bibliographer, III, b 572; (Encyclopædia), VIII, b 177
Marchantia, genus (Botany) (Ill.), IV, a *b* 127, *b* 143; (Liverworts), XIV, b 724, *a b* 725; (Muscineæ) (Ill.), XVII, b 73, a b 74, a *b* 75, a 76; (Physiology), XIX, b 65, b 66, b 67
Marchantiaceæ, class (Muscineæ), XVII, a b 73, b 76
Marchantieæ, family (Muscineæ), XVII, b 74, a b 75, b 76; (Vegetable Kingdom), XXIV, *b* 140
MARCHE, province, XV, b 540
Märchen (Ballads), III, a b 245; (Grimm), XI, a 178, b 179; (Homer), XII, a b 123; (Goethe), X, b 651
MARCHENA, town, XV, b 540
Märchenalmanach (Hauff), XI, b 465
Marches, The, district (Ancona), II, a 11; dialect of (Italy), XIII, b 506-7
Marchfeld, battle. See Aspern
Marchi, Jesuit (Catacombs), V, b 181, a 182, *a* b 185
Marchioness. See Marquesses
"March to the Sea" (United States), XXIII, a b 828
MARCIAN, emperor, XV, b 540-1
Marcianus of Heraclea, geographer (China), V, a 545
——, Codex. See *Codex Marcianus*
Marcillac, Prince de. See LA ROCHEFOUCAULD
MARCION and the Marcionite Churches, XV, a 541-2; (Bible), III, b 557; (Canon), V, b 7, a 8; (Cerdonians), a 300; (Ephesians, Epistle to the), VIII, b 407-8; (Gnosticism), X, a 626, b 627; (Manichæism), XV, *a* 493, *a* 494; (Millennium), XVI, a 329; (Polycarp), XIX, b 429, a 430; (Valentinus), XXIV, a 44, a b 45
Marck, Comte de la (Mirabeau), XVI, a 519
——, Robert de la. See FLEURANGES
——, William de la, soldier (Holland), XII, a *b* 78
Marco Aurelio, opera (Steffani), XXII, b 556
——, *El Libro Aureo de* (Lyly), XV, b 105-6
——, *Relox de principes*, (Guevara), XI, b 220
Marco de Ravenna, engraver (Marcantonio), XV, a 539
—— di Tiziano, painter. See TITIAN
—— Kralevich, hero (Servia), XXI, b 722
Marco Polo. See POLO
Marcomanni, tribes (Aurelius), III, *b* 76; (Germany), X, a 425, *a* b 427; (Rome), XX, a 792, b 793, a 794
Marcou or Marculfus, St., missionary (Channel Islands), V, b 340; (Diplomatics), VII, a 221
Marcourt, town (Théroigne de Méricourt), XXIII, a 314
MARCUS, pope, XV, b 542
Marcus Antoninus (Gataker), X, b 97
MARCUS AURELIUS ANTONINUS, III, b 75-8; (Apotheosis), II, a 175; (Commodus), VI, b 185; (Faustina), IX, b 48, a 49; (Fronto), *a* 705; (Galen), X, b 22; (Persia), XVIII, b 615; (Roman Law), XX, b 720, a 722, *b* 725, a 728; (Rome), b 790, notes, *b* 791, a 794, b 795, note; (Stoics), XXII, a 602
Marcus Græcus, writer (Gunpowder), XI, b 282, b 284
Marcus Sextus (Guérin, P. N.), XI, a 219
Marcy, mount (Adirondacks), I, b 140; (Appalachian Mountains), II, b 175; (New York), XVII, a 462; (United States), XXIII, a 842
MARCY, William Learned, politician, XXIII, a 839; (United States), a 813; (Wright), XXIV, b 727
Mardana, Alvaro de, explorer (Pacific Ocean), XVIII, a 119
Mar de Pedro, estuary (Tagus), XXIII, b 26
Mardians, tribe (Elam), VII, a 689
MÁRDIN, town, XV, b 542-3
Mardonius, general (Darius I.), VI, a 727; (Greece), XI, *a* 89, a b 90; (Pausanias), XVIII, b 447; (Persia), a 583, a b 584
Mare Island (San Francisco), XXI, b 274
Maré or Nengone island (Loyalty Islands), XV, *b* 32; (Polynesia), XIX, b 434
Mareb river (Abyssinia), I, a 62
——, or Ma'rib, town (Arabia), II, a 221, a 223, b 229; (Yemen), XXIV, b 776, a 778; inscriptions, a b 777
Mareca, genus (Wigeon), XXIV. b 592
Marecchia, river (Italy), XIII, a b 446
Mare Clausum (Selden), XXI, a b 663
Maree, Loch (Ross Co.), XX, a 877
Marehan tribe (Somali), XXII, a b 269
Maremma marshes (Borax), IV, a b 45; (Geology), X, a 247
Marengo, battle of, 1800 (Alessandria), I, b 424; (Austria), III, a 115; (Desaix), VII, b 99; (France), IX, a b 540; (Napoleon I.), XVII, a b 211
Marenholtz-Bülow, Baroness von, educational writer (Frœbel), IX, a 697, a 698; (Kindergarten), XIV, b 82
Mareotis, Lake (Alexandria), I, a b 436; (Egypt), VII, b 614
Mare's Milk, XVI, a 316, b 318
Maret, Hugues Bernard, duc de Bassano (France), IX, a 540
—— of Sura, bishop (Vatican Council), XXIV, b 121
Mar Eugenius of Klysma, monk (Syriac Literature), XXII, b 878
Marey, physician (Vascular System), XXIV, a 106, b 108, a 112, a 113
Marezzo marble (Building), IV, a 455
Marforio, statue (Pasquinade), XVIII, b 346
Margaret. See Marguerite
MARGARET of Anjou, queen of England, XV, a 543-4; II, b 52-3; (Cambridge), IV, b 647; (Edward IV.), VII, *a* b 594; (Henry VI., England), XI, b 589, a 590; (Warwick), XXIV, a 402, a 403; (York), b 789, a 790
MARGARET of Austria, duchess of Savoy, regent, XV, a b 544; (Holland), XII, *b* 76
MARGARET of Austria, duchess of Parma and regent, XV, b 544; (Farnese), IX, b 33; (Holland), XII, a b 77, a 78
—— of Brabant, duchess of Burgundy (Mechlin), XV, a 785
—— of Denmark and Norway, queen (Denmark), VII, b 74-5; (Sweden), XXII, b 784-5
—— of Flanders, countess (Charles of Anjou), V, b 366
—— of Holland, countess, daughter of Count William III., XII, b 75
—— of Hungary, Saint (Stigmatization), XXII, b 577

MARGARET, "Maid of Norway," queen, XV, b 544; (Scotland), XXI, *a* 508
MARGARET of Scotland, saint, queen, XV, b 544; (Scotland), XXI, a b 503, b 509
—— Logie, queen (Scotland), XXI, a 512
—— Tudor, queen of Scotland (Douglas, G.), VII, a b 326; (Dunbar, W.), b 459; (James IV. and V.), XIII, *a* 567; (Scotland), XXI, b 518, a *b* 519, *a* 520, a 569
—— of Salisbury. See SALISBURY
—— of Scotland, dauphiness of Louis XI. of France (Chartier), V, b 375
——, countess of Tyrol, Pocket-Mouth, XXIII, a 759
—— of Valois. See MARGUERITE
Margaret, novel (American Literature), I, a 638
Margarine-mouries (Butter), IV, b 526
MARGARITA, island, XV, b 544–5; (Pearl), XVIII, b 458
MARGARITA, Saint, XV, a 545
Margarite (Mineralogy), XVI, a 431
Margaritone di Magnano, painter (Schools of Painting), XXI, b 454, b 462, note
Margaritum, Pearl, XVIII, b 457
Margarodite (Mineralogy), XVI, a 431
Margarops, genus (Birds), III, a 650
Margary, Augustus Raymond, explorer (Burmah), IV, a 499
Margat, town (Saint John of Jerusalem), XXI, *a* 183
MARGATE, town, XV, a b 515
Margeret, Jacques, adventurer (Russia), XXI, b 102 notes
Margeride, hills (Loire, Haute-), XIV, *a* 817; (Lozère), XV, a 33
Margery's seasoning process (Dry-Rot), VII, b 426
Marggraf, Andreas Sigismund, chemist (Alum), I, a 566; (Sugar), XXII, b 655, a 658
MARGHILAN or Marghinan, town, XV, b 545
Margin, life (Insurance), XIII, b 179–80, a b 183
Margites, poem (Greece), XI, b 123; (Homer), XII, b 112
Margit-Legenda (Hungary), XII, b 390, note
Margrave, title (Holland), XII, b 73
Margraves' war (Germany), X, a 445
Marguerite. See Margaret
MARGUERITE de Valois, d'Alençon or d'Angoulême, queen of Navarre, XV, b 545–6; (Calvin), IV, b 633; (France), IX, b 574; (Marot), XV, *a* 570; (Nérac), XVII, a 355; (Reformation), XX, a 546
MARGUERITE de Valois, duchess of Savoy, XV, a 546; (Ronsard), XX, *a* 864
MARGUERITE de Valois, queen of Navarre and of France, XV, a 546; (Henry III. and IV., France), XI, b 597, a b 598
Margus, river of Macedonia. See Morava
——, river (Merv), XVI, a 46 note, b 48
——, treaty of, 434 (Huns), XII, a 397
Marhattas, race. See MAHRATTAS
Marheineke, Philipp Conrad, theologian (Theology), XXIII, a 295, a 296
Márí, valleys (Himalaya), XI, a 736
Mārī of Bēth Hardashēr, bishop (Syriac Literature), XXII, a 870, a 871
Mārī ibn Sulaimān, historian (Syriac Literature), XXII, b 865, b 896, note
Maria. See Marie, Mary
Maria of Hungary, queen of Louis II., XII, a 383; (Holland), a 77
——, the Jewess (Alchemy), I, a 409
—— I. of Portugal, Francisca, XIX, a b 565, a 566, a 567; (John VI.), XIII, a 726
—— II. of Portugal, da Gloria (Azores), III, a 148; (Miguel), XVI, a b 302; (Portugal), XIX, a 567, a b 568
—— of Parma, Portuguese princess (Farnese), IX, a 34
—— of Spain, Portuguese queen of Alfonso XI. (Spain), XXII, a b 334
——, centre-board sloop (Yachting), XXIV, *a* 759, a 760
Maria Anna of Austria, regent (Spain), XXII, a b 347
—— Anna of Newburg, queen (Spain), XXII, b 348, a b 349
—— Christina of Naples, regent (Narvaez), XVII, *a* 241; (Spain), XXII, *b* 359
—— Comnenus, empress (Andronicus I.), II, a 22
—— de Molina of Castile, queen (Spain), XXII, b 333, *a* 334
—— de Padilla, king's mistress (Spain), XXII, *b* 334, a 335
Mariage de Figaro, play (Drama), VII, a 369
—— *Forcé*, play (Moliere), XVI, a 651, b 652
Mariah, city (Yemen), XXIV, a 777
Maria Louisa of Parma, queen of Spain (Charles IV.), V, b 363; (Spain), XXII, *b* 356, b 357
—— Louisa of Austria, empress (France), IX, b 542; (Metternich), XVI, a 208; (Napoleon I.), XVII, *a* 222, a 223, a b 228, a 229; (Parma), XVIII, b 320
Mariamne, queen (Herod), XI, *b* 674
Mariamne, tragedy (Voltaire), XXIV, *a* 307
Mariana Islands. See LADRONE
MARIANA, Juan de, historian, XV, b 546; (Inquisition), XIII, a 100; (Spain), XXII, a b 373; (Talavera), XXIII, b 30
Marianna, play (Dolce), VII, a 298
Marianne, novel (Marivaux), XV, *a* 558
Mariano, Frà, monk (Savonarola), XXI, a 350, a 352
Máriás, tribe (Bastár), III, *a* 368; (India), XII, b 816
Maria Stuart, play (Germany), X, a 482; (Schiller), XXI, b 414
MARIA THERESA, empress, XV, a b 546; (Aix-la-Chapelle), I, a 383; (Austria), III, b 110, a 111–3; (Belgium), b 454; (Bohemia), b 748; (Daun), VI, a b 734; (France), IX, a b 516, a 518; (Francis I.), a 609; (Frederick II.), b 647, b 648; (George II.), X, *a* b 380; (Germany), a b 451; (Hungary), XII, a 385; (Joseph II.), XIII, a b 760; (Marie Antoinette), XV, *a* b 547; (Military Frontier), XVI, b 307; (Spain), XXII, *b* 353, *a* 354
MARIAZELL, village, XV, b 546–7
Ma'rib. See Mareb
Maribios, mountains (Nicaragua), XVII, b 490–1
Marico, district and river (Transvaal), XXIII, b 549, a b 550, a b 551
Maricopas, tribes (Indians), XII, b 873
Marie Angelique de St. Magdeleine. See Arnauld, Angelique
MARIE ANTOINETTE, Josephe Jeanne, queen, France, XV, a 547–8; (Burke), IV, b 487, a 488, a 490; (Campan), a b 664; (France), IX, a 523, a b 524, a b 527, a 530; (Mirabeau), XVI, b 518, a 519, a 520; (Mozart), XVII, b 14; (Music), a 102; (Necker), b 321; (Orleans), b 877–8; (Rohan), XX, *b* 638, a 639; (Sacchini), XXI, *b* 139; (Versailles), XXIV, a b 192
MARIE DE FRANCE, poetess, XV, a b 548; (France), IX, a b 565, a 567; (Romance), XX, a 676
Marie Galante, island (Guadeloupe), XI, b 203, a 204
—— Louise of Nevers, queen (Poland), XIX, a 315
MARIENBAD, town (Plan), XV, b 548–9
MARIENBURG, town, XV, a 549
Marienthal, early printing at (Typography), XXIII, a 729
Marie Therèse, queen, France (Camisards), IV, a 657
MARIETTA, city, XV, a b 549; (Ohio), XVII, a 759; (Putnam, R.), XX, a 892
MARIETTE, Auguste Ferdinand Francois, archæologist, XV, b 549–50; (Architecture), II, b 338, a 339, b 343, b 400; (Canaanites), IV, a 675; (Chronology), V, b 617; (Egypt), VII, a 620 note, *b* 621, a *b* 622, *a* b 633, b 637, b 665, b 667, b 670, a 671, a b 673, a 675, a 678, a 679
Marignac, chemist (Spectroscopy), XXII, *a* 391
—— acid (Sulphur), XXII, b 670
Marignano, battle, 1515 (Milan), XVI, b 305
——, Gian Giacomo, marquis, soldier (Pius IV.), XIX, a 164
MARIGNOLLI, Giovanni de, traveller, XV, a 550–1; (China), V, *b* 546; (Hami), XI, a 366
MARIGOLD, plant, XV, a b 551; (Botany) (Ill.), IV, a 108, a 111; (Horticulture), XII, b 302; (Sunflower), XXII, b 693
Marigot, town (St. Martin), XXI, a 196
Mariinsk, town (Tomsk), XXIII, b 467; canal (Volga), XXIV, a 299, a 301
Marikele, range (Transvaal), XXIII, a 550
Marilia de Dirceu (Gonzaga, T. A.), X, *b* 687
Marin, settlement (Lake Dwellings), XIV, a 225
Marina, saint, martyr (Margarita, St.), XV, a 545; (Pelagia), XVIII, b 481
Marinduque, island (Philippine Islands), XVIII, a 766
Marine Barometer, III, b 330
—— boilers (Steam-Engine) (Ill.), XXII, a 521–2
—— chronometers (Watch), XXIV, *a* 416, b 417. See Chronometer
—— Department (Board of Trade), XXIII, b 529
—— dynamometer (Harbors and Docks) (Ill.), XI, b 409–10
—— engine regulator (Steam-Engine), XXII, a b 533
—— engines (Steam-Engine) (Ill.), XXII, a 543–7; government of (Steam-Engine) (Ill.), b 533
—— fauna and flora (Australia), III, b 97; (Distribution), VII, b 240–4; (Foraminifera), IX, b 325–6, note; (Sea), XXI, a 606; (Spitzbergen), XXII, a 425; study of (Zoology), XXIV, a b 853
—— fishes (Ichthyology), XII, b 715–23
—— fossils, elevation of (Geology), X, b 326
—— Galvanometer, X, a 47; (Telegraph) (Ill.), XXIII, a b 127
—— glue (Gelatin), X, a 120
—— Hospital Service, United States (Hospital), XII, a 320. See Hospitals
—— Hydrometer, XII, b 573
MARINE INSURANCE, XIII, b 190–4. See INSURANCE
—— laws. See CONSULATE OF THE SEA and SEA LAWS
—— metal, patent (Building), IV, a 451
—— terraces (Norway), XVII, b 592–3
Mariner's compass (Magnetism), XV, a b 220, b 221, b 252–4. See COMPASS
MARINES, corps, XV, b 551–3; (Court-Martial), VI, a 461; French (Navy), XVII, b 308; royal (Dockyards), VII, b 270, b 271, b 273, a 274

Marine Soap, XXII, a 215
Marinetown, watering-place (Sheerness), XXI, a 822
Maringouin, bird (Knot), XIV, a 130 note
Marini, Gaetano Luigi, archæologist (Inscriptions), XIII, b 130
MARINI, Giambattista, poet, XV, a 553; (Italy), XIII, a 521; (Poussin), XIX, b 669-70; (Vega Carpio), XXIV, a b 133
"Marinism" (Italy), XIII, a 521
Marinoni perfecting press (Typography) (Ill.), XXIII, a b 753, a 754
MARINUS or Martinus I., pope, XV, a 553
—— II., pope, XV, a 553
——, Roman physician (Anatomy), I, a 704
——, Saint, mason (San Marino), XXI, b 279
—— of Tyre, geographer (Map), XV, *a* 524; (Time), XXIII, a 421 note; (Ptolemy), XX, *a b* 97, *a b* 98, a *b* 99, *a* b 100, a 101
Mario, Monte (Latium), XIV, a 344
Mariolatry (Mary), XV, a b 598. See Immaculate Conception
MARION, Francis, general, XV, a b 553
MARIONETTES, puppets, XV, b 553
Marion's camera (Photography) (Ill.), XVIII, b 854
MARIOTTE, Edme, physicist, XV, a b 554; (Chemistry), V, b 405; (Hydromechanics), XII, a b 452; (Pneumatics), XIX, b 253-4; his law of gases (Barometer), III, a b 332
Mariposa grove (Sequoia), XXI, a 706
Márís, race (Bastár), III, *a* 368; (India), XII, b 816
Marischal College (Aberdeen), I, b 42, *a* 43; (Marshal), XV, a 581; (Universities), XXIII, a 899
——, earl (Marshal), XV, a 581
Marisco, Sir William de, traitor (Knighthood), XIV, b 126
Maritime Alps, I, b 527, b 546, b 547-8
—— law. See SEA LAWS
MARITIME PROVINCE, XV, b 554-6; (Siberia), XXII, a 6, a 8, a 9, *b* 14, a 15, a 16
Maritza, river (Adrianople), I, b 151
MARIUPOL, town, XV, a b 556
MARIUS, Caius, general, XV, b 556-7; (Army), II, a 493; (Cæsar), IV, a b 563, a 564; (Cimbri), V, b 681; (Jugurtha), XIII, *a* 777; (Metellus), XVI, a b 111; (Nobility), XVII, b 539, b 540; (Rome), XX, *a b* 777, *b* 778, a 779, note, *a* b 782; (Sulla), XXII, *b* 665, *a* b 666
——, Caius, the Younger, consul (Sulla), XXII, *a* b 666
——, Simon, astronomer. See Mayer
—— of Aventicum, bishop (Lausanne), XIV, b 351
——, Victorinus, rhetorician (Neoplatonism), XVII, b 347, b 348
Marius amid the ruins of Carthage (Vanderlyn), XXIV, *a* 876
Marivaudage, style (Marivaux), XV, b 557, a b 558
MARIVAUX, Pierre Carlet de Chamblain de, novelist and dramatist, XV, b 557-8; (Drama), VII, b 338, note; (France), IX, b 586
Marjoram, herb (Horticulture), XII, b 302; (Thyme), XXIII, a 355
Mark, coin (Numismatics), XVII, a 673
——, land division (Commons), VI, b 186; (England), VIII, a 247; (Manor), XV, b 503 note; origin of German (Prussia), XX, b 6, b 7-8
MARK, evangelist, XV, b 558-9; (Gospels), X, a b 725; his body at Venice, XXIV, b 162, b 163
Mark, Gospel of (Bible), III, b 555, a 556; critical history of (Gospels), X, b 747-8; date of (Gospels), b 722-3; originality of (Gospels), a 702-7; peculiarities of (Gospels), b 712-4; and *Luke*, parts peculiar to (Gospels), b 708-9; and *Matthew*, parts peculiar to (Gospels), a 707-8; Venetian manuscript of (Paper), XVIII, a 222
——, *St.*, painting (Titian), XXIII, a 444
Mark of Cornwall, king (Romance), XX, a 659, *b* 663-4
Markanda, river (Punjab), XX, b 112-3
Márkandí, town (Chándá), V, a 339
Mark Antony, triumvir. See ANTONIUS
——, bar Kiki, poet (Syriac Literature), XXII, b 892
Marken, island (Holland), XII, b 62
Market-gardening (Agriculture), I, a 341; (Surrey), XXII, a 729. See Horticulture
—— Deeping, village (Peppermint), XVIII, a 528 note, b 529
—— -place Cross, VI, a 541
Market-place of Amsterdam, Louvre (Metsu), XVI, b 207
Markets (Aberdeen), I, a 43; (Holland), XII, b 70; (London), XIV, *b* 828, a b 837-8; (Paris), XVIII, a b 290; Paris cattle (Abattoir), I, b 13; Stratford (Shakespeare), XXI, a 778
Markham, Albert H., explorer (Geography), X, b 175; (Polar Regions), XIX, *b* 336, a 337
——, Clements Robert, geographer (Abyssinia), I, b 62, a b 66; (Cinchona), V, b 682; (Clavijo), b 714; (India), XII, a 789; (Indians), *a* 870; (Persia), XVIII, a b 649, a 651-2, a b 656; (Peru), a b 693; (Timur), XXIII, b 426, a 427. See List of Contributors
——, William, deputy-governor (Penn), XVIII, a 506, b 507
Markham's "Arabian" (Horse), XII, a 186, a 204
Marking, edge-rolling (Mint), XVI, a 512
—— Ink, XIII, b 87; (Silver), XXII, b 78
—— Nut, XVII, b 683, a 684
—— system (Examinations), VIII, a b 684; (Prison Discipline), XIX, *a* 774, b 775; (Universities), XXIII, a b 959
MARKIRCH, town, XV, b 559
Markkahrspitz mountain (Alps), I, a b 554
Marl (Agriculture), I, b 312; (Brick), IV, b 249, a *b* 250; (Coprolites), VI, b 313; (Horticulture), XII, a 222; (Geology), X, a b 257; (Mineralogy), XVI, a 414; (New Jersey), XVII, b 406; (Russia), XXI, b 81; red (Geology), X, *b* 312, *a b* 313; shell (Geology), b 213; South American formations, I, *a* 591
MARLBOROUGH, town, XV, b 559-60; (Wilts), XXIV, b 625, *a* 626, a 627
MARLBOROUGH, Massachusetts, town, XV, a 560
——, dukes of, arms (Heraldry) (Ill.), XI, 636
——, Henrietta, duchess of (Congreve), VI, a 241
MARLBOROUGH, John Churchill, duke of, general, XV, a 560-3; (Anne), II, *a b* 56; (Artillery), b 574; (Austria), III, a *b* 110; (Battle), b 384; (Bavaria), a 392; (Bolingbroke), IV, b 6-7; (Bryant), a 366; (Canary Islands), IV, b 706; (England), VIII, b 316-7; (Eugene, Prince), b 579, *a* b 580; (France), IX, b 510, a *b* 512, *a b* 513; (Godolphin), X, *b* 637-8; (Holland), XII, *b* 84; (Oxford), XVIII, b 103; (Villars), XXIV, *a* 246
——, Sarah Jennings, duchess of, XV, b 560, a 561, a *b* 562; (Anne), II, *a b* 56; (Chatham), V, a 382
—— College, XV, a 560; (Cotton), VI, a 452
—— Gems, X, b 125
—— House, palace (London), XIV, a 847, a 849
——, ordinance of (England), VIII, a 284
Marliano, Giovanni, sculptor (Nola), XVII, b 545
Marlin, bird (Godwit), X, a 642
Marlingspike hitch (Seamanship) (Ill.), XXI, a b 618
MARLOW, Great, borough, XV, a 563
MARLOWE, Christopher, poet and dramatist, XV, a 563-5; (Drama), VII, a 371; (English Literature), VIII, a 373, b 374; (Faustus), IX, b 49; (Greene), XI, b 146, *a* 147; (Nash, Thos.), XVII, *a* b 242; (Shakespeare), XXI, a b 794, *a b* 798, a 799; (Timur), XXIII, a 427
Marl-slate (Geology), X, *b* 311
Marly, chateau (Coustou), VI, *a* 469; (Coysevox), *b* 476, a 477
MARLY-LE-ROI, village, XV, a b 565
Marmalade (Jams), XIII, b 573; (Orange), XVII, b 835
Marmarice bay (Caria), V, b 90
Marmarosis, metamorphosis (Marble), XV, b 535
Mar Menor, lagoon (Murcia), XVII, a 58; (Spain), XXII, a 307, b 309
Marmion, poem (Scott), XXI, b 573-4
Marmolite (Mineralogy), XVI, b 432
MARMONT, August Frédéric Louis Viesse de, marshal, XV, b 565-6; (France), IX, *b* 545; (Napoleon I.), XVII, b 201, a 202, b 203, *b* 204, a 205, a 221, a b 228, b 232; (War), XXIV, a b 366; (Wellington), a 524
MARMONTEL, Jean François, littérateur, XV, a b 566; (Drama), VII, a 369; (Mill, John Stuart), XVI, a 322; (Newspapers), XVII, *b* 435
Marmora, sea of (Black Sea), III, a 692
——, Alphonso di la, general (Italy), XIII, a b 499
Marmosets, genus (America), I, b 598; (Anthropology), II, *a* 96; (Ape) (Ill.), a b 136, a 138; brain of (Physiology), XIX, a 39
MARMOT, rodent (Ill.), XV, b 566-8; (Alps), I, a 557; (Mammalia), XV, b 420, a 422
Marna, deity (Philistines), XVIII, b 770
Marnavich, Ivan Tomeo, ecclesiastic (Theophilus), XXIII, a 297
MARNE, department, XV, a b 568; (Wine), XXIV, *a* 638
——, river (France), IX, a 446, b 457; (Marne), XV, *b* 568, *a* b 569; (Paris), XVIII, b 280, a b 291; (Seine), XXI, *a* 655; (Seine-et-Marne), *b* 655, *a* 656
MARNE Haute, department XV, b 568-9
Marnix, Filips van, reformer (Holland), XII, *a* 96
Marnoch parish case (Chalmers), V, a b 327; (Free Church of Scotland), IX, a 654, note
Marobia or Marrobbio, pseudotide (Sicily), XXII, b 34
Maroboduus, chief (Germany), X, a 427; (Tiberius), XXIII, a b 357
Marocco. See MOROCCO
Maroill, Arnault de, troubadour (Provençal Literature), XIX, *b* 899
Maron, John of, patriarch (Maronites), XV, a 569, note
Maronea, town (Numismatics), XVII, b 656
Maroni, river (Guiana), XI, b 223, a 224
MARONITES, sect, XV, a b 569; (Druses), VII, b 417, a 420; (Greek Church), XI, a 139; (Justinian II.), XIII, b 807; (Lebanon), XIV, *a* 395; (Roman Catholic Church), XX, b 646
Maroon mountain (Colorado), VI, b 145
MAROONS, fugitive-slaves, XV, b 569; (Jamaica), XIII, b 560

Maros, district, river and town (Celebes), V, b 249, a b 250
Marös, river (Hungary), XII, *b* 376, b 377, a b 389; (Makó), XV, a 314; (Transylvania), XXIII, *a* 555
MAROS-VÁSÁRHELY, town, XV, b 569
MAROT, Clement, poet, XV, b 569-71; (France), IX, a b 572; (Huguenots), XII, b 351; (Hymns), b 623-4; (Ronsard), XX, *a* 864
——, Jean, poet, XV, b 569, a 570
Marovugli, mount (Ithaca), XIII, a 527
Marowijne river. See Maroni
Marozia, pornocrat (John X., XI., Popes), XIII, *b* 721; (Rome), XX, a *b* 805
Marprelate controversy (Drama), VII, b 370; (England, Church of), VIII, a 338; (Pamphlets), XVIII, b 208, b 210; (Whitgift), XXIV, b 585
Marque, Letters of (Admiralty), I, b 146; (International Law), XIII, a 200; (Privateer), XIX, a 784
Marquee, shelter (Tent), XXIII, a 200
Marquenterre, tract (Somme), XXII, b 274
Marquesas Dictionaries, VII, b 167
MARQUESAS ISLANDS, XV, a b 571; (Taboo), XXIII, b 20, a 21; origin of class (Peerage), XVIII, a 475
Marquetry (Buhl-Work), IV, b 399; (Furniture), IX, *a* 746; (Inlaying), XIII, b 88
MARQUETTE, city, XV, b 571-2
MARQUETTE, Jacques, missionary, XV, a 572
Marquez, Arnaldo, poet (Peru), XVIII, a 689
MARQUIS, title, XV, a 572; rank of (Parliament), XVIII, b 312
——, shrub (Sardinia), XXI, b 323
—— de Traversé bay (Nova Zembla), XVII, b 619
Marquois scale and triangle (Surveying), XXII, a 758
Marra, mountains (Darfur), VI, b 724-5; (Soudan) XXII, b 290, a 291
Marrákush, city (Morocco), XVI, a 856, a 862
Marri, god (Nimrod), XVII, b 524
MARRIAGE, XV, a 572-6
    canon law, b 572
    concubinage, a 576
    conflict of laws, a b 575
    English law, b 572-4
        disabilities, a 573
        license, b 573-4
        royal marriages, a 574
        solemnization, b 573-4
    France, a 575
    international law, a b 575
    nature of, a b 572
    religious differences, a 576
    Roman law, b 572, b 575
    Scotland, a b 574
    United States, b 574-5

—— (Abipones), I, a 52; (Abyssinia), b 63; (Affinity, in Law), a b 203; (Albania), b 396; (Andaman Islands), II, b 12; (Arabia), a 216; (Archbishop), a b 323, a 324; (Baluchistan), III, b 261; (Bigamy), a 578; (Bishop), a 684; (Bongo), IV, b 29; (Bornu), b 54; (Brehon Law), a 226; (Campbell, Lord), b 670; (Cardigan), V, *b* 84; (Caste), a b 163; (Celibacy), a 254; (China), a b 582; (Circassia), b 688; (Communism), VI, b 189-90, b 192, a b 193; (Concubinage), a b 217; (Congo), a 237; (Consul), b 281; (Contract), a 288; (Copts), b 314; (Corea), b 349; (Damages), a b 694; (Divorce), VII, b 260-5; (Druses), a 419; (Egypt), b 624, b 628; (England), VIII, a b 223; (Ethnography), b 543-4; (Eve), a 643; (Evidence), b 651; (Family), IX, b 18, b 19; (Feudalism), b 107; (Flamen), b 249; (Fourier), b 432; (Gallas), X, a 35; (Gipsies), a 550; (Greece), XI, b 75, *b* 76; (Heemskerk), a 546; (Hera), *a* 606; (Hainan), b 335
—— (Hottentots), XII, b 324; (Husband and Wife), b 415-8; (Hymen), b 605; (Infant), XIII, a 4; (Ireland), a 244, a 246, b 254, a 258, b 262-3, a 275; (Israel), b 418; (Italy), a 459; (Jews), b 693, b 695; (Kabbalah), b 821-2; (Knighthood), XIV, a 116; (Loango), a 749; (Mennonites), XVI, a 16; (Merv), b 48; (Miautse), b 232; (Mordvinians), a 840; (Nonconformity), XVII, b 546; (Nymphs), b 707-8; (Occam), b 739; (Parsis), XVIII, a *b* 331, b 332; (Peerage), b 474; (Persia), a 580, a 591, b 595 note; (Polynesia), XIX, *a* 438; (Presbyterianism), a 713; (Registration), XX, b 356; (Russia), XXI, *b* 86, a 89, a 90; (Ruth), a 120; (Settlement), *b* 726, note, a 727, b 728-9; (Slavery), XXII, b 907; (Socialism), b 230-1; (Switzerland), a b 817; (Tibet), XXIII, b 365; (Totemism), b 499, a 502-3; (Trent, Council of), b 585, a 586; (Will), XXIV, b 604, a b 605; (Witness), *b* 657, note, a 658; (Women), a b 672, *a b* 674, a b 675, note
Marriage à la Mode (Hogarth), XII, *a* b 51
Marriage of the Adriatic Sea (Venice), XXIV, a 154
——, Augustine's view of (Pelagius), XVIII, b 483-4; Aztec (Mexico), XVI, a 222
——, breach of promise of. See Breach of Promise
Marriage of Cana, painting (Veronese), XXIV, b 188
——, consanguineous (Deaf and Dumb), VII, a b 6; (Insanity), XIII, b 102-3; (Pathology), XVIII, b 415; (Phthisis), a 870
—— of Cora (Mysteries), XVII, *a* 135
——, Hindu (Brahmanism), IV, b 184, *a* b 185, b 187, a 190; (Caste), V, a b 166-7; (Incense), XII, a 759; (India), b 819, a 823; (Infanticide), XIII, a b 5; (Khasi and Jaintia Hills), XIV, b 60; (Nepal), XVII, b 352
——, Indian, North American, I, b 606
——, infectious (Surgery), XXII, a 722
—— laws, Roman, XX, b 722-3, a 725, b 729, a 732; contubernium (Slavery), XXII, b 140, a 141, a 143; jus civile (Roman Law), XX, *b* 705; per aes et libram (Roman Law), b 694; regal period (Roman Law), a b 689, *a* 690, a 691
——, premium on (Unter-Walden), XXIII, a 916
—— prize (Dunmow), VII, a 470
——, primitive (Ethnography), VIII, *b* 543, *a b* 544; (Mythology), XVII, b 151, a 152
—— rate (London), XIV, a 837
——, restraint in (Political Economy), XIX, a 386
——, temporary (Shi'ites), XXII, b 699
Marriage of the SS. Catherine, by Borgognone (Schools of Painting), XXI, a 456
Marriageable Age, I, b 249
Marriages, mixed (Bunsen), IV, b 467-8 (Rome), XX, a 757
——, prohibited (Bastard), III, b 368, a 369
——, tax on (Finance), IX, b 159
Married, Advice to (Plutarch), XIX, b 245
Married priests (Roman Catholic Church), XX, *b* 646; (Trent, Council of), XXIII, b 585, a 586
Marroons (Pyrotechny), XX, a 142
Marrot, bird (Razor Bill), XX, a 315
Marrow, animal (Anatomy), I, a b 750; (Pathology), XVIII, b 376, a b 377; in anæmia (Pathology), a 384; in bone-repair (Pathology), b 372, a 373; in leukæmia (Pathology), b 383; morbid increase of (Pathology), a 382; tumors (Pathology), a b 378
——, vegetable (Gourd), XI, b 5-6; (Horticulture), XII, b 294-5
Marrubium, plants (Horehound), XII, *a* 170
Marrucini, tribe (Italy), XIII, a 454, b 456
Marryat, Florence, authoress, XV, b 576
MARRYAT, Frederick, novelist, XV, a b 576; (Drowning), VII, b 409; (Flag), IX, a 244
Marry ropes, defined (Seamanship), XXI, b 633
MARS or Ares, deity, XV, b 576-7; (Aphrodite), II, b 151-2; (Ares) (Ill.), b 426-7
——, planet (Astronomy) (Plate XXVIII), II, b 703-5; (Herschel), XI, a 685; and the asteroids (Parallax), XVIII, a b 254-5; chart of (Astronomy) (Ill.), II, b 704; elements of (Astronomy), 684; lunar system of (Tides), XXIII, a b 404, b 406; occultations by (Parallax), XVIII, a 251, b 253; orbit of (Kepler), XIV, b 48; parallax of (Astronomy), II, a 696; polar snows, a 704; rotation of, b 704; variations of perihelion (Parallax), XVIII, a 251
MARSALA, town, XV, b 577-8; (Wine), XXIV, b 642-3
Marsa Scirocco, port (Malta), XV, b 342
Marsa Sousah, town (Apollonia), II, b 163
Marschland, domain (Hamburg), XI, *b* 360
Marsden, Samuel, missionary (New Zealand), XVII, b 484
MARSDEN, William, orientalist, XV, a 578
Marsden's pulverizer (Mining) (Ill.), XVI, b 484-a 485
Marseillaise, song (David), VI, a 742; (France), IX, b 531; (Grétry), XI, a 168; (Paris), XVIII, b 299; (Rouget de Lisle), XXI, *a* b 18
MARSEILLES, city (Plan), XV, a 578-81
    buildings, b 578-9
    climate, a 580
    commerce and manufactures, a 580
    harbor, a b 578
    history, a 580-1

—— (Aqueduct), II, a 194; (Favorinus), IX, b 50; (Napoleon I.), XVII, *b* 201; (Observatory), a 732; (Plague), XIX, b 176; (Soap), XXII, a 216; breakwaters (Harbors and Docks), XI, a b 411; lazaretto (Quarantine), XX, a 164. See Massilia
Mars Gate (Rheims), XX, b 521
Marsh, B. V., on Auroral light, III, a 79, a b 84, b 86
MARSH, George Perkins, philologist, XV, a 581; (Accent), I, b 78, a 79; (Geology), X, a 258 note; (Italy), XIII, a 471
——, Herbert, bishop (Bible Societies), III, b 561
——, Narcissus, archbishop (Libraries), XIV, b 522
——, Othniel Charles, naturalist (Birds), III, a 631, a 632, a *b* 633; (Horse), XII, a 176, a 177, b 178, b 184; (Ichthyosaurus), a 734; (Lemur), XIV, b 445; (Mammalia), XV, b 377, a b 379, *a* 388, b 438; (Ornithology), XVIII, a b 40, a b 47; (Penguin), a 502 note; (Reptiles), XX, *b* 455-6, note, a 478; (Sauropsida), XXI, b 338; (Siredon), XXII, a 104, a 105; (Surveys), b 937, a b 938; (Zoology), XXIV, *a b* 925, *a b* 926
MARSHAL, title, XV, a 581; (Admiralty), I, b 147-8

Marshal, United States, official (Census), V, a *b* 295; (Sheriff), XXI, a 837
——, William, earl of Pembroke (Ireland), XIII. b 265
Marshall Islands, XVI, a 267-8; (Caroline Islands), V, b 111; (Pacific Ocean), XVIII, b 132
——, Mount (United States), XXIII, b 844
——, A. M., biologist (Sponges), XXII, b 437, b 443, b 444
——, Benjamin, animal painter (Cooper, A.), VI, a 299
MARSHALL, John, chief justice, XV, b 581; (American Literature), I, a 633; (Taney), XXIII, *b* 921; (Washington), XXIV, b 411, note
——, John, manufacturer (Leeds), XIV, a 408, b 409
MARSHALLTOWN, XV, b 581
Marshall's valve-gear (Steam-Engine) (Ill.), XXII, a 527
Marshalsea prison (London), XIV, a 844
Marshes (Bákarganj), III, b 213-4; (Euphrates), VIII, b 588; (Herault), XI, a b 639; (Hungary), XII, b 376, a 377; (Landes), XIV, b 272-3; (Lincoln), a 660; (London), *a* 827; (Novgorod), XVII, b 621; (Pskoff), XX, a b 40; swamp fens of Holland, XII, a b 64. See Bog Fens
Marsh-gas (Carbon), V, b 77; (Chemistry), a 407, a 482, b 484; (Chloroform), b 590; (Coal), VI, b 67, b 68; (Fuel), IX, a 709; (Methyl), XVI, b 202-3; (Natural Gas), XVIII, b 895, b 896; (Paraffin), a 242; (Phosphorescence), a 826
Mars' Hill. See Areopagus
Marsh-land (Agriculture), I, b 359, a b 360
—— district (Schleswig-Holstein), XXI, a b 432
Marshman or Marsham, John Clark, missionary, *b.* 1794, *d.* 1877 (Havelock), XI, a 470; (Tibet), XXIII, a 368 note
MARSHMAN, Joshua, also known as Masham and as James, orientalist, XV, b 581; (China), V, b 568, a 570, *b* 572, b 583; (Havelock), XI, b 469
Marsh Mallow. See MALLOW
—— otter (Mink), XVI, a 497
—— Titmouse, XXIII, b 446
Marsi, tribe (Italy), XIII, a 454, b 456; (Rome), XX, a *b* 761, b 763, a b 778
MARSIGLI or Marsilius, Luigi Fernando, soldier and naturalist, XV, a 582; (Birds), III, b 670; (Ornithology), XVIII, a 12
Marsileæ, order (Ferns), IX, a 93
Marsileaceæ, order (Vegetable Kingdom), XXIV, a 141
Marsilius of Inghen, theologian (Scholasticism), XXI, b 448
—— of Padua, scholar (Occam), XVII, a 739
Marsillat, Guglielmo di, monk (Glass), X, b 598
Marsin, Ferdinand, marshal (France), IX, b 512, a 513
Marsipella, genus (Protozoa) (Ill.), XIX, b 868, a 869
Marsipobranchii, group (Amphibia), I, a 658, *b* 674, a 676
Marsiyahs, poems (Hindustani Literature), XI, *b* 757
Mars-la-Tour or Vionville, battle of, 1870 (Battle), III, b 384
MARSTON, John, dramatist, XV, a b 582; (Drama), VII, b 373, a b 374, note; (Jonson), XIII, a *b* 752
—— mine (Salt), XXI, b 242, b 243
—— Moor, battle of, 1643 (Cromwell), VI, a 530; (England), VIII, b 311; (Fairfax, Lord), a 746, note; (Newcastle), XVII, a 390; (York), XXIV, b 786
Marstrand, island (Sweden), XXII, b 775
——, Wilhelm Nikolas, painter (Denmark), VII, a 82
Marsupial bone (Skeleton), XXII, b 125
—— - pouch of Pipe-fishes (Ill.), XIX, a 121
Marsupials, order (Australia), III, a 97; (Distribution), VII, b 236, a 237, b 239, a b 240, b 247, a 248; (Guatemala), XI, a 213; (Kangaroo), XIII, a 848, b 850; (New Guinea), XVII, a 397; (New South Wales), a 421; (Opossum), a b 819; (Phalanger) (Ill.), XVIII, a 741; (Reproduction), XX, b 421, b 422; (South Australia), XXII, a 299; anatomy of (Mammalia), XV, a 351, a 352, b 354, b 356, *b* 357, b 360, *a* 363; brain of (Physiology), XIX, a b 38; circulation of (Mammalia), XV, a 367; classification of (Mammalia), a 374, b 380-6; hearing of (Mammalia), b 370; lymphatic system of (Mammalia), b 367; nervous system (Mammalia), a b 369; reproductive organs of (Mammalia), *b* 370, a 371, *a* 372; respiration of (Mammalia), b 368; teeth of (Mammalia), b 356
—— fossils (Geology), X, a 316; (Mammalia), XV, *a* b 379; (Queensland), XX, a 179; (Zoology, American), XXIV, a b 925
Marsupium. (Kangaroo), XIII, a 849
Marsus, Domitius, poet (Tibullus), XXIII, a 371, b 372
MARSYAS, myth, XV, b 582; (Orpheus), XVIII, b 54
Marsyas, statue (Archæology), II, a 310; (Myron), XVII, *a* 128
Martaban, district and town (Burmah), IV, a b 497
Martainville, faubourg (Rouen), XXI, *b* 15
Martel, Charles, duke of Austrasia, V, b 370; (France), IX, a b 469; (Germany), X, a *b* 429; (Mohammedanism), XVI, b 598; (Provençal Literature), XIX, b 900
Martelli, Pietro Giacomo, poet (Drama), VII, a 361
MARTEN, quadruped (Ill.), XV, b 582-4; (Fur), IX, b 735, b 736; (Mink), XVI, a 497
Martens, Frederick, explorer (Polar Regions), XIX, b 330
——, G. F. de, jurist (Treaties), XXIII, *a* 565, *a* 566
Martha's Vineyard, island, (Massachusetts), XV, a 618
Marti, Francisco de Paula, stenographer (Shorthand), XXI, a 881
MARTIAL, M. Valerius, epigrammatist, XV, b 584-7
  early life, b 585-6
  editions, b 587
  life at Rome, a b 586
  literary position, a b 587
  personal characteristics, b 584-5, b 586-7
—— (Anthology), II, a 93; (Epigrams), VIII, b 424; (Juvenal), XIII, a 813, a 814, *a b* 815, a 817; (Patron and Client), XVIII, a 424; (Petronius), a b 736; (Phædrus), a 740; (Roman Literature), XX, *b* 745; (Satire), XXI, a 334; (Statius), XXII, a *b* 484; (Tibullus), XXIII, a 372; (Trajan), *b* 535
——, festival of Saint (Limoges), XIV, b 658
Martial law. See MILITARY LAW
Martianoff, N., botanist (Yeniseisk), XXIV, *a* 780
Martianus Capella, editor. See Capella
Martien, Gilbert, inventor (Iron), XIII, a 342
MARTIGUES, town, XV, b 587
MARTIN, bird, XV, b 587-8; (Flight), IX, b 273, note; (Birds) (Ill.), III, b 607
—— of Aragon, king (Spain), XXII, a b 338
——, St., of Braga, bishop (Canon Law), V, b 16
MARTIN, St., of Tours, bishop, XV, b 588-9; (Flag), IX, b 243, a 244; (Monachism), XVI, a 729; (Severus), XXI, *a b* 735; (Tours), XXIII, *b* 522
MARTIN I., pope, XV, a 589; (Popedom), XIX, b 508, a 524
—— II. and III., popes. See MARINUS
MARTIN IV., pope, XV, a 589; (Charles of Naples), V, b 366
MARTIN V., pope, XV, a b 589; (Cardinal), V, *a* 87; (Gerson), X, a 492; (Hussites), XII, b 422; (Popedom), XIX, a 517, b 524; (Rome), XX, a b 822; (Scotland), XXI, b 514
——, Abbé (Syriac Literature), XXII, b 863 notes, b 864 notes, b 865 note, b 869 note, a b 872, note, b 873, a 897 note, a 899
——, Aimé, Bibliographer, III, *b* 572; (Saint Pierre), XXI, a 206
——, Bon Louis Henri, historian, *b.* 1810, *d.* 1883 (France), IX, b 598
——, David, painter (Raeburn), XX, b 225
MARTIN, John, painter, XV, b 589-90; (Danby), VI, b 702
—— the Pole, historian (Poland), XIX, b 311
——, Raymundus, censor (Talmud), XXIII, a 42 note
——, Sir Theodore, author (Aytoun), III, *b* 144
——, Thomas-Henri, critic (Ptolemy), XX, a b 95 notes
MARTINA FRANCA, city, XV, a 590
Martin Chuzzlewit, novel (Dickens), VII, b 152-3
Martine, George, secretary (St. Andrews), XXI, a b 166
MARTINEAU, Harriet, authoress, XV, a 590-1; (Cobden), VI, a 80; (Comte), a 212; (Political Economy), XIX, b 390, b 409
——, James, clergyman (Evolution), VIII, a 671; (Theology), XXIII, b 281
Martinet, 18th century engraver (Ornithology), XVIII, a 10 note
——, tactician (Louvois), XV, b 28
Martinez, explorer (El Dorado), VII, b 721
—— de la Rosa, poet (Spain), XXII, a 375
Martin Garcia, island (Argentine Republic), II, a 429
Martini or Martino, painter. See Giorgio, Francesco di
MARTINI, Giovanni Battista, musician, XV, b 591-2; (Cherubini), V, a 510; (Gluck), X, b 618; (Music), XVII, b 99
MARTINI or Memmi, Simone, painter, XV, a b 592; (Cimabue), V, b 680-1; (Giotto), X, b 544; (Inquisition), XIII, b 99
Martini-Henry bullets (Gunnery), XI, a 268; rifle (Gunmaking), XI, b 250-2
MARTINIQUE, island, XV, b 592-3; (Barbadoes), III, a 311; (Cockburn, Sir George), VI, a 91; (France), IX, a 465
Martinism (Freemasonry), IX, a 660, note
Martinmas (Martin, St.), XV, a 589
Martino, artists. See MARTINI
Martinopolis, town (Tours), XXIII, b 522
Martin-process (Iron), XIII, b 288, a 357-8
Martins, Charles, geologist (Geology), X, a 247 note
Martin's-anchor (Ill.), II, a b 8
—— apparatus (Gluten), X, b 620
MARTINSBURG, town, XV, a 593
Martinuzzi, Georg, cardinal (Beaton), III, a 403
Martite (Mineralogy), XVI, b 401
MARTIUS, Carl Friedrich Philipp von, botanist, XV, a b 593; (Parasitism), XVIII, b 268, note
Martius's method (Platinum), XIX, b 203

Martius yellow (Coal Tar Colors), XVIII, a 905
Martlet or merlotte, the (Heraldry) (Ill.), XI, b 626, a b 629
Martlet, bird (Martin), XV, b 587 note
Martorell, Joannot, novelist (Romance), XX, b 675; (Spain), XXII, a 378
MARTOS, town, XV, b 593
Marttand or Martund, temple (Himalaya), XI, b 745
MARTYN, Henry, missionary, XV, b 593-4; (Persia), XVIII, b 660
Martynia, plant (Insectivorous Plants), XIII, a 146
Martyr, Peter, or Vermigli, Pietro Martire, reformer, XXIV, a 180; (Valdes), a 38
Martyrdom (Akiba), I, a 387; (Apostolic Fathers), II, a b 172; (Bradford, John), IV, b 179; (Hooper), XII, b 157; (Huss), b 421-2; (Independents), a 762; (Lucia), XV, a 44; (Luke), a 64; (Mohammedanism), XVI, a 580; (Pilgrimage), XIX, b 102; (Polycarp), a b 429, a 430. See Persecution
——, first of the Reformation (Luther), XV, a 79
Martyrium Petri et Pauli (Peter), XVIII, a 710
Martyrologium Hieronymianum (Martyrology), XV, a b 594
MARTYROLOGY, XV, a b 594; (Capuchins), V, a 72; (Challoner), b 323; (Mark), XV, a b 559; (Maurice, St.), a 644; (Syriac Literature), XXII, b 868-9; (Ursula, St.), XXIV, b 178
Martyrs, Acts of Persian (Persia), XVIII, a 620, b 627
Martyrs, Baptism of, III, b 301
Martyrs, Book of (Foxe), IX, b 443, note
——, era of (Chronology), V, b 621
——, invocation of (Saint), XXI, b 163-4
Martyrs' Memorial (Oxford), XVIII, a 99
"Martyrs of Cordova" (Spain), XXII, a 327
Marucelli library, Florence (Libraries), XIV, a 530, a 550
Marud, mount (Saráwak), XXI, b 321
Marudu or Maludu river and bay (Sabah), XXI, b 131, a 132
MARULLUS, Michael Tarchaniota, poet, XV, b 594
MARUM or Marwm, Martin van, electrician, XV, b 594
Mārūthā of Maiperkat, bishop (Syriac Literature), XXII, a 869
—— of Taghrith, bishop (Syriac Literature), XXII, b 880-6
Maruts, gods (India), XII, a 820
MARUTSE-MABUNDA, kingdom, XV, a 595
Maruzayo, Isho- (Syriac Literature), XXII, a 891
MARVELL, Andrew, satirist, XV, a 595-6; (Hymns), XII, b 627 note; (Milton, John), XVI, a 346
Marvin, Charles, traveller (Petroleum), XVIII, b 885
Márwár, state (Jodhpur), XIII, b 714
Marwārī dialect (Hindūstânī), XI, a 752
Márwáris, traders (India), XII, *a* 799
Marx, Karl, socialist *b*. 1818, *d*. 1883 (Communism), VI, b 191, *a* 192; (International), XIII, *a* 196; (Socialism), XXII, a 217, a 220, *b* 221-6, *a* b 229, *a* 230, b 232
Mary. See Maria, Marie
——, river (Queensland), XX, *a* 178
MARY, the Virgin, XV, b 596-9
  feasts, b 598-9
  perpetual virginity, b 596-7
  relation to the Godhead, b 597-8
  scriptural account, b 596
  sinlessness, a b 597
—— (Immaculate Conception), XII, b 753-4; (Loreto), XV, a 6; (Lourdes), a 26; her wedding ring (Perugia), XVIII, b 693-4
——, *Apocalypse of*, II, b 157
—— of Burgundy, empress (Burgundy), IV, b 479; (France), IX, a 488; (Ghent), X, b 504-5; (Holland), XII, a b 76
MARY I., Tudor, queen of England, XV, a 599-601; (Charles V.), V, a b 361; (Cheke), *a* 396; (Cranmer), VI, a b 488; (Elizabeth), VIII, a 133; (England), a *b* 303, b 304-5; (England, Church of), b 337; (English Literature), a b 370; (Gardiner), X, *a* b 70; (Grey, Lady J.), XI, *b* 172, a 173; (Ireland), XIII, b 269; (Moro), XVI, a 856; (Philip II.), XVIII, b 757, a 760; (Parker), a b 305; (Pole), XIX, b 343; (Poor Laws), b 478
MARY II., queen of England, XV, a 601; (Stuart), XXII, b 642; (William III.), XXIV, b 610, b 611, a 612
——, name of four New Testament persons, the wife of Cleopas, the Magdalene, of Bethany, and the friend of St. Paul, XV, b 596 note
—— of Guelders, queen (Scotland), XXI, a *b* 516
—— of Guise or Lorraine, queen (Scotland), XXI, a b 521, a b 522, b 523-4
—— of Orleans, queen of Sardinia (Savoy), XXI, a 357
—— of Orleans, duchess of Würtemberg, sculptor (Orleans), XVII, a 875
Mary de' Medici, queen (France), IX, b 498, b 499
Mary de' Medici, Story of (Rubens), XXI, a 49
MARY STUART, queen of Scots, XV, a 601-8
  abdication enforced and retracted, a 605-6
  birth and French residence, a b 601
  Bothwell intrigue and marriage, b 602-5
MARY STUART, *continued*
  court, Scotch, in first years of her reign, b 601-2
  Darnley marriage period a 602-3
  estimate of, a b 608
  refuge and imprisonment in England, a 606-7
  trial and execution, b 607-8
—— (Bothwell, Earl), IV, a 150; (Brewing), a 237; (Buchanan, George), b 370-1; (Carlisle), V, b 96; (Chastelard), b 377, a 378; (Chatsworth), b 385; (Elizabeth), VIII, a b 134; (Embroidery), b 149; (England), b 302, a b 306; (Fife), IX, *b* 134; (Glasgow), X, a 570; (Golf), b 681; (Henry II., France), XI, a b 597; (Inverness), XIII, a 207; (James I., England), b 567; (James V., Scotland), b 567; (Knox), XIV, *b* 133-4; (Lesley), *b* 475, note, a 476; (Maitland), XV, a b 311; (Morlaix), XVI, b 851; (Morton), b 876; (Murray), XVII, a 69; (Numismatics), *b* 674; (Peterborough), XVIII, b 713; (Stirling), XXII, b 583-4; (Talbot), XXIII, b 31; (Walsingham), XXIV, b 559, *a* 560; (Wig), b 591, note; (York), b 786; defence of (Tytler), XXIII, b 761; reign of (Scotland), XXI, b 515, a b 521-8, a 529, a 530
Mary Stuart, drama. See *Marie Stuart*
Mary, a Fiction (Godwin), X, *b* 638
Mary Barton, novel (Gaskell), X, *b* 94, *a* b 95
MARYBOROUGH, town, XV, b 608-9; (Queen's County), XX, *b* 177
——, town (Queensland), XX, *a* 178, a b 180, *a* 181
Maryland, colony (Liberia), XIV, b 507, note
MARYLAND, state (Plate VIII), XV, a 609-11
  administrative features, b 610, a 611
  climate, soil, etc., b 609-10
  education, etc., b 610-1
  geology and minerals, a b 609
  history, a b 611
  industries, a b 610
  political features, b 610-11
  population, a b 610
  topography, a 609
—— (Horse), XII, a 207; (Newspapers), XVII, b 445; (Oyster), XVIII, b 112, a 113; (Quakers), XX, b 892; (Reformatories), b 898, b 899, a 900, a 901; (Slavery), XXII, a b 907; (Universities), XXIII, a 913, a b 955; history of (United States), b 777, b 778, *a* b 794, a 796, b 809, b 821, *a* 823, a 825, a 826, a 827, a *b* 845; statistics (United States), b 853, *b* 864, a 866, b 878
Marylebone, borough (London), XIV, b 827, a b 829, *a b* 830, a b 831, a 833, a b 842, b 843, a 861
—— Cricket Club, VI, b 512, b 513-4
MARYPORT, town, XV, b 611
"Mary Rose," war ship (Hollar), XII, b 104
Marzacotto ware (Pottery and Porcelain), XIX, a 644
Masa, race (Soudan), XXII, a 292
MASACCIO, Tommaso Guidi, painter, XV, b 611-2; (Fresco), IX, a *b* 678, *a b* 679, a b 680
Masada, fortress (Dead Sea), VII, a 4
Mas a Fuera, island (Chili), V, a 536; (Juan Fernandez), XIII, b 767, *a* 768
MASANIELLO or Tommaso Aniello, insurgent, XV, b 612-4; (Falcone, A.), IX, b 5; (Rosa), XX, *b* 869
Masaniello, opera (Auber), III, b 58
Masaridæ, family (Wasps) (Ill.), XXIV, *a* 412, b 413
MASAYA, town, lake and volcano, XV, a 614; (Nicaragua), XVII, b 490, a 491
Mascagni, Paolo, physician (Anatomy), I, a 715; (Siena), XXII, a 49
Mascagnite (Mineralogy), XVI, b 416
MASCARA, town, XV, a b 614; (Algeria), I, *b* 500, a 501; (Oran), XVII, *b* 833
MASCARENE ISLANDS, XV, b 614; (Distribution), VII, *b* 235; (Indian Ocean), XII, b 860
—— Birds, III, b 634-5, b 659
Mascaro, chronicler (Provençal Literature), XIX, a 902
MASCARON, Jules, ecclesiastic, XV, b 614
Mascart, E., physicist (Electricity), VIII, a 19 note, a b 20 note, a 22, b 30, b 33, b 52, a 55, a 57, b 61, a 74, b 93, b 94, b 95, b 96; (Electrometer), VIII, a 111, a 112
Mascat, town. See MUSCAT
MASCHERONI, Lorenzo, geometer, XV, b 614
Mascule, the (Heraldry), XI, b 621
Maseña, town (Africa), I, a 243; (Soudan), XXII, a 293
Masères, Francis, philanthropist (England), VIII, a 232
Mashal, poetical proverb (Bible), III, b 552; (Proverbs), XIX, *b* 905
Masham, Abigail Hill (Anne), II, *b* 56-7; (Bolingbroke), IV, *a* b 7; (Marlborough), XV, b 560, b 562; (Oxford, Earl of), XVIII, b 103
Masham, Lady, nom de plume of Damaris Cudworth, VI, b 609
Mashhad, city. See MESHED
Mashing, malt (Brewing), IV, b 238, b 241-5
Mashita carvings (Mural Decoration), XVII, b 40, a 41, note

Mashkíd, river (Persia), XVIII, a 631
Mashona, mountains (Africa), I, b 224
Mashru, or sufi, fabric (India), XII, a 801
Mashuasha, tribe (Egypt), VII, b 642
Masíh al Dajjâl of Islam (Antichrist), II, b 111
MASINISSA of Numidia, prince, XV, b 614–5; (Jugurtha), XIII, a 776; (Numidia), XVII, b 642; (Rome), XX, b 768, a *b* 769; (Scipio), XXI, *a* 489
Masius, Mount (Kúrdistán), XIV, a 157; (Mesopotamia), XVI, *a* 52, a 55
Mask, lip (Dragon-Fly), VII, b 335
——, lough (Galway), X, a 51; (Ireland), XIII, b 222; (Mayo), XV, *a* 657
Mask, play. See Masques
Maskāt, city. See MUSCAT
Masked ague (Malaria), XV, b 320, a 321
—— comedy, Italian (Drama), VII, b 361, note
Maskelyne, John Nevil, jeweller (Magic), XV, a 208, a b 211, a 212
MASKELYNE, Nevil, astronomer, XV, b 615–6; (Almanac), I, a 521; (Astronomy), II, a 662, b 693; (Clive), VI, a 10; (Navigation), XVII, a *b* 266, *a b* 267, *a* b 268; (Time), XXIII, b 422 note
Masking screens (Lighthouse), XIV, b 636
Maskinonge, fish (Pike), XIX, b 97
Maslama, general (Mohammedanism), XVI, a b 596, a 597, a b 598
Masliah, rabbi (Talmud), XXIII, b 42 note
Masnavīs, poems (Hindustani Literature), XI, b 756–7
MASOLINO DA PANICALE, painter, XV, a b 616; (Fresco), IX, a 679; (Schools of Painting), XXI, *b* 452
Mason, etymology of (Freemasonry), IX, a 661
——, Charles, astronomer (Maskelyne), XV, a 616
——, E. P., astronomer (Telescopic Work), XXIII, b 932
MASON, Francis, missionary, XV, b 616
MASON, George, politician, XXIII, a 839
MASON, George Hemming, painter, XV, b 616–7
——, James Murray, senator, *b.* 1798, *d.* 1871 (Sumner), XXII, a b 934; (United States), XXIII, b 823
——, John, clergyman (Hymns), XII, a *b* 627
——, John, proprietary (New Hampshire), XVII, *a* 403
——, Sir Josiah, penmaker (Birmingham), III, *a* 680, a 681; (Pen), XVIII, a 494
——, Monck (Aëronautics), I, *b* 171, a 172, *a* b 173, a 175, a 187
MASON, William, poet, XV, a b 617; (Gray, Thomas), XI, a 71; (Pianoforte), XIX, b 80, note, b 81
——, William, stenographer (Shorthand), XXI, b 876
MASON AND DIXON'S LINE, XV, b 617; (Maryland), b 611; (Maskelyne), a 616; (Pennsylvania), XVIII, b 514; (Rittenhouse), XX, a 585 note
Mason and Hamlin, manufacturers (Harmonium), XI, b 432, a 433
Mason and Slidell, capture of (United States), XXIII, b 823
Masonic, Anti-, party (Seward), XXI, a 744 note
—— manuscripts, Russia (Libraries), XIV, a 533
Masonite (Mineralogy), XVI, a 431
Masonry (Building) (Ill.), IV, a 418–26; (Filter), IX, a 149; (Joints), XIII, b 741; (Mining) (Ill.), XVI, b 470, a b 471; arches (Bridges), IV, a b 273–9; construction (Lighthouse) (Ill.), XIV, b 620, b 622, a 623; dams (Water-Supply) (Ill.), XXIV, a 428–30; introduction of (Architecture), II, a 335; of piers (Harbors and Docks) (Plate VIII), XI, b 414–5; work (Rome) (Ill.), XX, a 827–9, a 830–3
Masons, mediæval (Freemasonry), IX, b 657–8
Mason's marks on walls (Rome) (Ill.), XX, *b* 832
—— tables (Navigation), XVII, b 267–8
Maspero, Gaston Camille Charles, Egyptologist (Egypt), VII, b 625, b 635, a *b* 636, b 640, a 641 note, a 643
Maspha, city (Mizpah), XVI, a 555
Masque of Pandora (Longfellow), XIV, b 872, a b 873
Masque of the Seasons (Alford), I, b 446
Masquerades (Italy), XIII, b 518
Masques, dramatic (Ballet), III, a 249; (Carew), V, a 90; (Daniel, S.), VI, a 711; (Davenant), b 735; (Day), a 746; (Drama), VII, b 361, note, a b 373; (Gascoigne, G.), X, b 93; (Goethe), a 649; (Jonson), XIII, b 752, a b 753, b 755–6; (Lyndsay), XV, b 107, a 108; (Music), XVII, a 95; (Sweden), XXII, a 793
Masr, town (Egypt), VII, b 667, b 668
—— al Kahira, city. See CAIRO
Masrona of Grenoble, Sister, nun (Stigmatization), XXII, b 577
Mass, sacramental celebration (Agnus Dei), I, a 254; (Cherubini), V, a 511; (Eucharist), VIII, b 572; (Goudimel), XI, b 3; (Hymns), XII, a 616; (Knox), XIV, a 132; (Missal), XVI, b 533, b 534; (Palestrina), XVIII, b 183–5; doctrine of the (Trent, Council of), XXIII, b 584–5; of St. Basil (Roman Catholic Church), XX, *b* 646; suppression of the (Scotland), XXI, b 525. See Eucharist, Lord's Supper, Missal, Sacrament
——, quantity of matter (Mechanics), XV, a 706, a 709; accounting for (Atom), III, a 41, b 43; unit of (Dynamics), VII, a 504; (Weights and Measures), XXIV, *a* 505
MASSA or Massa Carrara, town, XV, b 617
——, river (Morocco), XVI, b 858
Massabāt, tribe (Darfur), VI, a 725
Massabesic, lake (Manchester), XV, b 472
MASSACHUSETTS, state, (Plate IX), XV, b 617–23
agriculture, b 618
commerce and manufactures, a b 619–20
education, b 620–1
fauna and flora, a b 618
finance, a 620
geology, b 618
history, b 621–3
colonies, a 622
constitutional, a 623
libraries, a 621
physical features, b 917–8
political features, b 621
population and its condition, b 618–9
railways, a 620
social features, a b 620–1

—— (Bankruptcy), III, a b 297; (California), IV, b 625; (Hospital), XII, a 321; (Maine), XV, b 303, *a* 304; (Newspapers), XVII, a 444–5; (Reformatories), XX, b 898, a 899, a 900, a 901, a b 902, *a b* 903; (Schools), XXI, a *b* 908, a *b* 909, a 911; (Seduction), b 651; (Shays), b 921–2; (Slavery), XXII, *a* 907, a 908; (Straw Manufactures), b 622 note; (Suicide), b 663; (Sunday), a 691; (Thanksgiving Day), XXIII, *b* 937; (Universities), a 913, a b 955, b 962; history (United States), b 795, a 796, a b 800, a b 801, a 803, b 805, a 822, a 823; labor in (Protection), XIX, a 934; (Workingmen), XXIV, *a* 916, *a b* 917, *b* 918, a 919, a b 920; statistics of (United States), XXIII, *b* 853, a 860, *b* 863, a 866, b 870, b 882; system of Taxation, a b 925, a 926; topography (United States), *b* 842, *a* 843, a 846
—— Bay colony, XV, a 622; (Harvard College), XI, a 447; (Hutchinson, T.), XII, *a* 428; (New Hampshire), XVII, *a* 403; (Otis), XVIII, a 71; (Post-Office), XIX, b 580; (Presbyterianism), b 717; (Quakers), XX, a b 158; (United States), XXIII, *b* 777, a *b* 778, *b* 780, a 784, a b 785, b 786, *b* 787; (Williams), XXIV, a b 618; (Winthrop), b 903–4
Massachusetts Spy, (Newspapers), XVII, b 444–5; (Thomas), XXIII, *b* 939
Massacre at Paris, play (Marlowe), XV, b 564
Massacre of the innocents (Jesus Christ), XIII, b 671–2
—— of St. Bartholomew. See St. Bartholomew
Massæsyli, tribe (Numidia), XVII, b 642
Massagetæ, people (Herat), XI, b 638
Massalia or Massilia, colony (Greece), XI, *a* 86; (Ionia), XIII, a 211; (Numismatics), XVII, *b* 651; (Phocæa), XVIII, a 812. See MARSEILLES
Massalongo - Koerberian classification (Lichens), XIV, b 563–4
Massari, Giuseppe, litterateur (Gioberti), X, a 541
Massasoit, chief (Winslow), XXIV, b 902
Massavielle, grotto (Lourdes), XV, *a* 26
Massed artillery fire (War), XXIV, a 381
Massekheth (Mishnah), XVI, a b 528, note; (Midrash), b 298
MASSÉNA, André, prince of Essling, general, XV, a 623–4; (Austria), III, a 114, b 115, b 116, a 117; (Fortification), IX, b 380, note; (France), *b* 536, *b* 538, a 539, a 540; (Napoleon I.), XVII, b 210, *a* 211, b 216; (Ney), a 485; (Oudinot), XVIII, b 77; (Wellington), XXIV, *b* 523, a 524
"Masses" of mineral (Mining) (Ill.), XVI, a 461–a 462
——, compared (Weights and Measures), XXIV, b 505
Massey, John, Dean (Newton), XVII, a 456
—— garden (Tarbes), XXIII, a 67
Massey's log (Ill.), XIV, b 777
Massicot, oxide (Lead), XIV, *b* 377–8; (Mineralogy), XVI, a 401
Massicytus, mountain (Lycia), XV, b 94, a 95
Massie, translator (Hymns), XII, a b 623
Massilia, colony. See Massalia
Massilian or Semipelagian heresy (Jansenism), XIII, a b 576; (Pelagius), XVIII, b 483
Massiliensis, hermit. See Cassianus
MASSILLON, Ohio, city, XV, a 624
MASSILLON, Jean Baptiste, preacher, XV, a b 624; (Bourdaloue), IV, b 159; (France), IX, a 583; (Hyères), XII, a 600
Massina, region. See Moassina
MASSINGER, Philip, dramatist, XV, b 624–6; (Drama), VII, a 374; (Beaumont and Fletcher), III, *a* 406, b 409
Massive glass (Glass), X, b 593–4
—— rocks (Geology), X, b 207–10
Massmann, philologist (Palæography), XVIII, a 158, a b 159, a 170
Massö, island (Norway), XVII, b 605
Massolivieri, promontory (Syracuse), XXII, b 855

Masson, Antoine Philibert, physicist (Electricity), VIII, b 57, b 58
——, David, biographer (Lilburne), XIV, b 647–8. See List of Contributors
——, Robert, preacher (Vermigli), XXIV, a 180
MASSORAH or *Massora*, commentary, XV, a 626; (Israel), XIII, a 439; (Hebrew Language and Literature), XI, a 536, notes
—— Bible (Canon), V, b 6–7; (Canticles), a 33; (Chronicles), b 614, note, a 615; canon (Ezekiel), VIII, b 725; literature (Mohammedanism), XVI, b 627; manuscripts (Syriac Literature), XXII, b 865–6, b 882; points (Buxtorf), IV, a b 536; text (Bible), III, a 554, a 560; (Jeremiah), XIII, b 639; (Palestine), XVIII, a 180
Massorites, commentators (Daniel), VI, b 708
MASSOWAH, town, XV, a b 626; (Abyssinia), I, b 61 note, b 63, a 64, b 66; (Red Sea), XX, a 329
Massuah-ardeb, measure (Liberia), XIV, a 508
Massyli, tribe (Numidia), XVII, b 642
Massys, Jan, painter, XV, a 627
MASSYS or Matsys, Quintin, painter, XV, b 626–7; (Metal-Work), XVI, b 83; (Schools of Painting), XXI, b 458
Mast, food (Beech), III, b 434; (Oak), XVII, a 711
——. See Masts
Mastaba, mausoleum (Pyramid), XX, *b* 128, note, a b 130
Mastabat-Faraoon, pyramid (Egypt), VII, a 636
Mastacembelidæ, fishes (Ichthyology), XII, *a* 710, a b 711, a 729
Mastacomys, genus (Mouse), XVII, a 12
Mastai Ferretti. See Pope PIUS IX.
Mastax, organ (Rotifera) (Ill.), XXI, b 10–11
Master in Hunting, XII, b 410
Master, officer (Navy), XVII, a 303
MASTER AND SERVANT, XV, a b 627; (Labor), XIV, a 168–9, a 170–2
Master Humphrey's Clock (Dickens), VII, a b 152
—— -keys (Lock), XIV, a 755
—— of arts, degree (Universities), XXIII, b 890, a b 899, a 909, a 911
—— of ceremonies (Royal Household), XXI, a 43, note
—— of the Faculties (Archbishop), II, b 323
—— of the Horse (Royal Household), XXI, b 43
—— of the Household (Royal Household), XXI, b 42, note
—— of the Sentences, nom de plume (Lombard), XIV, a 822
Masters, industrial schools for (Technical Education), XXIII, b 116–7: liability of (Slavery), XXII, *b* 907
Master Yaw, excrescence, XXIV, a 769
MASTIC or Mastich, resin, XV, b 627–8; (Building), IV, a 452
Mastication (Anatomy), I, *a* b 735; (Nutrition), XVII, a 689, a 696
Masticator (Gutta Percha), XI, a 303; (India-Rubber) (Ill.), XII, b 881–2
Mastiff (Dog) (Ill.), VII, b 286–7
Mastigopods, group (Animal Kingdom), II, b 45; (Protozoa), XIX, b 857
MASTODON (Ill.), XV, b 628–30; (Elephant), VIII, b 118; (Mammalia), XV, *a* b 429, a 431, note; (Zoology, American), XXIV, *b* 926
Mastoid process (Anatomy), I, a 723, a 729; (Ape), II, a 139
Mastricht, Peter Van, theologian (Dogmatic), VII, b 288, a b 296
Masts, ship's (Fir), IX, a 195; (Sail), XXI, b 161; cutting away (Seamanship), b 627; stepping (Seamanship) (Ill.), b 621–2
—— and uprights (Building) (Plate XXII), IV, b 427–8
Mastuj, river and town (Gilgit), X, *b* 532; (Hindú Kúsh), XI, b 748
Mas'úd, sultan (Seljuks), XXI, b 668
—— II., sultan (Seljuks), XXI, b 669
Masudji, river (Sumatra), XXII, a 673
Mas'udor Ibn al-Kass, poet (Syriac Literature), XXII, b 900
MAS'UDY or Masidi, historian, XV, a b 630; (Chess), V, b 520; (Geography), X, a 159; (Thousand and One Nights), XXIII, a 337
MASULIPATAM, division town, XV, b 630; (Circar), V, *a* 688; (Kistna), XIV, b 104, *a* 105; (Madras), XV, a 187, a b 188; (India), XII, *a* 838, a 839, a 841
Masuma Fatima, shrine (Kum), XIV, b 155
Masúri, sanitarium (N. W. Provinces), XVII, b 586, a 587
Ma-t, goddess (Egypt), VII, a 621, b 622
Mat or matt, alloy (Metallurgy), XVI, b 66–7; (Nickel), XVII, *a* b 501
Mât, riviere du, stream (Réunion), XX, *a* 506
Mata Gera, mountain (Kaffa), XIII, a 825
Matakong, island (Sierra Leone), XXII, b 50
Matalonum, town. See MADDALONI
Matamata, Tortoise (Ill.), XXIII, a b 488–9
MATAMORAS, city, XV, b 630–1
——, Mariano, revolutionist (Morelia), XVI, a 847
Matan, island (Cebu), V, b 245
Matanza, town (Canary Islands), IV, b 705
MATANZAS, city, XV, a 631
Matapane, coin (Numismatics), XVII, b 675
Matara, district (Ceylon), V, b 314
Mataram, chief (Java), XIII, b 620
MATARO, town, XV, a b 631
"Matchem" (Horse), XII, *b* 188
MATCHES, XV, b 631–3; tax on (Finance), IX, b 166
Match-factory (Jönköping), XIII, a 751
—— lock (Gunmaking), XI, b 246
Matchi, river (Zerafshan), XXIV, a 820
MATÉ, tea (Ill.), XV, b 633–4; (Forests), IX, a 358
Matebele, district (Transvaal), XXIII, b 551
Matelotas, islands (Caroline Islands), V, a 111
Mateo, Mastei, sculptor (Sculpture), XXI, b 593, note
—— di Giovanni, or da Siena, painter (Schools of Painting), XXI, a 452, a 462; (Siena), XXII, *a* 44, a 49
MATERA, city, XV, b 634
Materfamilias (Roman Law), XX, a 690, note, b 694; in jus civile (Roman Law), a b 705
Material identity (Psychology), XX, *b* 85
Materialism (Epicurus), VIII, b 421; (Evolution), a b 660; (France), IX, a 588; (Holbach), XII, a b 55; (Lotze), XV, b 14; (Stoics), XXII, b 590, b 591–2, a 594; of A. Smith (Political Economy), XIX, b 383; of Strato (Peripatetics), XVIII, a 557; *History of* (Germany), X, b 487
Materialistic psychology (Anthropology), II, a b 97
Materiality, sense of (Psychology), XX, b 60–1
Materialization, illusion (Magic), XV, a 212
MATERIALS, STRENGTH OF (Ill.), XXII, a 623–39. See Strength of Materials
Materia Medica, Hindu (Sanskrit), XXI, a 309. See Pharmacy
Maternal ante-natal health (Pathology), XVIII, a b 381, a 393; impressions (Monster), XVI, b 791
—— instinct of spiders (Arachnida), II, b 261–2
Maternity Hospital, XII, a b 316
Matese, lake (Italy), XIII, a 450; Monte (Italy), a 447, b 448; (Samnites), XXI, b 260
Matha, Jean de, monk (Felix of Valois), IX, b 58; (Trinitarians), XXIII, a 611
Mathakes, slaves (Helots), XI, a 570
Mathematical Analysis and synthesis, I, a 696–8
Mathematical canons. See Canons, Mathematical
—— classification (Physical Sciences), XIX, b 5
MATHEMATICAL DRAWING AND MODELLING, XV, b 634–5. See Drawing, Projection
—— expectation (Probability), XIX, b 795
—— geography (Geodesy), X, a 153; (Geography) (Ill.), a 157, a 176–88; (Ptolemy), XX, a 97–100
—— Periodicals, XVIII, b 552; Societies, XXII, b 236; Tables, XXIII, b 10–20
—— theory of balloon motion (Aëronautics), I, a 184–6; of Elasticity, VII, b 710–6; of Electricity, VIII, a 12, b 22–34; (Magnetism), XV, a 251–2; of Heat, XI, b 523–6; of Political Economy, XIX, b 399–400, b 409, b 412
MATHEMATICS, XV, b 635–7; Algebra, I, a 451–95; Arithmetic, II, a 460–71; (Bacon, R.), III, b 190; (Baldi), a b 237; (Cardan), V, b 80–1; (Condillac), VI, b 222, a 223; (De Morgan), VII, b 57–8; (Descartes), a b 105; (Ditton), a 253; (Fermat), IX, a b 80; (France), a b 590; (Galileo), X, b 32–3; (Gauss), b 104, a 105; (Geometry), a 334–78; (Gregory), XI, a 163; (Hamilton, Sir W. R.), b 376–8; (Hobbes), XII, a b 39–40; (Hume), b 366, a b 367–8; (Hutton), a 430; (Huygens), b 431
—— (Infinitesimal Calculus), XIII, a 67–9; (Kant), a 859, b 861–2, a 863; (Lagrange), XIV, b 208–11; (Laplace), b 303–4; (Leonardo), a b 456, a 462; (Logarithms), a 779–87; (Logic), b 787, note; (Maclaurin), XV, a 162–3; (Magic Square), a 214–7; (Magnetism), a 251–2; (Maxima and Minima), a b 650; (Mensuration), XVI, a 17–33; (Murphy, R.), XVII, b 63; (Napier, J.), b 184–92; (Newton), a b 454, a 458–9; (Numbers), b 629–39; (Pascal), XVIII, a 343–4; (Peacock, G.), b 454–5; (Periodicals), b 552; (Pisanus), XIX, b 134–5; (Plücker), a 241–2; (Poinsot), a 293; (Poisson), a 293; (Poncelot), b 466–7; (Porism), b 533–4; (Quaternions), XX, a 167–71; (Scotland), XXI, b 568; (Series), a 710–4; (Surveying), XXII, a 731–52; (Tables), XXIII, b 10–20; (Tartaglia), a 74; (Wallace), XXIV, b 348; (Wallis), a b 352
——, Arabic, II, b 231; (Mohammedanism), XVI, b 618
——, Greek (Archimedes), II, b 332–3; (Euclid), VIII, b 575–8; (Pappus), XVIII, b 233–5; (Ptolemy), XX, b 92–6; (Pythagoras), a 146–7; (Thales), XXIII, a 236–7
——, Hindu (Sanskrit), XXI, a b 309
Mathematics, History of (Montucla), XVI, b 824
——, organic (Morphology), XVI, b 870
MATHER, Cotton, divine, XV, b 637–8

Mather, Increase, divine, XV, a 638; (Giants), X, a 511
——, Richard, divine (Independents), XII, b 764
——and Platt's belt-stretcher (Bleaching), III, b 710–1; Calico-printing machine (Ill.), IV, b 607–8; singer (Bleaching) (Ill.), III, b 706–7; washing machine (Calico-Printing)(Ill.), IV, a 610
Mathesius, chemist (Bismuth), III, *a* 686
MATHEW, Theobald, temperance reformer, XV, b 638; (Temperance), XXIII, b 174, b 175
MATHEWS, Charles, comedian, XV, b 638
MATHEWS, Charles James, comedian, XV, a 639
Mathewson, inventor (Sandblast), XXI, b 269
Mathieu, Pierre, poet (France), IX, a 573
Mathiola, plant (Gillyflower) X, b 536
Mathison, metallurgist (Gold), X, b 666
Mathnawis, poems (Násir Khosrau), XVII, a 244
Mathnetha, commentaries (Israel), XIII, a 439; (Mishnah), XVI, b 529
Maths or convents (Brahmanism), IV, b 189
Mathurā, tract (Hindūstānī), XI, b 750
Mathurins, religious order (Trinitarians), XXIII, a 611
Mati Dhwaja, lama (Kublai Khan), XIV, b 152
Matia or Maitea, island (Tahiti), XXIII, a b 27
Maties, fish (Fisheries), IX, a b 226 note
Matilda, empress (Embroidery), VIII, b 149; (England), a 272; (Henry I., England), XI, a b 585, a 586; (Henry II.), a 586; (Normandy), XVII, a b 558; (Oxford), XVIII, b 102; (Plantagenet), XIX, a 186; (Scotland), XXI, *a* 505; (Stephen), XXII, b 560, *a* 561
MATILDA, countess of Tuscany, XV, a 639; (Florence), IX, a 292; (Italy), XIII, a 482; (Paschal II.), XVIII, a 344; (Tuscany), XXIII, a 713
Màtitànana river (Madagascar), XV, *b* 169
Matjan Putih, town (Java), XIII, a 620
Matlalzinca tribes (Indians), XII, a 865, a 868
MATLOCK, town, XV, a b 639
Matlockite (Mineralogy), XVI, b 400
Matochkin Shar, channel (Nova Zembla), XVII, a b 619, *a b* 620
Matoppo mountains (Africa), I, b 224
Matrah, town (Muscat), XVII, a 71
Matres lectionis (Hebrew Language and Literature), XI, *a* 534
Matrimonio Segreto (Cimarosa), V, b 681
Matrimony. See Marriage
Matrix (Die-Sinking), VII, b 171; stereotype (Typography), XXIII, *a b* 748; type (Typography) (Ill.), a b 744
Matronalia, feast (Juno), XIII, b 788; (Mars), XV, a 577
Mats (Fibres, Textile), IX, b 116
Matsumae, poet (Japan), XIII, b 580
Matsyeneranath, saint (Lhasa), XIV, b 498 note
MATSYS, Quintin, painter, XV, b 639
Mattas, forests (Brazil), IV, a 203
Mattathias, priest (Israel), XIII, b 431
Mattei, Stanislas, composer (Rossini), XX, b 883
Matteo, Bernardo di, sculptor (Pistoia), XIX, a 141
MATTER, Properties of, XV, b 639; (Æsthetics,) I, b 191, a 192, a 195, a 199; (Berkeley), III, a 509, a 510; (Descartes), VII, a b 107; (Dynamics), a b 503; (Locke), XIV, a 766; (Metaphysic), XVI, a 100, b 105; (Neoplatonism), XVII, b 345; (Philo), XVIII, b 775; Duns Scotus on (Scholasticism), XXI, b 447
—— and Force (Stoics), XXII, a 592
—— and mind, relation of (Cartesianism), V, b 125–6, a 129, a 131, b 137; relation of God to (Cartesianism), a b 128–9, a 131
Matter and Motion (Maxwell, J. C.), XV, b 653
——, objectivity of (Mechanics), XV, b 755; solid and fluid distinguished (Pneumatics), XIX, a 252
——, Spinoza's exaltation of (Cartesianism), V, b 137; universality of (Arabian Philosophy), II, b 235; vortex theory of (Atom), III, a 41, b 43, a 44
Matterhorn, mountain (Alps), I, b 545, b 549
Matteson, E. E., inventor (California), IV, b 621
MATTEUCCI, Carlo, physicist, XV, b 639
Matthæus, Peter, of Lyons, jurist (Canon Law), V, a 19
Mattheson, Johann, composer (Handel), XI, a b 388
MATTHEW, Evangelist, XV, a 640; (Acts of the Apostles), I, b 115; (Gospels), X, a b 725, b 747; (Jesus Christ), XIII, b 675; (Peter), XVIII, a b 707, a 708
Matthew, Gospel of (Bible), III, b 555–6; critical history of (Gospels), X, b 747–8; date of (Gospels), b 722–3; and *Luke*, parts peculiar to (Gospels), a 709–12; and *Mark*, parts peculiar to (Gospels), a 707–8; originality of (Gospels), a 702–7; peculiarities of (Gospels), a 714–6
—— of Bassi, friar (Franciscans), IX, a 616
—— Corvinus. See MATTHIAS CORVINUS
MATTHEW of Paris, historian, XV, a 640–1; (Embroidery), VIII, a 149; (Grosseteste), XI, a *b* 188; (Parker), XVIII, a 306
—— of St. Albano, bishop (Templars), XXIII, a 176
—— of Tivoli, friar (Franciscans), IX, b 615
——, Sir Tobias, author (Bacon), III, b 181 note
Matthew's Bible (English Bible), VIII, b 345–6; (Tyndale), XXIII, b 717
Matthew Walker, Knot (Ill.), XIV, a 130; (Seamanship), XXI, a 619
Matthey, George, chemist (Platinum), XIX, a b 202, b 203 note, b 204
MATTHIAS, emperor, XV, a 641; (Austria), III, a 109; (Germany), X, a 448; (Hungary), XII, b 384; (Rudolph II.), XXI, *b* 59
MATTHIAS CORVINUS, king, Hungary, XV, a 641; (Gratz), XI, b 57; (Hungary), XII, b 383, b 390, b 395; (Libraries), XIV, a 514; (Military Frontier), XVI, b 397; (Pápa), XVIII, b 221; (Universities), XXIII, a 896
Matthiesen, Johann (Anabaptists), I, a b 690
Matthiessen, L., physicist (Electricity), VIII, b 43–4, *b* 48–9, a 89; (Gold), X, b 659; (Metals), XVI, b 72, a 74; his experiments (Iron), XIII, b 284, b 285
Matthiessen's *Tafel* (Tables), XXIII, a 17
Matthiola, plants (Horticulture), XII, a b 255, a 256
Matthiolus, Pietro Andrea, botanist (Horse-Chestnut), XII, *a* 210, note
Mattiaci, mineral springs (Wiesbaden), XXIV, b 591
——, tribes (Prussia), XX, a 26
MATTING, XV, a b 641
Mattino, Il (Parini), XVIII, b 278
Mattioli, Ercolo, diplomat (Iron Mask), XIII, a b 371
——, Pier Antonio, botanist (Siena), XXII, a 49
Mattium, town (Catti), V, a 213
Matto Grosso, province (Brazil), IV, a 200, a b 201, a b 202, b 204, a b 210, *b* 212, b 213
Mattokki, tribe (Nubia), XVII, b 627
MATTOON, city, XV, b 641
Mattress, cork (Lifeboat), XIV, b 577
Maturacá river (Brazil), IV, b 199
Matura diamond (Jacinth), XIII, b 541
Maturin, town (Venezuela), XXIV, a 152
MATURIN, Charles Robert, novelist and dramatist, XV, b 641–2; (Drama), VII, a 379, note
Maturity (Longevity), XIV, a 869; (Reproduction), XX, a 419–20
Ma Twan-lin, encyclopædist (China), V, b 576
Maty, Matthew, librarian (Periodicals), XVIII, a 550, note
Matzenauer, Antonin, philologist (Slavs), XXII, a 163
Mau kingdom (Shans), XXI, b 809, a 810
MAUBEUGE, town, XV, a 642
Maubisson, convent of (Arnauld), II, b 543
Mauch, Carl, explorer (Africa), I, a 222, a 223, b 224; (Mozambique), XVII, a 14
Mauchberg, mountain (Transvaal), XXIII, a b 550
Maud, empress. See Matilda, empress
Maud Muller, poem (American Literature), I, a 644
"Maud S." (Horse), XII, b 208
Maudslay, Henry, inventor (Machine Tools), XV, a 154, a 158
—— Sons and Field (Block Machinery), III, b 725
Mauduyt, R. J. E., naturalist (Ornithology), XVIII, b 10
Mauersee, lake (Germany), X, b 403
Maughold Head, promontory (Man), XV, *b* 457, a 459
Maugis d'Aigremont (Romance), XX, *a* b 669
Maui island (Hawaiian Islands), XI, a 473, b 474, b 475
Maui, hero (Mythology), XVII, a b 156, b 164
Mauláná Jalál-uddin Rúmí. See RUMI
Maule, province and river (Chili), V, a 535, a b 536, a 537, a 540
——, Sir William Henry, judge (Divorce), VII, a 262 note
——, horticulturist (Potato), XIX, a b 613
Mauléon, river and town (Pyrénées), XX, b 132, a 133
Maullin, river (Chili), V, b 535
MAULMÁIN or Moulmein, town, XV, a 642; (Amherst, Dist.), I, *b* 646; (Burmah), IV, a b 500, *a* 501; (Siam), XXI, *a* 891, note; (Teak), XXIII, *a* 112
Maultasch, Margaret, princess (Louis IV.), XV, b 18
Maumee bay (Toledo), XXIII, b 464; river (Indiana), XII, b 852
Mauna, island (Navigators' Islands), XVII, a b 287
—— Elka (Hawaiian Islands), XI, b 475
—— Haleakala, volcano (Pacific Ocean), XVIII, a 132
—— Hualalai, volcano (Hawaiian Islands), XI, b 474, a 475
—— Kea, Kilauea and Kohala, volcanoes (Hawaiian Islands), XI, *b* 474, a 475
—— Loa, volcano (Geology), X, *b* 220, a 221; (Hawaiian Islands), XI, *b* 474–5; (Pacific Ocean), XVIII, a 132
Máu-Náth, Bhanjav, town (Azimgarh), III, b 146
Mauna Waialeale, volcano (Hawaiian Islands), XI, b 475–6

Maunch, the (Heraldry) (Ill.), XI, b 628
Maund, weight (India), XII, b 787 note; (Weights and Measures), XXIV, a *b* 518
Maundy coins (Mint), XVI, b 505, note
MAUNDY THURSDAY, XV, a b 642; (Holy Week), XII, b 109; (Penance), XVIII, a 498
MAUPERTUIS, Pierre Louis Moreau de, mathematician, XV, b 642; (Earth), VII, b 516, a 517; (Light), XIV, b 602; (Voltaire), XXIV, a *b* 309, a 310
Maupiti or Mau-rua, island (Tahiti), XXIII, a 27
MAU RÁNIPUR, town, XV, b 642
Maurecato or Mauregato, king of Asturia (Alphonso II.), I, b 540; (Spain), XXII, a 326
Maurepas, lake (Louisiana), XV, a 22, a 24
——, Jean Frédéric Phélippeaux, count de, minister (France), IX, a 523
MAURER, Georg Ludwig von, jurist, XV, b 642–3
Maures, hills (Var), XXIV, *b* 75
MAURETANIA, country, XV, b 643–4; (Juba II.), XIII, a 769; (Morocco), XVI, a 861; (Numismatics), XVII, b 669; (Phœnicia), XVIII, b 819, a 820. See NUMIDIA
Maurettes, hills (Hyères), XII, a 600
Mauriac plains, battle of (Jordanes), XIII, *a* 759
MAURICE, ST., XV, a 644
—— of Dessau, prince (Austria), III, a 112
MAURICE of Nassau, prince of Orange, XV, b 644; (Army), II, a 495, b 536; (Barneveldt), III, *b* 327; (Cavalry), V, b 228; (Grotius), XI, b 194; (Holland), XII, a 80, b 81; (Stevinus), XXII, *b* 573, a 574
MAURICE of Saxony, elector, XV, b 644–5; (Charles V.), V, *b* 360, a 361; (France), IX, b 492; (Germany), X, *b* 447; (Innsbruck), XIII, b 93; (Saxony), XXI, b 369
MAURICE or Mauricius, Flavius Tiberius, emperor, XV, a b 644; (Greece), XI, *a* 101, a 102; (Persia), XVIII, b 624, a 625; (Syriac Literature), XXII, a 880
MAURICE, John Frederic Denison, clergyman, XV, a 645–6; (Erigena), VIII, a 463; (Erskine, Thomas), b 469; (Eschatology), b 475; (Ewing, J.), b 679; (Kingsley), XIV, a b 91; (Socialism), XXII, b 219, b 221
Maurienne valley (Savoie), XXI, *b* 347
Maurin, musician (Trumpet), XXIII, a 630
MAURITIUS or Isle of France (Map), XV, a 646–8
  education, b 648
  fauna, b 647–8
  government, a 647
  history, a 648
  literature, b 648
MAURITIUS, *continued*
  physical features, a 646–7
  population, b 648
  trade, b 647
—— (Africa), I, a 237, b 243; (Coolie), VI, *b* 297–8; (Forests), IX, b 359; (Hook, T.), XII, a 152; (Libraries), XIV, b 552; (Meteorology), XVI, b 129, a 131, b 133, *sq.*, b 155, a 163; (Railway), XX, b 263; (Slavery), XXII, b 148; extinct Birds of, III, b 634–5; (Dodo), VII, *b* 278, a 280; law of (Patents), XVIII, a 362; observatory (Meteorology), XVI, a 187
Mauritsstad, town (Pernambuco), XVIII, a 563
Mauro, Fra, cartographer (Geography), X, b 161
Maurus, Hrabanus. See HRABANUS MAURUS
MAURUS, St., XV, b 648–9
Maury, L. F. Alfred, physiologist (Astrology), II, *a* 646; (Dream), VII, *a b* 394, a *b* 395, *b* 396, a 397
MAURY, Jean Siffrein, cardinal, XV, a b 649
MAURY, Matthew Fontaine, hydrographer, XV, b 649; (Geography), X, b 175
Mausolea, Seljukian (Sivás), XXII, a 111
Mausoleum of Augustus (Rome), XX, a b 852
—— of Bantama (Ashantee), II, a 595
—— of Bijapur, III, a 579
—— of Hadrian (Rome), XX, b 852
—— at Halicarnassus (Archæology), II, a 315; (Architecture), a 362; (Artemisia), b 563; (Halicarnassus), XI, b 342–3; (Mausolus), XV, a 650. See Tomb.
MAUSOLUS, king, XV, b 649–5; (Halicarnassus), XI, b 342; (Isocrates), XIII, b 399; (Persia), XVIII, b 590
Mau Tālukā, valley (Bālāgāt), III, b 224
Mauve, dye (Aniline), II, b 43, a 44; (Chemistry), V, a 501; (Coal Tar Colors), XVIII, b 903; (Dyeing), VII, b 500; (Mallow), XV, a 338
Mauvissière, Michel de Castelnau, Sieur de la, diplomatist (Castelnau), V, b 168–9
Mavis, bird (Thrush), XXIII, b 342
Mavor, William, stenographer (Shorthand), XXI, a 877
Mavrocordato, Constantine, hospodar (Roumania), XXI, a 23
Mavrocordatos, Alexander, statesman (Greece), XI, a b 111; (Missolonghi), XVI, b 547
Mavrovlachi, colonies (Vlachs), XXIV, b 289
Mavumbu, tribe (Loango), XIV, a 749
Maw, river (Merioneth), XVI, *b* 43
Maw's, W. H., friction Brake (Ill.), IV, b 191–2
Mawiyyat, fortress (Yemen), XXIV, b 777
Mawlawíya, order (Sunnites), XXII, a b 697
MAXENTIUS, Marcus Aurelius Valerius, emperor, XV, a 650; (Circus), V, a 692; (Constantine I.), VI, *b* 266, *a* 267; Basilica of (Ill.), III, a 357
Max Franz, elector of Cologne (Beethoven), III, a 436
Maxillæ (Arachnida), II, b 238, b 240, b 243, a 244, b 247, a b 249, a b 252, a 254, a b 256; (Coleoptera), VI, a 115; (Mammalia), XV, b 355; inferior (Anatomy) (Ill.), I, a 723; superior (Anatomy), a 723, a 729
Maxillary bones (Amphibia), I, b 661, a 662, *b* 664, a b 665, b 666, *a b* 667, a 668; (Ape), II, a 139; joints and muscles (Anatomy), I, b 733–4; nerves (Anatomy), b 774; region (Skeleton), XXII, b 123–4; (Snakes), b 199
MAXIMA AND MINIMA, XV, a b 650; (Geometry), X, b 343; (Infinitesimal Calculus), XIII, b 7, b 8–9, a 25 *sq.*; criteria for (Variations), XXIV, b 95–6; determination of (Lagrange), XIV, b 208; problems of (Variations), XXIV, *a b* 95, b 97
Maximes des Saintes (Guyon), XI, a 307
Maximian, deacon (Donatists), VII, a 312
MAXIMIANUS, Galerius Valerius, emperor, XV, a 651
MAXIMIANUS, Marcus Aurelius Valerius, emperor, XV, b 650–1; (Constantine I.), VI, a b 266; (Maurice, St.), XV, a 644; (Rome), XX, *b* 795, note, b 796
——, bishop, ivory throne of (Sculpture) (Ill.), XXI, a 583
MAXIMILIAN I., emperor, XV, a b 651; (Aulic Council), III, b 74; (Austria), b 108; (Bruges), IV, b 355; (Burgkmair), b 477; (Colin), VI, b 127; (Dürer), VII, b 478, b 480, a 481, *a* 482; (Eberhard), b 533–4; (Germany), X, b 445–6, a b 472; (Grün, A.), XI, a 199; (Holland), XII, *b* 76; (Philip I.), XVIII, b 757; (Reformation), XX, *b* 336; (Switzerland), XXII, *b* 827; (Trieste), XXIII, b 595; (Tyrol), a 759; his cenotaph (Innsbruck), XIII, a 93
MAXIMILIAN II., emperor, XV, b 651; (Austria), II, a 109; (Germany), X, a 448; (Hungary), XII, a 384
MAXIMILIAN, emperor of Mexico XV, b 651–2; (France), IX, b 550; (Juarez), XIII, b 768; (Mexico), XVI, b 228, b 897; (Miramon), b 521; (Queretaro), XX, b 182
—— I., Bavaria, elector (Germany), X, *b* 448, *a* 449; (Maria Theresa), XV, b 546
—— II., Bavaria, king, III, b 392; (Munich), XVII, b 30
—— of Austria, archduke, Teutonic Knight (Poland), XIX, a b 305
——, Alexander Philip, prince of Neuwied, naturalist (Seriema), XXI, a 709
—— Emanuel, elector (Bavaria), III, a 392
——, Joseph, king (Bavaria), III, b 392
Maximilianstrasse (Munich), XVII, a b 30, a 32
Maximilla, prophetess (Montanism), XVI, b 801–2, a 803
MAXIMINUS, Caius Julius Verus, emperor, XV, a 652; (Calpurnius), IV, b 630; (Gordianus), X, *a* 695
MAXIMINUS, Galerius Valerius, emperor, XV, a 652; (Severus), XXI, b 734
Maxims (Axiom), III, b 137; (Confucius), VI, b 234
Maxims (La Rochefoucauld), XIV, *a b* 318; (France), IX, b 583
Maximum indicator (Numbers), XVII, b 633; Thermometers (Ill.), XXIII, a b 311
MAXIMUS, Magnus Clemens, emperor, XV, a b 652; (Britannia), IV, a b 319; (Rome), XX, a b 797, a 798; (Theodosius I.), XXIII, a b 278; (Valentinian II.), XXIV, a 43
MAXIMUS, Marcus Clodius Pupienus, emperor, XV, a 652; (Calpurnius), IV, b 630
MAXIMUS, Petronius, emperor, XV, b 652; (Rome), XX, a 799
MAXIMUS Tyrannus, emperor, XV, b 652
MAXIMUS, St., XV, b 652–3; (Mysticism), XVII, b 138
Maxite (Mineralogy), XVI, b 416
Max-Müller, Friedrich, orientalist. See Müller, Friedrich Max
MAXWELL, James Clerk, physicist, XV, a 653–4; (Attraction), III, b 56; (Diagrams), VII, a 131; (Dynamics), b 504; (Elasticity), b 695; (Electricity), VIII, a b 12, a *b* 15, b 18 note, a b 25, a b 27, *a* 32, a 34, a 35, b 37, b 39, b 40–1, a 44, b 50, a 51, b 56, a 64, a 65 note, a 67, b 70, note, a 71, a b 72, note, a b 73, note, a b 75, a 78, a 93, b 97, b 98; (Electrolysis), a 107; (Energy), b 188, b 190–1; (Evolution), b 674; (Heat), XI, *b* 495, note; (Hydromechanics), XII, a b 455, note, b 458, a 462, b 479; (Light), XIV, b 582, a 604, b 616, b 618; (Lightning Conductor), a 641; (Magnetism), XV, b 231, a 269, a 276, a b 278, *a* b 279; (Optics), XVII, a b 825; (Ozone), XVIII, b 117; (Physical Sciences), XIX, a 5, note; (Pneumatics), b 259–61; (Radiation), XX, b 223; (Thermodynamics), XXIII, a 305, a 308; (Wave Theory), XXIV, a 444, a 449; on inertia (Mechanics), XV, b 756–7; on reciprocal figures (Bridges), IV, b 283, a 287. See List of Contributors

Maxwell, Robert, author (Agriculture), I, a b 269
——, W. E., traveller (Malays), XV, *a b* 328
MAXWELL, Sir William Stirling, littérateur, XV, a b 654
Maxwell's Galvanometer (Ill.) X, a 48
MAY, month, XV, b 654; (Calendar), IV, b 590, b 591; (Suicide), XXII, *a* 665; calendar for British Horticulture, XII, a b 304; for American Horticulture, a 307; games (Morris-Dance), XVI, b 873. See May-Day
May, Cornelius Jacobsen, captain (New Jersey), XVII, a 403; (New York), b 466
——, Thomas, author (Lucan), XV, a 39
——, Sir Thomas Erskine, historian (Peerage), XVIII, b 477. See List of Contributors
Māyā, divine agency (Hindustani Literature), XI, a 754
Maya, country (Yucatan), XXIV, a 796, note
—— alphabet (America), I, b 614; Dictionaries, VII, a 168
—— race (America), I, *a* 618; (Merida), XVI, b 41; (Mexico), a 215, b 216, a 222, b 298; (Religions), XX, *b* 376–7; (Yucatan), XXIV, a b 796–8. See Maya-Quiché
Mayadeæ, family (Grasses), XI, a 52
Mayaguez, town (Porto Rico), XIX, b 547
Mayans y Siscar, Gregorio, classicist (Spain), XXII, b 374
Mayapan town (America), I, *a* 618, b 619; (Yucatan), XXIV, b 796
May apple (Podophyllin), XIX, a 267
Máyapur, town (Hardwár), XI, a 425
Maya-Quiché language (Yucatan), XXIV, b 797; race (Indians), XII, b 865, a 868. See Maya
"Mayás," lagoons (Nile), XVII, a 519
Mayavaram, town (Tanjore), XXIII, a 52
MAYBOLE, town, XV, b 654–5
Mayborough cromlech (Rude Stone Monuments), XXI, b 57
Mayda or Asmaide, island (Brazil, Island of), IV, *a* 216
May-Day (Poole), XIX, b 175
May day festival (Shakespeare), XXI, a b 786. See May
Mayence, city. See MAINZ
MAYENNE, department, XV, a b 655; city, b 655; river, a 655; (France), IX, a 446, b 457; (Laval), XIV, b 351; (Maine-et-Loire), XV, *b* 305
——, Charles, duke of (France), IX, *b* 496, *a b* 497; (Guise), XI, b 236, a 237
Mayer, Constance, painter (Prud'hon), XX, *b* 5
——, Johann Friedrich, divine (Fabricius, J. A.) VIII, *a* 737
MAYER, Johann Tobias, astronomer, XV, b 655–6; (Astronomy), II, b 664, b 699, b 717; (Magnetism), XV, a 238; (Navigation), XVII, *b* 266, a b 267, note; (Trigonometry, XXIII, b 597; his formula (Transit Circle), XXIII, a 549
MAYER, Julius Robert, physicist, XV, a b 656; (Energy), VIII, b 189
—— or Marius, Simon, astronomer (Telescope), XXIII, b 147
Mayer's refining process (Oils), XVII, a b 764
Mayfair, district (London), XIV, a 830, a 833; market (London), b 837
"Mayflower," cutter (Yachting), XXIV, a 760
"Mayflower," ship (Massachusetts), XV, a 622; (United States), XXIII, b 777
—— pattern (Pottery and Porcelain), XIX, a 660
May-fly, insect (Ephemeridæ), VIII, b 407; (Insect), XIII, a b 148
MAYHEM, crime, XV, b 656
Mayhew, family, missionaries (Massachusetts), XV, a 618
May-hill sandstones (Geology), X, a 296
MAYKOP, town, XV, b 656
Maynard, Simon, mathematician (Tables), XXIII, a b 18
MAYNOOTH, village, XV, b 656; college (Ireland), XIII, *b* 246–7; (Libraries), XIV, a 523, b 545
MAYO, county, XV, b 656–7; earldom (Ireland), XIII, b 266
——, Johann, painter (Beard), III, b 400
——, Richard Southwell Bourke, earl of (Andaman Islands), II, a 14; (India), XII, a 851; (Lushai Hills), XV, a 71
——, Theobald Burke, lord (Castlebar), V, b 173
—— Kebbi, river (Niger), XVII, b 510; (Soudan), XXII, b 290
Mayon, volcano (Philippine Islands), XVIII, a 763
Mayor (Municipality), XVII, b 33, *a* b 34, a 36. See Maire
——, procession of Lord (Rowling), XXI, b 35
——, John E. B., critic (Richard of Cirencester), XX, b 557, a 558
—— of the palace (Chamberlain), V, b 329; (France), IX, b 468
Mayor of Queensborough, tragedy (Middleton), XVI, a 295
Mayotta, island (Comores), VI, *b* 196
Mayow, John, physician (Chemistry), V, b 399
Maypole. See MAY
Maypures cataracts (Orinoco), XVII, a 868
Mayr, Georg, statistician (Statistics), XXII, b 480, a 481, a 484
MAYSVILLE, city, XV, b 657
Ma Yuen, general (Toug-King), XXIII, b 468
Mazaca, town (Cappadocia), V, b 67
Mazagan, town (Morocco), XVI, b 857
MAZAMET, town, XV, b 657; (Tarn), XXIII, b 71
MAZANDARÁN, province, XV, a b 658
MAZARIN, Jules or Giulio, cardinal, XV, b 658–60; (Arnauld), II, b 542; (Balance of Power), III, a 232; (Christina), V, a 611; (Colbert), VI, *b* 110; (Condé), *a b* 219, *a b* 220; (Descartes), VII, a 102; (Fox, C. J.), IX, b 440; (France), b 501, a 502, *a* 503, a 504–5; (Louvois), XV, *b* 28; (Molière), XVI, b 649; (Montpensier), a b 819; (Naudé), XVII, *a* 255; (Paris), XVIII, b 297; (Portugal), XIX, b 563, *a* 564; (Spain), XXII, *b* 346, a 347; (Turenne), XXIII, b 666
Mazarinades (Pamphlets), XVIII, a b 210
Mazarin Bible (Bibliography), III, a 565, note; (Fust), IX, b 750; (Typography), XXIII, a 728 note
—— library, Paris (Libraries), XIV, b 524
Mazâr-i-Sharîf, shrine (Afghânistân), I, a 218
Mazarron, port (Murcia), XVII, a b 58
Mazaruni river (Guiana), XI, a 222
MAZATLAN, city, XV, b 660; (Mexico), XVI, b 904, b 905
Mazdaism, religion. See ZOROASTER
Mazdak, socialist (Persia), XVIII, a 622, a 623
Maze in gardening (Labyrinth) (Ill.), XIV, a 181–2
Mazeo Garh, mountain (Kohát), XIV, b 136
MAZEPPA, Ivan Stephanovitch, hetmann, XV, b 660; (Charles XII.), V, a 365; (Cossacks), VI, *a* 397; (Galatz), X, b 20; rebellion of (Lebedin), XIV, a 396
Mazer-wood (Gutta-Percha), XI, a 302 note
Mazo, Bautista del, painter (Velasquez), XXIV, b 144, a 147, a 148
——, Tiburzio de (Pius II.), XIX, a 163
Mazovia, province (Warsaw), XXIV, a b 396, b 397
Mazuranic, Ivan, poet (Servia), XXI, a 724
Mazurs, people (Poland), XIX, a 321
MAZZARA DEL VALLO, city, XV, b 660–1
MAZZINI, Giuseppe, patriot, XV, a 661–3; (Italy), XIII, a b 497, a b 498, a b 499, b 500, a 501; (Lugano), XV, b 61; (Post-Office), XIX, *a* 585; (Rome), XX, a 824
Mazzola, Francesco Maria, painter (Parmigiano), XVIII, a 323
——, Girolamo di Michele (Parmigiano), XVIII, a 324
—— or Mazzuoli, family, painters (Schools of Painting), XXI, a 463
Mazzuchelli, Giovanni Maria, Count, biographer (Italy), XIII, a 522
Mbokwa river (Gaboon), X, *b* 4
Meacham, Joseph, sectary (Shakers), XXI, b 773
Mead, drink (Heath), XI, a 527; (Honey), XII, a 141
——, Mary, wife of Wilkes, XXIV, a 598
MEAD, Richard, physician, XV, a b 663; (Medicine), *a* b 821; (Pitcairne), XIX, a b 142; (Plague), b 176
——, William, Quaker (Penn), XVIII, b 503–4
MEADE, George Gordon, general, XXIII, a 839; (United States), a 827; (Battle), III, *a* 384
——, R.H., naturalist (Arachnida), II, b 244 note, b 259
Meadow grass (Agriculture), I, b 332–3, b 336–7
Meadow-Lark (Icterus), XII, a 736
Meadows, water (Agriculture), I, b 331; (Irrigation), XIII, b 372–9
Meadows of Gold (Mas'údy), XV, *a b* 630, note
Meadow-saffron, plant (Colchicum), VI, b 113
Meadow-sweet or spiræa (Botany) (Ill.), IV, a b 128
Meadow valley mine (United States), XXIII, a 868
MEADVILLE, city, XV, b 663
Meagher's camera (Photography) (Ill.), XVIII, a 854
Meagre, fish (Yellow-Tail), XXIV, a 775
Meallies, grain (Natal), XVII, a 247
Meals (Adulteration), I, b 155. See DIETETICS
Meal-worm (Coleoptera), VI, a 116, b 120
Mealy Mountains (Labrador), XIV, b 176; (Quebec), XX, b 171
Meanee, battle of, 1843 (Napier), XVII, a b 183
Mean establishment (Tides), XXIII, b 393, *a* 394
Mean Pressure of the Atmosphere, Buchan's, III, b 26
Means or averages (Statistics), XXII, b 482; mathematical (Pappus), XVIII, b 234
Means of grace (Christianity), V, *b* 599
Meaou-tsze, tribe. See MIAUTSE
Mearns, county (Kincardine), XIV, b 80–1
Mearroch, Mount (Kirkcudbright), XIV, a 99
MEASLES, XV, b 663–5; (Medicine), a 815; (Pathology), XVIII, a 414; (Surgery), XXII, b 714
—— of beef or pork (Tapeworms) (Ill.), XXIII, a 57; (Veterinary Science), XXIV, a 223
Measure in Arithmetic, II, a 464
—— in Music, XVII, a b 89; (Pianoforte), XIX, a b 73
Measure for Measure (Drama), VII, a 370; (Giraldi), X, b 553; (Shakespeare), XXI, *b* 800, a 805, a 806

- MEASUREMENT, XV, b 665–75
  - annual parallax, b 670-1
  - Cayley's theory, b 671–4
  - Clifford's theorem, b 674
  - co-ordinates, a b 667–8
  - curvature of space, a b 666
  - field measurement, a 667
  - flat or homaloidal surfaces, b 670-1
  - geodesics, b 665–7
  - Helmholtz's investigation, a 668–71
  - Newcomb's theory, a b 671
  - Riemann's theory, b 666, b 670
  - triangles, b 670–1
  - units, b 674–5
  - See GEODESY, MENSURATION, SURVEYING, TRIGONOMETRY

- —— (Dimensions), VII, a b 210; (Drawing), a 389; standards of (Dynamics), a 504
- —— of angles (Surveying), XXII, b 734–5; (Trigonometry), XXIII, a b 598; of heights (Barometer), III, a 332–4; of spheres (Spherometer), XXII, b 412–3; of strain and stress (Elasticity), VII, a b 713
- Measurements, Magnetic, XV, b 238–44; (Telegraph), XXIII, a 124–6
- Measure of a force (Mechanics), XV, b 706, b 708, a 709; of mass (Mechanics), a 709; of shear (Mechanics), a 702
- —— of values (Money), XVI, b 746, a 747
- Measures. See WEIGHTS AND MEASURES
- Measuring machines (Machine Tools), XV, b 158; machines (Mechanics), XV, b 781
- Meat (Dietetics), VII, a b 175, a 176, b 179; poisonous (Medical Jurisprudence), XV, a b 792
- Meatæ, tribe (Scotland), XXI, b 494
- Meat biscuit (Preserved Food), XIX, a 727; fly (House-Fly), XII, a 331; industries (Patents), XVIII, b 881; markets (London), XIV, b 837–8; powder (Preserved Food), XIX, a 727; trade (Preserved Food), a b 728
- MEATH, county, XV, a 675–6; kingdom (Ireland), XIII, a b 250, b 265; (Westmeath), XXIV, b 541
- MEAUX, town, XV, a 676
- Mebarrez, town (Arabia), II, a 222
- *Mécanique Analytique* (Lagrange), XIV, a 209, a b 210; (Mechanics), XV, a b 757
- —— *Céleste*, Laplace (Hamilton, Sir W. R.), XI, a 377; (Laplace), XIV, b 301, a b 302, a b 303, b 304; (Somerville), XXII, a 274; (Tides), XXIII, a 378, b 380, b 394
- Mecara, town (Phœnicia), XVIII, b 819
- Mecarino, painter. See BECCAFUMI
- MECCA (Ill.), XV, a 676–82
  - early commerce, b 676–7
  - literature, b 682
  - Mohammedan changes, a b 677
  - mosque (Ill.), a 679–81
  - physical features, a b 676, b 677–8
  - pilgrimage and ceremonies, a b 681–2
  - political position, b 678–9
  - population, character of, a b 678
  - Safá and Merwa hills, b 680
  - wells, a b 680

- —— (Arabia), II, a 206, a 214, a 217, *b* 223, *a b* 228, a 229; (Mohammedanism), XVI, b 568, a 569, b 572, b 576, a b 578, b 581, a b 582, b 591, a 593-4, b 602, a 609; Balsam, III, a 253; histories of (Tabarí), XXIII, *a* 7; pilgrimage (Jiddah), XIII, *b* 702, *a* 703; (Pilgrimage), XIX, b 101; (Quarantine), XX, b 161-2; trade and religion of (Palmyra), XVIII, a b 203, b 206
- Meccan súras in Koran (Mohammedanism), XVI, a b 624
- Mechain, Pierre François André, astronomer (Earth), VII, a b 517
- Mecham, Frederick, explorer (Geography), X, *b* 174
- Mechanical action of air (Geology), X, b 235–6, a b 253; of rain (Geology), b 238; of rivers (Geology), b 243–7; of sea (Geology), b 252–5; of subterranean water (Geology), a b 241
- —— Arts, II, b 558; (Fine Arts), IX, a b 172, a 173
- —— effects of explosion (Gunpowder), XI, b 287–8
- —— equivalent of heat (Energy), VIII, a b 189; (Mechanics), XV, b 777, a 784
- —— Gilding, X, b 530; mines (Torpedo), XXIII, b 477, b 478
- —— nature of Descartes's system (Cartesianism), V, a b 129; philosophy (Hobbes), XII, a 42. See Mechanism
- —— plays (Marionettes), XV, a 554
- —— school of Medicine, XV, a 820
- —— strain (Magnetism), XV, a 271, notes
- —— theory of Evolution, VIII, a b 660; of figure of Earth, VII, b 518–20
- —— tricks (Magic), XV, a b 210
- MECHANICS, XV, a 683–784
  - analysis of theoretic, a b 758
  - APPLIED MECHANICS, a 758–84
    - machines, theory of, b 760–84
    - aggregate combinations, a 772–4
    - animal strength, a b 783
    - applications of force, a 774–5
    - balanced forces of uniform velocity, a 774-8

- MECHANICS, *continued*
  - APPLIED MECHANICS
    - cams and screws, a b 769
    - connectors, b 769-71
    - couples of force, a b 775
    - definitions and applications, elementary, b 763–4
    - definitions and divisions, b 760-1
    - deflecting forces, a 778–9
    - elementary combinations, b 763–71
    - fluid, motion of surface, b 761
    - friction and unguents, b 775–8
    - heat, efficiency of, b 783–4
    - linkwork, b 770–1
    - liquids and fluids, strength of, b 783
    - point, motion of, b 761
    - prime movers, effects of, b 782–4
    - pure mechanisms, a 761–74
    - purposes and effects of machines, a 781–2
    - reciprocating forces, a 778
    - rigid solid, motion of, a 762–3
    - sliding contact, b 765–7
    - speed cones, a b 770
    - teeth, forms of, a 767–9
    - trains, b 771–2
    - varying velocity machines, a 779–81
    - wheels and bevels, a b 765
    - wheels and racks, a 764–5
    - structures, theory of, a 758—60
  - DYNAMICS OF ELASTIC SOLID, a 751–4
    - plank, flexure and torsion of, a 752–3
    - spheres and cylinders, torsions of, a 753–4
    - wire, flexure and torsion of, a 751–2
  - DYNAMICS of a particle, b 705–36
    - action, a 731–4
    - characteristic function, a b 732
    - graphic method, b 733-4
    - plane currents, a b 733
    - planetary motion, b 732–3
  - definitions, b 705–8
  - force, laws of, a 706–7
  - friction, b 709, b 710–1
  - generalized coördinates, b 734–6
  - impact, b 727–9
    - infinitesimal, a 729
    - rocket, a 729
    - smooth spheres, b 727–9
  - Kinetics, b 711–27
    - Atwood's machine, b 724
    - Brachistochrone, b 717–8
    - chain shot, a b 725

- MECHANICS, *continued*
  - DYNAMICS
    - conservation of energy, b 724–5
    - cycloid motion, resisted pendulum, b 713–4
    - disturbed motion, b 721–3
    - free particles, system of, b 726–7
    - frictional dissipation, a b 724
    - Kepler's laws, a 716–7
    - meteorite and hailstone, a b 712
    - Newton on third law, a b 724
    - one degree of freedom, b 711–4
    - particle generally, a 718–23
    - pendulum, Blackburn's, a b 719
    - pendulum, Complex, b 725–6
    - pendulum, Foucault's, b 719–20
    - pendulum, simple, b 712–3
    - planetary motion, a 715–7
    - projectile path, a b 714
    - smooth surface, motion on, a 718–9
    - third law, a 723–6
    - two degrees of freedom, a 714–7
    - varying constraint, b 720–1
  - laws of motion, comments on first two, b 708–9
  - momentum, a 706
  - physical particle defined, b 706-7
  - statics of particle, b 709-11
  - system of particles generally, a 729–31
    - equilibrium in, a 730
    - general equation, a 730–1
  - work, force translation, b 707–8
  - FLEXIBLE AND ELASTIC BODIES, b 746–54
    - kinetics of, a 749–51
      - musical strings, b 749-51
      - wave motions, a b 749
    - statics of a chain, b 746-9
      - catenary, a 747-9
  - GENERAL CONSIDERATIONS, b 755–7
    - force, a 755–6
  - introductory, a 683
  - kinetic energy, b 756–7
    - transformation of energy, a 756–7
  - KINEMATICS, a 685–705
    - acceleration, a 689–92
    - analysis of central acceleration, a 691-2
    - analytical theory of strains, a 702–4
    - circular motions, composition of, a b 696
    - composition of harmonic motions, a 694–7
    - continuity of path of point, a b 686
    - deformable figure, b 701-5

- MECHANICS, *continued*
  - KINEMATICS
    - elliptic motion, central, b 692-7
    - evolute and involute, b 686-7
    - Fourier's theorem, a b 696
    - harmonic motion, a 693-7
    - heterogeneous strain, b 704-5
    - homogeneous strain, b 700-4
    - jointed system of rigid figures, a b 705
    - Peaucellier cell, b 705
    - planetary motion, a b 692
    - point in motion, a 686-97
    - position and assignment of, a 685-6
    - projectile, path of, a b 690
    - relative motion, a b 697
    - resisted harmonic motion, b 696-7
    - rigid figure, b 698-700
    - rigid plane figure, displaced in its plane, b 697-8
    - shear, b 701-2
    - speed, a 687-8
    - strain, b 700-5
    - tides, a b 694
    - velocity, a 688-92
  - Newton's laws of motion, a 683-5
    - comments on, b 683-5
  - RIGID SOLID, a 736-46
    - kinetics of, a 740-6
      - Atwood's machine, b 741
      - ballistic pendulum, a 743
      - impulse required for given motion, a 743-5
      - inertia, moment and axes of, b 740-1
      - pendulum, compound and complex, b 741-2
      - pendulum, gyroscopic, a b 747
      - Poinsot's rolling ellipsoid, b 745
      - rotation of rigid solid, a b 470
      - shells, rolling hollow, b 742
    - Statics of, a 736-40
      - equilibrium conditions of, a b 736
      - examples and theorem, a 739-40
      - Minding's theorem, a 738-9
      - reduction to couple and force, b 736-8
  - Treatises, a b 757

—— (Dynamics), VII, b 502-4; (Galileo), X, b 32-3; (Lagrange), XIV, a 209, b 210, a 211

Mechanics' Institutes (Birkbeck), III, a 676; (Leeds), XIV, a 409

—— Lien, XIV, b 573

Mechanicsville, battle (Jackson, T. J.), XIII, b 544

Mechanism, in philosophy (Lotze), XV, b 14; in psychology (Herbart), XI, b 643

—— of plant movement (Physiology), XIX, b 70-1

Mechi, John Joseph, agriculturist (Agriculture), I, b 272, a 335

MECHITHARISTS, Armenian monks, XV, a b 784; (Roman Catholic Church), XX, a 647

MECHLIN or Malines, city, XV, b 784-5; Lace (Ill.), XIV, a b 189

Mechs, tribe (Dárjíling), VI, a 728

Mechthild of Madgeburg, mystic (Mysticism), XVII, b 139

Mecistogaster, insect (Dragon-fly), VII, b 336

Meckel, Johann Friedrich, anatomist (Amphibia), I, b 657; (Anatomy), a 714, a b 715, a 716; (Evolution), VIII, *a* 657; (Zoology), XXIV, a 847

Meckel's cartilage (Amphibia) (Ill.), I, a b 662, b 663, *a* 664, a 665, *b* 666; (Anatomy), a 729; ganglion (Anatomy), b 774

MECKLENBURG, country, XV, a 785-7; (Wallenstein), XXIV, b 349

—— dolmens (Rude Stone Monuments), XXI, a 58

—— Resolutions (North Carolina), XVII, b 575

MECKLENBURG-SCHWERIN, grand duchy, XV, a b 785-6; (Güstrow), XI, a 300

MECKLENBURG-STRELITZ, grand-duchy, XV, a 785-6

Mecodonta (Amphibia), I, a 667, b 676

Meconic acid (Chemistry), V, b 495

Meconium, drug. See OPIUM

Mecznikow, naturalist (Protozoa), XIX, a 857

Medallion portraits (Tassie), XXIII, b 81; powdering (Japan), XIII, a b 601; reliefs (Robbia), XX, *b* 605, a 606, b 607, a 608; (Wax Figures), XXIV, *b* 486

Medallists, Italian (Numismatics), XVII, a 676

Medals (Andrieu), II, b 21; (Cellini), V, *b* 255; (Charpentier), a 373; (Mint), XVI, b 514; (Navy), XVII, a 307; (Nîmes), a 524; (Numismatics), b 644, a 645, a b 673, a b 674, *a b* 675, a b 676, a 680; (Royal Society), XXI, a 45; (Simon, A. and T.), XXII, a 89, b 90

Medals, Dialogues on (Addison), I, a 135

"Medanos," Sand-hills (Peru), XVIII, b 683

Medb or Queen Mab (Celtic Literature), V, a *b* 269, *a* 270, a 279

Mede, Joseph, theologian (Zechariah), XXIV, a 813 note

MEDEA, myth, XV, a b 787; (Argonauts), II, a b 437; (Corinth), VI, a 354; (Pelias), XVIII, b 485; (Theseus), XXIII, a 315; mediæval legend of (Romance), XX, b 655

Medea, tragedy (Euripides), VIII, a b 592

——, tragedy (Grillparzer), XI, a 175, a 176

——, tragedy (Ovid), XVIII, b 83, a 86

Médée, opera (Cherubini), V, *b* 510

——, tragedy (Corneille), VI, a 370, b 372

Medeenet-el-Feiyoom, town (Egypt), VII, b 671

Medeenet-Haboo, temples of (Egypt), VII, b 673, b 676-7

MEDELLIN, town, XV, b 787

Medes, race (Berosus), III, *a* 525; (Persia), XVIII, a b 573-6. See Media

MEDFORD, town, XV, b 787-8

Medhátithi, commentator (Sanskrit), XXI, a 302

MEDHURST, Walter Henry, missionary, XV, a 788

Media, country (Babylonia), III, b 160; (Cyrus, Elder), VI, a 664; (Inscriptions), XIII, b 120; (Persia), XVIII, a 573-6

Mediæval Abbreviations, I, a 33; Agriculture, b 261-2

—— Architecture (Plates XVIII-XX), II, a 372-82; (Mural Decoration) (Ill.), XVII, b 50, b 51, a b 53; use of color in (Architecture), II, b 398

—— art (Carving), V, a b 147; (Drawing), VII, a 388; (Glass), X, a b 599; (Mural Decoration), XVII, a 50-3, a b 54; (Roland), XX, b 642; (Schools of Painting), XXI, a 451, a 468; (Sculpture), b 583, b 584-6, b 588-9, a b 591-2, a b 593, a b 594-5; (Tempera), XXIII, b 173-4; (Terra-Cotta) (Ill.), a 211-2

—— Baths, III, a 378; Bells, a b 463, a 464

—— Building, joints in (Ill.), IV, a 437, a 438; masonry, a b 420; (Freemasonry), IX, b 657-8; mouldings (Building) (Ill.), IV, a 424, b 436, a 437; vaulting (Ill.), b 425

—— charters (Municipalities), XVII, a 35; coins (Numismatics), XVII, a 646, b 672-7

—— Drama, VII, a 357-60; (English Literature), VIII, a b 371; (France), IX, b 567-8; (Germany), X, a 471; (Hrosvitha), XII, a 340-1; (Italy), XIII, a 511, a b 513, a b 516

—— Dyeing, VII, b 493; Education, b 582-3; (Frederick II., Emperor), IX, a 644

—— Embroidery, VIII, a 149; Emperors, a 165

—— Ethics, VIII, a 518-24; Fables, a b 734

—— Glass, X, a b 582; Guilds, XI, a b 231; guns (Gunnery), b 272

—— Hebrew (Semitic Languages), XXI, a 678; Hymns, XII, a 617-9; industry (Socialism), XXII, b 223; inventions (Alchemy), I, a 407; Jewellery, XIII, b 687-8

—— learning (Rhetoric), XX, b 529-30; (Scholasticism), XXI, a 435-6, a b 437, b 443-4, a 445; legislation (Sumptuary Laws), XXII, a b 678; Libraries, XIV, b 511-4

—— literature (Ducange), VII, b 435; (Hildebert), XI, b 727; (Isidorus Hispalensis), XIII, a 397; (Italy), a 509-16; (Renaissance), XX, a b 395; (Spain), XXII, a 367-70; (Sweden), a 792

—— manuscripts (Illumination), XII, b 745, a b 746, a b 747; (Palæography), XVIII, b 52, a b 155, b 159-66

—— Maps, XV, b 524-5

—— Medicine, XV, b 815-8

—— music (Palestrina), XVIII, b 183-4; Pilgrimages, XIX, b 603-4; Piracy, a 126; Plate, b 193-4, b 198

—— Political Economy, XIX, a 364-6; republics (San Marino), XXI, b 279-80

MEDIÆVAL ROMANCE, XX, b 657-76

—— Ships, XXI, a b 845; Slavery, XXII, b 137, a b 145; superstitions (Demonology), VII, a b 55; Surgery, XXII, a 710

—— survival (Andorre), II, a b 18

—— theology (Scholasticism), XXI, b 435-6, a 439, b 443; (Theism), XXIII, a 260-1, note

—— trade (Commerce), VI, a 179; (Protection), XIX, a 936

—— Universities, XXIII, a 887-900

—— Zoology, XXIV, b 838 note, a 839, b 842, a 854, b 858; (Physiologus), XIX, b 9-11

Media in Vita (Hymns), XII, a 618

Median apple, fruit (Orange), XVII, b 834

—— empire (Persia), XVIII, b 573-6. See Medes and Media; fire (Greek Fire), XI, b 142

Median line (Geometry), X, b 350; nerve (Anatomy), I, b 762; vein (Anatomy), b 795

—— wall (Mesopotamia), XVI, a 52, a 56

Mediate nobles (Germany), X, b 436, a b 437

Mediation, Act of, 1803 (Switzerland), XXII, a b 832

——, sacerdotal (Priest), XIX, b 745-6, a 749

—— school of theology (Lücke), XV, a 50

Mediatorial salvation (Heresy), XI, a b 656, b 658; (Paul), XVIII, a 435-6; (Schleiermacher), XXI, a 431

Medical Commentaries (Hunter, W.), XII, a 408

Medical council (Medicine), XV, *b* 808-9; department of British Army, II, b 510-2

—— education (Hamburg), XI, b 362; (Homœopathy), XII, a b 131; (Paracelsus), XVIII, b 238-9; (Syme), XXII, b 849; American (Universities), XXIII, a b 961, a b 963

—— examination (Insurance), XIII, a 181; field companions (Ambulance), I, a 587

MEDICAL JURISPRUDENCE, XV, a 788-94
  atrophy, b 791
  development of human frame, a b 788
  duration of life, b 788
  history, a 793-4
  identity, b 738-9
  injuries to person, b 790-3
  insanity, a b 790
  marriage, a 789
  monsters and hermaphrodites, b 789-90
  parturition, b 789
  poisonous food, a 792-3
  pregnancy, a b 789
  women, crimes against, b 790
  wounds, b 791-2
—— (Phosphorus), XVIII, b 829; (Prussic Acid), XX, b 29
—— licenses, British (Apothecary), II, a b 174; Periodicals, XVIII, b 552; profession (Government), XI, b 18; (Medicine), XV, b 808-9
—— schools (Cincinnati), V, b 685; (Lahore), XIV, a b 213; (London), a 845; (Paris), XVIII, a b 286; of Vienna (Rokitansky), XX, a 640
—— statistics (Russia), XXI, a b 89
—— and Surgical Societies, XXII, a b 238
—— treatment. See Therapeutics
—— works of Bar Hebræus (Syriac Literature), XXII, b 898-9
Medicated Baths, III, a 380
—— Soap, XXII, b 215
Medication, Hindu (Surgery), XXII, b 707-8
Medicean Stars (Astronomy), II, b 658; (Galileo), X, *a* 30
Mediceo-Laurenziana, Biblioteca, Florence (Libraries), XIV, a 514, a 530; (Michel Angelo), XVI, a 242
MEDICI, family, XV, a 794-804
  Albizzi party, a 794-5
  Alessandro, duke, b 798-9
  Clement VII., pope, b 797-8
  Cosimo I., b 799-800
    II., b 802
    III., a b 803
    the Elder, b 794-5
  early members, a 794
  Ferdinand I., a 802
  Francesco I., a b 801
  genealogy, 804
  Giovan Gastone, b 803
  Giovanni delle Bande Nere, a 798
  grand-duke, title, a 801
  Leo X., pope, a b 797
  literature and art, b 796-7
  Lorenzino dei Medici, a b 799
  Lorenzo the Magnificent, a 796-7
  magistracies, b 795, b 796
  Piero the Gouty, b 795
  Pietro, a 797
—— (Florence), IX, a b 293-4; (Guicciardini), XI, a b 227; (Italy), XIII, *b* 489-90, a 491, a b 492, b 517, a b 518; (Jovius), *b* 766; (Leghorn), XIV, a 417; (Machiavelli), XV, b 149, a 151-2; statues of (Michel Angelo), XVI, b 241-2
——, Alessandro de', duke, XV, b 797, b 798-9; (Berni), III, a 522; (Guicciardini), XI, b 227
——, Alessandro de'. See LEO XI., Pope
——, Caterina dei, XV, b 797
——, Catharine de', queen, XV, b 797; (Condé I.), VI, a b 218; (France), IX, a 491, b 492, a 494, a b 495; (Henry II.), XI, a 597; (Mary Stuart), XV, a b 601, b 606; (Paris), XVIII, b 296
——, Cosimo de', I., ruler, XV, b 799-800; (Donatello), VII, b 310; (Ficino, M.), IX, *b* 121, *b* 122; (Filelfo, F.), a 142; (Italy), XIII, b 489-90, b 517; (Michelozzi), XVI, a 246; (Pisa), XIX, b 130; (Siena), XXII, *a b* 48
——, Cosimo II., de', grand duke, XV, b 802; (Galileo), X, *a* 30; (Guicciardini), XI, b 227; (Tuscany), XXIII, a 713
——, Ferdinand II., ruler, XV, b 802, a 803
——, Ferdinand de', son of Cosimo III., XV, b 803; (Pianoforte), XIX, b 78
——, Francesco de', duke of Tuscany, XV, a b 801; (Socinus), XXII, *a* b 242
——, Giacomo (Milan), XVI, b 303
——, Giovanni Angelo. See PIUS IV., Pope
——, Giovanni de'. See LEO X., XIV, a 450-2
——, Giovanni de', bastard (Galileo), X, a 29
——, Giuliano, *b.* 1453, XV, a 796
——, Giuliano de', duke of Nemours, XV, a b 797; (Machiavelli), XV, a b 151
——, Giulio dei. See CLEMENT VII., Pope
——, Isabella de', princess (Socinus), XXII, *a* 242
——, Ippolito dei, XV, b 797, a b 798
——, Lorenzo de', the Magnificent, prince, XV, a 796-7; (Drama), VII, b 360; (Ficino, M.), IX, *a b* 122; (Fiesole), a 130; (Florence), b 293; (Italy), XIII, b 488, a 491, *a* b 517, *a* b 518; (Michel Angelo), XVI, a 238; (Miniature), b 459; (Pisa), XIX, *b* 130; (Renaissance), XX, b 397; (Sangallo), XXI, *b* 277; (Savonarola), XXI, *b* 349, *a* b 350; (Universities), XXIII, a 893; *Life of* (Roscoe), XX, a 872
——, Lorenzo, duke of Urbino, XV, a 797
——, Mary de' queen (France), IX, b 498, b 499; (Paris), XVIII, b 297
——, Piero de', prince, XV, b 790; (Michel Angelo), XVI, a 238; (Savonarola), XXI, *b* 350, *a* 351, a b 352
——, Salvestro dei, XV, a 794
—— ware (Pottery and Porcelain), XIX, a 656
Medicinal earth (Lemnos), XIV, a 437; springs (Geology), X, b 240; (Mineral Waters), XVI, a 450-6
MEDICINE, XV, a 804-26
  literature, b 826
  SYNOPTICAL VIEW, a a 804-9
    art and discipline, b 806-7
    disease, theory of, a 805-6
    laws, health, a b 808
    Medical Acts, b 808-9
    political relations, a 807-9
    profession, not British, a b 809
    remedies, theory of, b 806
    scientific position of, a 804-5
    United States laws of health, a 808
  HISTORY, b 809-26
    Alexandrian school, a 811-2
    Arabian, a 814-5
    Boerhaave, b 821
    Byzantine age, a b 814
    Cullen and Brown, b 822-3
    18th century, a 821-4
    English modern school, b 825-6
    French positive school, a b 825
    Galen, a 813-4
    German modern school, a b 826
    Greek school, a 810-1
    Hahnemann, b 823-4
    Haller and Morgagni, a b 822
    Hippocratic school, a 810-1
    Hoffmann and Stahl, b 821-2
    Homeric poems, a 809-10
    iatro-physical and chemical schools, a b 820
    19th century, b 824-6
    Paracelsus and chemical school, a b 818
    revival of ancient school, b 818-9
    Roman school, a 812-4
    Salerno, school of, b 815-6
    scholastic period, b 816-8
    scientific gains in 18th century, a b 824
    17th century, a 819-20
    Sydenham and Locke, b 820-1
    Van Helmont, b 819
—— (Academy), I, b 74-5; (Anæsthesia), b 693; (Arabia), II, a 232; (Aurelianus), III, b 75; (Auscultation), a 87-8; (Avicenna), a 134, a 135; (Boerhaave), b 742-3; (Brown, J.), IV, a 346; (Celtic Literature), V, b 271, b 280, b 284; (Cullen), VI, b 613-5; (Egypt), VII, a 626, b 629; (Etruria), VIII, b 559; (Galen), X, b 22; (Gregory), XI, b 163; (Haller), a b 354; (Hippocrates), a 761-2; (Hoffmann, F.), XII, b 48; (Homœopathy), b 129-32; (Hufeland), b 349; (Hunter, J.), b 400-7; (Hunter, W.), b 407-8; (Insanity), XIII, a b 116; (Laennec), XIV, a 201; (Linacre), b 658-9; (Lotze), XV, b 14; (Mohammedanism), XVI, a 618; (Paracelsus), XVIII, b 238-40; (Pathology), a 366-417; (Pharmacopœia), a 744-5; (Pitcairne), XIX, a b 142; (Rush), XXI, b 68-9; (Shakespeare), a 806; (Sydenham), XXII, a 844-5
——, Egyptian (Magic), XV, a 202
—— forensic, history of (Medical Jurisprudence), XV, a 793-4
——, Hindu (Sanskrit), XXI, b 308-9
Medicine, History of (Good), X, b 688
——, iatro-mechanical (Descartes), VII, a 111
——, methodical school of (Asclepiades), II, b 593
——, Moslem (Mohammedanism), XVI, a 619
——, in 16th century (Chemistry), V, a b 398
——, rise of schools of (Universities), XXIII, a 888, *b* 889, a b 891, *a* 892, a 894
—— bag (Magic), XV, b 201
—— Bow mountains (United States), XXIII, a 846
—— men (Lhasa), XIV, a b 499; (Magic), XV, a b 201; (Mythology), XVII, a 153
Medimnus, measure (Weights and Measures), XXIV, a 510, a *b* 512, *a* 513
MEDINA, city, XV, a 826-8; (Arabia), II, *a* b 206, a *b* 228; (Mohammedanism), XVI, a 568, b 574, b 575, a 576, b 577-8, a 583, a b 584, a b 585, a b 589, b 592, a 594, b 602, a 618; (Pilgrimage), XIX, a 102
——, river (Wight), XXIV, a b 593
——, Pedro de, geographer (Navigation), XVII, a 259, b 260, a 261
—— -Celi, duke of (Cervantes), V, a 305; (Columbus), VI, a 154; (Spain), XXII, *b* 347
—— del Campo, town (Valladolid), XXIV, a 49
MEDINA SIDONIA, town, XV, b 828; (Chiclana), V, a 534
——, Enrique de Guzman, duke of (Columbus), VI, a 154; (Gibraltar), X, a 523
——, duke of, commander of the Armada, II, b 476-7
Médine, town (Senegal) XXI, *a* b 692, note, *a* 693
Mediolanum, ancient towns. See MILAN and SAINTES
——, town (Shropshire), XXI, b 887
Mediomatrica, town (Metz), XVI, a 212

Meditationes of Marcus Aurelius, III, a *b* 77, a 78
—— *Sacræ* (Gerhard, J.), X, b 398
Meditations (Buddhism), IV, b 390, a 392
Meditations (Lamartine), XIV, b 234
—— *on the First Philosophy* (Descartes), VII, *a* 104, a 106, a 107, b 109, b 110
MEDITERRANEAN SEA, XV, b 828-33
  area and boundaries, b 828-9
  comparative table of temperature, a 833
  currents, b 830-1
  depth, a b 829-30
  nature of bottom, a 833
  specific gravity, a 830
  temperature, b 831-3
—— (Atlantic Ocean), III, a 19, b 21; (Cave), V, b 233; (Climate), VI, a 8; (Corals), *a* 344; (Distribution), VII, b 241, a 242, a 243, a 244; (Geology), X, b 254; (Map), XV, a 524; (Meteorology), XVI, a 146; (Tides), XXIII, a 376; chart of (Map) (Ill.), XV, 526; fauna (Ichthyology), XII, b 607, a 671, a 717; fishery (Tunny), XXIII, b 665-6; supremacy in (War), XXIV, a 335; winds (Navigation), XVII, b 283
—— sub-region (Birds), III, b 655; (Distribution), VII, b 234-5
Mediterraneo - Caucasian flora (Distribution), VII, a b 251
Meditrinalia, festival (October), XVII, a 743
Mediums, spiritualistic (Apparitions), II, b 181, a 182 note; (Spiritualism), XXII, a b 420
MEDLAR, tree and fruit, XV, a 833; (Botany), IV, a 135, a b 138; (Horticulture), XII, b 281
Medlock processes (Coal Tar Colors), XVIII, a b 902
MEDOC, district, XV, a b 833; (Gironde), X, b 556; (Wine), XXIV, b 636-8
Medo-Persian empire (Persia), XVIII, a 576-93
Medresseh, colleges (Constantinople), VI, a 274; (Ispahán), XIII, b 404
Medricen Algerine tomb (Architecture), II, b 367, note.
Meds, tribe (Jats), XIII, a 608
Medulla, marrow (Anatomy), I, b 750, a 751; development of (Physiology), XIX, a 39; oblongata (Plate XVIII), I, a 758, b 763-5; (Ape), II, b 144; (Physiology), XIX, b 41-2; puncture of (Pathology), XVIII, b 394; spinalis (Anatomy), I, a 760-1
Medullary canal (Anatomy), I, a 749, b 750, b 751; cancer (Pathology), XVIII, b 389
—— rays or plates (Botany) (Ill.), IV, b 88, a b 91-2
—— sheath (Botany) (Ill.), IV, b 88, a b 89; neural (Anatomy), I, *b* 754, *a* 755, b 757
—— stratum of Lichens (Ill.), XIV, *b* 555-6, a b 562
—— velum (Anatomy), I, b 765, a 766, a 770
Medullated nerve fibre (Anatomy), I, b 754
Medum pyramid. See Meydoom
Medura, city (Madras), XV, *b* 186
Medusa, gorgon (Ægis), I, a b 164; Gorgon, X, b 697, a 698; (Perseus), XVIII, a b 572
Medusa, Gem, X, b 125; painting (Leonardo), XIV, a 457, note
Medusæ, group of Hydrozoa (Histology) (Ill.), XII, b 6, a 7, a 8, a 9, a b 11, a 12; (Hydrozoa) (Ill.), a 583-7, *a b* 588, *b* 593, a *b* 594, *a b* 595, b 597, a 598, a 599; (Morphology), XVI, b 868, b 869, b 870, a 871; (Sex), XXI, a 756; (Smell), XXII, b 175; organs of touch in, XXIII, a 505
Medvyedista river (Russia), XXI, a 81; (Saratoff), *a* 319
Medway river (Dockyards), VII, b 270, a 271; (Kent), XIV, a *b* 39
Medwin, Thomas, captain (Shelley), XXI, b 829, a 831
—— Water (Peebles), XVIII, b 462
MEDYN, town, XV, b 833
Meeching, town (Newhaven), XVII, b 403
Meehan, Thomas, botanist (Acclimatization), I, b 82; (Sex), XXI, *a* b 758
Meek, Fielding Bradford, naturalist (Surveys), XXII, a 936, a 937, b 938
Meenard, mount (Tyrone), XXIII, b 759
MEER, Jan van der, painter, XV, b 833-4; (Hooch), XII, b 147
MEERANE, town, XV, a b 834
Meeresstille, overture (Mendelssohn), XVI, a 12
Meer Khodadad Khan (Baluchistan), III, a b 260
Meerman, Gerardus, antiquary (Typography), XXIII, a 724, b 736, a 737, b 741
Meer Nuseer Khan (Baluchistan), III, a 260
MEERSCHAUM, mineral, XV, b 834; (Eski-Shehr), VIII, b 483; (Gypsum), XI, a 314; (Mineralogy), XVI, a 432; (Pipe), XIX, b 120
MEERUT or Mirath, XV, b 834-5; (N. W. Provinces), XVII, *a b* 586, *a* 587; city, XV, b 835; mutiny (India), XII, a 849
Meester Cornelis, town (Java), XIII, b 616
Meeting-houses (Druses), VII, b 418
Meetings, disciplinary (Quakers), XX, a b 157
Megabasite (Mineralogy), XVI, a 420
Megabyzus, general (Persia), XVIII, b 585, b 586
Megacephalon (Megapode), XV, b 836-7
Megachiroptera, sub-order (Mammalia), XV, a b 412, a 413-4
Megacles, archon (Greece), XI, a b 87; (Pisistratus), XIX, b 139, *a* 140; (Sicyon), XXII, a 38
Megaderma, genus (Mammalia) (Ill.), XV, b 411, a b 416
Megæra, myth (Erinyes), VIII, a 464
Megalerg, measure (Energy), VIII, b 187
Megalichthys, genus (Ichthyology), XII, a 706, b 725
Megalithic age (Archæology), II, a 296; structures (Avebury), III, b 125; of Mazorah (Morocco), XVI, b 860. See CROMLECHS, RUDE STONE MONUMENTS
Megalonyx, fossil (Zoology, American), XXIV, *b* 926
MEGALOPOLIS, city, XV, b 835-6; (Demosthenes), VII, a 61; (Greece), XI, a 93; (Numismatics), XVII, a 660; founding of (Archæology), II, b 318
Megaloprepus, insect (Dragon-Fly), VII, b 336
Megaloptera (Insects), XIII, b 158
Megalosauridæ, family (Reptiles), XX, b 456 note
Megalosaurus, genus (Geology), X, a b 315
Megamastictora, division (Sponges), XXII, b 437
Megamorinidæ, family (Sponges), XXII, b 440
Megantic lake (Quebec), XX, *a* 172
MEGAPODE, family of birds XV, a 836-7; (Birds), III, b 660, a 662, b 668
Megaptera, genus (Mammalia), XV, a 376, b 398; (Whale), XXIV, a b 553
MEGARA, towns, XV, a b 837; (Greece), XI, a 90, a 91; (Phocion), XVIII, a 813, notes; plain (Attica), III, b 52; Hyblæa, town (Hybla), XII, b 437
Megarian philosophy (Euclid of Megara), VIII, a b 578; (Scepticism), XXI, a 396; (Socrates), XXII, *a* b 250; (Sophists), a b 283
Megaris, island (Drama), VII, a 350
Megascleres, group (Sponges) (Ill.), XXII, *a* 432-3
Megaseas, flowers (Saxifrage), XXI, a 366
Megasthenes, geographer (Caste), V, a 166; (Geography), X, b 157; (India), XII, b 819, b 824, a 826, note, *a* b 827
MEGATHERIUM, fossil (Ill.), XV, b 837-9; (Mammalia), b 387-8; (Zoology, American), XXIV, *b* 926
Mège-Mouries process (Butter), IV, b 526-7; (Oleomargarine), XVII, a 782
Megerle or Megerlin, Ulric, priest. See ABRAHAM A SANCTA CLARA
Megerlia, genus (Brachiopoda), IV, a 172, a b 173, b 176
Megget Water (Peebles), XVIII, b 462
Meghadúta, poem (Kálisáda), XIII, b 838; (Sanskrit), XXI, b 300, note
MEGHNÁ, river, XV, a b 839; (Bákarganj), III, *b* 213; (Brahmaputra), IV, *b* 190; (Ganges), X, a 62; (Noákhálí), XVII, *b* 537, a 538; (Tipperah), XXIII, a 432
Megiddo, town and battles (Egypt), VII, b 639, a 644; (Israel), XIII, a b 426; plain of (Palestine), XVIII, a 176, b 178, b 181
Megillath Antiokhos (Midrash), XVI, b 298
—— *Ta'anith* (Midrash), XVI, a 298
Megilloth (Canon), V, b 5, a 6; (Ecclesiastes), VII, a 539; (Lamentations), XIV, a b 242; (Ruth), XXI, a 119
Megistanes, order of birds (Ornithology), XVIII, a 48
Megiste, island (Numismatics), XVII, b 664
Mégnin, M. P., naturalist (Harvest Bug), XI, b 447
MEHÁDIA, town, XV, b 839
Mehemet Ali, pasha of Egypt (Abdul Medjid), I, b 35; (Alexandria), *b* 437; (Arabia), II, b 228, a 229; (Cairo), IV, a *b* 573, a 574; (Cilicia), V, a 680; (Cotton), VI, a 430; (Crete), *a* 506; (Egypt), VII, a 609, a 613, a *b* 614, b 615, b 629, a 630, a 631, b 659, a 660-5, b 666, a b 680-1; (France), IX, b 546-7; (Ibrahim Pasha), XII, a b 645; (Palmerston), XVIII, a 199; (Sunnites), XXII, b 697; (Turkey), XXIII, b 690, b 691, a 692
Mehrab Khan (Baluchistan), III, b 259-60, a 262
MEHUL, Étienne Henri, composer, XV, b 839-40; (Music), XVII, b 104, a 106
Meiakoshima islands (Lewchew Islands), XIV, b 489
MEIBOM, Heinrich, historian XV, a 840
Meibomian glands (Anatomy), I, a 782
Meier and Crafts, chemists (Iodine), XIII, b 208, *a* 209
Meikle, Andrew, inventor (Agriculture), I, a 270, *b* 289
——, James, statistician (Insurance), XIII, a 177, a 179, b 181, a 184
Meikon river. See MEKONG
Meilyr, poet (Celtic Literature), V, a 277
Meindærts, Peter John, archbishop (Episcopacy), VIII, b 436
Meineke, Johann Albrecht Friedrich August, classicist (Menander), XVI, *b* 6
Meiners, Christoph, historian (Universities), XXIII, a 889, b 914
Meinhard of Görz, counts (Rosh), XX, a 875 note; (Tyrol), XXIII, *a* 759
MEININGEN, town, XV, a b 840; (Saxe-Meiningen), XXI, a 364
Meionite (Mineralogy) (Ill.), XVI, b 429
Meir, rabbi (Mishnah), XVI, a b 527, b 528 note
—— of Rothenburg, rabbi (Mishnah), XVI, b 529-30; (Rosh), XX, b 874, note, a 875, note
Meirûn, town (Galilee), X, *b* 27

Meisenbach's photographic process (Typography), XXIII, a 750
Meisenheim, province (Hesse Homburg), XI, b 697
MEISSEN, town, XV, b 840; district (Saxony), XXI, *a b* 373, b 374; mark of (Saxony), *a b* 368, a *b* 369
——, Heinrich Von, poet (Frauenlob), IX, a 640
—— ware (Pottery and Porcelain), XIX, b 659
Meistersang (Grimm), XI, a 178, b 179
Meistersänger (Germany), X, a 471; (Hymns), XII, a 621; (Music), XVII, a 91; (Ulm), XXIII, a 768
Meistersinger von Nuremberg, opera (Wagner), XXIV, a 335, b 336
Meixner, Charitas, inamorata (Goethe), X, b 643
Méjean, causse of (Lozère), XV, a 33
Mejerda river (Tunis), XXIII, b 659, a 660
Mejillones, port (Atacama), II, a 723; (Guano), XI, a 208
Mejlis, tribunal (Baghdad), III, a 202
Mejmaá, town (Arabia), II, b 221
Mékarski air-engine (Steam-Engine), XXII, a 549; (Tramway), XXIII, b 540
Meketios, tyrant (Sicily), XXII, b 28
Mekhilto (Mishnah), XVI, a b 530
Me-klong river (Siam), XXI, a b 890, b 892; town (Siam), b 892
MEKONG, Mekhong, Meikon or Camboja, river, XV, b 840-1; (Cambodia), IV, *b* 641; (China), V, *b* 556; (Cochin China), VI, a b 86, b 87; (Siam), XXI, a b 890, a b 892
Mekram, division (Baluchistan), III, b 260, a 261
MELA, Pomponius, geographer, XV, b 841-2; (China), V, a 545; (Fairies), VIII, b 747
Melaconite, ore (Copper), VI, b 308
Melaconite (Mineralogy), XVI, a 401; (Copper), VI, b 308
Melam tribes (Tibet), XXIII, a 365
Melampodidæ, prophetic race (Neleus), XVII, a 330
Melampodium, drug (Hellebore), XI, a 568
Melampus on Physiognomy, XIX, a 8
Melanchlæni, people (Scythia), XXI, a 603
Melancholia, disease (Insanity), XIII, b 109, a b 410-12
Melancholia, painting (Dürer), VII, *b* 481
Melancholy and Raving Madness (Cibber), V, b 672
MELANCHTHON, Philip, reformer, XV, a 842-3; (Adiaphorists), I, b 140; (Calvin), IV, a b 635, a 636; (Creeds), VI, *b* 499; (Dogmatic), VII, b 295; (Education), b 583-4; (Greek Church), XI, a 141; (Luther), XV, *b* 77, a 78, b 79, *b* 81, a 82, *b* 83, a *b* 84; (Lutherans), *a b* 86; (Predestination), XIX, b 690; (Reformation), XX, b 339, a 346, b 348; (Socinus), XXII, *a* b 241; (Tübingen), XXIII, b 640
MELANESIA, islands, XV, b 843-4; (Mythology), XVII, a 164; (Polynesia), XIX, b 431
Melanesian race (Australia), III, a 98; (Mythology), XVII, a b 155; (Negro), b 325; (New Guinea), a 397-8; (Solomon Islands), XXII, a b 266
Mélanges Philosophiques (Jouffroy), XIII, b 764
Melania, St., benefactress (Rufinus), XXI, a b 61
Melanism, disease (Leopard), XIV, a 464
Melanite, mineral (Garnet), X, *a* 74; (Mineralogy), XVI, a 429
Melanochroic races (Anthropology), II, b 100, a 101; (Asia), II, a b 609
Melanogaster, genus (Truffle) XXIII, a 629
Melanosis, disease (Pathology), XVIII, a b 412
Melanospermeæ, sub-order (Algæ), I, b 448
Melanterite (Mineralogy) (Ill.), XVI, a 418
Melanthus, hero (Apaturia), II, b 129-30
Melaphyre, rock (Geology), X, a 210
Melas, river (Mohammedanism), XVI, a 602
——, general (Napoleon I.), XVII, b 210, a 211
Melassa or Mylassa, town (Caria), V, a 91
Melawi river (Borneo), IV, b 50, a 51
MELBOURNE, city (Plan), XV, a 844-7; (Australia), III, *b* 95, a 96, b 99; (Libraries), XIV, a 534, b 552; (Newspaper), XVII, a 449; (Victoria), XXIV, a b 233, b 234, a b 235, *a* 236; Observatory, XVII, b 737; reflector (Telescope) (Ill.), XXIII, a 160-1
—— castle (Derby), VII, b 94
MELBOURNE, William Lamb, viscount, XV, b 847; (Brougham), IV, b 341-2; (Campbell), a 670; (England), VIII, b 327; (Jamaica), XIII, a 561; (William IV.), XXIV, *a* 613; ministry of (Palmerston), XVIII, a 199
Melcarth, god. See Melkarth
MELCHIADES, pope, XV, b 847
MELCHITES, XV, b 847-8; (Roman Catholic Church), XX, b 646
MELCHIZEDEK, king, XV, a 848; (Canaanites), IV, a 675; (Psalms), XX, *a* 34
Melchora Indians, XII, a 868
Melchthal, Arnold von, patriot (Tell), XXIII, b 171
Melcombe Regis, town (Weymouth), XXIV, a b 551
Melde's experiments (Acoustics), I, a 105
Meldrum, Charles (Meteorology), XVI, a b 187
Meleager, myth (Ares), II, a 427; (Fire), IX, a 201
—— of Gadara, poet (Anthology), II, a b 92, a 93
Meleagridæ, family (Birds), III, b 652
Meleagrina, mollusc (Mother of Pearl), XVII, b 7-8; (Pearl), XVIII, a 457, note, b 458
Meleagris, genus (Birds), III, *b* 633; (Guinea Fowl), XI, b 234, note; (Poultry), XIX, b 666; (Turkey), XXIII, a 699, a b 700
Melegueta Pepper, XVIII, a 528; (Grains of Paradise), XI, a b 33
MELENDEZ VALDEZ, Juan, poet, XV, a b 848
Meles, genus (Badger), III, a 196; (Mammalia), XV, b 446
——, river (Homer), XII, a 112; (Smyrna), XXII, a 197
Meletios, historian (Greece), XI, b 134
Meletius of Antioch, bishop (Chrysostom), V, b 660; (Jerome, St.), XIII, a b 641
Meletus of Athens, poet (Socrates), XXII, *b* 244, a 248
MELFI, city, XV, b 848-9
Melgar, poet (Peru), XVIII, b 691
Melgarejo, department (Bolivia), IV, a 15
——, Maria, president (Bolivia), IV, b 17
Melia, tree (Pepper-Tree), XVIII, a 530
Meliadus (Romance), XX, a *b* 664, b 665
Melica (Grasses) (Ill.), XI, a 49, b 50, a 53
Melic poetry (Pindar), XIX, b 110
Melicerta, animalcule (Rotifera) (Ill.), XXI, *a* b 8, b 9, *b* 10, a b 12
Melicertes, god. See Melkarth
Melik Es-Sálih Tataë, el, vizir (Egypt), VII, *b* 652
Melinophane, mineral (Mineralogy), XVI, b 436
Meliphagidæ, family of birds (Honey-Eater), XII, b 142
Melissus of Samos, philosopher (Eleatic School), VIII, b 3-4
Meliszoon, Lambert, hero (Hoorn), XII, a 159
MELITA, island, XV, a 849; (Malta), a 342-6; town (Città Vecchia), V, a 695
Melita exilii (Crustacea) (Ill.), VI, a 585
Melite, deme (Athens), III, b 3
Melitene, district (Cappadocia), V, *b* 67; town (Malatia), XV, a 323
Melithæa, genus (Corals), VI, a 342
MELITO, bishop, XV, a 849; (Bible), III, a 557; (Canon), V, b 7; (James), XIII, b 564
Melitopol, town (Tawrida), XXIII, a 90
Melius, Peter, poet (Hungary), XII, a 391
Melizophilus, genus (Whitethroat), XXIV, b 584
Melkarth, god (Baal), III, b 152; (Greece), XI, b 82; (Isthmian Games), XIII, b 442; (Minos), XVI, a 501; (Moloch), b 722 note; (Phœnicia), XVIII, a 816, a 819
Melksham, town (Wilts), XXIV, b 625, *a* 626
Mellawee, town (Egypt), VII, b 672
Mellilite (Mineralogy), XVI, b 429
Mellin, Gustav Henrik, novelist (Sweden), XXII, a 796
Mellisuga, genus (Humming-Bird) (Ill.), XII, b 373
Mellite (Mineralogy) (Ill.), XVI, b 446
Mellitic acid (Chemistry), V, b 495; (Molecule), XVI, b 643
Mellitonidæ, family (Sponges), XXII, a 439
Mellitus, bishop (London), XIV, *a* 853
Mellivora, genus (Mammalia), XV, b 446-7; (Ratel), XX, *b* 300, a 301
Mello, Antonio Manuel Fontes Pereira de, statesman (Portugal), XIX, *a* 569
——, Francisco Manuel de. See Melo
Mellon, Harriet, actress (Coutts), VI, a 470
Mellone, town (Burmah), IV, *a* 498
MELLONI, Macedonio, physicist, XV, a b 849
Melo or Mello, Francisco Manuel de, historian (Portugal), XIX, a 572; (Spain), XXII, b 373
Melocactus, plant (Cactus), IV, *b* 555
Melocanna, genus (Grasses), XI, a 51, a 53
Melodeon, instrument. See HARMONIUM
Melodikon, instrument (Tuning-Fork), XXIII, b 659
Melodists, Greek (Hymns), XII, a 614, a b 615
Melodrama (Calderon), IV, a 586
Melody (Music), XVII, b 84
Meloë, genus (Coleoptera), VI, a 115, a 116, b 120, a 122; (Insects), XIII, b 153, b 155
Melolontha, beetle (Wheat), XXIV, b 566
Melolonthidæ, family (Coleoptera), VI, b 119
MELON, plant, XV, a 850; (Botany) (Ill.), IV, a 76, a 77, b 123, b 129, a 135, a 136, a 138; (Horticulture), XII, b 281-2; house (Horticulture), a b 229
Melonite (Mineralogy), XVI, b 409
Melonites, genus (Echinodermata), VII, a 545, a 547
Melon-thistle (Cactus), IV, b 555
Melonycteris, genus (Mammalia), XV, a b 414
Melophone (Harmonium), XI, b 432
Melopsite (Mineralogy), XVI, b 442
Melopsittacus, genus (Birds), III, *b* 619
Meloria, battle of, 1284 (Gherardesca), X, b 505, a 506; (Pisa), XIX, b 129
MELOS, island, XV, a 850-1; (Phœnicia), XVIII, *b* 818; reliefs from (Archæology), II, a 308
MELROSE, village, XV, a 851; abbey (Cuthbert), VI, a *b* 646

Melting metals (Founding), IX, b 424-5; (Mint), XVI, b 509; -point (Thermodynamics), XXIII, b 307; -pots (Glass) (Ill.), X, a b 585, a 590
MELTON MOWBRAY, town, XV, b 851
MELUN, town, XV, b 851
Melursus, genus (Mammalia), XV, b 448
Melusina, legend of (Fairy), VIII, b 747-8; (Mermaids), XVI, b 44
Melusine, overture (Mendelssohn), XVI, *a* 12
Melville island (America), I, a 598; (Parry), XVIII, a 330; lake (Labrador), XIV, a b 176
MELVILLE, Andrew, reformer, XV, a 852-3; (Elizabeth), VIII, a 134; (Presbyterianism), XIX, b 700-1, a 702; Scotland), XXI, b 528, *b* 529, *a* 531
MELVILLE, George John Whyte, novelist, XV, a b 853
——, George W., explorer (Polar Regions), XIX, a 338
MELVILLE, Henry Dundas, viscount, XV, b 851-2; (Pitt), XIX, a 146, a 149, b 151, b 155, a b 157
——, James, divine (Scotland), XXI, a 568
——, Sir James, statesman (Mary Stuart), XV, b 603, b 604; (Scotland), XXI, b 526, a b 527, b 530
MELVILL VAN CARNBEE, Pieter, baron, geographer, XV, b 853
Melzi, Francesco, painter (Leonardo), XIV, a 461, a 463
—— library, Milan (Libraries), XIV, b 530
Memba yaws, excrescence (Yaws), XXIV, a 769
Membracis, insect (Ant), II, b 87
Membrana limitans (Anatomy), I, *a b* 780, a b 781; nictitans (Anatomy), a 782; of Reissner (Anatomy), a b 785; propria (Anatomy), b 783; Ruyschiana (Anatomy), a 779; tectoria (Anatomy), a 786; tympani (Anatomy), *a b* 783, a 784; (Ear), VII, *a* b 511
Membrane, formation of (Histology), XII, b 6, note, b 7; false (Diphtheria), VII, a b 218
Membranes (Acoustics), I, a 106; cerebro-spinal (Anatomy), b 758-60; volar (Mammalia) (Ill.), XV, a 410, a 413
Membranipora (Polyzoa) (Ill.), XIX, *a* 447, a 455
Membrano-cranium of fowl (Birds) (Ill.), III, b 605-b 606; of fish (Ichthyology) (Ill.), XII, a b 678, a b 679, a 680
Memel river. See Niemen
MEMEL, town, XV, b 853-4
—— wood (Harbors and Docks), XI, b 409, a 414
MEMLING, Hans, painter, XV, a 854-5; (Goes), X, b 643
Memlook or Memluk. See MAMELUKE
Memmi, Lippo, painter (Fresco), IX, b 677-8; (Martini), XV, a 592; (Schools of Painting), XXI, b 451, a 462
——, Simon, painter. See MARTINI
MEMMINGEN, town, XV, b 855
Memmius, Caius Gemellus, prætor (Catullus), V, b 216, b 217
——, Caius, tribune (Jugurtha), XIII, *b* 776
MEMNON, hero, XV, b 855-6; (Tithonus), XXIII, b 440-1
——, general (Macedonian Empire), XV, *a* b 141; (Persia), XVIII, b 591, a 592, a 593
Memnon, vocal statue (Architecture) (Ill.), II, a 342; (Egypt), VII, a 640, *a* b 676
Memnon, Young, statue (Belzoni), III, b 478
Memnonia, suburbs (Egypt), VII, b 673; (Mummy), XVII, b 26
Memnonium, temple, XV, a 856; (Egypt), VII, b 675
Mémoires. See Memoirs
—— *de Bachaumont* (Newspapers), XVII, a 436
—— *d'Outre-Tombe* (Chateaubriand), V, a b 379
—— *du Comte de Grammont* (Hamilton), XI, a 370
—— *Littéraires de la Grande Bretagne* (Gibbon), X, a 516
Memoirs (Barère), III, b 322; (Bourrienne), IV, b 161; (Brantôme), a 195; (Casanova de Seignalt), V, a 150; (Castelnau), a b 169; (Charles V.), b 362; (Comines), VI, a 174; (Cumberland, R.), b 621; (Duclos), VII, a 438; (Gibbon), X, b 513, a 517, a b 518, a 520; (Glover), a 618; (Greville), XI, a 169; (Hardenberg), a 423; (La Rochefoucauld), XIV, a b 318; (Marmont), XV, a 566; (Marmontel), a b 566; (Montpensier), XVI, b 819; (Motteville), XVII, b 10; (Napoleon), a 232; (Pöllnitz), XIX, b 416; (Retz), XX, *a* 503; (Rohan), a b 638; (Saint-Simon), XXI, b 209-10; (Luxembourg), XV, a 88; (Stael, Madame de), XXII, a 456; (Sully), *a* b 667
——, French, IX, a b 575, b 580-1, b 587
—— *of a Cavalier* (Defoe), VII, b 26, a 29
—— *of Libraries*, XIV, a 536, a b 537, note, a 538, a 542
Memons, class (India), XII, b 784
Memorabilia, Xenophon (Æsthetics), I, b 193; (Socrates), XXII, a b 244, a 245, b 246, *a* 249; (Xenophon), XXIV, a b 757
Memoranda Rolls (Records), XX, a b 325
Memorandum in Marine Insurance, XIII, a 193
Memorial Hall (Manchester), XV, b 468
—— Ring, XX, a 576
Memoria Technica, Grey (Mnemonics), XVI, b 556
Memory (Psychology), XX, b 51, a b 53, *b* 63, a 68; distinctive of man (Anthropology), II, b 96; its elements (Belief), III, *b* 460, a 461; helps to (Mnemonics), XVI, a 556; (Talmud), XXIII, a 42; loss of (Aphasia), II, a 150; (Insanity), XIII, a 114; remarkable (Euler), VIII, b 584; (Mozart), XVII, a 15
——, artificial. See MNEMONICS
——, physiological (Sleep), XXII, a b 167
Memory-continuum (Psychology), XX, b 65-71
Memory images (Psychology), XX, a b 64, note, a 65
MEMPHIS, city, Egypt, XV, a 856; (Amru-ben-el-Ass), I, a 683; (Crocodile), VI, a 525; (Egypt), VII, b 619, *a* 620, b 621, a 622, a 623, a b 634, *a* 636, b 643, b 668, b 670-1; (Mummy), XVII, *a* 27; collection from (Weights and Measures), XXIV, a 508, b 513, a b 515, b 516
MEMPHIS, city, Tennessee, XV, a b 856; (Tennessee), XXIII, a 194; (United States), b 876
Memphitic language (Copts), VI, a 315; (Hieroglyphics), XI, b 710, *a b* 712, a 713, b 714; *Psalter* (Psalms), XX, a 39
Memphremagog, lake (Quebec), XX, a 172; (Vermont), XXIV, b 180, a 181
Memra, mediator (Logos), XIV, a 814
MENA, Juan de, poet, XVI, a b 5; (Spain), XXII, b 369
MÉNAGE, Gilles, scholar, XVI, b 5; (Diez), VII, a 186; (France), IX, a 578; (Sevigne), XXI, a 736
Menagiana (Ana), I, b 688
Menahem, king, Samaria, (Hosea), XII, a b 309; (Israel), XIII, b 421, note
"Menai," steam-yacht (Yachting), XXIV, a 759
—— Strait (Anglesea), II, b 28; bridges, Britannia tubular and suspension (Bridges) (Plate XIX), IV, b 301; (Railway), XX, *b* 242-3
Me-nam river (Siam), XXI, a b 890, *a* 894
Menameh, island (Arabia), II, a 222
MENANDER, dramatist, XVI, b 5-7; (Metempsychosis), a 112; (Molière), b 652; (Drama), VII, a b 350, b 351, b 352-3, b 355; (Martial), XV, a 587; (Philemon), XVIII, a 755; (Terence), XXIII, b 203; (Wycherley), XXIV, a 743
—— of Bactria, king (India), XII, b 827; (Lāmāism), XIV, a 228; (Persia), a 610
—— Protector, historian (Byzantine Historians), IV, b 544; (Turks), XXIII, a 701
——, theologian (Gnosticism), X, a b 626, a b 627
Menang Kabau, region (Sumatra), XXII, a b 672, *a b* 674; inscriptions (Java), XIII, a 620
Menapii, tribes (Cæsar), IV, a b 565
Mencheres, king. See Menkaras
MENCIUS or Meng-Tseu, philosopher, XVI, a 7-10
  clan and title of, a 7
  Confucius, relation to, a b 7
  editions, a 10
  government, views on, a b 9
  human nature, views on, b 9-10
  illustrative quotations, a 10
  plan of life, a b 8
  social state of his age, b 7-8
  youth of, a 7
—— (China), V, a 551, b 557, a 559, b 573, a *b* 574, a 589; (Confucius), VI, b 230, a 231, a 233, a 234; (Julien), XIII, a 780
Mencke, Otto, editor (Periodicals), XVIII, a b 551
Mendaña Islands (Marquesas Islands), XV, a b 571
Mendaña de Neyra, Alvaro, navigator (Geography), X, *b* 165; (Solomon Islands), XXII, b 265 note, a b 266
Mende, town (Lozère), XV, *a* 33; (Numismatics), XVII, a 657
Mendel, David, theologian (Neander), XVII, a b 313
Mendeliyah gulf (Caria), V, b 90
Mendeljeff, chemist (Chemistry), V, b 469, a 471; (Gallium), X, b 39; (Tobolsk), XXIII, b 458
MENDELSSOHN-BARTHOLDY, Jakob Ludwig Felix, composer, XVI, a 10-3
  Düsseldorf period, a 12
  family training, a 10
  father's house, period at his, a b 11
  first concerts and compositions, a 10-1
  Kappellmeister time, b 12
  Leipsic life, a b 12-3
  Paris visit and friends, b 10-1
  technical estimate of, a 13
  travels, period of, b 11-2
—— (Bach), III, a 169; (Bennett), a 496; (Moscheles), XVI, b 882; (Music), XVII, b 97 note, b 104, a b 106, a 107; (Raff), XX, a 226; (Spohr), XXII, b 426; his *Sonatas* (Organ), XVII, a 863
MENDELSSOHN, Moses, philosopher, XVI, a b 13; (Burke), IV, b 482; (Germany), X, a 478; (Jacobi), XIII, *b* 546; (Jews), a 690-1; (Lessing), XIV, b 479
Mendere, river (Troad), XXIII, a 615, b 617
Mendes, city (Egypt), VII, a *b* 621, b 622
——, Gonçalo, chancellor (Portugal), XIX, *a* 557
Mendheim, J., player (Chess), V, b 522
Mendibere, Manuel de, general, author (Peru), XVIII, a 689

Mendicancy (Benares), III, b 479; (Buddhism), IV, b 389; (Sunnites), XXII, b 697, note
Mendicant friars (Abbey), I, a b 27; (Monachism), XVI, a 736, b 737
Mendi Khali, river (Dacca), VI, a 667
Mendip hills (Somerset), XXII, b 270, *a b* 271, a *b* 272
Mendipite (Mineralogy), XVI, b 400
Mendoça, Francisco de (Ginger), X, b 538
Mendoon-men, king (Burmah), IV, b 498, *a* 499
Mendowg, king (Lithuanians), XIV, a 708
MENDOZA, city, XVI, b 13; (Argentine Republic), II, b 430, *a* b 431
——, Don Andres Hurtado de, marquis (Peru), XVIII, a 691
MENDOZA, Diego Hurtado de, novelist and diplomatist, XVI, b 13-4; (Siena), XXII, *a* 48; (Spain), a b 371, b 373
——, Francis (Aëronautics), I, b 168
——, Garcia or Hurtado de, conquistador (Argentine Republic), II, a 431
——, Iñigo Lopez. See SANTILLANA
——, Pedro de, explorer (Argentine Republic), II, b 430-1; (Buenos Ayres), IV, a 395; (Patagonia), XVIII, b 358
——, Pedro Gonzales de, cardinal (Columbus), VI, *b* 154
Mendrisio, district and town (Ticino), XXIII, *b* 373
Menec Vihan, stone system (Carnac), V, b 104
Meneely's Sons, G., manufacturers (Bell), III, a 465
Meneghinite (Mineralogy), XVI, b 411
MENELAUS, king, XVI, a 14; (Agamemnon), I, b 244; (Helena), XI, b 561, a 562
—— of Alexandria, astronomer (Ptolemy), XX, b 92, *b* 93, note
——, priest (Israel), XIII, b 430, *a* 431
Menendez, Aviles de, commander (Florida), IX, *a* 298; (St. Augustine), XXI, b 167
Menes, king (Egypt), VII, a 634, b 668
Meneses, Don Jorge de, explorer (New Guinea), XVII, b 399
Menestrier, Père le, dramatist (Ballet), III, a 249
Menevian group, rocks (Geology), X, b 291-2
Méneville, Guérin, naturalist (Silk), XXII, b 65, *b* 66
Menez, mountains (Côtes du Nord), VI, a 426
Menge, A., naturalist (Arachnida), II, *b* 247, b 248, a 259, a 263
Menggala, town (Sumatra), XXII, a 673
Meng-gyi, town (Henzada), XI, b 604
Mengite (Mineralogy), XVI, b 445
Mengka, town (Formosa), IX, a 367
Mengli Girai Khan (Mongols), XVI, a 775
Mengotti, Francisco, publicist (Political Economy), XIX, b 368, a 376
MENGS, Antony Raphael, painter, XVI, a b 14
MENHADEN, fish, XVI, b 14; (Ichthyology), XII, b 732
Menhirs, monuments (Rude Stone Monuments), XXI, *b* 56-7
Menilite (Mineralogy), XVI, a 406
Ménilmontant (Abattoir) (Ill.), I, a b 13
MENIN, town, XVI, b 14
Meniñas or Maids of Honor, painting (Velazquez), XXIV, b 147
Meninge or Meninx, town (Gerba), X, b 397
Meningeal artery (Anatomy), I, a b 794
MENINGITIS, disease, XVI, a 15; (Hydrocephalus), XII, b 447-8
Menippean Satires (Varro), XXIV, b 100, a 101
Menippée Satire (France), IX, b 576-7
Meniscus, genus (Birds), III, b 623
Menispermaceæ, order (Botany), IV, *b* 91
Menkaras, Menkaura or Mencheres, king (Egypt), VII, a b 635, note; (Mummy), XVII, b 27; pyramid of (Egypt), VII, b 669-70; (Pyramid), XX, *b* 129
MENNONITES, sect, XVI, b 15-6; (Anabaptists), I, b 690; (Baptists), III, a 305; (Bastard), b 369; (Ruysdael), XXI, a 123; Russian (Canada), IV, b 678; (Emigration), VIII, b 161; (Manitoba), XV, b 498
Menno Simons, sectary (Baptists), III, a 305; (Mennonites), XVI, b 15-6
Meno, dialogue (Plato), XIX, a 208, a 209, b 210, a 212, b 216; (Socrates), XXII, a 219
Menobranchus, genus (Amphibia), I, a 659, *a* 660, a *b* 668, *a* 668,* *a b* 670, b 672, a b 673, a 675, b 676; (Siredon), XXII, a 105; skull of (Amphibia) (Ill.), I, a 663-4, a *b* 665
Menodontidæ, fossil family (Mammalia), XV, b 434
Menoidina, group (Protozoa), XIX, a 881
Menologia (Martyrology), XV, a b 594; (Monreale), XVI, b 786
Menominee, river (Wisconsin), XXIV, b 651
Menominees, tribes (Indians), XII, b 871
Menon, Abbé, physicist (Electricity), VIII, a 7
Menongkabo, dialect (Malays), XV, *b* 328
Menopoma (Amphibia) (Ill.), I, a b 659, *a* 660, b 664, *b* 665, *a* 666, a *b* 668, a 668,* *b* 672, b 673, a 674, a 675, b 676
Menorath Hammaor (Midrash), XVI, a 300
Menotti, Ciro, patriot (Italy), XIII, b 496
Menou, Jacques François, baron de, general (Egypt), VII, b 659; (Napoleon), XVII, b 202, a 203
Menptah, king (Egypt), VII, *a* b 641
Mensbrugghe, Van der, physicist (Capillary Action), V, *b* 52, a 57
MENSHIKOFF, Alexander Danilovich, general, XVI, b 16-7; (Berezoff), III, a 507; (Catherine), V, *a* 203; (Russia), XXI, a *b* 106
MENSHIKOFF, Alexander Sergeievich, general, XVI, b 17
Menstruation (Medical Jurisprudence), XV, a b 789; (Reproduction), XX, a b 420; (Sex), XXI, b 760
MENSURATION, XVI, a 17-33
  definitions, a 17-8
  gauging, b 32-3
  PLANE FIGURES, a 18-27
    circle a 21-3
    ellipse, a b 24
    hyperbola, b 24-5
    irregular curvilineal, b 25-7
    irregular rectilineal, a b 25
    parabola, b 23-4
    polygons, regular, a 20-1
    quadrilateral, a 19-20
    rectangle, a b 18
    triangles, b 18-9
  SOLIDS or VOLUMES, a 27-32
    cone, b 29-30
    cylinder, b 29
    ellipsoid, b 31
    frustum of a pyramid, a b 28
    hyperboloid, b 31-2
    paraboloid, b 31
    polyhedra, regular, a b 29
    prism, a b 29
    prismatoid, a 28
    prismoidal formula, a 32
    pyramid, b 27-8
    of revolution, a b 32
    sphere, a 30-1
    spheroid, a b 31
    theorems of Pappus, b 32
—— of volumes (Geometry), X, a b 345-6
Mensurius, bishop (Donatists), VII, a 311
Mental disease (Tasso), XXIII, a b 83, a b 84. See INSANITY
—— faculties (Brown, Dr. Thomas), IV, a 349; phenomena (Lewes, G. H.), XIV, b 491; (Physiology), XIX, a 39; work (Dietetics), VII, b 177-8. See Mind, PSYCHOLOGY
Mentapok mountains (Sabah), XXI, b 131
Mentaragyi, king (Burmah), IV, b 494, b 495, a 497
Mentawei islands (Sumatra), XXII, b 671, b 672
Menteith, Malise Graham, earl of (Scotland), XXI, a b 515
Mentelin, Johan, printer (Typography), XXIII, a 724, a 729, a 732, a b 733, a 734, b 736, b 738, a 739
Mentesha, princes of (Turkey), XXIII, a 681
Menteur, Le (Drama), VII, a 367, note, a 368
Mentha, genus of plants (Mint), XVI, b 514-5; (Peppermint), XVIII, a 528-9
Menthol, camphor (Peppermint), XVIII, a 529
MENTON or Mentone, town, XVI, a b 33; (Alpes), I, *b* 527; (Monaco), XVI, b 743
Mentor, satrap (Persia), XVIII, b 591, a 592
——, silversmith (Archæology), II, a 317
Mentu, god (Egypt), VII, b 619, a b 620
Mentuhotep, prime minister (Egypt), VII, a 637
Menu, Institutes of (Family), IX, a 20. See Manu
Menura, genus (Birds), III, b 620 note, b 644 note; (Lyre-Bird), XV, *a b* 117 note
Menyanthes, plant (Botany), IV, b 119, b 121
Menyllus, general (Phocion), XVIII, b 813
Menzaleh or Menzeleh, lake (Canal), IV, b 698, a 699; (Egypt), VII, a 615, a 618
MENZEL, Wolfgang, poet XVI, b 33; (Gützkow), XI, b 303
Menzelinsk, district and town (Ufa), XXIII, a *b* 764
Menzies, Michael (Agriculture), I, a 269
Meol, river (Shropshire), XXI, b 886
MEPHISTOPHELES, XVI, a 34; (Faustus), IX, b 49
Mephitis, genus of mammals (Mammalia), XV, a b 446; (Skunk), XXII, a b 134
Mephitism (Medical Jurisprudence), XV, b 791
Me-ping river (Siam), XXI, a 890, b 892
MEQUINEZ, town, XVI, a 34
Merab, princess (David), VI, b 737
Merágha, town (Observatory), XVII, a 729
MERAN, town, XVI, a b 34; (Tyrol), XXIII, b 758, *a* 759
Merapi, volcano (Java), XIII, a 611, note, a 620; (Sumatra), XXII, b 671, a 672, note
Meratu mountains (Borneo), IV, a 50
Merawi, city (Meroe), XVI, b 45
Mercantile agency, first (Tappan), XXIII, b 922
—— college, Roman (Mercury), XVI, a 36
—— law (Mansfield), XV, a 507
—— Library, New York (Libraries), XIV, b 534; Philadelphia (Libraries), b 534, b 553
—— marine (Navy), XVII, b 297-9
—— school of Political economy, XIX, a 366, a 367-71, a 378, b 381; (Ganilh), X, b 63; (Protection), XIX, b 936, b 941; in Germany (Political Economy), b 376-7; in Italy (Political Economy), a 375
—— Warrants, XXIV, b 392-3
Mercaptans (Chemistry), V, b 479, a 492
MERCATOR, Gerardus, mathematician, XVI, b 34; (Globe), X, a *b* 608, notes; (Navigation), XVII, a 260; (Ortelius), XVIII, a 56; his projections (Geography), X, b 184, a 186-7;

MERCATOR, *continued* (Map) (Ill.), XV, b 527–8; (Navigation), XVII, b 269; sailing (Navigation), b 272, a b 273, b 274, a 275
——, Nicholas, mathematician (Infinitesimal Calculus), XIII, a 20; (Navigation), XVII, b 262
——, Romoldus, geographer (Navigation), XVII, *a* 260
Merced river (California), IV, a 619
Mercedario, Cima del, mountain (Chili), V, b 535
Mercedes, town (Uruguay), XXIV, a 19, a 20
Mercedinus or Mercedonius, month (Calendar), IV, a 591
Mercenaries, troops (Germany), X, a 445; (Hamilcar), XI, a b 366; (Hesse Cassel), *b* 696; (Italy), XIII, a b 488; Greek (Army), II, a 492; mediæval (Army), *b* 494, a 495; Swiss (Army), b 538–9
Mercers' company, London (Gresham), XI, *a* 167; (Insurance), XIII, b 186
—— Grammar School (London), XIV, b 844
Merchant Adventurers' company (Edinburgh), VII, a b 578; (India), XII, b 837; (Post-Office), XIX, b 578; (Shipping), XXI, *b* 865, a 866
—— Guilds, XI, a 232
Merchant of Venice (Shakespeare), XXI, a 794, a 800, a 805
Merchants, magnanimity of (Smith), XXII, b 181; mediæval (Hanseatic League), XI, b 401–2; rise of (Borough), IV, a 56; Roman (Mercury), XVI, a 36; security (Canton), V, b 34
Merchant service (Seamen), XXI, b 635–8
—— Shipping Act (Wreck), XXIV, b 722–3
MERCHANTS OF THE STEELYARD, XXII, a b 556
Merchants' petition (Finance), IX, b 164; Rings, XX, a 576, note
Merchant strangers' guild (Post-Office), XIX, a b 578
—— Taylors' School (London), XIV, *b* 844
Mercia, kingdom (England), VIII, a 245, *a* 255; (Northumberland), XVII, b 582, *b* 583, a 584; (Stafford), XXII, a 460; (Warwick), XXIV, b 400
Merck, Johann Heinrich, critic (Goethe), X, a 644, *b* 645, a *b* 646, a 647, a 648, a 656
Mercure de France (Newspapers), XVII, b 422, a 423, a *b* 435–6
MERCURIAL AIR-PUMP (Ill.), XVI, a 35–6; (Pneumatics), XIX, b 258
—— compensation balance (Watch), XXIV, b 417
——phosphorus (Electricity), VIII, b 5; treatment of syphilis (Surgery), XXII, b 721–2; tremor (Poisons), XIX, b 288
Mercuriales, clubs (Ménage), XVI, b 5; Roman guild (Mercury), a 36
Mercurialis, plant (Botany), IV, a 122, a 124
Mercurian, Eberhard, general of the Jesuits, XIII, b 664, a 667
Mercuric cyanide (Prussic Acid), XX, a 28
Mercuries (Newspapers), XVII, b 424–5, note, b 426, a b 433
MERCURY, Roman deity, XVI, a b 36. See HERMES
"Mercury" (Horse), XII, a 188
MERCURY or Quicksilver, metal, XVI, b 36–40
  alloys, b 37–8
  ammonia derivatives, b 38–9
  analysis, b 39
  extraction of, b 36–7
  ores, b 36
  oxides, a 38
  primitive history, b 36
  properties, b 37
  recovery of, a b 37
  salts, a b 38
  therapeutics, a 39–40
—— (Alchemy), I, *a* 409; (Amalgam), b 573; (Barometer), III, a 329; (Bromine), IV, a 326; (Chemistry), V, a b 456–8; (Gold), X, *b* 663, a b 664; (Mineralogy), XVI, b 397, a 410; (Mining), a b 490, a b 492; (Molecule), a 643; action of light on (Photography), XVIII, b 852
——, deposits and mines of (Almaden), I, b 518; (America), b 614; (Brazil), IV, a 202; (California), b 622; (Carniola), V, a 107; (China), b 556, a 557; (Huancavelica), XII, a 341; (Idria), b 737; (Mancha), XV, a 466; (Mexico), XVI, a 907, b 909; (Sarawak), XXI, a 321; (Spain), XX!I, *b* 315, a b 316; (United States), XXIII, b 851, a 864, b 868–9, b 870
—— effects of on human system (Poisons), XIX, b 288; experiments with (Pneumatics), a b 253, a 254; oxide of (Metals), XVI, a 75; surface tension of (Capillary Action), V, a b 57, *a* 59. See Amalgamation
—— Manometer (Ill.), XV, a b 502
—— spectrum (Spectroscopy), XXII, b 390
—— Thermometer, XXIII, b 308, a b 309; (Heat), XI, a b 501, *a* b 502, *a b* 503; scales (Heat), a b 504; steam pressure thermometer (Heat) (Ill.), b 506–7
—— vapor (Molecule), XVI, b 636; development (Photography), XVIII, b 836; temperature of (Pyrometer), XX, a 137
Mercury, planet (Astronomy), II, b 691; (Sosigenes), XXII, b 289; transit of (Micrometer), XVI, b 260
Mercy, Francis, Comte de, general (Condé the Great), VI, *b* 218; (Turenne), XXIII, b 666, a 667
Mercy-seat (Ark), II, a 473
Mer de Glaci (Blanc, Mt.), III, b 700; (Forbes, J. D.), IX, a 345; (Geology), X, b 249; (Glacier), a 559, *a* 560, a b 561
Mère, La, island (Guiana), XI, a 226
Méré, Georges Brassin, chevalier, problem of (Probability, XIX, a 791
Merenra, king (Egypt), VII, a b 636; (Mummy), XVII, b 27
Meres, lakes (Huntingdon), XII, a 413
——, Francis, critic (Shakespeare), XXI, a 800, b 807
Merewings, kings. See Merovingian
Merganetta, genus (Merganser), XVI, b 40
MERGANSER, bird, XVI, a 40
Mergen, city (Manchuria), XV, *a* 474
Merger, law-term (Novation), XVII, b 618
Merginæ, group (Merganser), XVI, a 40
Mergui archipelago (Tenasserim), XXIII, b 188
MERGUI, district, XVI, b 40–1; town, a 41; (Burmah), IV, *a* b 497, a 498, *b* 500
Mergulus, genus (Birds), III, a 655
Mergus, genus (Merganser), XVI, a 40
Meriah, human sacrifice (Madras), XV, b 188
Merian, Maria Sibylla, naturalist (Lantern-Fly), XIV, a 291
Merici, Angela de, nun (Monachism), XVI, b 742; (Ursulines), XXIV, a 19
Méricourt, Anne Joseph Théroigne de, revolutionist. See Théroigne de Méricourt
MERIDA, Mexico, city, XVI, a 41; (Yucatan), XXIV, a b 796
MÉRIDA, Spain, city, XVI, a 41; (Spain), XXII, a 322
——, town, Venezuela, XXIV, b 150, a b 152
MERIDEN, city, XVI, b 41
Meridian (Astronomy), II, b 667; (Geography), X, b 176–7; altitudes (Navigation), XVII, b 275–7
—— arc (Beccaria), III, a 412; (Earth), VII, a 516–8, a 523–6; (Geodesy), X, a 154; early notions of (Geography), a *b* 158; French (Lacaille), XIV, a 183; measurement of (Astronomy), II, a b 654, b 661, a 693; (Biot), III, b 602; (Geography), X, a 169; (Struve), XXII, a 641
Meridian, brass (Globe), X, b 610
——, determination of (Geodesy), X, b 148–9
——, first, determination of (Map), XV, a b 528
—— circle (Graduation), XI, b 26; (Reichenbach, G. V.), XX, a 362; (Repsold), b 444. See TRANSIT CIRCLE
—— line, conics of (Capillary Action), V, b 60–1
—— of longitude (Ptolemy), XX, b 97
—— Mercator projection (Geography), X, b 186–7
—— plane (Dialling), VII, a 136–7
Meridians, convergency of (Surveying), XXII, b 742
——, magnetic (Magnetism), XV, b 236–7; (Meteorology), XVI, a 169
——, secondary (Navigation), XVII, a 270
Meridional line, division of (Navigation), XVII, b 261–2
Merienptah, goddess (Bubastis), IV, b 366
MÉRIMÉE, Prosper, essayist, XVI, b 41–3; (Ballads), III, b 244; (Drama), VII, b 369, note; (Panizzi), XVIII, a 217; (Pedro I., Castile), a 462
Merino fabrics (Dyeing), VII, *b* 499; sheep (Agriculture), I, a 270; (Italy), XIII, b 461; Wool, XXIV, a b 689, a b 690
Merinos or Marinus. See Jonah of Cordova
MERIONETH, county, XVI, a 43–4; cattle (Agriculture), I, b 345
Merisankh, priestess (Chephren), V, a 506
Merismopedia, genus of algæ (Vegetable Kingdom), XXIV, *b* 136
Merispores, organs (Fungus), IX, a 728
Meristem, tissue (Botany), IV, *a* 82, b 88; (Histology), XII, b 16, a b 17–18, b 20
Merit, military (War), XXIV, a 369
Merivale, Charles, historian (Tiberius), XXIII, a 359. See List of Contributors
——, Herman, economist (Political Economy), XIX, b 390
Merka, station (Zanzibar), XXIV, a 806
Merkel, jurist (Salic Law), XXI, *a* b 225
Merken, Lucretia Wilhelmina van, dramatist (Holland), XII, b 99
Merle, bird (Ousel), XVIII, a b 78
Merlin, bird (Falcon) (Ill.), IX, a 5; (Falconry), a b 11
Merlin, Celtic bard (Arthur), II, a *b* 568, a 569, a 571; (Celtic Literature), V, a b 274, a 275, a 276, a 285; life of (Geoffrey of Monmouth), X, *b* 154, b 155; prophecy of (Alain de Lille), I, b 390; (Joan of Arc), XIII, b 706
—— of Round Table (Romance), XX, *a b* 659, note, a b 661, *a* b 665
Merlin l'Enchanteur (Quinet), XX, *b* 190
Merlins, horses (Montgomery), XVI, a 815
Merlon, part of parapet (Fortification), IX, b 381
Merlot Wines, XXIV, b 636
Mermaid, fish (Malay Peninsula), XV, b 324
——, tavern (London), XIV, b 858, *a* 859, note
MERMAIDS and MERMEN, XVI, a 44; (Whirlpool), XXIV, *b* 572
Mermaids' purses (Dog-Fish), VII, a b 288; (Egg), a 604
Mer-mesha, king (Egypt), VII, b 637

Mermillod, Abbé, vicar (Geneva), X, b 135; (Switzerland), XXII, b 834
Mermis, genus (Nematoidea), XVII, b 334
Mermnad dynasty (Gyges), XI, a 310
Mero, province (Russia), XXI, b 76, notes
Merobaudes, Flavius, poet (Niebuhr), XVII, b 505; (Rutilius), XXI, *a* 122
Merodach, deity (Theism), XXIII, b 256
—— -Baladan, king (Babylonia), III, a b 162
—— -iddin-akhi, king (Babylonia), III, a 164
MEROE, city, XVI, a b 45; (Africa), I, a 239
Merogenesis (Hydrozoa), XII, *a* 588; (Vertebrata), XXIV, b 198
Merom, Waters of (Israel), XIII, b 410
Merope, tragedy (Drama), VII, a 361; (Voltaire), XXIV, b 308, b 312
Merostomata, division (Crustacea), VI, a 561, a 563, a 564, b 573, b 585, a 586
Merovæus, king (Germany), X, a 428
Merovingian diplomas (Diplomatics), VII, *a* b 221
—— dynasty (France), IX, a 467; (Germany), X, a b 428-9; (Paris), XVIII, a b 293
—— Jewellery, XIII, b 687
—— writing (Palæography) (Ill.), XVIII, b 159, a b 160-61
Merpaut's *Tables Arithmonomiques* (Tables), XXIII, a b 12
Merrem, Blasius, naturalist (Ornithology), XVIII, a b 23-4, a 26, b 35, a 47, a 48; (Reptiles), XX, b 448
Merrett, Christopher, naturalist (Ornithology), XVIII, b 8 note, a 13, note
Merriam, C. Hart, naturalist (Raccoon), XX, b 209; (Shrew), XXI, *a* 884; (Skunk), XXII, *a* b 134
Merrick, mountain (Scotland), XXI, a 546
Merrimac-Monitor fight. See Monitor
Merrimack, river (Lawrence, Mass.), XIV, b 370
Merry Beggars, comedy (Horse), XII, a 204
Merry-maids (Mermaids), XVI, a 44, note
Merry men of Mey, islets (Caithness), IV, b 574; (Geology), X, a 251
—— thought of birds (Skeleton), XXII, b 125
Merry Wives of Windsor, play (Shakespeare), XXI, a 775, b 790, a 805; (Windsor), XXIV, b 632
Mersal-Kebir, port (Oran), XVII, *b* 833
Mersá Suza, cove (Tripoli), XXIII, a 612
Merse, district (Berwickshire), III, *a* b 529
MERSEBURG, town, XVI, b 45; district (Saxony), XXI, a 376
Merseburger Gedichte (Germany), X, b 467
Merseir, poet (Scotland), XXI, b 566, note
Mersenne, Marin, philosopher (Descartes), VII, a *b* 101, a b 102, *a* 103, *a* b 104; (Gassendi), X, *a* 96; (Hobbes), XII, b 35, *b* 36, a 37; (Music), XVII, a 96; (Pianoforte), XIX, b 74, b 75, b 76, a 87; (Transverse Flute), XXIII, b 552; (Trombone), b 623; (Trumpet), b 630; (Zincken), XXIV, b 826
Mersey, river (Cheshire), V, *b* 511, *b* 512; (Derby), VII, *a* 93; (England), VIII, *a* 196; (Harbors and Docks), XI, a 417; (Lancashire), XIV, *a* 253, a 254; (River Engineering), XX, *a b* 591-2, b 593; (Runcorn), XXI, *a* 66; (Tunnelling), XXIII, b 663
——, river (Nova Scotia), XVII, *b* 616
Mersina, town (Cilicia), V, a b 679
Merswin, Rulman, mystic (Mysticism), XVII, b 140; (Nicholas of Basel), b 499
Mertensia, plants (Horticulture), XII, a 259
MERTHYR TYDFIL, borough, XVI, b 45; (Glamorgan), X, a *b* 565
Mertitefs, queen (Egypt), VII, a 635 note
Mertola, town (Spain), XXII, b 309
Merton College (Oxford), XVIII, b 100, b 101; (Paper), b 222; (Universities), XXIII, b 893; chapel of (Architecture), II, b 374, a 403
Mertvuiya Dushi, novel (Gogol), X, *b* 657
Mertvy Kultuk, bay of (Caspian Sea), V, a b 154
Merula, genus (Ousel), XVIII, a 78
Merus, city (Phrygia), XVIII, a 866
Meruti Gudda, mountain (Kadur), XIII, b 824
MERV, district (Map), XVI, a 46-9
  authorities, a 49
  climate, b 48
  history, b 48-9
  importance of, b 46-7
  industrial features, b 48
  physical features, a b 47
  population, a b 48
  rivers, b 47-8
  roads, a 48
  Russian advance toward, b 46
  settlements, a b 47
  strategic question, a 47
—— (Mongols), XVI, b 775; (Persia), XVIII, a 598; (Transcaspian), XXIII, a 544, a 545
——, city (Afghânistân), I, b 217; (Jenghiz), XIII, a 633; (Persia), XVIII, a 668
Mervar, state. See UDAIPUR
Merveille, abbey La (Mont St. Michel), XVI, a 823
Mervi, race (Bokhara), IV, a b 3
Merwa, sacred locality (Mecca), XV, b 680
Merwán I., caliph (Mohammedanism), XVI, a b 592
—— II., caliph (Mohammedanism), XVI, b 598, a 599, b 600
——, Abu'l Walíd (Jonah, Rabbi), XIII, a 748
Merwanid, family (Armenia), II, b 480
Merwede, river (Holland), XII, b 65, *a* 66
Merx, orientalist, *Commentary of* (Joel), XIII, b 715, a b 717; (Syriac Literature), XXII, a 875 notes
Méry, Joseph, poet (Barthélemy), III, *b* 346; (Gozlan), XI, a 22
MÉRYON, Charles, etcher, XVI, a 49-50; (Engraving), VIII, b 395
——, Charles Lewis, physician (Stanhope), XXII, *a* 467
Merz, optician (Micrometer) (Ill.), XVI, b 253-4, a 263
Merzbacher, Abraham, patron (Talmud), XXIII, b 43 note
Mes'aidiyeh, village (Galilee), X, b 28
MESCHERYAKS or Meschers, tribe, XVI, b 50; (Penza), XVIII, a b 525; (Russia), XXI, *a* 87, b 88, b 89; (Ryanzañ), a 124
MESCHOVSK, town, XVI, b 50; (Mescheryaks), b 50
Mesembryanthemum, plant (Botany), IV, b 97, b 98, b 124; (Horticulture), XII, b 272
Mesenteric arteries (Anatomy), I, a b 793; glands (Mammalia), XV, b 367; veins (Anatomy), I, a 796
Mesenteries, membranes (Actinozoa), I, a *b* 120; (Corals), VI, a 327, a b 330, a 340, a b 341, a b 342; (Digestive Organs), VII, b 194, b 196; (Polyzoa), XIX, b 446-7, b 455
Mesha, king of Moab, XVI, b 558, note; his stele or inscription (Ammonites), I, b 65; (Hebrew Language), XI, a 531, a 533, *a* 534, note; (Inscriptions), XIII, a 122; (Israel), b 416, *a* 417, note; (Kings, Book of), XIV, a 88; (Moloch), XVI, a 722, note; (Palestine), XVIII, a 180; (Semitic Languages), XXI, b 676, a 677, a 679
MESHED or Mashhad, city, XVI, a 51; (Persia), XVIII, b 637-8, b 648, b 653, b 657, a 658
MESHED-ALI, town, XVI, b 51; (Mesopotamia), b 56
—— -Hosein, town. See KERBELA
—— -i-Sir, port (Balfroosh), III, a 242
Mĕshīhā-Zekha, monk (Syriac Literature), XXII, a 880
Meshik or Mesgues, mountains (Transcaucasia), XXIII, *b* 545, a 546
Meshra'at al-Ksiri, town (Morocco), XVI, b 858
Meshrat-el-Rek, town (Nile), XVII, a 520
Mesíhí, poet (Turkey), XXIII, b 698
Mesites, bird (Ornithology), XVIII, b 49 notes
Mesitheus or Timesitheus, statesman (Calpurnius), IV, a 631
Mesjid-i-Juma, mosque (Herat), XI, a 638
—— -i-Shah, mosque (Ispahán), XIII, b 404
Mesjids, prayer-places (Arabia), II, b 217
Meslin, grain (France), IX, *b* 458
Mesmer, Friedrich Anton, physician (Magnetism, Animal), XV, a b 280
Mesmerism (Apparitions), II, *b* 179; (Aristides), a 445; (Elliotson), VIII, a 138; (Franklin, B.), IX, b 631; (Magnetism, Animal), XV, b 279-80, a b 281, a b 282; (Martineau), b 590
Mesnard, Paul, critic (Racine), XX, a 216
Mesne Process, XIX, a 810; (Arrest), II, b 550
Mesnevi, poem (Turkey), XXIII, b 697
Mesoblast, tissue (Animal Kingdom), II, *a* 47, *b* 48; (Mammalia), XV, a 353; (Mollusca), XVI, b 687, a 709; (Skeleton), XXII, *a b* 114. See Mesoderm
Mesoblastic blood-making (Pathology), XVIII, b 376; tumors (Pathology), XVIII, b 373-9
Mesocarpeæ, plants (Reproduction), XX, a 438, a 440
Mesoderm, tissue (Actinozoa), I, *a* 120, *b* 121, a 122; (Embryology), VIII, b 150, a 156; (Histology), XII, b 6, a 7, *a* b 8, b 9, a 12; (Sponges) (Ill.), XXII, a b 435
Mesoglæaceæ, family (Vegetable Kingdom), XXIV, *a* 138
Mesohippus, fossil (Zoology), XXIV, a 926
Mesolite (Mineralogy), XVI, a 385, b 441
Mesolonghi. See MISSOLONGHI
Mesomyodi, division of Passeres (Ornithology), XVIII, a b 44, a 51
Mesonyx, fossil (Mammalia), XV, a 449
Mesoparaffins (Chemistry), V, b 483, a 484
Mesophlœum layer (Botany), IV, b 90
Mesopithecus, genus (Ape), II, a 146
Mesoplodon, genus (Mammalia) (Ill.), XV, b 400-1
MESOPOTAMIA, country (Plate VII), XVI, b 51-7
  agriculture, b 54-5
  ancient importance, b 53
  Babylonia, a 55-7
  boundaries of, b 51-2
  climate, b 54
  divisions and cities, ancient, b 52-3
  history of 'Irák, a 56-7
  natural history, b 54, b 56
  nomads, b 53-4
  physical features, a 52-3, b 55
  population of 'Irák, b 56-7
  roads and caravan routes b 53
  Turkish rule, b 56
—— (Babylonia), III, a 159; (Persia), XVIII, a 578

Mesopotamia, *continued*
note (Religions), XX, b 374; (Turkey), XXIII, a b 695; early people of (Zodiac), XXIV, b 829–30
Mesostates (Physiology), XIX, *b* 22
Mesostomida, family (Planarians) (Ill.), XIX, b 182, a 183, *a* 184, a 185
Mesosuchia, sub-order (Crocodile), VI, b 525
Mesotherium, fossil (Mammalia) (Ill.), XV, a 375, a 427, b 432–3
Mesowah, town. See MASSOWAH
Mesozoic Appalachian measures (United States), XXIII, b 845–6; Coal measures, VI, b 46; Corals, VI, b 329, b 336, *a* b 337; fossils (Distribution), VII, b 245–6; (Mammalia), XV, b 377–9; (Reptiles), XX, b 478; (Zoology), XXIV, a b 925; series (Geology), X, a 312–9; (Russia), XXI, a 81
Mespila, city (Mosul), XVI, b 896
Mespilus, tree (Medlar), XV, a 833
Mesquite (Gum), XI, b 243
Messa, towns (Morocco), XVI, b 857
Messages to and from Parliament, XVIII, a b 318
Messala, Marcus Valerius Corvinus, general (Tibullus), XXIII, a b 370, a *b* 371, a 372, a 373
Messalians, ascetic order (Monachism), XVI, a 727
Messalina, Valeria, empress (Claudius), V, b 713, a 714; (Nero), XVII, a 357
Messana. See MESSINA
Messapian or Iapygian language (Latin), XIV, a 327; people (Italy), XIII, a b 453
Messara plain (Crete), VI, *b* 503, *a* 504
Messaria, plain (Cyprus), VI, b 659
Messchert, Willem, poet (Holland), XII, a 101
Messedaglia, Angelo (Political Economy), XIX, a 408
MESSENE, Greek city, XVI, a 57; (Numismatics), XVII, b 653, a b 654, b 655, *a* 660
——, Sicilian town. See Messina
"Messenger" (Horse), XII, a b 208
"Messenger of the press" (Press Laws), XIX, *b* 729
MESSENIA, state, XVI, b 57; (Greece), XI, b 84, *a* 85
Messenians, people (Helots), XI, a 570
Messéniennes (Delavigne), VII, a b 39
Messenius, Johannes, dramatist (Sweden), XXII, b 792
Messent's concrete mixer, (Harbors and Docks), XI, b 414–5
MESSIAH or Messias, XVI, a 58–61
  eschatology, b 59–60, a 61
  of the Hasmonean age, a b 60
  monarchy, Hebrew, b 58–9
  New Testament, b 60–1
  pretenders, a 61, note
  of the prophets, b 58
MESSIAH, *continued*
  Rabbinical doctrine of, a b 59
  of the Scribes, a b 69
  significance of the term, a b 58

—— (Isaiah), XIII, *b* 392; (Israel), a b 427; (Jesus Christ), b 667, a 668, a b 673, b 674, a 675, a b 677, b 678; (Zechariah), XXIV, b 811, a b 812
Messiah, epic (Germany), X, b 478–9; (Goethe), a 643; (Klopstock), XIV, b 110, a 111
——, oratorio (Handel), XI, *b* 389–90
Messiah of *Enoch* (Apocalyptic Literature), II, a 154
Messiahs, false (Simon Magus), XXII, b 87 note
MESSINA, Messene or Zankle, city, XVI, b 61–2; (Hiero II.), XI, *a* 708; (Libraries), XIV, b 550; (Plague), XIX, b 176; (Rome), XX, b 765, a 766; (Sicily), XXII, a b 21, b 22, *b* 23, a 24, b 25, *a b* 26, b 27, a 29, *a b* 30, a 31, b 32, b 33; bombardment of, 1848 (Italy), XIII, b 498; revolt of, 1676 (Duquesne), VII, b 476
——, province, XVI, b 61 note
——, Strait of (Mediterranean Sea), XV, a b 829, b 831; (Whirlpool), XXIV, b 571, *a* 572
Messiras, race (Cazembe), V, b 244
Messogis, mountains (Asia Minor), II, a 617
Mesta, privilege (Spain), XXII, a 315; company of (Spain), a 348, b 355
Mestizo, hybrid (Negro), XVII, b 328, a 329; (Argentine Republic), II, a 435; (Mexico), XVI, b 227, a 228, a 229, a b 897, a 898; (Yucatan), XXIV, a 798; speech of (Anthropology), II, *a* 106
Mesua the Younger (Medicine), XV, a 815
Meta, river (Colombia), VI, a 138; (Orinoco), XVII, a 868
Metabolism (Insects), XIII, a b 153, a 154; (Physiology), XIX, a 17, b 22, a 23, a 24; of the blood (Pathology), XVIII, a 383, a b 392, a 393; diseases of (Pathology), a 394–9; in plants (Physiology), XIX, a 57–63; products of (Nutrition), XVII, a 698–702
Metacarpal joints (Anatomy), I, b 736
Metacarpus (Anatomy) (Ill.), I, a 726, b 729; (Ape), II, a 142; (Mammalia), XV, a b 362; (Skeleton), XXII, b 125
Metacentre (Hydromechanics), XII, a 460–1; (Shipbuilding), XXI, *a* b 850
Metachirus, group (Opossum), XVII, b 819
Metachloral (Chloral), V, b 588
Metagelatin (Gelatin), X, b 117
Metagenus, architect (Archæology), II, b 309
Meta Incognita, country (Geography), X, b 164
Metal arch (Bridges) (Ill.), IV, a 279–82, b 301
——-cutting (Hand Tools), XI, b 390–1, a 392
Metallica, De Re (Agricola), I, a 259
Metallic bodies, organic (Chemistry), V, *a* 480, b 497–8
—— conductivity (Heat), XI, a b 518, a b 523
—— cyanides (Chemistry), V, a 464, b 465, b 466, a b 481; (Prussic Acid), XX, *a* 28–9, b 30
—— haloids (Chemistry), V, a b 427. See Haloids
—— Ink, XIII, b 87–8
—— Manometers (Ill.), XV, b 503
—— methides (Methyl), XVI, a 206
—— money (Money), XVI, a 756 *seq.*
—— nitrates (Chemistry), V, a 443–4. See Nitrates
—— nucleus, earth's (Geology), X, a 199, b 201
—— oxides, colors from (Glass), X, a 594
—— Phosphorus, XVIII, b 829
—— reflection (Light), XIV, a 618; (Wave Theory), XXIV, b 482
—— sulphates (Chemistry), V, b 437–8; (Sulphur), XXII, b 667, b 670
—— sulphides (Chemistry), V, b 433–4; (Sulphur), XXII, b 667, a 669; production of (Geology), X, a 232
—— sulphites (Chemistry), V, *b* 435
—— Thermometers, XXIII, b 313; (Heat), XI, a 500
Metalliferous veins (Geology), X, a b 281
Metalloids (Chemistry), V, b 412; of earth's crust (Geology), X, b 198; spectra of (Spectroscopy), XXII, a b 389
METALLURGY (Ill.), XVI, b 62–8
  arsenides, b 66
  assaying, a b 68
  blowing machines, a b 65
  chemical operations, a 66–7
  comminution, b 63
  fluxes, a b 67
  fuel, b 65–6
  furnace, reduction, b 64–5
  operations, sequence of, a 63
  ores, industrial order of, b 62–3
  oxides, a 66
  reagents, minor, b 66–7
  silicates, b 67–8
  sulphides, a b 66
  washing ores, b 63–4

—— (Alchemy), I, *a* b 410; (Annealing), II, b 57–8; (Babylonia), III, a 164, a 165; (Bismuth), b 687–8; (Egypt), VII, a 626; (Marseilles), XV, a 580; (Samoydes), XXI, b 263; (Plattner), XIX, b 224–5; (Tin), XXIII, b 427; ancient (Gold), X, a 659, b 666; (Iron), XIII, a b 296; mythological (Hephæstus), XI, a 605; rise of (Archæology), II, b 292–3, b 295, a b 296, a b 297–8
Metal Mirrors, XVI, a 523
Metalogicus, John of Salisbury's (Scholasticism), XXI, b 443
Metal piers (Bridges), IV, a 292; pipes (Organ), XVII, b 857, note
METALS, XVI, b 68–76
  acids, action of, b 75–6
  alkalies, action of, a 76
  alloys, b 73–5
  chemical changes, a 73–6
  chlorine, action of, b 76
  compounds, a 75
  conductivity, b 72–3, a 75
  discovery of, b 68
  elasticity, b 70–1, b 73
  electric properties, b 72, b 74
  fusibility, a 72, b 74
  oxygen, reactions, a 75, a b 76
  plasticity of, b 69–70, b 73
  properties of, a 69–73
  specific gravity, a b 71, b 73–4
  structure of, b 69
  sulphur, action of, b 76
  thermic properties, b 71–2, b 74–5
  union with non-metallic elements, a 75–6
  volatility, a 72
  water reactions, b 75

—— (Chemistry), V, a 412; (Constitution of Bodies), VI, a 277; (Diffusion), VII, b 188; (Heraldry) (Ill.), XI, b 615, b 616; (Money), XVI, a 749–64; (Pigments), XIX, a 94; Potassium, a 607–8, a b 610–1. See Precious Metals
——, alkaline (Chemistry), V, b 454–6, a 465; (Gay Lussac), X, *b* 110, note; (Iron), XIII, b 316; analysis for (Potassium), XIX, a 610–1; spectra of (Spectroscopy), XXII, b 389–90
——, compression of (Elasticity), VII, b 699, b 707; conductivity of (Electricity), VIII, a b 48. See Conductivity; contact theory of (Electricity), b 78–81; density of (Hydrometer) XII, a 574; of earth's crust (Geology), X, b 198; expansion of (Heat), XI, a 520–1; expansion test (Pyrometer), XX, a b 139; heat conductivity of (Forbes, James), IX, a 344; in Magnetism, XV, a 263, a 265; polyatomicity of (Chemistry), V, a 404; porosity of (Elasticity), VII, a 691, b 697, note
——, reactions (Blowpipe), III, b 728, a 729; with acids (Chemistry), V, b 443
——, Roman utensils of (Inscriptions), XIII, b 136
——, specific heat of (Heat), XI, a 515
——, spectra of (Spectroscopy), XXII, b 389–92
——, statistical table of (Europe), VIII, a b 604
——, strain on (Electricity), VIII, a b 89; strength of (Elasticity), VII, 708

Metals, transmutation of (Alchemy), I, a 409, b 410; (Chemistry), V, a 398; (Geber), X, a 113
— for type-making (Typography), XXIII, a 738, a 741, vibrations in (Acoustics), I, a 98; viscosity of (Elasticity), VII, *b* 695–6; used in writing (Palæography), XVIII, a 148
METAL-WORK (Ill.), XVI, b 76–85
  Byzantine, a b 80
  casting, a b 78
  English, a 82–3
  French, b 83–4
  German, a b 83
  Greek, b 79–80
  hammered work, b 78–9
  Italian, a 80–1
  literature, b 84–5
  manipulation, a 78–9
  material used, a 77–8
  Oriental, a b 84
  recent, b 84
  Spanish, b 81–2
— (Gipsies), X, a 551, b 552; (India), XII, b 801; (Japan), XIII, b 601; (Madagascar), XV, a 173; (Mexico), XVI, b 221; (Præneste), XIX, a 675; (Siam), XXI, a 893; (Tibet), XXIII, a 364; (Venice), XXIV, b 169; Byzantine, XVI, a b 80; (Sculpture), XXI, b 583; Greek, XVI, b 79–80; (Archæology), II, a 304, b 305, *b* 306, b 307; painting (Building), IV, a 458
Metamerism (Chemistry), V, b 477–8; (Mollusca), XVI, b 698
Metamorphic rocks (Coal), VI, b 45; (Foraminifera), IX, b 339–40; (Geology) (Ill.), X, a 206, a b 274, a 275, a b 277, b 278–80, *a b* 295; (Granite), XI, b 44; South America, I, a b 591
Metamorphism, chemical (Petroleum), XVIII, b 728–9
Metamorphoses of Ovid (Augustus), III, a 73; (Ovid), XVIII, b 82, b 83, b 85, b 86; (Romance), XX, a 657
— *du jour* (Gérard, J. I. I.), X, b 396
— *of Plants* (Goethe), X, a 650
METAMORPHOSIS, XVI, a 85; (Amphibia), I, b 666–7; (Arthropoda), II, a 568; (Bee), III, b 426–7; (Butterflies and Moths), IV, a 528–9; (Crab), VI, a 477; (Crustacea), a b 573; (Dragon-Fly), VII, a b 335; (Gnats), X, b 624–5; (Harvest-Bug), XI, b 447; (Harvey), b 451; (Hegel), b 553; (Hemiptera), b 576; (Hymenoptera), XII, a b 608; (Ichthyology), a 700–3, (Insects), XIII, b 151, b 152, a b 153; (Lycanthropy), XV, b 90–2; (Nematoidea), XVII, a 334–5; (Siredon), XXII, b 103–4; (Toad), XXIII, b 450; protoplasmic (Biology), III, b 590; stories of (Tiresias), XXIII, a b 434
Metamorphotic classification (Insects), XIII, a 154
Metáneeyek, El-, pyramids (Egypt), VII, a 671
Metaphor (Rhetoric), XX, a b 527
Metaphosphates (Chemistry), V, b 448–9
Metaphosphoric acid (Chemistry), V, b 448–9, b 450
Metaphrases (Symeon), XXII, a 850
Metaphysical Logic, XIV, b 806–7; XVI, a 99–104
— poets (Donne), VII, b 316; (Dryden), a 422
Metaphysico-psychological Logic, XIV, a 802–3
METAPHYSIC, XVI, a 85–108
  analysis of article, b 88
  Aristotle's treatise, a 85–6
    objections to, a b 83
  LOGIC, relation of, a 99–104
    analytic and synthetic functions, a 102–3
    antithesis of appearance and reality, Kant on, a b 103
    Aristotle's definitions, a 100, a b 101
    contradiction, law of, b 101–2
    form and method of knowledge, basis of, b 99–100
    genetic logic, b 103–4
    Hume's scepticism, b 102–3
    idealism, influence of recent, a 102
    presuppositions of, a 99–100
    self-abnegation defined, b 100–1
    subject and object, identity of, b 100, a 102
    universality of mind, a b 101
  name, origin of, a 85
  PSYCHOLOGY, relation of, b 93–9
    absolute ideas in consciousness, b 98–9
    a priori and a posteriori compared, a 97
    Aristotle's method, b 95–6
    mediæval speculation, a b 96
    Platonic method, a b 95
    religion and science not opposed, b 96–7
    scepticism, fallacy of, a b 94
    self-consciousness differentiated, b 94–5
    self-determinism, b 97–8
    spiritual development, a 97–8
    Socratic method, a 95
    transcendentalism of consciousness, a b 98
  RELIGION, philosophy of, a 104–8
    absolute and finite concepts, contrast of, b 107–8
METAPHYSIC, *continued*
  RELIGION
    Aristotle and Hegel, b 104–5
    criterion of metaphysic, b 104
    Descartes and Spinoza contrasted, b 105
    Hegel's dialectic, a 107
    idealism and Christianity, a b 107
    rationality of religion, b 106–7
    Schelling, pessimism of, a b 105
    social organic unity, a b 106
    unity of religion and metaphysic, a b 104
    unity of consciousness, b 105–6
  SCIENCE, relation to, b 86–93
    Analytic and *Dialectic* of Kant, relation of, b 91–2
    conclusion, b 93
    consciousness of reality, Kant on, a b 89, a 92
    contradictory influence of Kant, b 90–1
    experience and thought, relation of, a 88–9, a b 91
    Greek schools, b 86–7
    Hegelianism, b 92–3
    idealism of Kant, b 88–9, a 90
    later German speculation, a 92–3
    nominalism, modern, a 87–8
    relativity, Kant on, a 88–92
    results of Kantianism, a b 92
    scholasticism, a 87
    self and not-self, differentiation of, b 92–3
    self-determinism or moral law, Kant on, a b 90
    source of laws, Kant on, a 88
    unity, Kant on idea of, b 89, a 92
— (Æsthetics), I, b 191–2, a 195; (Animism), II, b 51; (Brown, Dr. Thomas), IV, b 348–9; (Bruno), a b 360; (Comte), VI, b 208–9; (Evolution), VIII, a 670; (Ferrier, J. F.), IX, b 96–7; (France), a b 588; (Galluppi), X, a 43; (Genovesi), b 142, a 143; (Germany), a 483, a *b* 486–7; (Hamann), XI, a b 359; (Hamilton), b 372–4, a b 375; (Herbart), a 642–4; (Hume), XII, b 360, a b 361, a 364, a 365–9; (Hutton), a 431; (Jacobi), XIII, b 546–8; (Kant), b 857–64; (Locke), XIV, a 764–9; (Logic), a 802–5, a b 806–7, a 811; (Lotze), XV, b 15, *a* 16; (Malebranche), a 335; (Mansel), a 505; (Philosophy), XVIII, b 805, a 806, a 807–8; (Tucker), XXIII, a b 641. See PSYCHOLOGY
Metaphysics of Aristotle, II, b 452, b 457–8; XVI, a 85–6, a 101, b 104; (Æsthetics), I, a b 194; (Categories), V, 194–5; (Logic), XIV, b 792, a 793; (Scholasticism), XXI, a *b* 444
—, *Compendium of* (Hutcheson), XII, b 424, *a b* 426
— *of Ethics* (Kant), XIII, a 855, a 857, b 860
Metaphysics, Hartmann's (Pessimism), XVIII, a b 703, Hindu (Sanskrit), XXI, b 302–6; of language (Grammar), XI, a 35; place of (Bacon), III, a 184, *a* 185, a 188; of Plato (Socrates), XXII, b 250–1
Metapolitics (Metaphysic), XVI, a 85
Metapollams, kerchiefs (Masulipatam), XV, b 630
METAPONTUM, city, XVI, a b 103; (Numismatics), XVII, *b* 653
Metapophysis, process (Ape), II, a 140, a 141; (Skeleton), XXII, b 119, a 120
Metastannic acid (Chemistry), V, a 467; (Tin), XXIII, a 429
METASTASIO or Pietro Trapassi, poet, XVI, b 108–10
  articled clerk, a 109
  bibliography, b 110
  La Romanina patronage, a b 109
  parentage and youth, b 108–9
  productions criticised, a b 110
  Vienna life, b 109–10
— (More, Hannah), XVI, b 840; (Gluck), X, *b* 618, a 619; (Haydn), XI, *b* 481; (Italy), XIII, a b 523
Metastasis (Insanity), XIII, a 108
Metatarsals, bones (Anatomy), I, a 728, b 729, b 738; (Ape), II, b 143; (Mammalia) (Ill.), XV, a b 363; (Penguin), XVIII, a 502, note; (Skeleton), XXII, b 126
Metatheria, division (Mammalia), XV, a 374, a 377, b 380–6
Metatron, angel (Kabbalah), XIII, a 821
Metatungstates (Tungsten), XXIII, b 645
Metaurus, or Metauro, river (Italy), XIII, b 418; battle of, 207 B.C. (Hannibal), XI, a 397
Meta-vanadate of ammonium (Vanadium), XXIV, b 60
Metáwile, sect (Lebanon), XIV, *a* b 395
Métayage (Agriculture), I, b 262, a 368–9; (Greece), XI, a b 79; (Madeira), XV, a 179; par groupes (Agriculture), I, b 369
Metazoa or enterozoa, grade (Animal Kingdom), II, b 46–9; (Histology), XII, b 6–7, a 8, a 9, a 11, a 12; (Hydrozoa), XII, *a* b 581, note; (Morphology), XVI, a 869; (Skeleton), XXII, b 113–4; (Zoology), XXIV, *a* b 850

- Metcalf, Theophilus, system of (Shorthand), XXI, a 876
- ——, William, engineer (Natural Gas), XVIII, b 893
- METCALFE, Charles Theophilus Metcalfe, baron, XVI, b 110-1; (India), XII, a 844, a 846; (Newspapers), XVII, b 443; (Punjab), XX, b 117
- Metchetnoye, town (Nikolaievsk), XVII, a 517
- Metellus, Quintus Cæcilius Balearicus, general (Balearic Islands), III, b 240; (Palma), XVIII, a 196
- METELLUS, Quintus Cæcilius Celer, consul, XVI, b 111; (Catullus), V, a 216
- METELLUS, Quintus Cæcilius Macedonicus, consul, XVI, a 111; (Archæology), II, a 321
- METELLUS, Quintus Cæcilius Numidicus, Jugurthine soldier, XVI, a b 111; (Jugurtha), XIII, *a* 777; (Rome), XX, *a* 777
- METELLUS, Quintus Cæcilius Pius, consul, XVI, b 111
- METELLUS, Quintus Cæcilius Pius Scipio, consul, XVI, b 111
- Metemme, town. See GALABAT
- METEMPSYCHOSIS, doctrine, XVI, b 111-2; (Micronesia), b 267; (Celtic Literature), V, b 276, a 277; (Druidism), VII, a 413; (Druses), b 418; (Eschatology), VIII, a 474; (Pherecydes), XVIII, b 747; (Pythagoras), XX, b 145; (Sanskrit), XXI, a b 303; (Vedanta), XXIV, a 129-30. See Transmigration of Souls
- Metenteron, gut (Mollusca), XVI, b 655, b 658
- METEOR, METEORITE, XVI, b 112-9
  - appearance of stones, a 117
  - comets, relation of, b 115-6
  - composition of, a b 118
  - description, b 112-3
  - Leonids, a b 115
  - luminous examples, a b 113, b 116
  - meteorites, b 116-9
  - motions of, a b 114, a b 117
  - number of, a b 114-5
  - orbits, b 115-6
  - showers, a 115
  - size of, b 117-8
  - sun fuel, b 118-9
  - trains of, b 117
- —— (Astronomy), II, b 713; (Aurora), III, a 86; (Humboldt), XII, b 357; (Nebular Theory), XVII, b 320; in solar atmosphere (Sun), XXII, a 683, a 684
- METEORA, monasteries, XVI, a b 119; (Thessaly), XXIII, b 319
- Meteoric Iron, XIII, a b 291; (Mineralogy), XVI, a 397; stone (Aërolite), I, a 167
- Meteorites (Aërolite), I, a 167; (Meteor), XVI, b 116; (Pacific Ocean), XVIII, a b 130; composition of (Geology), X, b 191; (Wöhler), XXIV, a 661; of Cranbourne, Orgueil, and Greenland (Carbon), V, a 77; fall of (Mechanics), XV, a 712; theory of new stars (Sun), XXII, a 686
- Meteoroids (Meteor), XVI, a b 114, b 118
- Meteorological charts, XVI, b 119-20, b 162-6; (Navigation), XVII, b 269; (Signal Service), XXII, a b 904. See Charts, Weather Maps
- —— Societies, XXII, a 237
- —— stations (Haparanda), XI, a 405; (Polar Regions), XIX, b 338
- —— Thermometers, XXIII, b 310; XVI, a b 120
- —— Tides, XXIII, a 375, a b 389
- Meteorologists, American (Signal Service), XXII, b 903-4
- METEOROLOGY (Ill.), XVI, a 119-92
  - development of the study, a 119-20
  - DIURNAL, a 120-37
    - air-temperatures, a 120-3
    - barometer oscillations, b 125-9
    - Brewster's curves of temperature, b 122-3
    - cloud variation, b 131-2
    - dew, b 125
    - hail period, b 136-7
    - humidity of air, b 123-5
    - land barometer pressures, b 127-8
    - lunar influence on pressure, a 129
    - oceanic barometer pressures, b 126-7
    - radiation, solar, a b 121
    - rainfall, b 132-3
    - range of temperature, a b 123
    - relative humidity, a b 125
    - sea temperatures, b 121-3
    - sources of heat, b 120-1
    - thermometer boxes, a b 120
    - thunderstorms, a 133-4
    - tornadoes (Ill.), b 134-6
    - wind direction, b 130
    - wind force, a 129-30
  - MONTHLY PHENOMENA (Ill.), a 137-64
    - African rains, b 158-9
    - American rains, b 157-8
    - annual mean pressure, a b 148
    - aqueous vapor, a 143-4, b 152
    - areas of pressure, a 141-2
    - atmosphere temperatures (Ill.), b 139-43
    - atmospheric pressure (Ill.), a 144-8
    - Australasian rains, b 156-7
    - barometric gradient, a 161-2
- METEOROLOGY, *continued*
  - MONTHLY PHENOMENA
    - causes of winds, a 152-3
    - Challenger observations, b 139-40
    - cloud, a 143-4
    - distribution of land and water, b 140
    - European rains, a b 157
    - forecasts of weather, a 163-4
    - isobars for January (Ill.), a 144-7; for July (Ill.), a 147-8; for the year, a b 148
    - isothermal chart, a 140-2
    - January pressures, a 144-7
    - July pressures, a 147-8
    - land temperature, a b 139
    - monsoons, b 153-4
    - mountain ranges, b 142-3
    - ocean currents, influence of, b 142
    - quality of winds, a 154-5
    - rainfall (Ill.), a 155-9
    - sea temperature (Ill.), a 137-9
    - snow, a b 159
    - storms, b 159-60
    - temperature, a 137-43
    - track of cyclones, b 160-1
    - trade winds, b 148-9, b 155
    - weather maps, a 162-3
    - wind velocity, a 161-2
    - winds in January, b 149-50; in July, b 150-1; prevailing, b 148-55
  - TERRESTRIAL MAGNETISM, a 164-92
    - analogies, meteorological and magnetic, b 189-90
    - annual and semi-annual variations, a b 179, b 181-2
    - auroras, b 184-5, b 190-1
    - barometric pressure, a 187
    - coefficients of instruments, a b 168
    - comparative changes, a b 184
    - conclusion, a b 192
    - differential magnetometers, b 166-8
    - disturbance, annual, b 178-9; diurnal (Ill.), b 176-8, a b 180; monthly, a b 178, a 180; 26 days, b 183
    - diurnal variation, b 173, a b 181, a b 189
    - earth currents, b 185-6, b 190-1
    - force, horizontal and vertical, b 179-82
    - Halley's theory, b 168-9
    - hypothetical views, b 188-92
- METEOROLOGY, *continued*
  - TERRESTRIAL MAGNETISM
    - inequalities, long period (Ill.), a 175-6, a 180; lunar, a b 186, b 191-2; solar, b 171-82
    - instruments (Ill.), a 164-8
    - land instruments, b 164-5
    - Lloyd's method, a 165-6
    - magnetic poles (Ill.), b 168-71
    - monthly variations, b 174-5
    - northern hemisphere, a 177-8
    - observatory instruments, a b 164
    - peaks and hollows, b 180-1
    - rainfall, a b 186
    - repetitions of changes, b 183-4
    - Sabine's system, a b 173-4
    - sea instruments, a b 166
    - secular variation, b 170-1, a 192
    - semi-annual inequality, b 175
    - solar variability and meteorology, a 187-8, b 189-90
    - solar variations, nature of, b 188-9
    - southern hemisphere, a 178
    - sun-spots, b 175, a b 182-3
    - tables of dip and declination, a b 172
    - temperature, b 187-8
    - various solar phenomena, b 182
    - weather, declination-range, b 176
- —— (Aëronautics), I, a b 176, a 177, a 178, *a* b 179; (America), a 593-5; (Asia), II, b 601-4; (Atmosphere), III, a 29, a 32; (Barometer), a 332; (Brazil), IV, b 202-3; (California), a 618, b 619; (Canada), 680-1; (Caspian Sea), V, a b 156; (Deluc), VII, a *b* 48; (Fitzroy), IX, a 238; (Greenland), XI, b 150, note; (Henry, J.), a 602; (Hereroland), a 655; (Himalaya), a 740-2; (Guatemala), XI, b 212; (Humboldt, A.), XII, b 357; (Hygiene), a 601; (Hygrometry), b 603-5; (India), a 776-8; (Indian Archipelago), b 855-6; (Kant), XIII, b 856; (Norway), XVII, a 593-4; (Pacific Ocean), XVIII, b 120-1, a b 122; (Phosphorescence), a 826; (Rainband), XX, b 267, a b 268; (Raingauge), a b 269; (Red Sea), b 329; (Scotland), XXI, a b 550; (Singapore), XXII, b 100; (United States), XXIII, a 854-9. See Climate

- Meters (Gas-Lighting) (Ill.), X, b 87-8; (Lighthouse), XIV, b 632; (Water-Supply), XXIV, *a* 432; current velocity (Hydromechanics) (Ill.), XII, a 534-6, a b 539
- Metge, Bernat, translator (Spain), XXII, a 378
- Methane, gas (Chemistry), V, b 427, a 482, *a b* 483, b 484, a 490; series (Coal Tar Colors), XVIII, b 899
- ——, mountain (Greece), XI, b 74
- Metheglin, drink (Honey), XII, a 141
- Methides, metallic (Methyl), XVI, a 206
- Method, anatomical (Physiology), XIX, b 25
- ——, concrete (Poetry), XIX, b 269
- ——, experimental (Physiology), XIX, b 25, a b 26
- ——, historical (Church History), V, a 666-7
- ——, logical (Analysis), I, a 699; (Theology), XXIII, b 282-3, a 284-5
- Methodic school (Medicine), XV, *b* 812, a 814
- METHODISM, sect, XVI, a 192-292
  - American forms of, b 199-200
    - Episcopal connections, b 199-200
    - non-episcopal bodies, a b 200
  - Separatist bodies in Britain, b 200-2
    - Bible Christians, b 200-1
    - œcumenical conference, a 201
    - secession bodies, b 200-1
    - Welsh Calvinists, b 201-2
  - WESLEYANISM, a 192-9
    - affiliated and colonial conferences, a b 199
    - church-views, Wesley's change of, a b 195
    - conferences, rise of, a 195
    - consolidations of Bunting's time, b 197-8
    - controversies and secessions, a b 198
    - conversion of Wesley, a b 193
    - death of Wesley, effects of, a b 196
    - doctrines of, b 199
    - evangelism of Wesley, b 193-4
    - existing organization, b 198-9
    - Kilham agitation, b 196-7
    - Leeds-settlement, a b 197
    - ministrations of Wesley's time, b 194-5
    - ordinations begun, b 195
    - organization under Wesley, b 195-6
    - Oxford movement, b 192-3
    - societies of Wesley, a b 194
- —— (England), VIII, a 224; (England, Church of), a 339; (Hymns), XII, b 628-9; (Ireland), XIII, b 245, a 247; (Italy), b 469; (Snethen), XXII, a b 916; (Whitefield), XXIV, a b 582; disruptions in (United States), XXIII, b 818, note; influence of (Universities), a 909; statistics of (United States), b 884
- Methodist Protestant Church (Methodism), XVI, a 200; (Snethen), XXII, b 916
- METHODIUS, Saint and Slavic apostle, XVI, a b 202; (Missions), a 536
- ——, monk and painter, XVI, b 202
- —— of Tyre, bishop (Hymns), XII, *a* 614
- *Method of Least Squares* (Legendre), XIV, b 414. See Squares
- Methodology (Evolution), VIII, a 673
- *Methodus Plantarum Nova* (Ray), XX, a 314
- Methow, river (Washington), XXIV, a 407
- Methuen, John, diplomatist (Portugal), XIX, *b* 564
- METHYL, chemical radical XVI, b 202-6
  - alcohol, a 203-4
  - arsenides, b 205-6
  - compounds, b 204, a 205-6
  - cyanides, a b 205
  - metallic methides, a 206
  - methylamines, b 204-5
  - phosphines, b 205
  - properties of, b 202-3
  - sulphur compounds, b 205
  - sulphuric acid, reactions, a b 204
- —— alcohol (Chemistry), V, a b 488, a 489; (Fuel), IX, a 709; (Nitroglycerin), XVII, b 534
- Methylated spirit (Adulteration), I, b 159; (Alcohol), b 415
- Methyl butyrate (Heat), XI, *b* 501, *a* 502, note
- Methylic ether (Ice), XII, b 648, a 649
- Methyl-iodide (Iodine), XIII, b 208
- Methymna, city (Lesbos), XIV, *b* 474-5; (Numismatics), XVII, a 663; (Troad), XXIII, b 616
- Metics, Greek caste (Solon), XXII, b 268
- Metidja, plain (Algeria), I, a b 496, a 502
- Metilin, island (Lesbos), XIV, a 474
- Metis, goddess (Zeus), XXIV, a 821
- Metius, James, optician (Telescope), XXIII, *a* b 147
- Métivier, George, philologist (Channel Islands), V, b 340
- Metkarí, land tenure (Akolá), I, b 387
- Metonic cycle. See Cycle of Meton
- Metopes, Greek (Architecture), II, a 354, *a* 359; from Selinus (Archæology), II, a 302, b 305, a 308
- Metre, measure (Arago), II, a 264; France, IX, b 46; (Weights and Measures), XXIV, a *b* 507, *b* 517, a 518. See Metric System
- Metre (Accent), I, a b 78; in verse (Alcaics), a 405; (Alexandrine Verse), a 442; (Archilochus), II, a b 332; (Boeckh), III, b 739-40; (Byron), IV, a 543; (Calderon), b 586, a 587; (Catullus), V, b 218; (Gascoigne), X, b 93; (Hephæstion), XI, a 605; (Hipponax), b 763; (Homer), XII, b 123-4; (Horace), b 164-5, a 168, a 169; (Hymns), *a* b 614, b 616-7; (Iceland), *a* 664; (Latin), XIV, a 330-1, b 332, b 335; (Livius Andronicus), a b 729; (Pherecrates), XVIII, a 747; (Poetry), XIX, a b 270, a 271, b 282-3; (Roman Literature), XX, b 735-6, a 737, a b 742; (Sophocles), XXII, a b 287; (Syriac Literature), b 867 note, a 868, b 872; Byzantine (Greece), XI, b 106-7; or Chhandas (Sanskrit), XXI, b 287, b 290, a 308; heroic in drama (Shakespeare), a 798; hexameter (Roman Literature), XX, a 742; Hindu (Hindustani Literature), XI, a b 756; (Sanskrit), XXI, b 287, b 288, a 308; Saturnian (Roman Literature), XX, b 735-6
- Metretes in Weights and Measures, XXIV, a 510, *b* 512, *a* 513
- Metrical Diagrams, VII, b 128
- —— Geometry, X, b 368, b 369, a 370, b 374
- —— Psalter (English Language), VIII, b 353
- Metric System (Earth), VII, b 517, b 525; (Elasticity), b 700, note; (Lagrange), XIV, b 209; (Legendre), b 209; (Weights and Measures), XXIV, b 507, b 517; base arc (Delambre), VII, a 37. See Metre
- Metriophyllum, genus (Corals), VI, a 339, b 340, a 341
- Metrodorus, philosopher (Epicurus), VIII, *a* b 420; (Mythology), XVII, b 143; (Mnemonics), XVI, a 556
- METRONOME, instrument, XVI, a 206
- Metroon, temple at Athens (Phrygia), XVIII, b 867
- Metropolitan, high bishop (Archbishop), II, a b 323, a 324; (Bishop), III, a 684; (Congé d'Elire), VI, b 235; (Convocation), a b 289, a b 290, b 292, a 293; (Diocese), VII, a 213; (Episcopacy), VIII, *a* 433; (Greece), XI, a 78; (Greek Church), *a b* 138, *b* 140; (Popedom), XIX, b 504, note, b 506
- —— Board of Works (London), XIV, b 827, *a b* 829, b 831. a b 832, *b* 833, a *b* 835-6, b 837
- —— Museum of Art (New York), XVII, b 478-9
- —— Opera House (New York), XVII, a 473
- —— Police Act and force (Police), XIX, b 348, b 349, a b 351, a b 352, b 353
- —— Poor Act (Poor Laws), XIX, a b 490, b 492
- —— Railways (Ill.), XX, a 248-50
- —— Streets Act (Police), XIX, b 352
- —— system, London (Railway), XX, b 233-4, a 235, a 248-9, 253, a 255, a 256, b 258
- Metschnikoff (Animal Kingdom), II, *a* 48; (Schizomycetes), XXI, b 417, note
- METSU, Gabriel, painter, XVI, b 206-7
- Metten, village (Deggendorf), VII, a 30
- METTERNICH, Clemens Wenzeslaus, prince, XVI, b 207-11
  - ambassador, b 207-8
  - conservative leader, a 209-10
  - character of, b 210
  - constitutionalism repressed, a 209-10
  - education, b 207
  - failures in Greece, France and Russia of, a b 210
  - minister, a 208-10
  - Napoleonic career, a 208-9
  - Neapolitan revolution, b 209-10
  - writings of, b 210-1
- —— (Austria), III, a 117, a b 118, a 119; (Ferdinand I., Austria), IX, a 69; (Gentz), X, b 145, *a* 146; (Germany), a b 453; (Hungary), XII, b 385, a 386; (Londonderry), XIV, a *b* 866; (Napoleon I.), XVII, a 226; (Nesselrode), b 362-3
- METZ, city (Map), XVI, a 211-2; (Aqueduct) (Plate IV), II, b 192; (Fortification), IX, b 401, a 413; (Henry II., France), XI, b 597; bishopric (Germany), X, a 448, b 449; siege of, 1552 (Charles V., Emperor), V, a 361; in 1870 (France), IX, a b 552
- Metzger, physician, 1764 (Phrenology), XVIII, a 858, a 863
- Metzgeria, genus (Muscineæ) (Ill.), XVII, a b 73
- Meudon Observatory, XVII, *a* 732
- MEULEN, Antony Francis van der, painter, XVI, a-b 212; (Huchtenburg), XII, *b* 343; (Huysmans), *b* 433
- ——, Pauline de, authoress (Guizot), XI, b 237-8
- Meung, Jean de, poet. See Jean de Meung
- Meurthe, river, XVI, *b* 212; (France), IX, a 446, b 457
- MEURTHE-ET-MOSELLE, department, XVI, b 212
- *Meurvin*, tale (Romance), XX, a 669
- MEUSE, department, XVI, b 213
- MEUSE, Maese or Maas, river, XVI, a b 213; (Ardennes), II, *a* 423; (Belgium), III, *a* 445; (France), IX, a 446, b 457; (Holland), XII, b 61, a 63, b 64, a b 65; (Limburg), XIV, b 652; (Marne, Haute-), XV, b

- MEUSE, *continued* 568-9; (River Engineering), XX, a *b* 592, a 593, a 595; (Vosges), XXIV, b 319, a 320; diluvium of (Holland), XII, *a* 65
- Meves, naturalist (Lämmergeyer), XIV, b 214 note
- Mevlevis, order (Dervish), VII, b 98, a 99, note
- Mew, bird (Gull), XI, b 242
- Me-wang river (Siam), XXI, a 890
- Mewát hills (Delhi), VII, b 41
- Mexican amalgamation process (Silver), XXII, a 77
- —— ancient (Fairs), VIII, a 742; Aztec writing, XVI, b 220-1; (Alphabet),1,b 529, a 530
- —— Boundary Commission (Surveys), XXII, a 936
- —— Central railway, XVI, b 905, a 909
- —— crusher (Gold), X, b 664
- —— Dictionaries,VII, a 168
- —— fauna, XVI, a b 226; (Distribution),VII, a b 238, b 251
- —— gum (India-Rubber), XII, 879
- —— Indians, XVI, a 214-22; (America), I, a 610-1; (Archæology), II, a 293, b 297, b 298; (Cannibalism), IV, *b* 713; (Caste), V, a 163; (Indians), XII, a 868; (Mythology), XVII, a b 238; (Zodiac), XXIV, a 833. See Aztec
- —— National railway, XVI, b 905, a 906, b 910
- —— Pilgrimage, XIX, b 100
- —— rites, XVI, a 319-20; (Sacrifice), XXI, b 145; (Festivals), IX, a b 100; (Funeral Rites), b 724
- —— War, 1846-8 (Kentucky), XIV, b 46; (Pierce), XIX, b 90; (Quitman), XX, a 894; (Santa Ana), XXI, b 905; (Scott), a 577 note; (Taylor), XXIII, b 102; (United States), a 816
- —— ware (Pottery and Porcelain), XIX, b 652-3
- MEXICO, country (Plate I), XVI, a 214-30
  - ANCIENT, a 214-22
    - Aztec conquests, a 217-8
    - authorities, b 222
    - Central American culture, a b 222
    - civil organization, a 218-9
    - civilization, a 218-22
    - migrations, prehistoric, a b 215
    - name, applications of, a 214
    - native history, a 216-8
    - origin of tribes, a 214-5
    - palaces, a b 218
    - picture records, a b 216
    - religion, a 219-20
    - social customs, a 221-2
    - traditions, b 216-7
    - war, a 219
    - writing, b 220-1
  - APPENDIX, a 897-912
    - agriculture, b 910-1
    - American influence, b 911-2
- MEXICO, *continued*
  - APPENDIX
    - banking, a 904
    - city, b 903, a 905, a 910
    - coal, a b 909
    - colonization, a 902
    - commercial features, b 903-5
    - constitution, b 898-9
    - debt, b 902-3
    - education, b 903
    - foreigners, rights of, a 900, a 901
    - forests, b 910
    - history, a 897-8
    - Indians, a b 898, a 911, a 912
    - lands, public, a 901, b 902
    - laws, b 899-901
    - literature, b 912
    - manufactures, a b 910
    - marine products, b 909-10
    - mining, a 900-1, a 907-9; gold and silver, a 907-9; other minerals, a b 909
    - postal and telegraph system, b 903, a 905
    - railways, a 905-7
    - revenues, a b 901
    - ship railways, b 906-7
    - states of, b 899, a b 901, a 908-10
    - taxation, a b 901-2
    - topography, railway, a b 906
  - REPUBLIC, b 222-30
    - boundary lines and states, b 222-3
    - city, the capital, a 229-30
    - climate, b 225
    - colonial period, b 227-8
    - fauna, a b 226
    - geology and minerals, b 224-5
    - history, b 227-9, b 230
    - independent period, a 228-9
    - industrial features, b 226-7
    - literature, a 229
    - mountain systems, a 223-4
    - social organizations, a 227
    - vegetation, b 225-6
    - water systems, a b 224
- —— (America), I, a 592, a b 597, a 610-1, a 623, b 626-7; (Andes), II, b 15-6; (Cochineal), VI, *b* 89; (Cocoa), a 93; (Cortes), b 390-1; (Cotton), a 430; (Hippolytus, St.), XI, b 763; (Iturbide), XIII, a b 528; (Juarez), b 768-9; (Libraries), XIV, a 536, b 554; (Mahogany), XV, b 290; (Mining), XVI, a 493; (Missions), *b* 536; (Press Laws), XIX, a 733; (Texas), XXIII, b 223; (Prison Discipline), XIX, b 780-1; (Railway), XX, a 263; (Santa Ana), XXI, a b 905; (Vanilla), XXIV, a *b* 73-4; (Weights and Measures), a 518; early printing in (Typography), XXIII, b 729; endemic skin-disease (Parasitism), XVIII, b 274; French withdrawal from (United States), XXIII, b 830
- *Mexico, History of Conquest of* (Solis), XXII, b 264-5
- ——, city XVI, a 229-39, b 903, a 905, a b 910; (Observatory), XVII, b 736; (Newspapers), a 449; (Scott), XXI, a 577, note
- ——, state, XVI, a 223
- ——, Gulf of (Cuba), VI, b 600-1; (Meteorology), XVI, b 615; (Mississippi), b 543, b 544, b 545; (United States), XXIII, *a* 841; (West Indies), XXIV, *b* 538
- Mexillones, department (Bolivia), IV, a 15
- Meydell, Baron, physician (Hospital), XII, a 316
- Meydoum or Medum pyramid (Architecture) (Ill.), II, a *b* 338; (Egypt), VII, a 671; Pyramid, XX, b 128, a 129, b 130
- Meyen, botanist (Parasitism), XVIII, b 268, a 271 note
- Meyer, A. B., naturalist (Lory), XV, a b 9, note
- ——, Conrad, pianoforte-maker, XIX, a 85
- ——, Edouard, orientalist (Zoroaster), XXIV, b 859
- ——, Hermann von, naturalist (Birds), III, b 631 note, *b* 633; (Ornithology), XVIII, b 37
- ——, Lodewijck, dramatist (Holland), XII, a 99
- ——, Lothar, chemist (Chemistry), V, *b* 418, b 469, *b* 471; (Ice), XII, b 647 note; (Iodine), XIII, b 208, a 209
- Meyer, O. E., physicist (Molecule), XVI, a 639, a 640, b 641
- ——, Spinozist editor (Descartes), VII, a 110; (Paul), XVIII, b 433, note
- MEYERBEER, Giacomo, musician, XVI, a 230-1
- Meyer-Merian, T., poet (Switzerland), XXII, b 838
- Meyer's experiment, optical (Psychology), XX, a b 55
- Meygal, mountains (Loire, Haute-), XIV, *a* 817
- Meynert, physician (Anatomy), I, *a* 765, a 766, *b* 770, a *b* 771
- Mezeñ river (Russia), XXI, b 80; (Vologda), XXIV, *b* 303
- Mezenc, mountain (Ardèche), II, b 422; (Cevennes), V, b 311; (France), IX, b 445; (Loire, Haute-), XIV, *a* 817
- Mezentius of Cære, prince (Rome), XX, a 753
- Mézeray, François Eudes de, historian (France), IX, b 580; (History), XII, a 23; (Retz, Gilles de), XX, b 270
- Mezereon, plant (Laurel), XIV, b 349-50
- Mezeriac, Bachet de, mathematician (Algebra), I, b 451
- Mezetsk, town (Meschovsk), XVI, b 50
- Mezha river (Smolensk), XXII, a 193
- MÉZIÈRES, town, XVI, b 231; (Fortification), IX, b 394; military school of (Monge), XVI, a 765; siege of (Bayard), III, b 395
- ——, novelist. See RICCIBONI
- Mezomorto, Husain, admiral (Algeria), I, a 499
- Mezoor Dagh, range (Kurdistan), XIV, b 156-7
- MEZO-TUR, town, XVI, b 231-a 232
- Mezûza, charm (Phylactery), XIX, a 5
- Mezzadria land system, or mezzaria (Agriculture), I, a 368; (Italy), XIII, b 461-2, note
- Mezza-majolica (Pottery and Porcelain), XIX, b 643
- MEZZOFANTI, Giuseppe, cardinal, XVI, a 232
- Mezzotint (Engraving), VIII, a b 396; (Turner, C.), XXIII, a 705; shading (Surveying), XXII, a b 747, a 751
- M'fumbiro, mountain (Africa), I, b 225
- Mganga, sorcerer (Magic), XV, *b* 201
- Mgharba, tribe (Borgu), IV, a 49
- Mglanga, chief (Zululand), XXIV, a 868
- Mglin, town (Tchernigoff), XXIII, a 103
- Miako, town (Kiôto), XIV, b 94-5; (Xavier), XXIV, b 753
- Miamis, tribe (Indians), XII, b 871
- Miánás, sect (Cutch), VI, b 645
- Mianguiri, island (Honduras), XII, *b* 133
- Miáni, battle of, 1843 (India), XII, a 847
- Mián Mír, cantonment (Lahore), XIV, a 213, *a* 214
- Miankal, island (Zerafshan), XXIV, a 820
- Miaoulis, Andreas Vokos, patriot (Greece), XI, b 111
- ——, Antonios, historian (Hydra), XII, b 446, a 447
- Miàramìla, military (Madagascar), XV, b 172
- Miargyrite (Mineralogy), XVI, b 410
- Miask ores (Gold), X, a b 661
- Miaskowski, Caspar, poet (Poland), XIX, b 312
- Miasma (Eucalyptus), VIII, b 570. See Malaria
- Miastor metroloas, species (Insects), XIII, *a* 153
- MIAUTSE or Meaoutsze, tribe, XVI, a b 232; (China), V, *a* 556, a 558-65, a 566
- Mibora (Grasses) (Ill.), XI, b 50
- Mica, mineral (Geology), X, a 203, a 205; (Granite), XI, *a b* 41; (Mineralogy) (Ill.), XVI, b 283, b 389, b 390, a 393, a 394, b 430-1; (Mining), a 461; (New Mexico), XVII, b 410; (North Carolina), b 573, a 575; plate colors (Wave Theory), XXIV, b 475-6
- Micaceous Iron ore, XIII, b 292
- MICAH, prophet, XVI, b 232-4; (Moloch), a 722, a 723
- —— or Mîkhâ of Lashon, bishop (Syriac Literature), XXII, a b 871

- Micanzio, Fulganzio, biographer (Sarpi), XXI, a 328
- Mica schist rock (Geology), X, b 210, 211
- "Micawber, Wilkins" character (Dickens), VII, a 150
- Micchino, spice (Ginger), X, b 538
- Micellæ (Histology), XII, a 14, note
- MICHAEL, angel, XVI, b 234
- MICHAEL I., emperor, Byzantine, XVI, b 234
- MICHAEL II., emperor, Byzantine, XVI, a 235
- MICHAEL III., emperor, Byzantine, XVI, a 235; (Greece), XI, b 102
- MICHAEL IV., emperor, Byzantine, XVI, a 235
- MICHAEL V., emperor, Byzantine, XVI, a 235
- MICHAEL VI., emperor, Byzantine, XVI, b 235; (Isaac I.), XIII, b 384
- MICHAEL VII., emperor, Byzantine, XVI, b 235
- MICHAEL VIII., emperor, Byzantine, XVI, b 235; (Constantinople), VI, *b* 274; (Greece), XI, a b 107; (Greek Church), b 139-40; (John IV.), XIII, a 724; (Martin IV.), XV, a 589; (Mongols), XVI, a 773; (Palæologus), XVIII, a 170; (Sicily), XXII, b 32, a 33
- MICHAEL IX., emperor, Byzantine, XVI, b 235
- —— I. of Russia, czar, XXI, a 104
- "Michael," ship (Leith), XIV, b 432
- —— Acominatus, archbishop (Greece), XI, b 106
- —— the Brave, voivode (Roumania), XXI, b 21-2
- —— of al-Ahwāz, bishop (Syriac Literature), XXII, a 893
- —— Karageorgevich, prince (Servia), XXI, *a* 722
- —— of Melitēne the Elder patriarch (Syriac Literature), XXII, *a* b 896
- —— of Melitēne the Younger, Big Lips, patriarch (Syriac Literature), XXII, a 896 note
- —— Scantbeard, governor (Turkey), XXIII, a 682
- Michaelis, Christian Benedict, Hebraist (Michaelis), XVI, a 236
- MICHAELIS, Johann David, Biblical scholar, XVI, a 236-7; (Canticles), V, a 31; (Hebrew Language and Literature), XI, a 537
- ——, Johann Heinrich, Hebraist, XVI, a 236
- Michaelius, Jonas, divine (Presbyterianism), XIX, b 717
- Michaelmas, festival (Michael), XVI, b 234
- Micharino or Domenico Beccafumi, painter, III, b 411; (Siena), XXII, a *b* 44, a b 49
- MICHAUD, Joseph, historian, XVI, a 237; (Old Catholics), XVII, b 776, a 778
- MICHAUX, André, botanist, XVI, a 237
- MICHAUX, François André, botanist, XVI, b 237
- Michel, Claude or Clodion, sculptor (Sculpture), XXI, a 590
- MICHEL ANGELO, artist, XVI, b 237-44
  - bibliography, b 243-4
  - Clementine period, a b 242
  - first Florentine period, a 238-9
  - Julian period, b 239-41
  - last days, b 243
  - Leontine period, b 241
  - Medicean period, a 238, a b 243
  - parentage and training, a 237-8
  - painting, 1st period, b 239
    - Clementine, b 242-3
  - Pauline period, b 242-3
  - poetry, a 243
  - sculpture, 1st period, b 238-9
    - Julian period, a 240, b 241
    - Leontine period, b 241, a b 242
  - Sixtine frescoes, a 240-1, b 242-3
- —— (Amphitheatre), I, a 680; (Architecture), II, b 383; (Drawing), VII, b 388; (Donatello), a 311; (Fresco), IX, *b* 678, a *b* 679, *a* b 680; (Gems), X, a 126; (Glass), a *b* 598; (Leonardo), XIV, b 457, b 458, b 459, *a* 460, a 461; (Orvieto), XVIII, b 57; (Perugino), b 695, b 696; (Rome), XX, a 858; (Sarto), XXI, *b* 331; (Sculpture), b 595, *b* 598; (Sebastiano del Piombi), *a b* 646; (Schools of Painting) (Ill.), a 453, b 462, *a* 465, a 466, b 467; (Signorelli), XXII, *a* 56; (Tempera), XXIII, a 174; (Torrigiano), a 482; (Titian), a 442, a 443, a 444
- Michelborne, Sir Edward, pirate (India), XII, b 837
- *Michel de Bourges* (Dudevant), VII, a b 440
- MICHELET, Jules, historian, XVI, a 244-6
  - empire, life under the, a 245
  - historical composition, period of, a b 244, a 245
  - literary characteristics, a 245-6
  - parentage and training, a 244
  - scientific and miscellaneous period, b 244-5
- —— (France), IX, b 598; (Reformation), XX, b 333
- ——, Karl Ludwig, philosopher (Hegel), XI, *b* 554
- Michell, Sir Francis (Knighthood), XIV, b 126
- MICHELL, John, scientist, XVI, a 246; (Astronomy), II, b 693; (Earthquake), VII, b 526
- MICHELOZZI, sculptor, XVI, a b 246
- Michel's extraction apparatus (Sulphur), XXII, b 668
- Michieli, Domenico, doge (Venice), XXIV, b 166
- ——, Vitate (Venice), XXIV, a 154
- Michelson, A., astronomer (Wave Theory), XXIV, b 484, a b 485
- Michigan, Lake, XIV, a b 218, a 222 (St. Lawrence), XXI, b 187-8, b 191
- MICHIGAN, state (Plate II), XVI, b 246-9
  - authorities, b 249
  - charities and reformatories, a 249
  - education, b 248-9
  - fisheries, b 248
  - history, a 249
  - lumber, b 247
  - minerals, b 247-8
  - physical features, b 246-7
  - population, a 249
  - vegetation, a-b 247
- —— (Coal), VI, a 57; (Homœopathy), XII, b 131; (Liquor Laws), XIV, a 695; (Peppermint), XVIII, b 529; (Reformatories), XX, *b* 900, *a* 901, b 903; (Universities), XXIII, a 913, a b 955, b 960, a b 961, a b 962; (Workingmen), XXIV, *a* 918, a 919; history of (United States), XXIII, a 795, b 811, *b* 813, a 817, a 822; statistics (United States), b 853, a 855, a 856, a b 857, a b 860, *a* 861, b 864, *a* 866, *b* 870, *b* 872, a *b* 873, b 877, b 878
- MICHIGAN CITY, town, XVI, b 249
- —— University Observatory, XVII, b 735
- MICHMASH, town, XVI, b 249; pass (Israel), XIII, a 413
- Michoacan, state (Mexico), XVI, a 223, b 901, a 908, b 909, b 911
- Micipsa, king, Numidia (Jugurtha), XIII, *a* b 776
- MICKIEWICZ, Adam, poet, XVI, a b 250; (Poland), XIX, *b* 315
- MICKLE, William Julius, poet, XVI, b 250; (Camoens), IV, *b* 662
- Mickle Fell (York), XXIV, a 784
- Micklegate Bar (York), XXIV, b 785
- Micmacs, tribes (Indians), XII, b 867, a 871
- Micoureus, group (Opossum), XVII, b 819
- Microbes (Typhus), XXIII, b 720. See Bacteria
- Microchæta (Worm), XXIV, b 712, a 717
- Microchiroptera, sub-order (Mammalia), XV, a b 412, b 414-20
- Microcline (Mineralogy), XVI, b 384, b 437
- Micrococci, bacteria (Pathology), XVIII, a 408, b 417; (Schizomycetes) (Ill.), XXI, a *b* 416, *a* 417, *b* 418, a 420, a b 421, a 422, a 423; (Surgery), XXII, a 714, a 718, b 719
- Microcodon, animalcule (Rotifera) (Ill.), XXI, b 8, b 9, a b 10, a 11
- Microcosmic salt (Phosphorus), XVIII, a 833; (Titanium), XXIII, a 438; flux (Blowpipe), III, b 728, a 729
- *Microcosmographie*, book (Earle), VII, a 515
- *Microcosmos* (Heylin), XI, a 701
- Microcotylidæ, family (Trematoda) (Ill.), XXIII, a b 573, a 574
- Microfarad, unit of measure (Telegraph), XXIII, a b 124
- Microgale, genus (Mammalia), XV, a 409
- Microgonidia, granulations (Lichens), XIV, b 556; (Protozoa), XIX, *b* 882, b 888
- *Micrographia* of Hooke (Microscope), XVI, a 266
- Microlestes, fossil (Distribution), VII, b 245; (Mammalia), XV, b 377
- Microlite (Mineralogy), XVI, a 445
- Micromastictora, division (Sponges), XXII, b 437-8, b 441
- MICROMETER (Ill.), XVI, b 250-66
  - Bonn heliometer, b 263-4
  - Clark's instruments, b 254-5, a 257
  - classification, filar, b 252
  - diurnal motion instruments, b 265-6
  - divided lens, a 261-2
  - Dollond's devices, b 259-60
  - double image instruments, b 259-61
  - double refraction instruments, a b 262
  - errors, a b 255, b 257
  - Fraunhofer, b 253-4, a 261
  - Gascoigne and Huygens, a b 251
  - Grubb's duplex, a b 257
  - heliometer, modern, b 262-5
  - illumination of, a 258-9
  - inventive steps, b 250-1
  - Königsberg heliometer, b 262-3
  - Lindsay-Gill improvements, b 255-6, b 264
  - miscellaneous types, b 266
  - modern filar, a 252-8
  - position angles first used, a 252
  - Repsold instruments, a 256-7
  - reversed prism, b 265
  - Russian heliometers, a b 264
  - spider webs introduced, b 251-2
  - Triesnecker's measurements, b 260-1
  - Troughton instruments, b 252-3
  - use, how to, b 257, a 262-3
  - webbing, b 257-8
  - Yale college heliometer, b 264-5
- —— (Microscope), XVI, a 289-90; American (Telescopic Work), XXIII, a 935; Cook's (Rainband), XX, b 268; in stellar observations (Parallax), XVIII, b 257; microscope (Surveying), XXII, b 754-5; research Telescope, XXIII, a 164
- —— gauge (Ill.), X, a 100; invention of (Watt), XXIV, b 434-5
- Micromonacha, genus (Puff-Bird), XX, b 106
- Micromorinidæ, family (Sponges), XXII, b 440
- MICRONESIA, XVI, b 266-8; (Missions), b 539; (Polynesia), XIX, b 431; (Taboo), XXIII, a 22

- Microphone, Hughes (Telephones), XXIII, b 931; transmitters (Telephone) (Ill.), b 130-40, b 142-3; working (Telephone), XXIII, b 144
- Microphytes. See Micrococcus
- Micropyle or foramen (Botany) (Ill.), IV, a 132, a 140; of ova (Reproduction), XX; a 427, a 430
- Microscleres, group (Sponges) (Ill.), XXII, a 432, b 433-4
- Microsclerophora (Sponges), XXII, a b 440, b 442
- MICROSCOPE (Ill.), XVI, a 268-90
  - BINOCULAR INSTRUMENTS (Ill.), a 284-6
    - Nachet's instruments, b 284-5
    - non-stereoscopic instruments, a b 286
    - relief, conditions of, b 285-6
    - stereoscopic, a 284-6
    - Wenham's instrument, a b 285
  - EYE PIECES (Ill.), a 277-8
  - HISTORY, a 268-77
    - Abbe's refracting medium, b 275
    - aberration overcoming chromatic, b 272-3
    - achromatic doublets, b 270-1
    - aperture angle enlarged, b 273-4
    - compound microscopes (Ill.), a 271-4
    - convex lens, effect of, b 269-70
    - diffraction spectra, a 276-7
    - dioptric images, a 276-7
    - eye, adjustments in the, a b 269
    - focal adjustments, a b 272
    - homogeneous immersion, b 275-6
    - immersion system, b 274-7
    - mineral lenses, a 270
    - mounting, a 271
    - objectives, achromatic, a b 273
    - primitive lenses, b 268-9
    - simple microscopes, b 268-71
    - test-objects, a 274, a 277
    - Tulley's triplets, b 272-3
    - two lenses, b 271-2
    - water immersion, b 274-5
    - Wollaston doublets, a 270-1
  - ILLUMINATING APPARATUS (Ill.), a 281-4
    - black background, a 283-4
    - mirror and condenser, b 281
    - cut-off diaphragms, b 281-2
    - oblique illumination, a 282

MICROSCOPE, *continued*
  - ILLUMINATING APPARATUS
    - opaque bodies, a b 282
    - vertical illuminators, b 282-3
    - Wenham's paraboloid, b 283-4
  - MECHANICAL CONSTRUCTION (Ill.), b 286-9
    - adjustment, b 286-7
    - examples, typical, b 287-9
    - mounting, b 286
    - position, a b 287
    - simplicity of parts, b 287
  - MICROMETRY, a 289-90
  - OBJECTIVES (Ill.), a 278-81
    - aperture enlargement, a 278-9
    - dry and immersion objectives compared, a b 279
    - flatness of field, a b 280
    - focal adjustment, a 280
    - penetration and resolution, b 279-81
    - powers obtained, a b 281
    - test-objects, a b 281

- —— (Amici), I, a 647; (Crystallography), VI, b 598; (Galileo), X, b 32; (Leeuwenhoek), XIV, a 411-2; (Malpighi), XV, a b 340; (Optics), XVII, a b 830, a 831; (Riddell), XX, a 909; (Protoplasm), XIX, *b* 850; (Torricelli), XXIII, a 482
- ——, binocular, XVI, a 284-6; (Stereoscope), XXII, b 568-9; compound (Ill.), XVI, a 271-4; (Light), XIV, b 598, a 599; limits of (Atom), III, b 37; (Wave Theory), XXIV, a 460, b 461; omnimeter (Surveying), XXII, a b 757; mounting, XVI, a 271; (Diatomaceæ), VII, a 148; (Transit Circle), XXIII, b 548
- Microscopical Societies, XXII, a 237
- Microscopic Anatomy, I, a 717; (Pathology), XVIII, a b 409; (Zoology), XXIV, a 840, a 843
- —— examination of rocks (Geology) (Ill.), X, b 205-6
- —— -micrometer (Surveying), XXII, b 754-5
- Microseismometer (Seismometer) (Ill.), XXI, b 660-61
- Microsommite (Mineralogy), XVI, a 430
- Microsporangia, organs (Botany), IV, a 127; (Reproduction), XX, a 437
- Microstoma, genus (Salmonidæ), XXI, a 232, b 234
- Microstomida, family (Planarians), XIX, b 183, b 184, a b 185
- Microtome, automatic (Zoology), XXIV, b 855
- MIDAS, king of Phrygia, XVI, a 290; (Anchor), II, a 6; (Phrygia), XVIII, a b 865; (Silenus), XXII, a 57; tomb of (Archæology), II, b 303; (Phrygia), XVIII, a b 864, note, a 866
- ——, genus (Ape) (Ill.), II, b 136, a 137
- Mid-Calder, town (Edinburgh, County), VII, *a* b 571
- MIDDELBURG, town, XVI, a 290; (Scotland), XXI, b 514
- Middens. See Kitchen Middens
- Middendorf, educator (Froebel), IX, *b* 696, a 697
- ——, Alexander Theodor von, explorer (Polar Regions), XIX, b 332
- Middendorff on migratory Birds, III, a 666, note, a 667
- Middle Ages (Commerce), VI, a b 179; (Fine Arts), IX, b 185; (Flag), a b 242, a 243; (Fountain), a 429; (History), XII, a 23, a b 25, a b 26; (Insanity), XIII, b 116, b 117; (International Law), b 197; (Ireland), b 251, b 256, a b 261; (Isernia), b 396; (Isidorus Hispalensis), b 396-7; (Israel), a 439, b 440; (Leprosy), XIV, b 469; (Medicine), XV, b 815-7; (Renaissance), XX, b 393, a 394-6; (Wax Figures), XXIV, b 486; termination of (France), IX, a 498. See Mediæval
- *Middle Ages, State of Europe During the* (Hallam), XI, *a* b 351
- MIDDLEBOROUGH, Massachusetts, town, XVI, b 290
- Middleburg, district (Transvaal), XXIII, *b* 550, a 551, a 552
- "Middle English" language, VIII, b 350, b 352-6, 359, a 360
- —— German (German Language), X, a *b* 462, a 464-6
- —— Head, cape (Sydney), XXII, b 845, b 847
- —— latitude (Navigation), XVII, b 272, *b* 274
- —— passage, mortality on (Slavery), XXII, a 147
- MIDDLESBOROUGH, town, XVI, b 290; (Salt), XXI, b 242; (York), XXIV, b 784, b 785, *a* 786; furnaces (Iron), XIII, a 304, b 313, note
- MIDDLESEX (Plate III), county, XVI, a 291-4
  - antiquities, b 292-3
  - agriculture and land, a 292
  - bibliography, b 293-4
  - history, a b 293
  - manufactures and trade, b 292
  - physical features, a b 292
  - representation, b 292
  - rivers and canals, b 291-2

- —— (Post-Office), XIX, b 589; (Venue), XXIV, b 176; (Wilkes), b 598, *a* 599
- —— Straits (Andaman Islands), II, a 12
- Middle Temple (Inns of Court), XIII, b 93, b 94, a b 96; (Libraries), XIV, a 516
- MIDDLETON, town, XVI, a 294
- ——, Christopher, sailor (Geography), X, a 170; (Polar Regions), XIX, a 330
- MIDDLETON, Conyers, author, XVI, a 294-5; (Bibliography), III, b 572-3; (Challoner), V, b 323; (Gibbon), X, b 513
- ——, Earl of, general (Scotland), XXI, b 536, *b* 537; (Sharp), *b* 816
- ——, Sir Henry, sailor (India), XII, *b* 837
- MIDDLETON, Thomas, dramatist, XVI, a 295; (Beaumont and Fletcher), III, b 409; (Dekker), VII, a 35; (Drama), *b* 373, a 374
- ——, Thomas Fanshaw, bishop (Coleridge, S. T.), VI, b 122
- MIDDLETOWN, Connecticut, town, XVI, b 295-6
- MIDDLETOWN, New York, village, XVI, a 296
- *Middoth* (Hermeneutics), XI, b 664; (Hillel), *a* 732; (Temple), XXIII, b 184
- Midea, city (Phrygia), XVIII, a 865, note
- Midgan, tribe (Somali), XXII, a 269
- Midges (Insects), XIII, a 157; (Wheat), XXIV, b 565
- MIDHURST, town, XVI, a 296; (Sussex), XXII, a 761, *a* 762
- MIDIAN, people, XVI, a b 296; (Gideon), X, *b* 525; (Ishmael), XIII, b 393; (Moab), XVI, a 558 note
- Midias, politician (Demosthenes), VII, a 62
- Midi d'Ossau, Pie du, mountain (France), IX, b 445
- Midland Institute (Birmingham), III, a b 680, a b 682
- —— Great Western Railway, XX, a 233, b 234, a 235, 253; (Railway), a 233, b 234, a 235, *a* 237, b 242, b 244, a b 245-6, *a* b 252, *a* *b* 253, b 255, a *b* 258
- Mid-Lothian, county. See EDINBURGH
- MIDNAPUR, district of India, XVI, b 296; town, b 296, a 297
- Midouze, river (France), IX, b 457; (Gers), X, b 491; (Landes), XIV, b 272
- MIDRASH, books, XVI, a 297-300
  - *Agadah*, history of, a b 297-8
  - collections described, a 298-300
  - sources of, a 298
  - specimens, a b 300
  - titles explained, a 297

- —— (Abraham), I, a 56; (Apocalyptic Literature), II, a 155; (Canticles), V, b 30; (Chronicles), b 614; (Ecclesiastes), VII, b 539, a 540, b 541, a 542; (Hebrew Language and Literature), XI, b 535; (Hermeneutics), a b 664; (Mishnah), XVI, a 526, a 530; (Moses), a 888-9
- Midshipman (Navy), XVII, b 302, a 303
- Midshipman's hitch (Seamanship) (Ill.), XXI, b 618, a 619

Midsummer Night's Dream, play (Shakespeare), XXI, a 775, a 791, a 800, a 805; overture to (Mendelssohn), XVI, a b 11, a *b* 12
Midwifery. See Obstetrics
Mieczysław I., king (Poland), XIX, b 297
—— II., king (Poland), XIX, a 298
—— III. (Poland), XIX, a b 299
MIEDZYRZECZ PODLASKI, town, XVI, b 300
Miel, tunic (Costume), VI, b 405, a 406
Miemite (Mineralogy), XVI, a 414
MIERIS family, painters, XVI, b 300-1; (Schools of Painting), XXI, *a* 464
Miesrob, translator (Armenian Version), II, a *b* 482, a 483
Migliorati, Cosimo de. See Pope INNOCENT VII.
——, Luigi, assassin (Rome), XX, b 821, a 822
MIGNARD, Pierre, painter, XVI, b 301
MIGNONETTE, flower, XVI, b 301; (Botany), IV, b 131, b 139; Jamaica (Henna), XI, b 583, a 584
Migraine, disease (Neuralgia), XVII, a 373
Migration, animal (Birds), III, b 662-8; (Distribution), VII, a 233, *a* b 240; (Eels), a 601; (Guillemot), XI, a 233; (Herring), a 683; (Ichthyology), XII, a b 707, b 708, b 710; (Instinct), XIII, a 166; (Lemming), XIV, b 436; (Locust), 771-2; (Mackerel), XV, b 160-1; (Nematoidea), XVII, a 334; (Quail), XX, a b 153; (Rail), *b* 229; (Salmonidæ), XXI, a b 235, a 236; seals (Newfoundland), XVII, b 393; (Woodcock), XXIV, a 685
—— of the ions (Electrolysis), VIII, b 103-4
—— of plants (Distribution), VII, b 249, a 250, a 251, b 252
Migrations, Aryan primitive (Greece), XI, *b* 81-2; early European (Germany), X, b 427, b 461-2; Gipsies, X, a 546-7; Hellenic (Greece), XI, *b* 81-2, a *b* 83, a 84; (Ionia), XIII, a b 210; Hindu (Cambodia), IV, *b* 640; Mongolian, XVI, b 771-2, b 776; Papuan (Australia), III, a 98; prehistoric human (Geology), X, a 328; Sawaiorian (Polynesia), XIX, a 437; Servian, XXI, a b 720; Scandinavian (Asgard), II, a 594; Slavonic (Russia), XXI, a b 86; (Slavs), XXII, a 154-5, a 156. See Emigration, Immigration, Nomads
MIGUEL, Don Maria Evarist, king of Portugal, XVI, a 302; (Portugal), XIX, *b* 567, *a* 568
Miguelete, tower (Valencia), XXIV, b 39
Miguelites, party (Portugal), XIX, b 568
MIGULINSKAYA, village, XVI, b 302
Mihdáwal, town (Bastí), III, a 370
Mihintale, mountain (Ceylon), V, a 312
Mihrab, niche (Mosque), XVI, a 891
Mihr Narsch, noble (Persia), XVIII, b 621
Mikado, emperor (Japan), XIII, b 579, a 589, a b 590, *a* b 591, a 592, *a* b 593, a 594, a 596
Mikania, plant (Guaco), XI, a b 202
Mikhailovsk, town (Transcaspian), XXIII, a b 545
MIKHAILOVSKAYA, village, XVI, b 302
Mikhnaf, historian. See Abu Mikhnaf
Mi-kiang river (Corea), VI, a 347
Míkír Hills (Nowgong), XVII, a 624
Mikkel, poet-priest (Denmark), VII, a 79
Mikkelsen, Hans, pseudonym (Holberg), XII, a 59
Miklosich, Franz, philologist (Gipsies), X, *b* 545, *a* 546, *b* 547, a 549, *b* 551, a 552; (Slavs), XXII, a b 154-5, b 157, *b* 158, a b 159
Miklucho Maclay, Nikolas, traveller (Malay Peninsula), XV, a 324, b 325
Mikrokosmus (Lotze), XV, a 15
Mikutzki, Stanislaus, philologist (Russia), XXI, b 117
Miladinoff brothers, poets (Slavs), XXII, a 159
MILAN, city (Map), XVI, b 302-5
  agriculture, a b 304
  area and plan, b 302-3
  art collections, a 304
  buildings, a 303-4
  history, b 304-5
  literature on, b 305
  manufactures, b 304
  situation, b 302
—— (Academy), I, b 75; (Ambrose, St.), a 582; (Como), VI, *a* 196; (Condottieri), a b 227; (Conservatory), b 260; (Correggio), a 387-8; (Filelfo, F.), IX, a 142; (Francis I.), b 607; (Frederick I., Emperor), *b* 641, *a* 642; (Gymnastics), XI, b 312; (Italy), XIII, *b* 480, b 482, b 483-4, b 487, *b* 488, a b 489, a *b* 491, a b 495, a b 498; (Leonardo), XIV, a b 458, a b 459, a b 460, a 461; (Libraries), b 529, a 530, b 550; (Observatory), XVII, a 734; (Schools of Painting), XXI, a b 456, a b 463, a 465, b 467-8; (Sculpture), b 594, a 595; canal (Hydromechanics) (Ill.), XII, b 501; coinage of (Mint), XVI, b 504; (Numismatics), XVII, a 675; decree, 1807 (England), VIII, b 325; edict of, 313 (Constantine I.), VI, a 267; massacre of, 1848 (Italy), XIII, a 498; mediæval poems (Italy), b 503; plague in, 1630 (Torture), XXIII, b 496
—— I., king (Servia), XXI, a 722
Milanese, district (Switzerland), XXII, *a* b 828
—— Liturgy, XIV, a 714
Milanje, mountain (Africa), I, b 224
Milaraspa or Mila, poet (Tibet), XXIII, a 370
Milarite (Mineralogy), XVI, b 434
MILAZZO, city, XVI, b 305
Milbanke, Anna Isabella, Lady Byron (Byron), IV, b 541-2
Milburg, St., prioress (Wenlock), XXIV, *a* 529
Milburn, town (Westmorland), XXIV, a *b* 543
Milchhöfer archæologist (Sphinx), XXII, b 413
Milcom, Ammonite god (Moloch), XVI, a 723
MILDEW, fungus XVI, a 306; (Peach), XVIII, a 453; grape (Horticulture), XII, b 239, b 288, a 306; (Wine), XXIV, a 637; hop (Agriculture), I, a 339
Mildmay, Sir Walter, founder (Chaderton), V, a 322
Mile, English (Weights and Measures), XXIV, b 511-2, a 517; German square (Germany), X, b 401 note; nautical (Log), XIV, a 777
Mile End, common (London), XIV, b 858
Miles, Dr., physicist (Electricity), VIII, b 6, *a* 7
Milesians, race (Celtic Literature), V, *a* 260, b 268; (Ireland), XIII, a b 249, a 250
Milesian tale (Satire), XXI, a 334; (Romance), XX, *a* 650
Milestones, Roman (Inscriptions), XIII, b 135
Miletopolis, lake (Mysia), XVII, a 130
MILETUS, city, XVI, b 306-7; (Altar), I, a 562; (Greece), XI, a b 82, a 86, a 89; (Hecatæus), a 543; (Homer), XII, b 112-13; (Ionia), XIII, b 210, a *b* 211; (Numismatics), XVII, a 664; (Persia), XVIII, a 578, b 582, a 588; (Weights and Measures), XXIV, *b* 515
Miletus, Capture of (Phrynichus), XVIII, a 868
MILFORD, town, Wales, XVI, a 307
MILFORD, Massachusetts, village, XVI, a 307
—— Haven, estuary (Milford), XVI, a 307; (Pembroke), XVIII, a 492
—— sound (New Zealand), XVII, b 479
Milhamoth Adonai (Gersonides), X, a *b* 492
Milhau. See MILLAU
Miliarision, coin (Numismatics), XVII, a 672
Miliary fever (Sweating Sickness), XXII, b 773
MILICZ, Johann, preacher, XVI, b 307
Milieæ (Grasses), XI, b 52-3
Milinda, Yavana king (Lāmāism), XIV, a 228
Milínda-prasna, Indian chronicle (Persia), XVIII, a 610
Miliolæ (Foraminifera), IX, b 329-36
Miliolidea, order (Protozoa) (Ill.), XIX, a b 869
Military Academy, West Point, XXIV, b 891-2; (Thayer), XXIII, a 938
—— Woolwich, XXIV, a 700; (Army), II, a 513
—— balloons (Aëronautics), I, a 180-1
—— character of the empire (Rome), XX, a b 791, a b 792, b 794
—— diseases (Malaria), XV, b 320, a b 321, a 322
—— districts of Austria (Army), II, a 531; Denmark, a 538; France, a 527; Germany, a 520; Great Britain, a 509; India, a 516, a 518; Italy, a 536; Russia, b 533; Turkey, a 540; United States, a 541
—— domination (Slavery), XXII, *a* b 137, a 140, a 142
MILITARY FRONTIER, district, XVI, b 307-8; (Hungary), XII, a b 375, *a b* 378, *a* 379, a 380, a b 381, a 389
—— Hospitals, XII, b 319, a 320; (Paris), XVIII, a b 288
—— lands (New York), XVII, a 468
MILITARY LAW, XVI, a 308-12
  continental Europe, b 311-2
  courts-martial, b 309
  English, a 308-9
  India, a b 311
  jurisdiction, civil, a b 310
  offences and punishments, b 309-10
  procedure, b 310-1
  statistics, b 311
  subjects of, a b 309
—— (Army), II, a 499, a 520-1; (Court-Martial), VI, b 459-60; (Treason), XXIII, a 561
—— maps (Surveying), XXII, b 746-7
—— orders (Monachism), XVI, b 725, a 735-6; of Spain (Compostella), VI, a 204
—— Precedence, XIX, b 686, a 687
—— Quæstors, XX, a b 152
—— reforms of Marius (Rome), XX, b 777
—— resources of Austria (Army), II, a 529; Europe, b 497; France, b 527; Germany, a 525; Holland, a 537; Italy, b 535; Portugal, a 537; Switzerland, a 539; Turkey, b 540
—— schools (Belgium), III, b 449; (France), IX, b 453; (Paris), XVIII, b 286. See Military Academy, Schools
—— service (Brehon Law), IV, b 226; law of (France), IX, b 455-6; mediæval (Knighthood), XIV, a 113
—— system (Persia), XVIII, a b 596, a 597, a 619, b 639-40; Arab (Mohammedanism), XVI, a 613; Aztec (Mexico), XVI, a 219; Byzantine imperial (Greece), XI, a 102; mediæval (Knighthood), XIV, a b 117-8, a 122; republican (Rome), XX, a 765; Roman imperial (Greece), XI, b 99; of duchy (Rome), XX, b 801, a 802, a 806; of Tarquins (Rome), b 753-4

Military tactics. See Tactics
— tenure (Real Estate), XX, *a* b 318
— testaments (Roman Law), XX, b 724–5
MILITIA, XVI, a 312–4; (Army), II, a 534, a 536, *b* 537, b 538, a 539, b 491-2, a 497; (England), VIII, a 220; (Finance), IX, a 154; (Hamburg), XI, a 361; (Ireland), XIII, b 244; (Paris), XVIII, a 290, b 294, b 296, a 300; (Sweden), XXII, b 781
—, constitution on (United States), XXIII, *a* 798
"Militia of Christ" (Inquisition), XIII, a 99
Militsch. See MILICZ
Militza, heroine (Servia), XXI, *b* 721
Milium, disorder (Skin Diseases), XXII, a 129
MILK (Ill.), XVI, a 314–8
  adulteration of, b 317–8
  condensed, b 317
  dairy treatment, b 316–7
  food, b 315–6
  human secretion of, b 314–5
  koumiss, b 318
  mammary glands, a 314–5
  preservation of, a b 317
  statistics of, a b 318
— (Adulteration), I, a b 153; (Arabia), II, a b 211; (Ass), a 627; (Buffalo), IV, a 396; (Butter), a 526; (Cheese), V, a 394, a 395; (Dairy), VI, *a b* 677, *a b* 678, *a b* 679, *a b* 680; (Diabetes), VII, a 128; (Dietetics), a b 174, b 175, b 179; (Fermentation), IX, b 80, b 85; Sugar, XXII, b 655, b 657; diet in Veterinary Science, XXIV, b 217; ewe's (Agriculture), I, a 350; fever food (Typhus), XXIII, a b 722; of goat (Agriculture), I, b 354; (Goat), X, a b 632, *a* b 633; infection from (Medicine), XV, b 807–8; (Typhus), XXIII, b 720; preserved (Gelatin), X, b 117–8. See Condensed Milk
Milkers, infection of (Vaccination), XXIV, *b* 30, *b* 31
Milk-sickness (Pathology), XVIII, b 417; (Veterinary Science), XXIV, a 221
— of Sulphur, XXII, b 668
— teeth (Dentistry), VII, a b 84; (Digestive Organs), a b 202-3, a 206; (Horse), XII, a 183; (Mammalia) (Ill.), XV, a *b* 354, b 356
Milky way (Astronomy), II, b 716; (Herschel), XI, b 685; (Zodiacal Light), XXIV, a 835, *a* 836
Mill (Flour), IX, a b 301
MILL, James, philosopher, XVI, b 318–20; (Æsthetics), I, a 201; (Association of Ideas), II, a 640, b 641; (Belief), III, *b* 460; (Caste), V, b 163, b 164; (Ethics), VIII, b 534; (Grote), XI, a 190; (Political Economy), XIX, a 390, b 392; (Psychology), XX, a 54, a 68 note, a 89 note; (Ricardo), a 548, a 550
MILL, John, divine, XVI, a 320; (Bentley), III, *a* 499; (Bible), b 560
MILL, John Stuart, philosopher, XVI, b 320–7
  awakening, his mental, b 321-2
  Avignon life, a b 326
  economist, the, b 324–5
  education, b 320-1
  India House, b 321, b 325
  induction, views on, a b 324
  influence of, a 326–7
  logic, b 323-4
  parliamentary career, a 326
  political philosophy, a 323–4, b 325–6
  Speculative debating society, a b 322-4
  sympathetic emancipation of, b 322–3
  Utilitarian Society, a b 322
  wife's influence, a b 325
  youthful mission and disenchantment a b 322
— (Analogy), I, b 694–5; (Analytic Judgments), *a* 700; (Art), II, b 556, a b 558; (Association of Ideas), b 640, a 642; (Austin), III, a 89; (Axiom), *b* 139; (Bentham), a b 497; (Cairnes), IV, a *b* 571, *a* 572; (Category), V, a 197; (Coleridge, S. T.), VI, a 124, a 125; (Comte), b 206, a 207, a 208, b 209, a 210, a 212; (Condillac), b 223; (Cumberland), b 620; (De Vigny), VII, b 117; (Edwards), a b 599; (Ethics), VIII, b 533–4; (Free Trade), IX, b 663, *a* 664, a 667; (Government), XI, b 16; (Grote), a 190, b 191, a 192; (Hume), XII, *a* 365, b 368, b 369; (Jesus Christ), XIII, b 680, note; (Law), XIV, b 361; (Leslie, T. E. C.), b 477; (Logic), b 800–2; (Lytton), XV, b 123; (Political Economy), XIX, b 383, a 384, b 389, b 390, a b 391, a 392–4, a b 395, b 404, a 407, a b 410; (Protection), *b* 933; (Psychology), XX, b 43, *b* 44, a *b* 53, note, b 58 note, b 86, b 87; (Smith), XXII, a 181; (Socialism), a 229, a 230, b 231; (Taxation), XXIII, *a* 92, b 93, b 94; (Thirlwall), a 326; (Value), XXIV, *a b* 52, a *b* 53, b 54, a *b* 56, a 58; (Wages), a 327, *b* 328, *a* b 329, a b 330; (Wealth), b 487, a 488; (Whewell), *a* 570; (Women), a 674
Millar, Andrew, publisher (Falconer, W.), IX, b 6
—, James, editor (Encyclopædia), VIII, *a* 183
—, John, publicist (Political Economy), XIX, b 379
—, William, bookseller (Pamphlets), XVIII, a 209
—, W. H., statistician (Suicide), XXII, b 662
Millard, E., agent (Bible Societies), III, b 562
MILLAU or Milhau, town, XVI, a 327
Millbank, penitentiary (Prison Discipline), XIX, a 768, a b 771, b 772
Mill-cake (Gunpowder), XI, b 290, a b 291
— cinder (Iron), XIII, a 303, b 314
Milledgeville, town (Georgia), X, a 391, a b 392
Mille flori, process (Glass), X, *b* 578, a 581
— Lacs, (Minnesota), XVI, b 498
MILLENNIUM, XVI, a 327–30
  Augustinian influence, b 329-30
  early church, a b 327
  Greek church, b 328-9
  Jewish apocalyptic scheme, b 327–8
  mediæval views, a 330
  New Testament times, a b 328
  reformation, a b 330
  rise of speculation, b 328-9
  Western church, a 329-30
— (Eschatology), VIII, b 473, note; (Irving, E.) XIII, b 382; (Fifth Monarchy Men), IX, b 134; (France), a 474; (Miller), XVI, b 332. See ESCHATOLOGY
MILLEPEDES, order, V, b 295-6; (Myriapoda), XVII, b 125; (Wheat), XXIV, b 566
Millepora, group (Actinozoa), I, a b 121; (Corals), VI, b 333, a 337, b 339-40; (Hydrozoa) (Ill.), XII, *b* 597. See Tabulata
Miller, E., philologist (Greece), XI, *a* 132
—, F. Bowyer, chemist (Gold), X, *b* 667, a 668
—, Hallows, physicist (Light), XIV, b 601, note
MILLER, Hugh, geologist, XVI, b 330–2
  Cromarty stonecutter, a 331
  Edinburgh editor, a b 331
  publications, a b 332
  scientific pursuits, b 331–2
  youth and apprenticeship, b 330–1
— (Agassiz), I, b 246; (Newspapers), XVII, b 433–4; (Sutherland), XXII, b 764, a 765
—, Joaquin, poet (American Literature), I, b 642
—, Johann Martin, author (Germany), X, b 483
—, John Frederick, naturalist (Secretary-Bird), XXI, b 648
MILLER, William, engraver, XVI, b 332, a 333
MILLER, William, preacher, XVI, b 332
Miller-Casella Thermometer (Ill.), XXIII, b 312
Millerite (Mineralogy), XVI, a 409
MILLER'S THUMB, fish, XVI, a 333. See Cottus
Milles, paladin (Romance), XX, *a* 667, a b 668
— of Susa, bishop (Syriac Literature), XXII, a 867
MILLET, cereal (Ill.), XVI, a 333-4; (Brewing), IV, *b* 236; (India), XII, a 786, a 789; (Durra), VII, a b 487
Millet, Jacques, dramatist (Romance), XX, a 655
MILLET, Jean François, painter, XVI, a 334–5; (Francisque), IX, a 617; (Schools of Painting), XXI, b 460, a 464
—, Jean François, the Younger, painter, IX, a 617
Milliarum Aureum, column, (Rome), XX, a 836, notes
Milligan, Major, author (Xenophon), XXIV, b 756, note
Millinery (France), IX, a 460
Milling, process (Flour), IX b 301–3; wheat products of (Baking), III, a 217
— machinery (Patents), XVIII, b 881
— of coins (Mint), XVI, b 507–8, b 509; (Numismatics), XVII, a 674
Millington, Sir Thomas (Botany), IV, a 72
Milling tool (Machine Tools) (Ill.), XV, b 157
Millioni, Marco, pseudonym (Polo), XIX, a b 420
Millipedes. See MILLEPEDES
Millon's base (Mercury), XVI, b 38
Millos, E. J., of 'Akrā, bishop (Syriac Literature), XXII, b 900, note
Millport, town (Bute), IV, b 516
Mills (Lapidary) (Ill.), XIV, a b 299; saw- (Saws), XXI, b 359-61; water (Ireland), XIII, b 251
—, John, scholar (Encyclopædia), VIII, b 179, a 180
Mill Spring, battle of, 1862 (Thomas), XXIII, a 840
Millstone grit, rock (Derby), VII, b 93; (Geology), X, *b* 262, b 306, a b 309, b 310; (United States), XXIII, b 852; (Westmorland) XXIV, *b* 542; (York), b 783, a b 784
Millstones (Flour) (Ill.), IX, a 302
Milltown or Milbay, town (Clare), V, *b* 701
MILLVILLE, New Jersey, city, XVI, a 335
Millwall, district (London), XIV, a 842
Milly, Nichols Chrétien de Thy de, chemist (Candle), IV, *b* 708
Milman, Sir Francis, physician (Milman, H. H.), XVI, a 335
MILMAN, Henry Hart, dean, XVI, a b 335; (Abbey), I, a 18, b 21, a 25; (Catacombs), V, b 180, b 187; (Church History), a 670; (Drama), VII, a 379; (Gibbon), X, a 517, b 519; (Hymns), XII, a 630; (Pelagius), XVIII, a 481; (Popedom), XIX, a 514, a 525
Milnathort, town (Kinross), XIV, a 94
Milne, John, naturalist (Gare-Fowl), X, *a* 72

- Milne-Edwards, Alphonse, naturalist (Birds), III, b 632, note, *a b* 633, b 635; (Lemur), XIV, b 440 note, b 441, a 442; (Ornithology), XVIII, a 40, b 49 note, a b 50, note; (Owl), a b 92; (Parrot), a 328 note, a 329; (Penguin), b 502; (Rail), XX, b 230; (Roller), *a* 643; (Secretary-Bird, XXI, a 649; (Trogon), XXIII, a 621
- Milne-Edwards, Henri, naturalist, *b.* 1800, *d.* 1885 (Actinozoa), I, a 121, a 122; (Arthropoda), II, a b 566; (Brachiopoda), IV, a 170; (Chameleon), V, b 331; (Corals), VI, *a b* 333, a b 341; (Crustacea), a *b* 559, b 532, b 563, *a* 564, *b* 565, a b 566, note, b 567, b 583; (Hydrozoa), XII, a 590; (Mollusca), XVI, a 655; (Polyzoa), XIX, b 443-4, b 455, b 456; (Radiata), XX, a 219; (Tunicata), XXIII, a b 647, b 658; his classification (Zoology), XXIV, b 847, a b 848
- Milo, island. See MELOS
- ——, bishop of Rheims (Turpin), XXIII, b 711
- MILO, athlete, XVI, b 335-6
- MILO, Titus Annius Papianus, partisan leader, XVI, a 336; (Cicero), V, *a* 674, a 675
- Miloschin, mineral (Mineralogy), XVI, b 442
- Milosh Obilich, patriot (Servia), XXI, b 721
- ——Obrenovich, prince (Servia), XXI, b 721
- Miloslavski faction (Russia), XXI, a 105
- Milt, salmon's (Reproduction), XX, b 423
- Miltiades, Athenian general (Darius I.), VI, a 727; (Greece), XI, *b* 89; (Lemnos), XIV, *b* 437; (Paros), XVIII, b 325; (Persia), b 581, a 583; (Scythians), XXI, b 604
- ——, pope. See MELCHIADES
- Miltitz, Carl von, German prelate (Luther), XV, b 74-5
- Milton, town, Dumbarton, VII, a 453
- ——, Frances, author. See Trollope
- MILTON, John, XVI, a 336-52
  - *Areopagitica*, a b 342
  - authorities on, a 351
  - Barbican residence, a b 343
  - Bishop's wars, b 340
  - blindness comes on, a 345
  - Bunhill period, a 348-9
  - Cambridge compositions, b 337
  - Charles I., conduct on death of, a 344
  - church reconstruction, his plan of, b 340-1
  - continental tour, a b 339
  - Convention Parliament, a 347
  - CRITICAL VIEW, a 350-2
    - later life and great poems, a b 351
    - middle life and polemics, b 350-1
    - treatise on Christian doctrine, b 351-2
    - youth and minor poems, a b 350
- MILTON, *continued*
  - Cromwell, personal relations to, a b 346
  - Diodati's death and Epitaphium Damonis, b 339-40
  - divorce tracts and controversy, b 341-3
  - early epic projects, a b 340
  - *Eikonoklastes* and Salmasius, b 344-5
  - habits in later life, b 348-9
  - High Holborn life, b 343-4
  - Horton life, b 337-9
  - Jewin street home, b 347-8
  - King's death and *Lycidas*, b 338-9
  - masques and pastorals, a b 338
  - Minshull marriage, a 348
  - Morus tracts, b 345, a 346
  - *Paradise Lost*, a b 348
  - parentage of, a b 336
  - Petty France residence, a 345-7
  - posthumous publications, a 350
  - Powell marriage, b 341
  - productions of last year, a b 349
  - Protectorate, relation to the, a 345-6
  - Restoration, fortunes under the, a b 347
  - Rump Parliament restored, b 346-7
  - secretary of state period, a 344-6
  - toleration in Westminster Assembly, b 342-3
  - university, b 336-7
  - will and heirs, b 349-50
  - Woodcock marriage, a 346
  - youth and school days, b 336
- —— (Arius), II, b 472; (Bradshaw), IV, b 180-1; (Cambridge), a 646, a 647; (Comus), VI, b 212; (Cowley), *a* b 472; (Cromwell), b 533; (Dante), a 713, *a* 716; (Davenant), b 735, a 736; (Dietetics), VII, a 178; (Diplomacy), a 220; (Education), *b* 584, b 585-6; (Ellwood), VIII, b 140; (England), b 310; (English Literature), b 373, a 377, b 378-9; (Epitaph), a b 439; (Euripides), b 595; (Eve), b 643; (Fuseli, H.), IX, a 749; (Geoffrey of Monmouth), X, b 154, a 155; (Hartlib), XI, a 446; (Homer), XII, a *b* 124; (Horace), b 164; (Hymns), a 626, a 627; (Independents), b 764, b 765; (Isocrates), XIII, a 400; (Lawes), XIV, b 370; (Marlowe), XV, a 564, a 565; (Mephistopheles), XVI, a 34; (Ochino), XVII, *b* 740; (Pamphlets), XVIII, a 209; (Philips), b 768, a 769; (Pindar), XIX, b 107 note; (Poetry), b 279, a 280; (Rutherford), XXI, b 120; (Salmasius), b 230, a 231; (Sonnet), XXII, a 276; his minor poems illustrated (Palmer) XVIII, a 197
- *Milton*, essay (Macaulay), XV, a 127
- —— Abbey (Dorset), VII, *b* 322
- Miltsin, mountain (Africa), I, b 225; (Atlas), III, a 26
- Milutin, king (Servia), XXI, a 721
- Milutinovich, Simeon, poet (Servia), XXI, b 723
- Milvian bridge, Rome (Ill.), IV, b 296; battle of, 312 (Constantine), VI, a 267
- Milvus, birds (Kite), XIV, b 105, *a* 106
- Milward, Richard, secretary (Selden), XXI, b 663
- MILWAUKEE, city (Map), XVI, a 352
- Milyans, people (Lycia), XV, a 94, a 95; (Pisidia), XIX, a b 139
- Milyas, uplands (Lycia), XV, a 94, a 95
- Milzow, Gerhard, author (Norway), XVII, a 604
- *Mīmānsā*, philosophy (Brahmanism), IV, b 188; (Sanskrit), XXI, b 303-4
- Mimas, promontory (Ionia), XIII, b 210
- Mimes (Drama), VII, a 352, a b 354, b 356, a 357; (Laberius), XIV, b 165; (Pantomime), XVIII, a 219 note; (Sophron), XXII, a 288
- Mimeta, birds (Honey-Eater), XII, a 143; (Mimicry), XVI, b 353-4; (Oriole), XVII, b 868-9
- Mimetesite (Mineralogy), XVI, a 425
- Mimetic chorea, disease (Pathology), XVIII, a 401
- Mimicry, dramatic (Foote), IX, a 322-4
- MIMICRY, protective, XVI, a 353-7
  - definition of biological, a b 353
  - environment theory, b 355-6
  - explanation of, a 355-7
  - invertebrates, a 354-5
  - parallel genesis, a b 356
  - plants, a 355
  - protective coloring, a b 355
  - psychological theories, b 356-7
  - simulated mimicry, b 356
  - vertebrates, b 353-4
- —— (Butterflies), IV, a 528, b 529, a 530; (Chameleon), V, b 331; (Frog), IX, b 699; (Honey-Eater), XII, a 143; (Mantis), XV, a 511; (Oriole), XVII, b 868-9; (Sloth), XXII, a 171
- Mimocichla, genus (Thrush), XXIII, a 343
- MIMNERMUS, poet, XVI, a b 357; (Greece), XI, a 120, a 124; (Smyrna), XXII, b 195, a 196
- MIMOSA, plant, XVI, b 357; bark (Leather), XIV, b 381-2; pudica (Botany) (Ill.), IV, a b 101
- Mimulus, plant (Botany), IV, *b* 131; (Horticulture), XII, a 255, a 259
- Mimusops Elata, tree (India-Rubber), XII, a 877
- —— polyglottus, species (Mocking-Bird), XVI, a 564
- Min, god (Egypt), VII, b 622
- Mina, money and weight (Numismatics), XVII, b 646; (Weights and Measures,) XXIV, a 510, b 512, *a* 513, *a b* 514, *a b* 515, a b 516; Italic, XXIV, *b* 514, *a* 515
- —— village (Mecca), XV, a 677, b 681, *a b* 682
- Minahassa, district (Celebes), V, b 249, b 251
- Minai, people (Galilee, Sea of), X, a 28
- Minaic and Minæans, dialect (Semitic Languages), XXI, b 685; (Yemen), XXIV, a 776, a *b* 777, *a* 778
- Minamoto clan (Japan), XIII, *b* 591, a 592, a b 597
- Minard, C. J., engineer (Harbors and Docks), XI, a 411, b 412, b 416, b 419, a 422
- Minarets (Architecture), II, b 389, *b* 390; (Gaur), X, b 103; (Ghazni), a 501; (Mosque), XVI, a 891, a 892
- Minas, department (Uruguay), XXIV, a b 19, a 20
- ——, Mimoides, logician (Galen, C.), X, *b* 22
- —— Basin, bay (Nova Scotia), XVII, a b 616
- —— Geraes, province (Brazil), IV, *b* 199, *a b* 201, *a* 202, a b 204, b 207, a 208, a 209, b 210, *b* 211, *b* 212, a b 215
- —— novas, gems (Topaz), XXIII, b 474
- Minas school of poets (Gonzaga, T. A.), X, *b* 687
- Minch, strait (Skye), XXII, a 135
- Minchinmadiva, mountain (Chili), V, a 535
- Mincio, river (Italy), XIII, b 445; (Mantua), XV, a 511
- Mincopie, race (Andaman Islands), II, a 13
- Mind or Reason (Anaxagoras), II, a *b* 3; (Berkeley), III, a b 509, a b 510; (Hegel), XI, a 552, b 553; (Xenocrates), XXIV, b 754; analysis of (Psychology), XX, a 44-9; faculties of (Phrenology), XVIII, a 862-3; seat of (Descartes), VII, a 109; study of (Philosophy), XVIII, a 807; the transcendent (Averroes), III, b 130-1; and matter, relation of (Cartesianism), V, a 125-6, a 129, b 137; relation to God of (Cartesianism), 128-9. See Intellect, Reason, Understanding
- Mindanao, island (Philippine Islands), XVIII, a 762, a b 763, a b 766
- MINDEN, Westphalian town, XVI, b 357-8; (Weser), XXIV, *a* 531; (Westphalia), *b* 545; battle of, 1759, XVI, b 358; (France), IX, a 520
- —— or Münden, Hanoverian town, XVI, b 358; (Weser), XXIV, *a* b 531
- "Minder" of press (Typography), XXIII, b 556
- Mindererus, spirit (Diuretics), VII, b 253

Mindif, mountain (Africa), I, b 225
Minding's *Integraltafeln* (Tables), XXIII, b 19; his theorem of reduction of forces (Mechanics), XV, a 738-9
Mindoro, island (Philippine Islands), XVIII, a 766, a 767
Mine (Fortification), IX, a 391, a b 410; buoyant (Torpedo), XXIII, a b 478; ground (Torpedo), *a* 478; submarine (Torpedo), b 477-9
Mineral detritus of Pacific Ocean, XVIII, b 125, a 126, a b 129
—— lands, United States (Homestead), XII, b 127
MINERALOGY (Ill.), XVI, a 358-450
  CRYSTALLOGRAPHY OR FORM (Ill.), a 358-87
    aggregates, irregular, b 384; regular, a b 384; variety in structure of, b 384-5
    anorthic or triclinic system, a b 375, b 380-1
    axes of dominant accretion, a 361
    classification of systems, a 362-3
    coherence, inequalities of, a 362
    combinations in cubic system, b 368-70
    combinations, symmetry of, a 366
    cubic system, a 363-70, a 378-9, a 382-3
    definition, a b 358
    derivative hemihedral forms, b 367-8
    derivatives of simple cubic forms, a 363-4
    dimetric and trimetric forms defined, a b 370
    distortions of forms, b 381-3
    goniometers (Ill.), b 375-6
    growth of twins, a b 381
    hemihedral and hemimorphic forms, a 367-8, b 369-70
    hemitropism, b 377-8, a b 380, a b 381
    hexagonal system, b 371, a b 379
    imperfect surfaces, a 382-3
    invariability of angles, b 364
    irregularity of crystals, a 376-83
    laws of, a 364-6
    notation, systems of, a 365-6
    oblique prismatic system, b 374-5, a 380
    origin of pseudomorphs, b 386-7
    parallel groupings, b 376
    parallelism of faces, b 364

MINERALOGY, *continued*
  CRYSTALLOGRAPHY OR FORM
    parameters, law of, b 364-5
    parent forms, determination of, b 360-1
    primitive forms, b 359-61
    prisms, hexagonal, b 371-2
    properties and parts defined, a b 359
    pseudomorphs, b 385-6
    pyramids, hexagonal, b 371
    rhombohedral forms a 372-3, b 379
    right prismatic or rhombic system, a 373-4, b 379-80
    size of crystals, b 358
    spheres of projection, a b 366
    symmetry, b 364, a 366
    tetragonal or pyramidal system, b 370-1, a 379
    twins, b 376-7, a 378-81
    variety and constancy of form, b 358-9
    zones, law of, b 364, b 366
  Definitions, a b 358
  DESCRIPTION OF SPECIES, a 395-448
    antimoniates, b 446-7
    arsenic - antimony family, oxides, a b 404
    arsenites, b 425
    carbonates, anhydrous, a 413-5; haloid, a b 416; hydrous, b 415-6
    carbon-silicon family, oxides, b 404-6
    coal, a b 448
    deutoxides, b 402-3
    diamond and graphite, a 396-7
    explanation of symbols, a 395
    haloid compounds, a 399-400
    hydrous oxides, b 403-4
    metallic oxides, b 400-4
    metals, native, a 397-8
    molybdates and tungstates, a b 420
    nitrates and borates, b 412-3
    opals, b 405-6
    oxides, non-metallic, a 404-6
    oxysulphurets, b 412
    phosphates, arseniates and vanadiates, anhydrous, b 420-1; haloid, b 421-5; hydrous, a 421-4; with borates and sulphates, a b 425
    quartz family, b 404-5
    resins, b 446-8

MINERALOGY, *continued*
  DESCRIPTION
    selenite, b 412
    sequioxides, a b 401
    silicates, b 425-45, alumina, b 442-3; andalusite group, b 425-6; augite and hornblende group, a 433-6; chlorite group, b 431; epidote group, a b 427; felspar group, b 436-8; garnet group, b 428-9; helvine group, a 429; hornblende, a b 435; iolite and beryl, a b 436; mica group, b 430-1; nepheline group, b 429-30; olivine group, b 427-8; orthoclase, a b 437; scapolite group, a b 429; talc and serpentine group, a b 432; titanates, niobates, etc., a 444-5; tourmaline group, a 426-7; willemite group, a b 428; wollastonite, b 433-4; zeolite group, b 438-42; zirconia, thoria, etc., a 443-4
    simple substances, a 395-9
    spars, calcareous, a 413-4
    spinels or compounds of protoxides and sesquioxides, b 401-4
    suboxides and protoxides, b 400-1
    sulphates, anhydrous, b 416-7; hydrous, b 417-9
    sulphides, selenides and tellurides, a 406-10
    sulphur salts, b 410-2
    tellurates and chromates, b 419-20
    titanates, with niobates, b 445-6
  INDEX, a 448-50
  PHYSICAL PROPERTIES, a 387-95
    chemical properties, b 394-5
    cleavage and fracture, b 393-4
    cohesive properties, a 393-4
    color, b 387-8, a 389
    conductivity of heat a b 392
    dilatation by heat, b 392-3
    electric properties, a 391
    fluorescence, b 390-1
    heat-properties, a 392-3
    isomorphism, a b 395
    light, transmission and refraction, a b 388, a b 389
    lustre, a 387
    magnetic properties, b 391-2

MINERALOGY, *continued*
  PHYSICAL PROPERTIES
    phosphorescence, b 390
    pleochroism, b 389-90
    polarization, b 388-9
    pyro-electricity, a b 391
    sense properties, a b 394
    streak, a 388

—— (Agricola, Geo.), I, a 259; (Geology), X, a 203-14; (Haidinger), XI, a 334; (Hutton), XII, b 430; (Phillips), XVIII, b 773
Mineral oil (Lamp), XIV, a b 245, a b 247; (Lubricants), XV, b 36, a *b* 37. See PETROLEUM
—— Phosphates, XVIII, a 831
—— resources (United States), XXIII, b 863-71
Minerals, analysis of (Lapidary), XIV, a b 300; artificial (Sainte-Claire Deville), XXI, b 174; (Gold), X, b 660, a 666; cell wall (Histology), XII, a 14, b 19; XXIII, b 851; density table (Hydrometer), XII, a 574; expansion of (Heat), XI, a 520-1; Meteoric, XVI, a 118; pyro-electricity of (Electricity), VIII, b 8-9; rock-forming (Geology), X, b 202-4
——, distribution of. See specific names of countries, ranges and states in immediate connection with their geological sections
—— sperm (Petroleum), XVIII, b 732
—— spicules (Sponges) (Ill.), XXII, a 432-4
—— springs (Aargau), I, a 11; (Aberdeenshire), b 46; (Aix-La-Chapelle), a 383; (Alabama), b 388; (Algeria), b 496; (Alhama), *b* 502; (Allier), b 515; (Ardeche), II, b 422; (Arkansas), a 474; (Azores), III, b 148
—— Bad Elster (Saxony), XXI, b 372; (Baden, Austria), III, a 196; (Baden in Switzerland), a 196; (Baden Baden), a b 195; (Bagnères de Bigorre), a 203; (Bagnères de Luchon), a 203; Bagnoles (Orne), XVIII, b 5; (Bath), III, b 374; (Belgium), a 445; (Bruckenau), IV, a 354; (Bukowina), a 461; (Burtscheid), b 510; (Buxton), *a b* 534
—— (Canstatt), V, a 25; (Carlsbad), a 99; (Cavan), b 229; (Chaudes Aigues), a 393; (Cheltenham), *b* 397; (Chili), b 536; (Clare), b 701; (Cleves), b 725; (Colorado), VI, a 146
—— (Down), VII, a 331; (Dumfries), b 454; (Engadine), VIII, b 193, a 194; (Eubœa), b 568-9; (Fermanagh), IX, a 79; (Franzensbad), b 637; (Galicia), X, a 24; (Geology), b 240-1; (Granada), XI, a 41; (Grisons), a b 182

Minerals (Hampstead), XI, b 386; (Harrowgate), b 442; (Homburg), XII, a 111; (Hungary), a 378; (Ilkeston), b 741; (Ireland), XIII, b 224; (Iron), b 370; (Ischia), b 395; (Ischl), b 395; (Kissingen), XIV, a b 104; (Lugo), XV, b 62
—— (Madagascar), XV, a 170; (Magnesium), a 218; (Malaga), a 318; (Marienbad), *a* 549; (Marne, Haute-), a 569; (Matlock), b 639; (Mont-Doré-Les-Bains), XVI, b 804; (Murcia), XVII, a 58
—— (Nassau), XVII, a 245; (New Mexico), b 410-1; (New York), a 463; (New Zealand), b 479, a 481; (Nièvre), b 509; (Orne), XVIII, b 5
—— (Palestine), XVIII, b 177; (Palmyra), b 203; (Paris), a 279 note; (Prussia), XX, a 19; (Puy de Dôme), a 126; (Pyatigorsk), a b 126; (Pyrenees, Mountains), b 131-2; (Pyrénées), a b 133, b 134; (Ragatz), a 227; (Réunion), b 506
—— (St. Amand-Les-Eaux), XXI, a 165; (Saône-Haute), a 316; (Saratoga), b 320-1; (Savoie), b 347; (Savoie, Haute), a 348; (Scarborough), *a* 392; (Schwalbach), a 481; (Sciacca), b 486; (Spa), XXII, b 306; (Sydenham), a 844
—— (Teplitz), XXIII, *b* 200; (Termini), b 205; (Transbaikalia), b 542; (Tamboff), b 45; (Valais), XXIV, a 37; (Vichy), b 227-8; (Virginia), b 277; (Vosges), b 319
—— (Waldeck-Pyrmont), XXIV, b 342; (Water), b 420, a 421; (Wellingborough), b 520, a 521; (West Virginia), b 546-7; (Wiesbaden), a b 591; (Würtemberg), a 736; (York), b 784; (Yellowstone Park), a 774-5. See Hot Springs, Thermal Springs, and list in Mineral Waters
—— tallow (Mineralogy), XVI, b 447
—— veins (Geology) (Ill.), X, b 280-1; (Mining), XVI, a 460-1
Mineral Waters, XVI, a 450-6
  alkaline, b 454-5
  American, b 455, a 456
  bibliography, a 456
  classification, b 451
  constitutents of, b 450
  distribution of springs, a 450
  earthy and indifferent, a b 452
  iron, b 453-4
  lithium and arsenic, b 455-6
  medical uses of, b 450-1
  salt, b 452-3
  sulphur, a b 454
 See Mineral Springs

——

—— wealth, ownership of (Land), XIV, b 268
—— wool (Hawaiian Islands), XI, a 475, note; (Iron), XIII, b 314
Mineriya lake (Ceylon), V, a 320
Miners (Fortification), IX, *a* 403; (Labor), XIV, b 168, note; (Mining), XVI, a 469; free (Gloucester), X, b 614 note; payment of (Mining), XVI, a b 469
Minerva, goddess, XVI, a b 456; Parthenon statue of (Ivory), XIII, b 533
—— press (Typography) (Ill.), XXIII, b 751
Mines, explosions in (Coal), VI, a 68-9, a 74. See Explosions; temperature in (Geology), X, b 199-200; titles (Coal), VI, a 73; transportation in, XVI, a b 476; (Traction), XXIII, b 526; ventilation in, XVI, a b 482; (Coal), VI, b 59, b 65-6; (Ventilation), XXIV, b 174
Minette, stone (Geology), X, b 208
Ming or "Bright," dynasty (China), V, a b 563-4; (Drama), VII, b 346; (Mongols), XVI, a b 770; (Tibet), XXIII, b 367
Minghetti, Marco (Political Economy), XIX, a b 408
Mingo (Adulteration), I, b 159
Mingo Revulgo (Drama), VII, b 358, a 363
Mingrelia, province, XVI, b 456; (Black Sea), III, b 691; (Georgia), X, b 387, *a* 388, *a* b 389; (Transcaucasia), XXIII, *b* 545
Mingrelians, tribes (Caucasus), V, a 225
Minhaj-ì-Saráj, historian (Gaur), X, a 102
Minho, river. See Miño
Min-huongs, half-breeds (Cochin China), VI, a 88
Miniature, XVI, b 456-9
  Byzantine, a b 457
  Charlemagne, age of, b 457-8
  classical MSS., b 456-7
  15th century, b 458-9
  mediæval art, a b 458
  Renaissance influence, b 459

——

—— (Enamels), VIII, a b 169; (Illumination), XII, b 745
Minicoy, island (Laccadives), XIV, a 184
Minié ball (Gunmaking), XI, a 250
Minima. See Maxima and Minima
Minimal Surface, XXII, b 706
Minims or Minimi, religious order (Francis of Paola), IX, a 612
Minimum Thermometers (Ill.), XXIII, b 311
Mining (Plate IV) (Ill.), XVI, a 459-94
  access to excavations, a 483-4
  accidents, b 488-9
  Barrow drill, a b 466
  beds, ore, a 460, b 474-5
  blasting, a 465-6
  boring, rod and rope, b 462-4
  classification of ores for dressing, b 485, b 487-8
  concentration of ores, b 485-6
  Darlington drill, b 466-7
Mining, *continued*
  definition and treatment of, a 459-60
  diamond drilling, b 463-4
  drainage, b 478-80
  dressing ores, a 484-8
  drills, a 466-9
  electrical blasting, b 465-6
  exploitation, b 471-6
  faults, b 461-2
  gases, deleterious, a 481-2
  hoisting apparatus, a 477-8
  iron supports, b 470
  Koepe and Blanchet winding systems, a b 478
  legislation, British, a b 488
  levels, driving, a b 468
  lighting, b 482-3
  loss in dressing, b 488
  machines for concentrating, b 486-7
  man-engines, b 483-4
  masonry in excavations, b 470-1
  masses, ore, a b 461
  open workings, b 475-6
  overhand stoping, b 472-3
  Production, World's, a 489-94
    Africa, a b 491
    Asia, b 491
    Australasia, b 493-4
    Europe, continental, b 489-91
    Great Britain and Ireland, a b 489
    North America, b 491-3
    South America, a b 493
    United States, b 491-3
  prospecting, a b 462
  pumping engines, a 479-80
  quarries, working, b 474-5
  reducing size of ores, b 484-5
  rotating drills, b 467-8
  safety fuse, a b 465
  securing excavations, b 469-71
  shaft sinking, a 468-9
  stoping, a 472-3
  timbering excavations, b 469-71
  tools for breaking, a b 465
  transport, underground, a b 476
  treatises on, b 494
  underhand stoping, a b 472
  veins or lodes, a 460-1, a b 474
  ventilating systems, a b 482
  wages, mode of paying, a b 469
  washing ores, b 484
  winding or hoisting, a 476-8, a 479
  working deposits, a 474-6

——

—— (Austria), III, b 104; (California, Lower), IV, b 616; (Cartagena), V, *b* 123; (Coal) (Plates III-V), (Ill.), VI, a 58-73; (Diamond), VII, b 141-2; (Ekaterinburg), b 687; (England), VIII, a 205-6; (Falun), IX, a 17; (Flint), b 285; (Freiberg), *a* 670; (Gold) (Ill.), X, a 663-4; (Hanover), XI, a 399; (Hindú Kúsh), *b* 748, a 749; (Huelva) XII, a 348; (Hungary), a 378; (Idria), b 737; (India), a 803-4; (Japan), XIII, *b* 582, a 583 note; (Klausthal), XIV, *a* 110; (Labyrinth), a b 180; (Leadville), b 379; (Liége), b 572; (Man, Isle of), XV, a b 458; (Mercury), XVI, b 36; (Mexico), a 225, note, a b 900, b 907-9; (Neusohl), XVII, a 374; (Norway), a 596; (Perm), XVIII, b 561; (Puy de Dôme), XX, a 126; (Salt), XXI, b 241, a b 242; (Scotland), a 557; (Sweden), XXII, b 780; (Sicily), a 36; (Siberia), a 15, b 16, a 18; (Sinai), a 96; (Sulphur), a 668; (Transcaucasia), XXIII, b 546; (Ural Mountains), XXIV, a b 8, b 9-10; (Value), *b* 57; (Western Australia), b 535
—— claims in United States (Homestead), XII, b 127; cost of (Money), XVI, b 477-8; early history of (United States), XXIII, b 863-4; laws, XVI, a b 488; (Mexico), b 899-900; (Spain), XXII, b 315; mediæval (Tunnelling) (Ill.), XXIII, a 663; refuse, effect on vegetation (Irrigation), XIII, b 373-4; regulation of (Government), XI, a 18; Russian (Prison Discipline), XIX, *a* b 782; working at faults, XVI, b 461-2; (Geology) (Ill.), X, a b 268
Minion type (Typography), XXIII, b 743
Miniopterus, genus (Mammalia), XV, b 410, *b* 415-6
Ministers, plenipotentiary (Ambassador), I, b 577, a 578; (International Law), XIII, b 199
—— in primitive Christian Church (Paul), XVIII, a 439
Ministry, British, XVI, a 494-6
  history of councils, a 494-5
  members of, b 495-6
  political powers of, a b 495
  prime minister, b 496

——

—— (Government), XI, b 12, a *b* 13, note. See Cabinet
Minium, oxide (Lead), XIV, b 377-8; (Mineralogy), XVI, b 403; (Miniature), b 456; (Pigments), XIX, a 96
Minjau, district (Badakhshan), III, a 193
Mink, quadruped, XVI, b 496, a 497; (Fur), IX, b 735, b 736
Min Keang, river (China), V, a 553, b 554
Minkoko, district (Celebes), V, a 251
Minna von Barnhelm (Drama), VII, b 381; (Germany), X, b 479; (Lessing), XIV, *b* 480, a 481

MINNEAPOLIS, city, XVI, a b 497; flour trade (United States), XXIII, a 831
Minnen Loep, Der (Holland), XII, a 94
Minnesang (Grimm), XI, a 178, b 179
Minnesänger (Germany), X, b 441, b 469-70, a 471; (Music), XVII, a 91; (Pianoforte), XIX, b 73
Minnesota, mine (United States), XXIII, a 869
MINNESOTA, state (Plate V), XVI, b 497-500
  area and surface, b 497
  climate, b 498-9
  education, a b 499
  fauna and flora, b 498
  geology, b 497-8
  history, b 499-500
  industries, a 499
  political features, b 499
  rivers and lakes, a b 498
—— (Swisshelm), XXII, b 941; (Universities), XXIII, a 913, a b 955, b 960, b 961; (United States), b 820, a 822, b 853, a 855, a b 857, a b 858, note, b 859, a 860, b 862, b 866, b 867, *a* b 873, b 877, *a* 878; massacre in, 1862 (Indians), XII, a 872
—— river, XVI, a 498
Minniwakan or Devil's lake (Dakota), VI, b 681-2
MINNOW, fish, XVI, a 500; (Ichthyology), XII, a 731; parasite of (Trematoda), XXIII, b 573-4
—— islands (Madagascar), XV, a 169
Miño or Minho river (Galicia), X, b 24-5; (Leon, Province), XIV, a 455; (Lugo), XV, *a b* 62; (Portugal), XIX, b 551; (Spain), XXII, a 309
Minoa, town (Siphanto), XXII, b 102
MINO DI GIOVANNI, sculptor, XVI, b 500; (Rome), XX, a 857-8; (Sculpture), XXI, *b* 595
Minói-Khiradh (Pahlaví), XVIII, a 140, note, b 140
Minorca islands (Balearíc Islands), III, a b 240, a 241; (Spain), XXII, a 361; French conquest of (Byng) IV, b 537
—— fowl (Poultry), XIX, b 665
Minor canons (Cathedral), V, a b 199
Minorite friars (Franciscans), IX, a 615; (Rome), XX, *b* 816
Minority, legal (Age), I, b 249
—— voting (Government), XI, a 14
Minor tones (Acoustics), I, a b 101
MINOS, king, XVI, b 500-1; (Crete), VI, b 504, a 505; (Ganymede), X, b 65; (Greece), XI, b 82; (Phalaris), XVIII, b 743
Minotaur, myth (Ægeus), I, a b 163; (Minos), XVI, a 501
Minquiers islets (Channel Islands), V, a 340
Minsheu's *Ductor in Linquas* (Typography), XXIII, a 740, a 741
MINSK, province, XVI, a b 501; (Russia), XXI, a 76, b 80, b 85, a 87; town, XVI, b 501, a 502
MINSTREL, XVI, a 502-3; (Drama), VII, b 357; (Germany), X, b 467-8; (Herzegovina), XI, b 692; (Homer), XII, a 114; Scotch (Ballads), III, b 244-5. See Minnesänger. Troubadour
Minstrel, poem (Beattie), III, a 403
MINT, coinage (Ill.), XVI, a 503-14
  annealing blanks, a 512-3
  automatic balance, b 513-4
  blanks, b 511-3
  British coins, a 505
  bullion receipts, a b 508
  circulation, a 514
  designs, a b 504
  drág bench, b 511
  early operations, a 504
  gold coins, light weight, a b 507
  history, early, a 503-5
  loss of weight in coins, b 504, a b 507
  medals, b 514
  melting metal, b 509-10
  modern organization, b 503-4, a 505
  operations, modern, b 508-14
  origin of British, a b 503
  press, coining, a b 513
  pyx, trial of the, b 506
  recoinage, a 507-8
  remedy or shore, b 504, b 506-7
  rolling metal, b 510-11
  seigniorage, b 504-5, b 507
  silver coins, weight of, b 507-8
  standards of fineness, a 505-6
—— (Cœur), VI, b 99; (France), IX, a 464; (Guadalajara, Mexico), XI, b 203; (Japan), XIII, a 590; (London), XIV, b 841, b 850; (Newton), XVII, b 457; (Ozaka), XVIII, b 115; (Philadelphia), a 755; (Sydney), XXII, a 847; (Tamworth), XXIII, b 49; ecclesiastical (Numismatics), XVII, a 672, a 675, b 676, a 677; Roman imperial (Numismatics), *a* b 671
MINT, plant, XVI, b 514-5; (Horticulture), XII, b 302
Minthe, mountain (Elis), VIII, a 130
Mintjac, deer. See Muntjak
Mint-mark (Numismatics), XVII, b 645
MINTO, Gilbert Elliot, earl of, XVI, a 515; (India), XII, a b 844; (Indian Archipelago), b 859; (Mirabeau), XVI, a 516, a 517, a b 520; (Moore, Sir John), b 830, b 831; (Raffles), XX, b 226; (Thugut), XXIII, a 349
Minton's tiles (Brick), IV, a 253
Minucius, general (Hannibal), XI, a 397
MINUCIUS FELIX, Marcus, apologist, XVI, b 515
MINUET, dance, XVI, b 515-a 516
Minuit, Peter, governor (New York), XVII, *b* 466, a b 893, *a* 894
Minus, sign (Algebra), I, a 451
Minuscule, Caroline (Palæography) (Ill.), XVIII, a b 164, a 165; (Typography), XXIII, b 729, a b 738; contractions (Palæography), XVIII, a 169; English (Palæography) (Ill.), b 163-4; Greek (Palæography) (Ill.), b 149, b 152, b 153-5; (Typography), XXIII, b 739; Latin (Palæography), XVIII, a b 157; punctuation (Palæography), b 167; writing (Palæography), a 167
Minusinsk, government (Siberia), XXII, a b 6, note, a 12, a 13, b 14, b 17; (Yeniseisk), XXIV, *a* 779, *a b* 780; town, a b 780
—— Tartars, XXIII, b 76
Minute men, colonial (United States), XXIII, a b 788
Minyæ, tribe (Argonauts), II, *a* 437; (Bœotia), III, a b 742; (Elis), VIII, b 130; (Greece), XI, a 83, b 84, b 86; (Lemnos), XIV, a b 437; (Orchomenus), XVII, a 842
Minyas, king of Orchomenus (Dionysus), VII, b 216
Minyeh, ruins (Galilee), X, a 28
——, el, town (Egypt), VII, a 672
Miocene age (Horse), XII, a 177, a b 178; Birds, III, a b 633; Coals, VI, a 55; Corals, b 329, a 337, *a* 343; fauna (America), I, a 600; (Distribution), VII, *b* 245, a 246, a 247; flora (Distribution), *b* 249; (Spitzbergen), XXII, a 424; formation (Geology), X, b 321-3; (Greenland), XI, a 150
Miohippus (Horse) (Ill.), XII, a 77, b 178; (Zoology), XXIV, a 926
Miolaniidæ, family of Chelonians (Tortoise), XXIII, b 486
Miollis, Sexte Alexandre François, general (Pius VII.), XIX, a 166
Mionnet's scale (Numismatics), XVII, a 645
Miosic, Andrew Kacic, monk (Servia), XXI, b 722
MIQUELON, island, XXI, a 206 (Newfoundland), XVII, a 392; productions of (France), IX, a 465
Mir, village (Russia), XXI, a 77, b 90, a b 91-2
Mira, river (Ecuador), VII, b 560
MIRABEAU, Honoré Gabriel Riqueti, Comte de, statesman, XVI, a 516-21
  character, b 520
  Constituent assembly, a 518-20
  death of, a 520
  diplomatic career, b 517-8
  early life, a b 516
  English residence, a b 517, a 520
  foreign policy, b 519-20
  Marie Antoinette, relation to, b 518-9
  Nehra period, a b 517
  Sophie period, b 516
  works of and on, b 520-1
—— (Cabanis), IV, a 548; (Clarkson), V, a 711; (Dumont), VII, a *b* 457; (France), IX, a 527, *a* 530; (Gibbon), X, b 519; (Lettres de Cachet), XIV, a 484; (Maury, J. S.), XV, *a* b 649; (Newspapers), XVII, a b 436; (Robespierre), XX, b 617, a 618, a 619; (Romilly), a 861
MIRABEAU, Victor Riqueti, marquis de, economist, XVI, a b 516, a b 521; (Political Economy), XIX, a 374; (Quesnay), XX, a *b* 183
Mirabilite (Mineralogy), XVI, b 417
Miracle, feeding the 5000 (Gospels), X, b 741-2
——, nobleman's son (Gospels), X, a 735
—— of the corporal (Orvieto), XVIII, b 57
—— of the Holy Thorn (Pascal), XVIII, b 340
—— *of the Slave* (Robusti), XX, a 625, b 626
—— of the Thundering Legion (Aurelius), III, b 76, a 77
—— plays (Bale), III, a 239; (Calderon), IV, a 586; (Celtic Literature), V, *a b* 281, a 282, *a* 285; (Drama), VII, b 357, a b 358-9; (English Literature), VIII, a b 371; (France), IX, b 567; (Germany), X, a b 471-2; (Holland), XII, b 94; (Oberammergau), XVII, a 723. See Mysteries
Miracles (Acts of the Apostles), I, b 117-8; (Ambrose, St.), a 583; (Apologetics), II, a b 167; (Apollonius Tyanæus), b 165; (Avicenna), III, a 135; (Benedict, St.), a b 481; (Buddhism), IV, b 391-2; (Buxton), b 534; (Camisards), b 658; (Campbell, George), b 666; (Caravaca), V, a 74; (Catherine, Saints), *a b* 200-1; (Elisha), VIII, b 131-2; (Gerona), X, a 490; (Gospels), b 715, b 719-20; (Gregory Thaumaturgus), XI, b 162; (Hohenlohe), XII, a b 54; (Huss), b 419; (Jansenism), XIII, a 577; (Januarius), b 577-8; (Locke), XIV, a b 761, a b 763; (Lourdes), XV, a 26; (Lucia), a 44; (Madrid), a 192; (Mariazell), b 546; (Nicholas, St.), XVII, a b 493; attack on (Woolston), XXIV, a b 699; Fourth Gospel account of (Gospels), X, b 733-5; of loaves (Gospels), b 734; rationalistic interpretation of (Paulus), XVIII, a 446; suppression of (Carthusians), V, a 144
Miracles, Notes on the (Trench), XXIII, b 575
Miraculous Draught of Fishes (Jouvenet), XIII, a 765
Mirador of Solano, castle (Puerto Cabello), XX, b 104
Miraflores, monastery at (Sculpture), XXI, b 593
Mirafra, bird (Lark), XIV, b 316

Mirage, illusion (Egypt), VII, a 610; (Light), XIV, b 587, a b 604–5; (Navigation), XVII, b 230
Mír‘Alíshir, poet (Mirkhond), XVI, a b 522, note; (Turkey), XXIII, a 698
Miramichi, river (New Brunswick), XVII, b 382, a 383, b 384
Miramiones, nuns (Genevieve, St.), X, a 137
MIRAMON, Miguel, president, XVI, b 521; (Mexico), *b* 228
MIRANDA, Francesco, revolutionist, XVI, b 521–2
——, Francisco do Sá de, poet (Portugal), XIX, b 571, a 572
Mirander, Adventures and Life of (Heinsius, N.), XI, b 561
Mirandola, Giovanni Pico della, scholar (Innocent VIII.), XIII, a 92; (Kabbalah), b 822
Mirandor, romance (Holland), XII, a 99
Miranzái valley (Kohát), XIV, b 136
Mirath, city and district. See MEERUT
Mirbane, essence of (Aniline), II, a 44
Mirbel, Charles François Brisseau, botanist (Morphology), XVI, a b 867
Mircea, prince, Wallachia (Gipsies), X, b 546; (Roumania), XXI, a 21
Mirdum cliffs (Holland), XII, b 62
Mir Hasan, poet (Hindustani), XI, *b* 757, *a* 758
Miriam, king (Georgia, Kingdom), X, a 388
Mirifici logarithmorum canonis descriptio (Logarithms), XIV, *b* 780, *b* 781, a 782, b 784
Mir Jáfar, nawáb (Calcutta), IV, a 583; (India), XII, b 840, a b 841
—— Jumlá, vizier (Hyderabad), XII, a 445
—— Kásim, nawáb (India), XII, a b 841; (Patna), XVIII, a 420
MIRKHOND or Mírkhwând, author, XVI, a-b 522
Mirko Petrovitch, poet (Montenegro), XVI, b 807
Mír Maasum, khan (Bokhara), IV, b 4
—— Mahmúd, shah (Badakhshan), III, b 192, a 193
Mirmillones, fighters (Gladiators), X, b 563
Miroir de Mariage, satire (Deschamps), VII, *b* 111
MIROPOLIE, town, XVI, b 522–a 523
Mirovich, conspirator (Russia), XXI, b 107
Mirovoys, officials (Russia), XXI, *a* 77
Miroyedes, bog barons (Russia), XXI, b 92
MIRROR, XVI, a 523–5
    ancient, b 524–5
    magic, b 524
    manufacture, b 523–4
    mediæval work, a 523
    platinum, a b 524
    publications on, a 525
    Venetian trade, a b 523
—— (France), IX, b 460; (Furniture), b 746; (Glass), X, a 583; (Light), XIV, b 590–3; (Magic), XV, a b 208; (Microscope), XVI, b 281–2; azimuth (Compass), VI, b 203; dioptric spherical (Lighthouse) (Ill.), XIV, a b 627; galvanometer (Telegraph), XXIII, b 134; Greek (Metal-Work), XVI, b 460; and lens, plane (Wave Theory), XXIV, b 450–1; method in Magnetism, XV, b 239; optically true plane (Telescope), XXIII, a 168; reading (Wave Theory), XXIV, a 460; rotating, Wheatstone's (Electricity), VIII, b 59; silvering (Telescope), XXIII, a 159, note; spherical condensing (Lighthouse) (Ill.), XIV, a b 629; transit (Meteorology), XVI, a 165; Venetian (Glass), X, a b 581
—— zodiacal sign, XXIV, a 831
Mirror of History (Holland), XII, b 93
—— *of Magistrates* (Dorset, Earl of), VII a 323
—— *for Magistrates* (Geoffrey of Monmouth), X, a 155
Mír Taqi, poet (Hindustani), XI, a b 757
—— Wá ‘iz, chief (Afghânistân), I, a 215; (Persia), XVIII, a 651
Mirzá, title (Persia), XVIII, a 639
—— Asadullāh Khān Naushāh, poet (Hindustani Literature), XI, b 757
MIRZAPUR, city, XVI, b 525; district, a b 525
Mirzá Taki, prime minister (Persia), XVIII, b 663–4
Misa, river (Sinigaglia), XXII, a 102
Misanthrope, comedy (Molière), XVI, b 651
Miscellanea (Politian), XIX, a 358
MISDEMEANOR, XVI, b 525; (Criminal Law), VI, *b* 520, a 521; (Felony), IX, a b 60; (Police), XIX, a 348
Misdroy, town (Wollin), XXIV, b 667
Miseno, cape and town (Naples), XVII, b 194, a 195
Miserere of Allegri, I, a 512; of Jommelli, XIII, a 747; of Lully, XV, b 64
—— stall-seat (Architecture), II, a 411
Misericorde, weapon (Dagger), VI, b 670
Misericordia, charitable society (Florence), IX, a 291
Misery mountain (St. Christopher), XXI, b 168
MISHNAH, books, XVI, a 526–31
    authorship, a b 527
    Boraitho, a 531
    commentaries and auxiliaries, a 529–31
    description, a 526–8
    editions, a 529
    Mekhilto, a b 530
    name, a 526
    recensions, a 528
    Siphere, a 531
    Siphro, b 530–1
    subdivisions, b 528–9
    Tosepheto, b 529–30
    translations, a 529
    value of, b 527–8
—— (Fasting), IX, a 41, note; (Hebrew Language and Literature), XI, b 535, b 537; (Israel), XIII, b 438, note, a 439; (Maimonides), XV, b 298; (Midrash), XVI, a 297, a 298; (Mohammedanism), a 622; (Semitic Languages), XXI, a 678; (Talmud), XXIII, b 40, b 41, *a* 42
Mishneh Torah (Maimonides), XV, a b 298
Míshór, plateau (Palestine), XVIII, a 177
Misitheus, rhetorician (Gordianus), X, *a* 695
MISKOLCZ, town, XVI, a–b 531
Misol, kingdom (New Guinea), XVII, a b 399
Misphragmuthosis, military chief (Egypt), VII, b 637, a 638
Mispickel or mispeckel, ore (Arsenic), II, a b 555; (Mineralogy) (Ill.), XVI, b 379, b 406
Misprision, offence (Misdemeanor), XVI, b 525; (Treason), XXIII, a b 562, b 563
Misr, country. See EGYPT
Misr-al'-Atîkah, town (Cairo) IV, a 574
Misrepresentation (Fraud), IX, a 639; (Insurance), XIII, a b 192
MISSAL, service-book, XVI, b 531–4
    ancient Roman, b 531–3
    arrangement of, a b 532
    Gregorian arrangement, a b 533
    high mass celebration, b 533–4
    modern Roman, b 533
    Ordo Romanus, b 533–4
    revised, b 531–2
    various liturgies, a b 532
—— (Holy Water), XII, a 109; (Palestrina), XVIII, a b 183, a b 184, a b 185; Anglo-Saxon (Jumiéges), XIII, b 782; Armenian (Kamenets), XIII, a 842; (English Liturgy), XIV, a b 715; *Sherborne* (Miniature), XVI, b 458. See Mass
Missale Romanum (Missal), XVI, b 531
Miss Angel (Kauffman), XIV, b 18
Missa Solemnis (Beethoven), III, b 436, a 437
Missel-Thrush, XXIII, a 343
Missi dominici, officers of Charlemagne (Appeal), II, a 182; (Germany), X, *b* 430; (France), IX, *b* 470
Missing stays (Seamanship), XXI, a b 629
Missio in possessionem, process (Roman Law), XX, a 729
Mission, Priests of the (Lazarites), XIV, a 374
"Missionary journeys" of Paul, XVIII, a 431 note
—— Society, London (Madagascar), XV, a b 175, a 176
—— stories (Mythology), XVII, a 150
—— system (Cathedral), V, a b 198
Missions, Buddhist (India), XII, *a* b 824
MISSIONS, Christian, XVI, b 534–41
    MEDIÆVAL, a 535–7
        Celtic, a b 535
        English, b 535
        India and America, a b 536
        Jesuit, b 536–7
        Moslem, a 536
        Scandinavian, b 535
        Slavonic, b 535–6
    MODERN, a 537–41
        Africa, a 540
        America, b 539–40
        China, a b 540
        India, b 540–1
        Japan, b 540
        societies and their progress, a b 538
        South Seas, a b 539
        story of rise in England, a 537–8
        zeal, distribution of, a 539
    Primitive period, b 534–5
——, mediaeval and primitive, XVI, a 535–7; (Alchemy), I, b 411; (Channel Islands), V, b 340; (Georgia), X, a 390; (Greece), XI, a 103; (Marignolli), XV, a b 559; (Odoric), XVII, b 748–9; (Se-gan Foo), XXI, a 653 note; Celtic (Fulda), IX, *b* 713; (Ireland), XIII, a b 255; (Lothian), XV, a 12. See Christianity, Conversion to
——, Nestorian (China), V, a 561; (Greek Church), XI, b 138
——, Protestant, XVI, a 537–41; (Baptists), III, a 307; (Benares), b 479; (Beyrout), a 538; (Bible Societies), b 561; (Burmah), IV, a 496, a 498; (Cameroons), b 656; (Carey), V, a b 90; (Caste), b 166; (Celebes), b 251; (Congregationalism), VI, b 238; (Egede), VII, b 603; (Egypt), a 681; (Ellis), VIII, b 139, a 140; (Ethnography), a 550; (Fiji Islands), IX, a 139; (Formosa), b 367; (Gold Coast), X, a 673; (Gutzlaff), XI, b 304; (Hawaiian Islands), a b 472; (Haldane), b 340; (Henderson), a 582; (India), XII, b 784–5, a 814, a b 824; (Japan), XIII, b 590, note; (Java), a b 618; (Labrador), XIV, *b* 176; (Loyalty Islands), XV, b 32; (Macleod), a 165; (Madagascar), b 168, a 172, a b 175; (Madras), b 186; (Martyn), b 593–4; (Malabar), a 315; (Mangalore), b 486; (Methodism), XVI, a b 199, b 202; (Moravian Brethren), b 838–9; (Niger), XVII, a 511; (Oregon), a 849; (Palestine), XVIII, b 182; (Polynesia), XIX, a b 441; (Presbyterianism, American), b 720–1; (Punjab), XX, b 118; (Quakers), a 156; (Schwarz), XXI, a b 482; (Scotland, Church of), a b 563, a 564, a b 565; (Shookong), b 881; (Solomon Islands), XXII, a 267; (Stu-

Missions, *continued*
  art), a 932; (Syria), a 863; (Syriac Literature), a 864 note; (Tahiti), XXIII, b 29, a 30; (Tanjore), b 51; (Tierra del Fuego), b 410, a 411; (Tranquebar), a b 541; (United Presbyterian Church), b 775; (Williams), XXIV, b 617-8; (Zeisberger), b 922-3
—, Roman Catholic, XVI, a 536-8, b 540; (Abyssinia), I, b 64, *a* 65; (America), b 616, b 617; (Benedict XIV.), III, b 482; (Beyrout), a 538; (California), IV, b 615, a 621; (Cambodia), a 641; (Capuchins), V, a 72; (Caste), b 166; (China), a b 516, a 517; (Formosa), IX, b 367; (Greek Church), XI, a 140, b 141; (Hainan), a 335; (Huc), XII, b 342; (India), b 784-5, a 814, a b 824; (Jesuits), XIII, b 659, a 660, *a* 662, a 665; (Lahore), XIV, a 215; (Lazarites), b 374; (Lhasa), b 502; (Lobo), a 750; (Loyalty Islands), XV, b 32; (Madras), b 186; (Malabar), a 315; (Monachism, Benedictine), XVI, b 732; (Nepal), XVII, b 353; (Nestorians), a b 366, note, a 367; (Palestine), XVIII, b 182; (Paraguay), a b 219; (Propaganda), XIX, b 833; (Ricci), XX, b 550-2; (Siam), XXI, a *b* 894; (Smet), XXII, a 910; (Solomon Islands), a 267; (Syria), a 863; (Tahiti), XXIII, a 30; (Tong-King), a b 469; (Xavier), XXIV, a b 753
Missis, town (Cilicia), V, b 679
Mississippi, river (Sketch), XVI, b 541-4
  area of basins, b 541-2
  erosion of, a 542-3
  jetties at mouth, a b 544
  levees, a b 543-4
  tributaries, principal, a b 542
  volumes of, a b 543
— (America), I, b 592, a 593, a 597; (Andes), II, a 16; (De Soto), VII, a b 114; (Iowa), XIII, b 213; (La Salle, R. C. de), XIV, a 319; (Louisiana), XV, *b* 21, *a* 22, *a b* 24; (Minneapolis), XVI, b 497; (Minnesota), a 498, *a* 499; (Missouri), *a* 548; (Navigation Laws), XVII, a 287; (River Engineering) (Ill.), XX, *b* 587, *b* 595, a b 596, a 597; basin of (Petroleum), XVIII, a 886, (United States), XXIII, a b 841; climate (America), I, a 594, a 598; delta (New Orleans), XVII, b 412; detritus (Geology), X, a 242, b 244, *a* 247; erosion of (Geology), b 331; mud lumps (Geology), b 260; navigation of (Clay), V, b 714; (United States), XXIII, a 802, b 806 opening in civil war (United States), a b 825, b 826; survey (Hydromechanics), XII, a 519, b 523, a 524, b 530, b 538; velocity of (Hydromechanics), b 523, b 538; valley, French in the (United States), XXIII, b 781-2; forests (United States), a b 859; geology of (United States), a 852-3
Mississippi, state (Plate VI), XVI, b 544-7
  area, b 544
  climate, a 545
  geology, a 545-6
  history, a b 547
  industrial products, b 546-7
  literature on, b 547
  natural products, b 546
  physical features, b 544-5
  political features, a 547
— (Slavery), XXII, b 907; (Universities), XXIII, a 913, a b 915; history (United States), b 809, b 811, b 821, a b 830, b 831; statistics (United States), b 853, b 857, a 858, a 860, a 863, b 872, a 873, *a* 878
— Company (Finance), IX, b 160; (France), a 515; (Law), XIV, a 367, a b 368, b 369; (Louisiana), XV, a 24
— game (Bagatelle), III, b 198
Missolonghi or Mesolonghi, town, XVI, b 547; (Greece), XI, b 79, a 80; sieges of (Greece), b 111; (Turkey), XXIII, *b* 690
Missoula, river (Montana), XVI, a b 799
Missouri, river (America), I, b 592; (Dakota), VI, b 681; (Iowa), XIII, b 213; (Kansas), a 853; (Mississippi), XVI, a b 542; (Montana), a b 799; basin of (Coal), VI, a 57; (United States), XXIII, b 841
Missouri, state (Plate VII), XVI, b 547-51
  area and surface, b 547-8
  climate, a 548
  commerce, b 549-50
  education and religion, a 550
  geology, a b 548
  history, b 550-1
  mineral products, b 548-9
  physical features, b 547-8
  political order, a b 550
  products, a b 549
— (Divorce), VII, b 264; (Reformatories), XX, a 900, a 901, a 903; (Universities), XXIII, a 913, a b 955; (Wine), XXIV, a 634; history (United States), XXIII, b 809, b 811, b 819, b 821, a b 823, a 825, b 826, b 836; statistics (United States), *b* 853, a b 855, a 856, a 857, *b* 858, a b 860, a b 863, b 864, a 865, note, a b 866, b 867, *a* 870, *b* 872, a 873, b 877, *a b* 878
— Compromise, 1820 (Clay), V, a 715; (Lincoln, A.), XIV, *b* 665; (Mason and Dixon's Line), XV, b 617; (Slavery), XXII, a b 909; (Taney), XXIII, a 922; (United States), b 811, a 819, b 820
Missouri, tribes (Indians), XII, b 872
Miss Sara Sampson (Drama), VII, b 381; (Lessing), XIV, b 479
Mister or Master (Titles of Honor), XXIII, b 444
Mist Halos, XI, *b* 356
Misti, volcano (Andes), II, a 17; (Arequipa), b 426; (Peru), XVIII, a 685
Mistletoe, XVI, a b 551; (Æsir), I, *b* 189; (Baldur), III, *a* 238; (Botany) (Ill.), IV, b 75, a 76, a 77, a 84, a 106, a 123, b 124, b 132; (Druidism), VII, b 412, b 413; (Gloucester), X, b 614-5; (Parasitism), XVIII, b 268, a 270, b 272, a 273; (Physiology), XIX, a 66, a b 67, b 68
— Thrush, XXIII, b 342, a 343
Mistral, wind (Avignon), III, 136; (Climate), VI, a 8; (France), IX, a 447; (Marseilles), XV, a 580; (Meteorology), XVI, b 154
Mistress, love-lyrics (Cowley), VI, *b* 472
Mistress of the Robes (Royal Household), XXI, a 43, notes
Mistress of Philarete (Wither), XXIV, *a* 657
Mist's Journal (Defoe), VII, b 26
Misy, sulphate (Mineralogy), XVI, b 418
"Mita," forced labor (Peru), XVIII, a b 691; regulations of (Bolivia), IV, a 16
Mitaksahra (Sanskrit), XXI, b 302
Mitarai, port (Japan), XIII, b 580
Mitau, town, XVI, b 551
Mitcham, town (Peppermint), XVIII, a b 528, note, b 529; (Perfumery), b 538
Mitchel, John, adventurer, *b.* 1815, *d.* 1875 (Ireland), XIII, b 277
Mitchel, Ormsby McKnight, astronomer, XVI, b 551
Mitchell, Covenanter martyr (Scotland), XXI, a b 538
—, Frederick S., naturalist (Ornithology), XVIII, a 16
—, Humphrey, politician (Labor), XIV, b 169-70
—, James, deaf-mute (Smell), XXII, b 178
—, James, inventor (Metronome), XVI, b 206
—, Robert, assassin (Sharp), XXI, *a* b 817
—, S. Weir, neurologist (Sleep), XXII, a 165; (Snakes), b 201 note
Mitchell, Sir Thomas Livingstone, explorer, XVI, b 551; (Australia), III, b 91, *a* 92
— library, Glasgow (Libraries), XIV, a 522, a 544
Mitchell's Peak (North Carolina), XVII, b 572
Mitchelson, —, physicist (Light), XIV, b 589
Mitchelstown caverns (Tipperary), XXIII, b 432
Mitcheson's Anchor, II, *b* 7, a 8
Mitchill, Samuel Latham, senator, *b.* 1764, *d.* 1831 (Ichthyology), XII, b 669
Mite, insect (Ill.), XVI, a 552-3; (Arachnida), II, b 241-2, (Harvest Bug), XI, b 447; (Galls), X, a 42; nerves of (Physiology), XIX, b 35
Milford, George, physician (Mitford, M. R.), XVI, a 553
Mitford, Mary Russell, author, XVI, a 553
—, William, historian, *b.* 1744, *d.* 1827 (Gilpin), X, b 537
Mithradates I., Arsacid, king of Parthia (Armenia), II, a 480; (Persia), XVIII, b 601, a b 602-3
— II., Parthia (Persia), XVIII, a 606
— III., Parthia (Persia), XVIII, a 607
— IV., Parthia (Persia), XVIII, a 611
— V. or Meherdates, Parthia (Persia), XVIII, b 612-3
— VI., Parthia (Persia), XVIII, b 614, a 615
Mithradates, kings of Pontus, XVI, b 553-4
— II. of Pontus, XVI, b 553; (Pontus), XIX, b 473
— V. of Pontus, XVI, b 553
— VI. Eupator or the Great, XVI, b 553, a 554; (Aquillius), II, b 201; (Armenia), a 480; (Cappadocia), V, a *b* 68; (Caucasus), V, b 222, b 224-5; (Ephesus), VIII, b 415; (Lucullus), XV, b 57-8; (Pontus), XIX, b 473; (Pompey), a 466; (Sinope), XXII, *b* 102; (Sulla), *b* 665, *a* 666; wars (Greece), XI, b 97; (Rome), XX, b 778, b 779
Mithradates or a General History of Languages (Adelung), I, a 139; (Humboldt, W.), XII, a 360
Mithras, Persian god, XVI, a b 554
Mithridate, play (Racine), XX, *b* 213
Mitla palace, Oaxaca (America), I, b 610
Mito, town (Japan), XIII, a 597
Mitrailleurs or mitrailleuse, guns (Artillery), II, b 578; (Gunmaking), XI, a 253; (Patents), XVIII, a 880; early (Arms, etc.), II, b 488
Mitral valve (Anatomy), I, b 791; (Vascular System), XXIV, a 107, a 109, b 110, a 116
Mitre, episcopal (Costume) (Ill.), VI, a 410; feminine (Costume) (Ill.), b 416
Mitre, Bartolomeo, president (Argentine Republic), II, *a* b 433
Mitred Abbots, I, b 28
Mitres (Building) (Ill.), IV, b 436, a b 437, a 438
Mitridate, Re di Ponto, opera (Mozart), XVII, b 15
Mitscherlich, Eilhardt, chemist, XVI, b 554-5; (Astronomy), II, a 689; (Chemistry), V, b 403, a 474; (Fermentation), IX, *b* 82, b 83; (Paper), XVIII, a 230; (Spectroscopy), XXII, *a* 390
Mitschuldigen, Die (Goethe), X, a b 644

Mittags (Bell), III, b 464
Mitta-Mitta, river (Victoria), XXIV, a 233
Mittelzell, town (Reichenau), XX, b 361, a 362
Mittheilungen aus Perthes' geographischem Institut (Perthes), XVIII, a 682
Mitusheff Kameñ, mountain (Nova Zembla), XVII, *b* 619
Mitylene, city. See Mytilene
Mitzekeli, mountain (Janina), XIII, a 575
Mivart, St. George, naturalist (Anthropology), II, b 97, a 98; (Birds), III, a 622 note; (Evolution), VIII, b 670; (Instinct), XIII, b 166; (Morphology), XVI, a 872; (Ornithology), XVIII, b 50; (Variation), XXIV, a *b* 88, note, a 91. See List of Contributors
Mixed life companies (Insurance), XIII, b 180
—— Marriages, XV, b 575, a 576
Mixer, vertical (Baking) (Ill.), III, a 222
Mixite (Mineralogy), XVI, b 423
Mixtecan Dictionary, VII, a 168
Mixture stop (Organ), XVII, b 855, a b 856, a b 857
MIZPAH or Mizpeh, cities, XVI, b 555–6
Mizraim, name. See EGYPT
Mizzì, biographer (Tabarí), XXIII, a 9
Mizzonite (Mineralogy), XVI, b 429
Mjösen lake (Norway), XVII, *b* 589, *b* 591, b 595
Mnasis in Weights and Measures, XXIV, *a* 513
Mnemon, epithet. See Artaxerxes
MNEMONICS, XVI, a 556–7
Mnesarchus, engraver (Gems), X, *a* 124
Mnesicles, architect (Archæology), II, b 314; (Athens), III, b 7
Mnevis, sacred bull (Egypt), VII, b 620, a 621
Mniotilta, genus (Warbler), XXIV, a 388, note
Mniotiltidæ, family (Birds), III, *a* 649, a b 650, a 651; (Warbler), XXIV, a 387, *a* 388
Mniszek, George, of Sandomir, palatine (Russia), XXI, *b* 102
——, Marina, czarina (Russia), XXI, b 102, *b* 103, b 111
Moa, extinct species (Birds), III, b 634; (Dinornis), VII, b, 212; (Egg), b 604; (New Zealand), XVII, a 482, note
—— river (Cuba), VI, a 601
Moab, Land of, XVI, b 557; (Dead Sea), VII, b 3; (Palestine), XVIII, a 177, a 180, b 182
MOAB, people, XVI, a 557–8
  Jewish wars of, a b 558
  land and importance of, b 557
  origin of, a 557
  people and manners, a b 557
  prophetic accounts of, b 558–9
MOAB, *continued*
  similarity to Israel, a b 559
  sources of information, b 559
—— (Alphabet), I, a 528; (David), VI, a 739, note; (Israel), XIII, a 415, a 417, a 418; (Palestine), XVIII, a 177, a 179, a 180, a 182; (Semitic Languages), XXI, b 676, a 677
Moabite stone. See Mesha Inscription
MO‘ALLAKAT or Moallaqah, poems, XVI, b 559–63
  age and origin, b 559–60
  authors of, a b 560
  characteristics of, a 561
  Hammád's collection, a b 560
  poetry, Arabian, b 561–2
  structure of, b 562–3
  transmission of, a b 561
—— (Amru-el-Kais), I, a 683; (Arabian Philosophy), II, b 230; (Hengstenberg), XI, a 582; (Hamasah), b 360
Moassina, region (Soudan), XXII, *a* b 292
Moat-hen. See MOOR-HEN
Moawyah. Mo‘áwiya or Muawwiyah I., caliph (Ali), I, *b* 504; (Arabia), II, a b 226; (Greece), XI, a 103; (Hasan and Husein), *b* 454; (Mohammedanism), XVI, b 586–7, a 588–90, a b 612
—— II., caliph (Mohammedanism), XVI, a 592
—— ben Hodaij, general (Mohammedanism), XVI, a 589, a 590
Mobangi, river (Zaire), XXIV, *b* 802
Móberg, rock (Iceland), XII, a 651
Mobile bay, XVI, a 563
MOBILE, city, XVI, a b 563; (Alabama), I, b 388, *a b* 389; capture of (United States), XXIII, b 828; (Taylor, R.), a 929; speculation in (United States), XXIII, b 814
Mobilization of British Army, II, b 509; of Prussian Army, II, b 523
MOBIUS, August Ferdinand, astronomer, XVI, b 563–4; (Quaternions), XX, b 169, note, a 170
——, Karl A., naturalist (Oyster), XVIII, b 110, b 111 note, b 112, b 113; (Pisciculture), XIX, b 136
——, Theodor, philologist (Scandinavian Languages) XXI, b 383 note, b 386 note, a 390
Moccasin Snake, XXII, b 210; (Zoology), XXIV, b 924
Moccoletti, tapers (Carnival), V, *b* 109
Mocedades del Cid (Castro), V, a 176
Mocenigo, Tommaso, doge (Foscari), IX, b 415; (Venice), XXIV, b 165
MOCHÁ or Mokha, town, XVI, a 564; (Arabia), II, a 221; (Red Sea), XX, a 329
—— Coffee, VI, a 101, a 102
—— stones (Agate), I, a 248
Mochta, Saint, abbot (Ireland), XIII, a 254
Mochuda, Saint (Ireland), XIII, b 256
MOCKING-BIRD, XVI, a 564; (Blackbird), III, a 694; (Zoology, American), XXIV, b 923
Mock-moons (Halo) (Ill.), XI, a b 356
—— -suns (Halo) (Ill.), XI, a 356
Moctadir of Saragossa, king (Cid), V, a 676
Modalists, sect (Sabellius), XXI, *b* 135–6
Moddan of Scotland, count (Thurso), XXIII, b 354
Modée, Reinhold Gustaf, dramatist (Sweden), XXII, b 794
Modelling (Building), IV, a 455; (Dentistry), VII, b 86–7; (Drawing), b 388; (Shipbuilding), XXI, b 846, a 847; clay (Sculpture), a b 598; Greek (Terra-Cotta), XXIII, a 209
Models (Mathematical Drawing and modelling), XV, a b 635
MODENA, city (Plan), XVI, b 564–5; (Academy), I, b 75; (Libraries), XIV, a 530, b 550; (Observatory), XVII, a 734; (Schools of Painting), XXI, b 455–6, a 463; (Universities), XXIII, b 891; duchy of, XVI, a b 565
Modène, Comte de (Molière), XVI, b 647, a 648
Moderate Church party (Free Church of Scotland), IX, *b* 653; (Scotland), XXI, *a b* 562, *a* 563, b 564
Moderation, or "the mean" of virtue (Aristotle), II, a b 455
Moderator band of heart (Anatomy), I, a 791
—— Lamp (Ill.), XIV, b 246–7
Modern Egyptians (Lane), XIV, b 282
—— *Griselda* (Edgeworth, Maria), VII, a 568
—— *Magic* (Legerdemain), XIV, b 415
—— *Painters*, Ruskin (Turner), XXIII, a b 707 note, a 710
Modes, insertions (Lace), XIV, *a* 186, a 187
——, in music (Plain Song), XIX, b 179, a b 180
Modestinus Herrenius, jurist (Justinian), XIII, a 802; (Roman Law), XX, *b* 730, a 731
Modestus and Crescentia, martyrs (Vitus), XXIV, a 286
MODICA, city, XVI, b 565–6
Modillion (Architecture), II, a 411; Roman (Architecture), a 365
Modiolus (Anatomy), I, b 784, a 785, a 786
Modius in Weights and Measures, XXIV, a 510, *b* 512, b 513
Modlin, fortress (Novogeorgievsk), XVII, b 623; (Warsaw), XXIV, b 397
Mödling Aqueduct (Ill.), II, a 199
Modocs, tribes (Indians), XII, b 873
Module in Architecture, II, a 411
Modules, masonry construction (Hydromechanics) (Ill.), XII, b 500–3
Modulus (Elasticity), VII, a b 698, a b 700, b 706, a b 707–8; (Logarithms), XIV, a 780, *a* 786; (Numbers), XVII, b 631, a b 633, *a* 637, b 638; (Strength of Materials), XXII, b 624–5; (Variable), XXIV, *a* b 77, a b 78, b 79, a 81, b 82; of common. system of logarithms (Algebra), I, a 491; of decay (Tides), XXIII, *b* 383; of elasticity (Bridges), IV, b 256; of a machine (Mechanics), XV, a 775; of rupture (Bridges), IV, b 260; of the system (Probability), XIX, b 803–4
Modus Tenendi Parliamenti (Knighthood), XIV, b 114
Moe, Bernt, biographer (Norway), XVII, b 606
MOE, Jörgen Engebretsen, poet, XVI, a 566; (Norway), XVII, b 605, a b 606
Mo‘ed (Mishnah), XVI, b 528
Moedhdhin, crier (Mosque), XVI, a 891
Moel Hebog, mountain (Carnarvon), V, a 105
—— Siabod, mountain (Carnarvon), V, a 105
Möen, island (Denmark), VII, *b* 70, a b 73; (Zealand), XXIV, a 810 note
Moeris, lake (Egypt), VII, b 613, a 615, a 637, b 671
——, king (Egypt), VII, b 671; (Pythagoras), XX, a 146, note
Moero, lake (Africa), I, b 222, a 229; (Zaire), XXIV, b 801
Moesa, river (Italy), XIII, a 445
MŒSIA, province, XVI, a b 566; (Greece), XI, b 100, b 103; (Ulfilas), XXIII, a 767
Mœsogoths, race (Goths), X, b 754, a b 757; (Mœsia), XVI, a 566
Mœurs, Essai sur les (Voltaire), XXIV, b 308, a 310, a 313
Mofaddal, author (Mó‘allakát), XVI, a b 560
MOFFAT, village, XVI, b 566; (Dumfries), VII, *b* 454
—— Water (Annan), II, a 55
MOFFAT, Robert, missionary, XVI, b 566; (Hottentots), XII, a 326. See List of Contributors
MOGADOR, town, XVI, b 566, a 567; (Morocco), b 857
Mogáhid or Mugeto, Saracen chief (Pisa), XIX, a 128
Moggallâna, grammarian (Pâli), XVIII, b 189, a 190
——, mendicant (Buddhism), IV, a 385, b 386, a 387
Moggridge, J. T., naturalist (Arachnida), II, b 259, *b* 260
Moghals, tribe (Afghânistân), I, a 211

- MOGHILEFF, province, XVI, a 567; (Russia), XXI, a 76, a b 87
- —— on the Dnieper, town, XVI, b 567
- MOGHILEFF, on the Dniester, town, XVI, b 567
- Moghistan, province (Ormus), XVII, a 881
- Moghul. See Mongol
- *Mogigata, La*, comedy (Moratin), XVI, b 835
- MOGILAS, Petrus, archbishop, XVI, b 567; (Catechism), V, b 191; (Greek Church), XI, b 141
- Mogollon, mountains (Arizona), II, b 472; (New Mexico), XVII, b 410
- Mogoung, river (Irawadi), XIII, b 219
- Moguer Wine, XXIV, b 639
- MOGUL, term explained, XVI, b 567. See Mughals
- MOHÁCS, town, XVI, b 567–8; battle of, 1526 (Hungary), XII, b 383; (Turkey), XXIII, b 684
- MOHAIR, XVI, a b 568; (Goat), X, a 632; (Kurdistan), XIV, a 159
- Mohallab, general (Mohammedanism), XVI, b 594
- Mohammed. See also Mahmud, Mahomet, Mehemet and Muhammad
- MOHAMMED, prophet, XVI, a 568–84; (Abu-Bekr), I, a 60; (Arabia), II, a b 224, b 231; (Mecca), XV, b 678, b 681, a 682; (Medina), a b 827, notes, a 828; (Mo'allakát), XVI, b 559, a 561; (Penance), XVIII, a 495; biographies of (Tabarí), XXIII, b 6; standard of (Alay), I, b 394; traditions about (Tabarí), XXIII, a 6
- —— III. of Baghdad, al Mahdi, caliph (Shi'ites), XXII, b 698
- —— I. of Cordova, caliph (Spain), XXII, a b 327
- —— II. of Cordova, al Mahdi (Spain), XXII, b 329
- ——, shah of Kharizm (Turks), XXIII, b 702
- ——, sultan of Seljuks, XXI, a 667
- —— Aboo Dhahab Bey, pasha (Egypt), VII, b 658, a 659
- —— Ahmed, Sudanese Mahdi (Sunnites), XXII, b 700
- —— al-'Amin, caliph (Mohammedanism), XVI, b 604, b 605, a 606
- —— Ali, pasha of Egypt. See Mehemet Ali
- —— al-Násir, caliph (Spain), XXII, b 331
- —— Bakhtyar Khiljí, conqueror (Bengal), III, a 491; (Monghyr), XVI, b 766
- —— ben 'Abdal-Melik, vizier (Mohammedanism), XVI, b 607
- —— ben 'Ali, rebel (Mohammedanism), XVI, b 591
- —— ben Anushtegin, shah (Turks), XXIII, b 702
- —— ben Faroj, impostor (Mohammedanism), XVI, b 607
- —— ben Hanafiya, caliph (Mohammedanism), XVI, b 592, a b 593
- —— ben Kásim, general (Mohammedanism), XVI, a 595
- —— ben Mansur, al Mahdi (Mohammedanism), XVI, b 603–4. See Mahdi
- —— Bey El-Elfee (Egypt), VII, a *b* 660, a b 661, *a* b 662
- —— el-Senúsí, sectary (Tripoli), XXIII, b 612
- —— Girai Khan (Mongols), XVI, a 775
- —— Gragu, general (Abyssinia), I, b 64
- —— -Ibn-Abdallah, al Mahdi (Almohades), I, a 522; (Spain), XXII, b 331
- —— ibn 'Abd al-Rahmán, caliph (Spain), XXII, a 330
- —— ibn-abí-'Amir, al Mahdi, caliph (Spain), XXII, b 328–9
- —— ibn al-Ahmar, of Granada, caliph (Alphonso), I, a b 542; (Spain), XXII, a b 332
- —— ibn-Suleyman, soldier (Egypt), VII, a b 650
- —— Khodahbende Oeljitu, sháh (Shi'ites), XXII, a 698
- —— Khusruf Pasha (Egypt), VII, a 660, a 661, note
- —— Tughlak, sultan. See Muhammed
- —— Yusuf Kahn, chief (Rennell), XX, b 410 note
- Mohammedan Antichrist, II, b 111; Architecture. See Saracen; (Beards), III, b 399-400; Calendar, IV, b 602-4; Dogs, VII, a 282; era (Chronology), V, b 622; law, XVI, a 576, a b 621, b 625; (Sunnites), XXII, b 696, *a* 699; Messiah (Mahdi), XV, a 288; Paradise, XVIII, a 241; Pilgrimage, XIX, b 101–2; poorer classes (Sunnites), XXII, b 697–8; travellers (Geography), X, a 159; Wood-Carving (Ill.), XXIV, a b 683
- MOHAMMEDANISM (Plate VIII), XVI, a 568-628
  - 'ABBÁSIDS, a 600–11
    - Abú 'l-'Abbás, a 600–1
    - African revolt, b 601
    - Amín, b 605–6
    - Baghdád founded, a 602
    - Barmecide family, a b 604, a 605
    - Carmathian period, b 608-9
    - emir of emirs, period of, b 609–10
    - Fátimites, rise of, b 609, a 610
    - genealogical table, a 611
    - Hádí, b 603
    - Hárún al Rashíd b 603–5
    - Ibráhím's revolt, b 606
    - Káhir billáh, a 609–10
    - Mahdí, b 602-3
    - Ma'mún, a 606–7
    - Mansúr, Ja'far al-, a 601–2
    - Mongol invasion, b 610-1
    - Mo'tasim, a b 607
    - Motawakkil, b 607–8

MOHAMMEDANISM, *continued*
  - 'ABBÁSIDS
    - Seljuk tributary caliphs, b 610
    - Spanish caliphate, rise of, b 601–2
    - Turkish tributary caliphs, a b 609
    - Wáthik, b 607
  - CIVILIZATION, EASTERN, b 611–9
    - 'Abbásid state or organization, a 613-4
    - commerce and arts, a b 619
    - doctrinal movement, a b 614
    - first caliphate, institutions of, b 611–2
    - heterodox sects, b 614–5
    - Ismalian sects, b 615–6
    - law, b 616–7
    - literature, a 617–8
    - Omayyad state organization, a 612–3
    - orthodox sects, a 615–6
    - science, b 618–9
    - sects, a b 614–6
    - Súfism, a b 616
  - EASTERN CALIPHATE. See in this analysis 'Abbasids, Omayyads and Civilization, a 588–619
  - INDEX, a b 628
  - KORAN, a 619-28
    - abrogated parts, a b 621
    - Biblical relations, a 622
    - commentators and translators, a b 628
    - contents, b 621–2
    - date of, a 624
    - eternity of, b 628
    - foreign words in, b 623–4
    - form of, literary, b 620–1
    - Lord's prayer, or Fátiha, a b 625
    - Mecca Súras, a 624–5
    - Medina Súras, b 625–6
    - mysterious letters, a 626
    - parts, component, a b 620
    - revelation, form of its, b 619–20
    - style of, a 622–3
    - Súras, a 624–6
    - textual history, late, b 627
    - transmission of, a 626-7
  - MOHAMMED, a 568–84
    - Arabia at his birth, a b 569
    - Bedr, battle of, b 578–9
    - Biblical influences on, b 570–1
    - caliphate, rise of the, b 584–7
      - Abúbekr, b 584–6
      - 'Alí, a b 587
      - Khárijites, policy of, b 587
      - 'Omar, a 586
      - 'Othmán, a 586–7

MOHAMMEDANISM, *continued*
  - MOHAMMED
    - compromise with Mecca, b 572–3
    - conversion of Arabia, b 583–4
    - death and influence of, a b 584
    - emigrants, defenders and hypocrites, b 577–8
    - first converts, a 572, b 573
    - Fosse, war of the, b 579-80
    - Greek war, a 584
    - flight to Medina, a 575–6
    - Hanífs, b 570–1
    - Holy war, a 578–81
    - interdíct, a 574
    - internal dissensions, a 583
    - Jews, relation of, b 576–7, a b 581
    - Mecca, subjugation of, a 582–3
    - Meccans, hostility of, a 572–4
    - Medina, homages of, b 574–5
    - Ohod, battle of, a b 579
    - peace of Hodaibiya, b 580–2
    - political policy of, a b 574, a b 576
    - Precepts of Islam, a b 577
    - reflections on his character, a b 584
    - religion of Arabia, b 569-71, b 576
    - sources of information, b 587–8
    - Táif embassy, b 583–4
    - visions begin, a 571–2
    - youth of, b 569
  - OMAYYADS
    - 'Abbásids, rise of the, a b 597, b 599-600
    - 'Abd-al-Melik, b 592–5
    - African conquests, b 595
    - 'Alí, death of, a b 589
    - Damascene supremacy, causes of, a b 588
    - foreign conquests of Mo'áwiya, a b 590
    - genealogical table, a b 600
    - Hishám, a 598–9
    - Hosaín's death, revenge of, a b 591
    - Ibn Zobair, revolt of, b 591–4
    - Ibráhím, a 599
    - Irák, Hajjáj in, b 594–5
    - Merwán I., a b 592
    - Merwán II., b 599-600
    - Mo'áwiya I., b 588–90
    - Mo'áwiya II., a 592
    - Mokhtár's revolt, b 592–3
    - 'Omar II., a b 597
    - Solaimán, b 596–7
    - Spanish conquests, a b 596
    - Walíd I., b 595–6
    - Walíd II., a 599

MOHAMMEDANISM, *continued*
  OMAYYADS
    Yazíd I., b 590–2
    Yazíd II., b 597–8
    Yazíd III., b 599. See Islam, Moslems, Mussulmans
—— (Ablution), I, b 52; (Afghânistán), a 213, b 214; (Africa), a 233, b 234, a b 237; (Asia), II, a 611; (Assam), a 627, a 628; (Badakshan), III, a 193; (Balaam), a 224; (Bengal), b 486–7; (Bondu), IV, a 29; (China), V, *a* 554, b 556, a 565, b 566; (Coffee), VI, b 100–1; (Copts), a b 314; (Damascus), a b 697; (Deccan), VII, b 18; (Egypt), b 626, a 627, a 649–66; (Europe), VIII, a b 625, *a* 626; (Fasting), IX, a 44; (Festivals), a 103; (Funeral Rites), a 721, b 725–6; (Georgia), X, a b 388; (Ghazni), *b* 501–2; (Gilgit), a 534; (Greece), XI, b 102, b 109, a 110; (Hami), a 366; (Imam), XII, b 753; (Incense), b 758, a 759; (India), b 783–4, a 831–5; (Indian Archipelago), a 859; (Inscriptions), XIII, a 127; (Ispahán), b 404, b 405; (Java), a 618; (Kafiristan), a b 830, b 831; (Kashgar), XIV, a 10; (Khazars), a 62; (Lully), XV, *a* b 65; (Madras), b 186, *b* 188; (Magic), a b 204; (Maimonides), a b 299; (Malays), a 329; (Maldive Islands), a 332, a 333; (Manichæism), b 492, b 494; (Mecca), a 677–82; (Medicine), b 814–5; (Mongols), XVI, b 768, a 773; (Nawawi), XVII, a 311; (Patna), XVIII, b 419–20; (Persia), b 626–7; (Portugal), XIX, *a b* 555, a b 556, a b 557, b 558, b 559; (Predestination), a b 688; (Priest), b 749; (Religions), XX, 374, b 380, a *b* 381, a 382, b 383; (Seljuks), XXI, a 666; (Slavery), XXII, a 152; (Spain), a 324–5, a 327–8; (Sunnites), a 694–700; (Syria), a b 862; (Syriac Literature), a b 881; (Theism), XXIII, b 259–60, a b 261; (Zodiacal Light), XXIV, a 835; caliphate of transferred (Turkey), XXIII, a 684; Jewish relations to (Israel), XIII, a 440; precepts of, XVI, a b 577; reform of (Hindustani), XI, b 758. See Moslem
Mohamreh, town (Bussorah), IV, a 515
Mohanek, island (Bahrein), III, b 207
Mohárí, town (Bhandárá), III, b 542
Moharrek, island (Arabia), II, a 222
Mohatra bargain (Casuistry), V, a 178
Mohave Indians, XII, *a* 865, a 867
Mohawk Dictionary, VII, b 168
—— river (Hudson River), XII, a 345; (United States), XXIII, a 842, b 843; valley (New York), XVII, a 462, a 463, a 465, b 467; (United States), XXIII, a 872
Mohegans, tribes (Indians), XII, b 867, b 871; (Totemism), XXIII, b 502, b 504; dialect (Eliot), VIII, a 129
Moher cliffs (Clare), V, a 701
Mohilla island (Comores), VI, a 197
Mohilov, town (Moghileff), XVI, b 567
Mohl, Hugo von, botanist (Grasses), XI, b 49, b 53; (Protoplasm), XIX, b 850, a 852
MOHL, Jules, orientalist, XVI, a 629; (Firdousi), IX, a 198; (Hammer von Purgstall), XI, *b* 381–2
MOHLER, Johann Adam, theologian, XVI, a 629; his *Symbolik* answered (Baur), III, b 387–8
Mohn, island (Livonia), XIV, a 730
——, Henrick, meteorologist (Polar Regions), XIX, a 335. See List of Contributors
MOHR, Karl Friedrich, physicist, XVI, a 629–30; (Coal), VI, a 46
Mohr Add, tree (Frankincense), IX, b 624, b 625
Möhring, Paul H. G., naturalist (Ornithology), XVIII, a 9
Mohr Madow, tree (Frankincense), IX, b 624, b 625
Mohrya, lake, Africa (Lake Dwellings), XIV, b 223
Mohs, Friedrich, mineralogist (Crystallography), VI, *a* 597, *a* 598; (Haidinger), XI, *a* 334; (Mineralogy), XVI, a 385, a 393
Mohtadí-billah, caliph (Mohammedanism), XVI, b 608
Mohtesib, officer (Makrízí), XV, b 314; (Mohammedanism), XVI, a 614
Mohur, coin (Numismatics), XVII, *b* 679
Moidart, Kinloch (Charles Edward), V, b 369
Moigno, François Napoleon Marie, mathematician (Variations), XXIV, a b 93, b 94
Moimir of Moravia, duke (Germany), X, b 431
Moines d'Occident (Montalembert), XVI, a b 798
MOIR, David Macbeth, essayist, XVI, a 630
——, George, essayist, XVI, a 630
Moira, district (Leicester), XIV, b 424
——, earls of (Hastings), XI, a b 461
——, Francis Rawdon, earl of (Cabinet), IV, b 550; (Hastings), XI, a b 461; (Moore), XVI, b 832, a b 833
Moiré, pattern (Calender), IV, b 605
Moirée metallique, tin plate (Iron), XIII, b 367
Mois or Stiengs, savages (Cochin China), VI, a 88
Mois, Les (Roucher), XXI, b 15
Moise Sauvé, epic (Saint-Amant), XXI, b 165
Moisie, river (Labrador), XIV, a 176
MOISSAC, town, XVI, a 630
Moisture (Hygrometry), XII, b 603–5; effect of (Gunpowder), XI, a 287; hothouse (Horticulture), XII, a b 237
Mo'izz, ruler (Tunis), XXIII, b 660
—— -li-deeni-llah, caliph (Egypt), VII, a 651; (Mohammedanism), XVI, a 610
—— al-Daula (Mohammedanism), XVI, a 610
Mojangà, town (Madagascar), XV, a 176
MOKADDASI or Makdisí, geographer, XVI, b 630; (Persepolis), XVIII, b 569 note, a 570, note, b 571
Mokandarra, pass (Kotah), XIV, b 144
MOKANNA, veiled prophet, XVI, b 630; (Merv), a 49; (Mohammedanism), a 603; (Turks), XXIII, a 702
Mokattan Observatory, XVII a 729
Moke, Maria, pianist (Pleyel), XIX, b 235
Mokha, town. See MOCHA
Mokhtar, Mohammed, general (Harar), XI, b 406
—— ben Abí 'Obaid, rebel (Mohammedanism), XVI, b 591, b 592–3
Mokko-Mokko district (Sumatra), XXII, a 673
Mokrani, el-, chief (Algeria), I, a 502
Moksha, river (Penza), XVIII, a 525
MOKSHAN, town, XVI, b 630; (Penza), XVIII, b 525
Mokshas, tribes (Mordvinians), XVI, b 839, a 840
Moktadí bi-amr-illáh, caliph (Mohammedanism), XVI, b 610
—— billáh, caliph (Mohammedanism), XVI, a 609
Moktafí billáh, caliph (Mohammedanism), XVI, a 609
MOLA, town, XVI, b 630
Molai, James de. See MOLAY
Molandigo, mountain (Italy), XIII, b 446
Molar teeth (Dentistry), VII, a b 84; (Digestive Organs) (Ill.), b 202, a b 206; (Horse) (Ill.), XII, b 177, b 182–3; (Mammalia) (Ill.), XV, a *b* 353, a b 354, a b 355, *a b* 356
Molasse series, Swiss (Geology), X, b 322, a 323, a 330
Molasses (Dyeing), VII, a 499; (Sugar), XXII, b 657, a 659, b 660; sorghum (Durra), VII, b 487
MOLAY or Molai, Jacques de, Templar, XVI, b 630; (Templars), XXIII, a b 179, a 180, a b 181
Molbech, Christian, lexicographer (Denmark), VII, b 81; (Scandinavian Languages), XXI, a b 390
Mold, town (Flint), IX, b 286
Moldau river (Austria), III, b 101; (Elbe), VII, a 717
Moldavia, principality (Greece), XI, a 111; (Jews), XIII, a 697; (Roumania), XXI, b 20–1, b 23–7
Moldavians, race (Russia), XXI, b 87
MOLE, animal (Ill.), XVI, b 630–2; (Africa), I, a 232; (Distribution), VII, a 234; (Mammalia), XV, a 351, b 497–8; (Skeleton), XXII, *b* 125, a 126; (Smell), b 176
——, river (Surrey), XXII, a b 729
Molé, Louis Mathieu, count (France), IX, b 546; (Guizot), XI, a b 239, b 240–1
——, Matthieu, president (Condé the Great), VI, a 219, a 220; (Mazarin), XV, b 659
Molech, god (Molóch) (Ill.), XVI, a 722
Mole-cricket (Wheat), XXIV, b 564
Mole, duck-billed. See PLATYPUS
Molecular action (Diffusion), VII, b 186–7, a 188, a 189, a b 190; attraction, formulæ of Capillary Action), V, b 55–6; changes in rocks (Geology), X, b 230–1; in tissue (Physiology), XIX, b 21–5; constitution of Protoplasm, b 851; density (Smell), XXII, b 177–8; formulæ (Chemistry), V, a 409–10, a b 474, b 475; friction (Elasticity), VII, a b 696, a 697; granulations (Lichens), XIV, b 556; magnet (Magnetism), XV, a 273; measurements (Atom), III, a b 37; rotation (Hydromechanics), XII, b 463; science (Atom), III, b 35–9
—— structure (Elasticity), VII, b 697; (Magnetism), XV, b 224; changes in (Elasticity), VII, b 707–9
—— theory (Magnetism), XV, b 278; of gases (Graham), XI, a b 30; of matter (Boscovich), IV, a 60; of motion (Glacier), X, b 562; vortex theory (Magnetism), XV, a b 279
—— weights (Chemistry), V, b 408, a 415
MOLECULE, XVI, a 632–46
  aggregates of similar molecules, b 636–8
  atomic conceptions of, a 632–3
  chemical aspect of, a 643–6
  density theories, b 644–6
  dissociation, a 645–6
  diffusion of gases, a 640–1
  dimensions of, a 642–3
  external energy, effects of, a 638–9
  forces tending to fixed centres, a 635–6
  free path, a 637–9
  friction or viscosity of gases, a 641–2
  gases, behavior of, a 633–4, a 644
  hypothesis, a 632–4
  kinetic theory, conclusions of, b 639–40, a 644
  mixtures of gases, a b 636
  physical properties of monatomic medium, a 635–7
  velocities of permanent distribution, a 634–40
  wave theory, b 639–40
  weight formulæ, a 644–6

- Molecule (Chemistry), V, b 405, a 406, a 411-2; (Constitution of Bodies), VI, b 278, a 279 (Crystallography), *a* 596; accretion of (Mineralogy), XVI, a b 361; coherence of (Mineralogy), XVI, b 361, a 362; cosmic relations of (Atom), III, b 42-4; decomposition of (Iodine), XIII, b 208, a 209; organic (Chemistry), V, b 471
- Moles, ancient (Harbors and Docks) (Plate VIII), XI, a 414
- MOLESKIN, fabric, XVI, a 646
- Moléson, mountain (Freiburg), IX, b 670
- Molestation defined (Trade Unions), XXIII, b 531
- MOLESWORTH, Sir William, publicist, XVI, a 646; (Comte), VI, b 206-7; (Grote), XI, a 191
- MOLFETTA, city, XVI, b 646
- Molge, genus of Amphibia (Triton), XXIII, a 614
- Molgulidæ, family (Tunicata), XXIII, b 656
- MOLIÈRE, Jean Baptiste Poquelin, dramatist, XVI, b 646-53
  - Béjard story refuted, b 647-8
  - bibliographical, a 653
  - *École des Femmes* and sequelia, b 650-1
  - *George Dandin*, a 652
  - last days, b 652
  - marriage of, b 650
  - *Misanthrope*, b 651
  - Paris, return to, a 649
  - personal qualities, b 652-3
  - philosophical tastes, a 647
  - *Précieuses ridicules*, b 649
  - strolling actor period, a 648-9
  - *Tartuffe*, a b 651
  - Théâtre du Palais Royal, a 650-2
  - Théâtre du Petit Bourbon, a 649-50
  - tragedien, failure, a 650
  - "Troupe du roy" period, b 651-2
  - valet tapissier period, a b 647
  - youth and schooling, b 646-7
- —— (Academy), I, b 72; (Aristophanes), II, a 447; (Congreve), VI, a b 241; (Corneille), b 370, *b* 371; (Don Juan), VII, b 309; (Drama), a 367, a b 368; (France), IX, a 507, a 579; (La Fontaine), XIV, a 206; (Le Sage), b 473; (Racine), XX, *b* 211, *a* 212, a 213, b 215; (Women), XXIV, a 908
- Molin, sculptor (Gothenburg), X, *b* 751, a 752
- Molina, Maria de, queen (Spain), XXII, b 333, *a* 334
- ——, Christoval de, priest (Peru), XVIII, a 693
- ——, Giovanni Ignazio, naturalist (Ornithology), XVIII, b 12
- MOLINA, Luis, theologian, XVI, a b 653; (Suarez), XXII, a b 648
- ——, Stephen, friar (Franciscans), IX, b 615
- ——, Tirso de. See Tellez, Gabriel
- MOLINE, city, XVI, b 653
- Molinet, Jean, chronicler (Chastelain), V, b 377
- Molineux. See Mollineux
- Moling, St., poet (Celtic Literature), V, b 267, a 268; (Ireland), XIII, b 251, b 256
- MOLINOS, Miguel de, quietist, XVI, b 653-4; (Guyon), XI, *b* 306; (Innocent XI.), XIII, a 92
- Molinos del Rey, battle of, 1847 (Sumner), XXII, a 935
- MOLISE, province, XVI, b 654; (Italy), XIII, b 448, a 506
- Molitor, Joseph Franz, mystic (Theosophy), XXIII, a b 299
- Mólivo, city (Lesbos), XIV, b 474
- Mollahs, Persian clergy (Shi'ites), XXII, a 699-700; (Sunnites), a b 696, note
- Möller, bay (Nova Zembla), XVII, b 619
- Möller, Axel (Comet), VI, b 172, *a* 173
- Möller's solution (Taxidermy), XXIII, a 96
- *Moll Flanders* (Defoe), VII, a 27
- Mollineux, Emerie, geographer (Globe), X, b 608-9, note; (Hudson, H.), XII, a 346
- Mollities ossium, disease (Pathology), XVIII, b 331-2
- MOLLUSCA, animals (Ill.), XVI, a 654-722
  - ANISOPLEUROUS GASTROPODS (Ill.), a 667-88
    - euthyneura (Ill.), a 678-88; classification, b 679-80, b 684; comparative view of sub-orders a 683-4; degeneration in, a b 680; development, a b 683, a 684, a 687-8; external structure, b 680-2, b 684-5; general characters, a 678-9, b 684; generative organs, b 682-3, b 685-6; internal organs, a 682-3, b 685-6; marine pulmonata, a 688; nervous system, a 683, a 684, a b 686; opisthobranchia (Ill.), a 679-84; pulmonata, b 684-8; shell formation, a 681-2, b 686-7
    - general characters and branches, a 667-8
    - streptoneura, a 668-78; azygobranchia (Ill.), b 671-8; classification, a 672-3, b 677; development, b 671, a b 677; digestive tract, a b 671, b 675; external structure, b 668-9, b 671-2, b 673-4, b 675-6; foot of azygobranchia, b 676–

MOLLUSCA, *continued*
  - ANISOPLEUROUS GASTROPODS
    - 7; gills and heart, a 670, b 674-5; internal organs, a 669-71, a 674-5; natantia, b 677-8; nervous system, b 669, a b 675; proboscis, b 675-6; renal organs, a 670-1, a b 674; reptantia, b 672-7; zygobranchia (Ill.), a 668-71
  - CEPHALOPODA (Ill.), a 689-710
    - alimentary tract, b 701-2
    - blood, vascular system, b 703-4
    - chromatophores, a 707
    - cœlom, a b 703
    - eye, peculiarities of, b 705-7
    - excretory system, a b 704
    - general characters, a 689-90
    - genital organs, a 707-8
    - head and foot, b 698-700
    - hectocotylized arm, b 700
    - ink bag, a b 702
    - mantle-skirt, b 698-9
    - muscles and skeleton, b 700-1
    - nervous system, a 705
    - pallial chamber, b 698
    - Pteropoda (Ill.), a 690-1; general characters, a b 690; gymnosomata, a 691; thecosomata, b 690-1
    - reproduction and development, a 708-10
    - sense organs, special, a 705-7
    - sexual characters, a b 700
    - shell and visceral hump, a 696-7
    - SIPHONOPODA (Ill.), a 691-6; classification, b 693-4, a 695-6; dibranchiata, a 694-5; external structure, a 691-2; internal organs, a 692; reproduction, a 692-3; tetrabranchiata, b 693-4
    - tegumental pores, b 704-5
    - tentacles, b 699-700
  - classification, b 655, b 668, a 672-3, b 677, b 679-80, b 684, b 690, a 691, b 693-4, a 695-6, a 711
  - dentition, b 663
  - division in two branches (Ill.), b 661-3
  - general characters, b 655-7
  - GLOSSOPHORA, b 663-710
  - ISOPLEUROUS GASTROPODS (Ill.), a 664-7

MOLLUSCA, *continued*
  - ISOPLEUROUS GASTROPODS
    - anatomy of, a 665-6
    - chætoderma (Ill.), b 664
    - neomeniæ (Ill.), a b 664
    - nervous system (Ill.), a 666-7
    - place of, a 665
    - polyplacophora or chitons (Ill.), a 664
  - LIPOCEPHALA Lamellibranchiata, Conchifera (Ill.), a 710-21
    - alimentary tract, a 717
    - ancestral view of, a 711-2
    - blood, vascular system, a b 717
    - classification, a 711
    - development, b 719-21
    - external structure, a 712-3
    - foot, b 713
    - general characters, a 710-1
    - gill plates or ctenidium, a 714-7
    - gonads, b 719
    - labial tentacles, a 714
    - musculature, a b 712
    - nephridia or urinogenital organs, b 717-8
    - nervous and sense organs, b 718-9
    - shell-formation, b 712-3
  - literary history of, a 654-5
  - literature on, b 721-2
  - odontophore (Ill.), a 662-3
  - SCAPHOPODA (Ill.), a 688-9
  - SCHEMATIC MOLLUSC (Ill.), a 657-61
    - development of, b 660-1
    - external structure, a b 658
    - internal organs, b 658-60
    - nervous system, a 659-60
    - object of constructing, a 657-8
    - sense organs, special b 659-60
    - shell formation, b 661

- —— (Animal Kingdom), II, b 46, a b 48; (Baltic), III, a 257; (Brachiopoda), IV, a b 170; (Cockle), VI, b 91-2; (Crustacea), b 574, note; (Cuttle-Fish), b 648; (Distribution), VII, a b 243, a 244, *a b* 245, a b 246; (Egg), a 604; (Forbes), IX, *b* 342; (Hibernation), XI, b 704; (Himalaya), a 745; (Madeira), XV, a 180; (Parasitism), XVIII, b 263, a 264; (Philippine Islands), b 764; (Reproduction), XX, a 421, b 426, a 432; (Sex), XXI, a 757; (Siberia), XXII, a 13; (Smell), b 175; (Touch), XXIII, b 508; (Zoology), XXIV, a 853; cells (Histology)(Ill.),

Mollusca, *continued*
  XII, a 8, b 9, b 11; fossils (Geology), X, a 284; nerves of (Physiology), XIX, a 36; parasites of (Protozoa), b 878-9
Molluscum contagiosum (Skin Diseases), XXII, a 129
Mollusks and Shells (Gould), XI, a 5
Mollweide, Karl Brandau, mathematician (Trigonometry), XXIII, a 602
"Molly Maguires" (Pennsylvania), XVIII, a 515
Molly Mawk, bird (Fulmar), IX, a 717
Molnár, Albert, philologist (Hungary), XII, a 390, a b 391
——, Barbara, poetess (Hungary), XII, a 392
Molo, gulf of (Ithaca), XIII, a 527
—— of Rhodes, rhetorician (Cicero), V, *b* 673
MOLOCH or Molech, god, XVI, a 722-3; (Baal), III, b 152
—— Callithrix, ape. See Callithrix
—— horridus, lizard (Australia), III, b 97; (Lizard), XIV, a 743
Mologa, river (Yaroslavl), XXIV, a b 767; town, b 767, *a* 768
Molokai, island (Hawaiian Islands), XI, b 474, b 475
Molokany, sect (Russia), XXI, b 90
Molokova, spa (Transbaikalia), XXIII, b 542
Molon, king (Persia), XVIII, b 599, note
Molossi, tribe (Epirus), VIII, *a* b 429
Molossus, genus (Mammalia), XV, b 411, *a* 412, a b 418
Molossinæ, classification (Mammalia), XV, b 411, a 413, a b 418
Moltke, Helmuth Carl Bernhard, Count von, general (Troad), XXIII, b 618; (Turkey), a 692, b 693; (War), XXIV, b 378, a 380
MOLUCCAS or Moluccos, islands, XVI, a 723; (Acclimatization), I, b 85; (Birds), III, a b 642; (Distribution), VII, *a* 237; (Holland), XII, a 72; (Indian Archipelago), a 855, *b* 856, *b* 859
Molva, genus (Ichthyology), XII, a 717, a 730; (Ling), XIV, b 674-5
Molybdæna nitens, mineral (Scheele), XXI, a 405
Molybdates (Mineralogy), XVI, a 420
Molybdenite (Mineralogy) (Ill.), XVI, a 388, a 410; (Molybdenum), a 723
MOLYBDENUM, XVI, a b 723; (Mineralogy), b 404, a 410; (Chemistry), V, a b 469
—— test (Oils), XVII, a 770
Molybdite (Mineralogy), XVI, b 404
Molyn, Pieter de, painter (Everdingen), VIII, *a* 645
Molyneux, Lieutenant, explorer (Dead Sea), VII, a 5
——, Samuel, mathematician (Astronomy), II, a 661
——, William, scientist, (Ireland), XIII, a 275, a 276; (Locke), XIV, *b* 760, a 761; (Societies), XXII, b 233; (Telescope), XXIII, a b 146; (Vascular System), XXIV, b 104
Molyneux's secondary compensation (Watch), XXIV, a 417
Molysite (Mineralogy), XVI, a 400
MOMBASA or Mombas, town, XVI, b 723-4; (Africa), I, b 242; mission (Africa), a 221, a 222; (Zanzibar), XXIV, *a* 807
Moment in Magnetism, XV, b 228, a b 229, a 239, a 240-2, a 259; in Mechanics, b 690; of friction (Mechanics), b 775-6; of inertia (Mechanics), b 740; for geometrical figures (Mechanics), a b 741; of momentum (Mechanics), b 707, a 723, a 727
Momentum (Mechanics), XV, a 684, a 706; change of (Mechanics), a 706; conservation of (Mechanics), a 723, a 726-7, a b 728; equations (Hydromechanics), XII, b 462-3; of earth and moon (Tides), XXIII, a b 401; of orbital motion (Tides), b 400-1; rotational system (Tides), b 400-1
Momias, bay (Patagonia), XVIII, a 357
Momien, town (Burmah), IV, a 493, a 499
Momme in Weights and Measures, XXIV, a 518
Mommsen, Theodor, historian (Cæsar), IV, a b 567; (Catacombs), V, b 179, b 183, a b 185, b 186 note; (Claudius Crassus), b 713; (Inscriptions), XIII, b 130, *a* 131, a 132, note; (Israel), b 439, note; (Jordanes), a 759; (Jugurtha), a 777; (Justinian I.), b 804; (Roman Law), XX, a 688, b 696, b 700; (Rome), a b 751 notes, b 752 note, a b 753 notes, b 754 notes, a 756 notes, a 768 note, a b 775 notes, a b 779 notes, b 782 note, b 784 note, b 788 note, *b* 824, a 833 note, b 845 note, a 854; (Sulla), XXII, *b* 666; (Tiberius), XXIII, b 359; (Trajan), a 535, *b* 537; (Tribune), a 592, a 594; (Universities), a 901; (Varro), XXIV, a 101, a 102
Mommu, emperor (Japan), XIII, a 579
Momotidæ, family (Motmots), XVII, a b 9
Momotombo, mountain (Nicaragua), XVII, b 490
Mona, island (Anglesea), II, b 28; (Druidism), VII, b 412
Monacans, tribes (Indians), XII, b 867
Monacanthus, genus (File-Fish), IX, a 141; (Ichthyology) (Ill.), XII, a b 676, a 720, b 733
Monach island (Climate), VI, *b* 6
Monacha, bird (Puff-Bird), XX, b 106
MONACHISM, XVI, a 724-43
  Basilian rule, rise of, b 726
  Benedictine order, early growth of, a 732-3
  Benedict of Nursia, b 729-31
  bibliography, b 741
  Celtic movement, origin of, b 732-3
  chronological table, a 741-3
  cœnobites, rise of, a b 726
  decline of, b 737-8
  Dominican and Franciscan wealth and rivalry, a b 737
  early reactions, Chrysostom's age, a b 729
  Eastern Church, b 726-8
  Egyptian anchorites, b 725-6
  8th century, b 733-4
  11th century, b 734-6
  estimate of Benedictine rule, b 731-2
  France, decay of popularity in, a b 739
  French revolution, effects of, b 740-1
  Gregory the Great, age of, a b 733
  introduction into Italy, a b 728
  irregular eastern sects, a 727-8
  Jerome, age of, b 728-9
  later societies, b 738-9
  mendicant orders, a 736-7
  military orders, a b 735
  nature of, a b 724
  9th century, a 734
  originating causes, b 724-5
  Reformation, period of the, b 737-8
  Rule of Benedict of Nursia, a 730-2
  secularization of, b 738-9
  suppression of, a b 738, b 739-41
  10th century, "Age of Lead," a b 734
  United States, b 741. See Monasticism and titles of the different orders and rules

Monachus, genus (Mammalia), XV, b 450
MONACO, state (Map), XVI, a 743-4; (Menton), a 33
Monad (Morphology), XVI, a 870; elements (Chemistry), V, b 409, a 410
Monadidea, order (Protozoa), XIX, b 880-1
Monadleadh, mountains (Elgin), VIII, b 121
Monadnock, mountain (United States), XXIII, b 842
Monads of Bruno, IV, b 360
—— of Leibnitz (Atom), III, a 34; (Kant), XIII, a 858, a 859; (Leibnitz), XIV, *a b* 421, *a b* 422, *a b* 423; (Metaphysic), XVI, b 97, b 103
MONAGHAN, county, XVI, a 744-5; town, b 744, a 745
Monaldeschi, Giovanni, marquis (Christina), V, *a* 611
—— of Orvieto, chronicle of (Italy), XIII, b 506 note, a 507
Monaldi, Bonfiglio, monk (Servites), XXI, b 724, note
Mona Lisa, painting (Leonardo), XIV, a b 460
"Monarch," ship (Navy), XVII, b 293, a 294, 296
Monarchia, De (Dante), VI, a 717; (Italy), XIII, a 513
MONARCHIANISM, theological view, XVI, a b 745; (Jesus Christ), XIII, b 681
Monarchical sacrifices (Brahmanism), IV, b 185-6
Monarchy (Burmah), IV, b 493-4; (Charles XI., Sweden), V, a 364; (Denmark), VII, a 72, a 76; (Government), XI, a b 11, a b 12, b 13; (Hanseatic League), b 403; (Nobility), XVII, a 538, b 541, a b 542, a 544; (Phœnicia), XVIII, a 822; (Russia), XXI, b 99-100; (Treason), XXIII, b 559-60, a 562; authority of (United States), a *b* 784-5, a 786; constitutional (Belgium), III, b 445, a b 446; (Greece), XI, a 77; (Italy), XIII, b 473-4; (James I., Scotland), b 565; (Prussia), XX, a *b* 22; double (Siam), XXI, b 891, a 892; effects of (Peerage), XVIII, b 471-2; Greek tendency toward (Isocrates), XIII, a 401, b 402; Jewish (Israel), b 407, b 413, a 414, a 416, a 419; (Messiah), XVI, b 58-9; (Priest), XIX, b 747, a 748; Saxon (Parliament), XVIII, a b 308. See Absolutism, Emperor, King
Monarda, plants (Horticulture), XII, a 259
Monas, forms (Protozoa), XIX, b 860; (Schizomycetes) (Ill.), XXI, a 416, b 418
Monasteries, famous (Alexander Nevski), I, a b 435; (Athos), III, a b 14; (Berdicheff), a 505; (Bernard), b 519, a b 520; (Bristol), IV, a b 317; (Buddhism), b 389-90; (Burgos), a 478; (Bury St. Edmunds), a 511; (Celtic Literature), V, a b 264; (Cettinje), a 311; (Clergy), a 723; (Cloister), VI, b 35-6; (Drogheda), VII, *b* 406; (Dugdale), *a* 416; (Ecuador), b 562; (Education), b 582-3; (English Literature), VIII, b 360, a 362; (Essex), b 489; (Etchmiadzin), *a* 500; (Fessler, I. A.), IX, b 99; (Fife), a 134; (Gilbert, St.), X, a b 529; (Granada, City), XI, a 41; (Guido), a 228, a 229; (Hamburg), a 363; (Hampshire), a 386; (Heilsbronn), b 557; (Helmstädt), b 569-70; (Hertford), a 690; (Hirsham), XII, a 3; (Hospital), b 314, a 315; (Holy Islands), b 108; (Hugh, St.), b 350; (Hymns), b 618; (Interlaken), XIII, b 195; (Iona), *b* 209-10; (Ipek), a 217; (Jarrow-on-Tyne), a 604; (Jassy), *a* 607; (Jean D'Angèly), b 623; (Kempis), XIV, b 33; (Kent), b 41; (Kerry), b 54; (Kieff), a *b* 72; (Kildare), a b 75; (Kilkenny), a b 77; (Kirkcudbright),

Monasteries, *continued*
a 102; (Lāmāism), *b* 229, b 230; (Lapland), a 308; (Lebanon), a 395; (Leicester), a 425; (Lhasa), b 497, a b 499, a b 500; (Lincoln), b 662, a 663; (Lismore), *b* 700; (Louth), XV, b 27; (Mayo), b 657; (Merida), XVI, b 41; (Meteora), a b 119; (Michelozzi), a 246; (Monachism), a 728; (Monreale), a b 785; (Monte Cassino), b 804; (Montserrat), a 824; (Moscow), b 886, b 887; Nalanda (Hwen T'Sang), XII, b 434-5; (Newcastle), XVII, b 388; (Nijni Novgorod), a 515; (Nikolaievsk), a 517; (Noirmoutier), b 545; (Normandy), a 557; (Nottingham), a 614; (Novomoskovsk), a 624; (Numismatics), b 672, a 675; (Olivetans), b 785; (Oxford), XVIII, a 98; (Oxus), b 104; (Patmos), a b 418; (Pavia), b 449; (Perth), b 680; (Prishtina), XIX, a b 766; (Rio de Janeiro), XX, b 577; (Russia), XXI, a 78; (St. Andrews), b 166; (St. Brieuc), b 167; St. Geneviève (Universities), XXIII, a b 890; (St. Germain-en-Laye), XXI, b 178; (St. Maur-sur-Loire), b 196; (Savonarola), b 349, a b 350, a 351, *a b* 352, b 353; (Serghievskiy), *a* b 708; (Somerset), XXII, a 273; (Subiaco), b 648-9; (Suffolk), a 655; Sulmona (Celestines), V, *b* 253; (Trebizond), XXIII, b 567; Tre Fontaine (Rome), XX, b 859; (Villefranche de Rouergue), XXIV, b 246; (Youghal), *a* 793; (Whitby), a 580; (Wilfrid), *b* 597
——, reformation of (Buddhism), IV, a 58; (Grosseteste), XI, b 187; (Monachism), XVI, b 733, b 734, a 738, a 740
——, sins of (Ethics), VIII, a 522
——, suppression of (China), V, a b 561; (Cromwell, Thomas), VI, b 535, a 536; (England), VIII, b 291, a b 301; (England, Church of), b 336; (Henry VIII.), XI, b 592; (Ireland), XIII, a 269; (Italy), b 469-70; (Monachism), XVI, a 738; (Universities), XXIII, a b 90
Monastery, novel (Scott), XXI, b 575
Monastery, officers of (Monachism), XVI, a 727 note, a b 730
Monasticæ Institutiones (Hugh of St. Victor), XII, a 351
Monastic Cathedrals, V, b 199
—— Costumes, VI, b 419; (Ireland) XIII, b 263
—— Drama, VII, a 357
Monastic History (Syriac Literature), XXII, a 892
Monastic learning, mediæval (Germany), X, a 468; (Libraries), XIV, a b 512-3, a 518, a b 527; orders, English (Roman Catholic Church), XX, a 648; history of (Helyot), XI, b 574
—— rules (Monachism), XVI, a 726, a 728, a 730, b 731, a 735, b 736, a 739
—— schools (Universities), XXIII, *b* 887, *a* 888, *b* 893, a b 896
—— Vow, XXIV, a 322
Monasticism. See MONACHISM; (Abbey), I, a 17, a 18, b 20; (Anthony, St.), II, a 94; (Augustine), III, a 67; (Benedict, St.), a b 481; (Breviary), IV, *a* b 235; (Bridges), *b* 297, *a* 298; (Cassianus), V, b 160, a 161; (Fosbrooke), IX, a 415; (Greek Church), XI, a 142; (Ireland), XIII, a b 254, a b 255, b 268, a 269; (Jerome, St.), *b* 641; (Kempis), XIV, b 34-5; (Manichæism), XV, a 492; (Pelagius), XVIII, a 482; (Scotland), XXI, a 497, b 499, a b 503, b 504, b 505, a 506, b 507, b 514; (Theodoret), XXIII, b 275; Abyssinian, I, b 64; (Falashas), IX, b 3; chronicles (Dunstable), VII, b 471; Egypt (Serapis), XXI, a 707; introduction of (England), VIII, b 253-4; Persian (Syriac Literature), XXII, *b* 878; suppression of (Universities), XXIII, a b 90; Syrian, XXII, b 881, a 885, a 886, b 899. See Abbey, Abbot, Asceticism, Anchorites, Hermits
MONASTIR, city, XVI, b 745; (Albania), I, b 395, a 396, a 397; plain of (Macedonia), XV, b 137
——, town (Tunis), XXIII, b 660
Monatomic Molecules, XVI, a 633 *seq.*
Monavallagh, mountains (Waterford), XXIV, a 422
Monaxona, order (Sponges), XXII, a 437, *a* 438, b 439, b 442, a 443, b 444
Monaxonia, organic forms (Morphology), XVI, b 870
Monaxonida, tribe (Sponges), XXII, a 437, a *b* 438, b 439, *b* 444
Monaxon spicules (Sponges) (Ill.), XXII, a b 432
Monazite (Mineralogy) (Ill.), XVI, b 420
MONBODDO, James Burnett, lord, XVI, b 745; (Evolution), VIII, b 665
Monbuttu range (Soudan), XXII, b 290, a 291
——, tribe (Cannibalism), IV, b 713-4; (Negro), XVII, a 327 note
Moncada, Francisco de, historian (Spain), XXII, b 373
Moncayo, Sierra de (Zaragoza), XXIV, a 808
Monceaux les Mines (Coal), VI, a 62
MONCHEN-GLADBACH, X, b 562
Monchrétien, Antoine de, dramatist (France), IX, b 573
Mönchsberg, hill (Salzburg), XXI, *a* 252
Monckhoven's process, Dr. Van (Photography), XVIII, a 842
Moncrief, David (Hume), XII, b 364 note
Moncrieff, Alexander, divine (United Presbyterian Church), XXIII, b 775-6
——, Sir James Wellwood, Lord, judge (Marriage), XV, b 574
—— gun (Arms), II, a 489; carriage for (Gunnery) (Plate V), XI, a b 278; (Fortification), IX, b 398
—— -engine (Tramway), XXIII, b 540
MONCTON, town, XVI, b 745-6; (New Brunswick), XVII, *b* 383, b 384
Mond process for sulphur (Sodium), XXII, *a* b 257
Monde, Le (Newspapers), XVII, b 437, a b 438
Mondego, river (Brazil), IV, a 200
Mondeville, Henri de, physician (Surgery), XXII, a 710
Mondhir, Arabian prince (Persia), XVIII, a 621, b 622
——, caliph (Spain), XXII, b 327
Mondino of Bologna (Anatomy), I, 706-7, b 710
MONDONEDO, city, XVI, a 746
Mondorf, mineral springs (Luxemburg), XV, b 88
MONDOVI, city, XVI, b 746
Mondragon, town (Guipuzcoa), XI, a 235
Monegar Choultry, poor law (Famine), IX, b 25; (India), XII, b 806
Monembasia, city (Epidaurus Limera), VIII, b 423; (Greece), XI, b 106. See MALVASIA
Monenn, Saint (Ninian), XVII, b 526
Monera, division (Anatomy), I, *a* 740; (Animal Kingdom), II, b 45; (Foraminifera), IX, a 325; (Protozoa), XIX, b 859, *a* 860
Monetary league, Latin, 1865 (Italy), XIII, a 477; 1878 (Money), XVI, b 762
MONEY, XVI, a 746-65
    American and Asiatic coins, table, 759
    bibliography, b 764-5
    bimetallism, b 762-3
    British and Irish depreciations, a b 753
    charges on coinage, b 751-2
    classical depreciations, b 752-3
    coinage, b 750-2
    currency, early forms, b 748-9
    definitions and functions, a 746-7
    depreciations, a 752-4
    European coins, table, 758
    French depreciations, b 753-4
    gold and silver, consumption of, a 756
    metallic, a 749-50
    mining, effect of, b 747-8
    miscellaneous questions, a 756
    production of precious metals, a 754-6
    quantity required, a b 748
    standards, conflict of, b 761-4

MONEY, *continued*
    supply and demand, a b 747
    systems, international, a 760-1
        national, *a* 757-60
    unit of values, b 756-7
    value of, a 747-8, b 755-6
——
—— (Abbreviation), I, b 33; (Commerce), VI, b 176; (Cowry), b 474-5; (Free Trade), IX, a 662; (Lydia), XV, b 101; (New Hebrides), XVII, b 405, note; (Salt), XXI, a b 246
—— of account (Canton), V, b 34; (Money), XVI, b 756; (Numismatics), XVII, a 673
——, Aristotle's view of (Political Economy), XIX, b 363; Aztec (Mexico), XVI, b 221; Burmese, IV, b 495; Cathay (China), V, *a* 546; commutations of (Penance), XVIII, a 497, b 498; depreciation of (Solon), XXII, b 267; differentiation of (Political Economy), XIX, a b 367; discussion of (Turgot), XXIII a 670; first standards of (Plate), XIX, b 189; fish-hook (Maldive Islands), XV, a 334; Hume on volume of (Political Economy), XIX, b 377; mediæval (Ireland), XIII, b 261-2
—— -orders (England), VIII, a b 217, b 218; (Post-Office), XIX, b 587-8, b 593 note, a 596; French (Post-Office), b 596, a b 597, a 598; Italian (Post-Office), b 600
——, politico-economical view of (North, Sir D.), XVII, a 568
——, Roman (Æs), I, b 187; 16th century, writers on (Political Economy), XIX, a b 369; Smith on (Political Economy), b 380-1; standard (Spain), XXII, b 319. See Bill of Exchange, Coin, Coinage, Currency, MINT, Specie
Money and Circulation, Theory of (Hufeland), XII, a 350
—— *and Trade Considered* (Law, John), XIV, a 367, a 369
—— *Makes the Man* (Don Juan), VII, b 309
Money, E., colonel (Tea), XXIII, b 106, a 107, a 110
Moneyers, coiners (Mint), XVI, a b 503; (Numismatics), XVII, b 675
Monferrat, region (Italy), XIII, b 444
MONFERRATO, Marquisate, XVI, a 765. See Montferrat
Monfia or Mafia, island (Zanzibar), XXIV, *a* b 806
MONGE, Gaspard, mathematician, XVI, a 765; (Arago), II, b 263, b 264; (Building), IV, b 447; (Capillary Action), V, a 51; (Chemistry), a 402; (Geometry), X, a 334; (Hachette, J. N. P.), XI, *b* 321; (Projection), XIX, a 820, b 821, a 829
MONGHYR or Mungir, district, XVI, a b 766; town, b 766

Mongol Dictionaries, VII, a 167
Mongolia, country (Asia), II, *a* 600; (China), V, b 547, *a* b 557; (Mongols), XVI, *a* 776; organic forms in (Asia), II, b 604; (Birds), III, b 655
Mongoloid races (Anthropology), II, b 100
MONGOLS, Moguls or Mughals, race, XVI, a 767–78
  Chakhars, b 770–1
  China emancipated, a 770, a b 772
  European invasion, b 767–8
  Galdan Khan, a b 772
  Golden Horde, a b 773
  Hulagu Khan, b 768–9
  Khalkhas, a b 771
  Koshods or Eleuths, a 771
  Krim Tatars, a b 775
  Kublai Khan to loss of China, a 769–70
  language, a 776–7
  literature, b 777–8
  Mangu Khan, b 768–9
  Ogdai Khan, a 767–8
  origin, a 767
  Russian and Chinese policies, b 772–3
  Toghon Timur Khan, b 769–1
  Toktamish Khan, a b 774
  Torgod Khans, a 771–2
  Uzbegs, b 775–6
  White Horde, b 773–4
—— (Afghânistân), I, a 211; (Asia), II, b 609, b 611, b 612; (China), V, b 561–3; (Georgia, Kingdom), X, b 388; (Germany), a 441; (Ghúr), b 509; (Greece), XI, b 107; (Japan), XIII, a 592; (Khorásán), XIV, a 69: (Kirghiz), a 96, a 97; (Kublai Khan), b 151–2; (Leignitz), a 573; (Mahrattas), XV, b 293, a 294; (Malwa), b 349; (Malays), XV, b 326; (Merv), XVI, a 49; (Mohammedanism), b 610–1; (Moscow), a 887; (Numismatics), XVII, a 679; (Religion), XX, b 375–6; (Russia), XXI, *a* 75, b 87, b 97, b 98–9, a b 100, a 102; (Sunnites and Shi'ites), XXII, a 698; (Siberia), b 13; (Tartars), XXIII, a 76; (Tibet), *b* 367; language of (Ural Altaic), XXIV, b 5, b 6, a 7. See Mughals
Mongol tables (Geography), X, a 159
Mongo-má-Lobá, mountain (Cameroons), IV, a 656
Mongo-mo-Ndemi, mountain (Cameroons), IV, a 656
Mongoose. See Mungoos
Mongrel. See HYBRIDISM
Monica, mother of St. Augustine, III, a 66, a 67
Monifieth, town (Forfar), IX, b 362, a 363
Moniligaster, genus (Worm), XXIV, b 715, a b 716, *a* 717, *a* 718
Monism (Stoics), XXII, a 592
Monistic doctrine (Lewes, G. H.), XIV, b 491; Evolution, VIII, b 659–60
Monita Secreta (Jesuits), XIII, b 660–1
Moniteur Belge (Newspapers), XVII, b 441
—— *Universel* (France), IX, a 540; (Newspapers), XVII, b 435, b 436, b 438; (Sainte Beuve), XXI, *b* 171, a 172, *a* 173
MONITION, ecclesiastical, XVI, a 778
Monitoridæ, family (Lizard) (Ill.), XIV, *b* 738, a 739, a b 740
Monitor-Merrimac fight (Tatnall), XXIII, b 923; (United States), b 825, note
Monitors, lizards (Reptiles), XX, b 472
——, marine batteries (Rodgers), XX, b 910
Monk, Ambrosio or The (Lewis, M. G.), XIV, a b 493
MONK, George, general, XVI, a 778–80; (Charles II., Eng.), V, a 354; (Milton, XVI, b 346, a 347; (Dundee, Town), VII, b 463; (Lambert), XIV, *a* 238; (Presbyterianism), XIX, a 703, b 709, b 711; (Scotland), XXI, b 536, a b 537; (Sharp), XXI, *a* 816
—— of Heilsbronn, poet (Heilsbronn), XI, b 557
——, James Henry, bishop (Bentley), III, a 499, *b* 500
Monkey, ape (America), I, b 598; (Anthropology), II, a 96, a 97, a 98; (Ape), b 132–6; (Brazil), IV, b 204; (Fur), IX, b 735, b 736; (Japan), XIII, a 585; (Mammalia), XV, a 359, b 365, a 366, a b 369, b 370, *a* *b* 451; (Toucan), XXIII, b 506. See APE
——, Zodiacal Sign, XXIV, b 831, a 832
Monkey Connoisseurs (Decamps, A. G.), VII, b 17
Monkey-flower (Horticulture), XII, a 259
—— nut (Ground Nut), XI, b 196
Monk-fish (Ichthyology), XII, a 717, a 724; (Shark), XXI, b 812
Monkland canal (Scotland), XXI, b 553
Monk Lewis. See LEWIS, M. G.
Monks (Abbot), I, a 28; (Acœmetae), b 92; (Clergy), V, b 722; (Hieronymites), XI, a 723; (London), XIV, b 854, a b 855, a b 856; (Monachism), XVI, b 725; exemption from episcopal authority of (Carthusians), V, b 143–4; impressment of (Rutilius), XXI, b 121; of Tibet (Lhasa), XIV, b 499, a 500, a 501
Monk's balsam (Benzoin), III, b 501
"Monks," blemishes (Typography), XXIII, a 751
Monkshood (Aconite), I, b 92
"Monk's rhubarb," plant (Dock), VII, b 269
Monk's Tale, Chaucer's (Gherardesco), X, a 506
Monktar Pasha (War), XXIV, b 371, a 383
Monkwearmouth, town (Sunderland), XXII, *b* 691, *a* 692
Monlam, jubilee (Lhasa), XIV, a 501
Monluc, writer and officer (France), IX, b 575
MONMOUTH, city, XVI, b 781; county (England) VIII (Plate), a 780–1
——, town of Illinois, XVI, b 781
——, battle of, 1778 (Ramsay), XX, b 891; (United States), XXIII, a 792
——, Henry Cary, earl of (Boccalini), III, a 736
MONMOUTH, James, duke of, XVI, b 781–4; (Charles II.), V, *b* 354; (Bunyan), IV, b 473; (Penn), XVIII, b 506; (Scotland), XXI, b 538; (Tenison), XXIII, b 191; (William III.), XXIV, a 611
Monnier, Marie Therèse de (Mirabeau), XVI, b 516, a 517
Mono, lake (California), IV, b 618, a 619
Monobasic acids (Chemistry), V, b 421, a b 422
Monoblepharis, plant (Reproduction), XX, b 438
Monocelis, parasite (Trematoda), XXIII, a 575
Monochlamydeous flower (Botany) (Ill.), IV, a 114, b 116; (Vegetable Kingdom), XXIV, a 143
Monochord, musical instrument (Pianoforte), XIX, *a* b 73, a b 74; (Violin), XXIV, b 260, a 261
Monoclinal folds (Geology), X, a 203, a 207–9, a 266
Monocotyledons, group (Botany) (Ill.), IV, a b 82, b 84, a b 88, a 92–4, b 96, b 98, a 107; (Vegetable Kingdom), XXIV, a b 143; embryo in (Botany), IV, a *b* 141, *b* 142–3; flowers in (Botany), a 114, b 115, a b 116, b 118, *b* 125, a 132; leaf in (Botany), a 102, b 103, a 106
Monocotylidæ, family (Trematoda), XXIII, a 573
Monocystis, genus (Protozoa) (Ill.), XIX, a b 877, *a* b 879
Monod, Adolphe, theologian (Inspiration), XIII, b 163
Monodelphia, sub-class (Mammalia), XV, a b 374
Monodon, genus (Mammalia), XV, b 401–2
Monœcious flowers (Botany), IV, a 122
Monogenea, division (Trematoda), XXIII, a 573
Monogène function (Variable), XXIV, b 78, a 79
Monogenesis (Anthropology), II, a b 101
Monografie agricole (Italy), XIII, b 462
Monograms (Diplomatics), VII, a b 221
Monograph of the Insectivora (Mammalia), XV, b 404, b 406, b 409
Monoliths (Archæology), II, *a* 296; (Architecture), b 335; (Cornwall), VI, b 378; (Harbors and Docks) (Plate VIII), XI, a 415; (Rude Stone Monuments), XXI, b 56; (York), XXIV, a 786
Monologen (Schleiermacher), XXI, *a* 428
Monologion (Anselm), II, b 81, *b* 82, a 83
Monomania (Insanity), XIII, b 109, a 110
Monomya, order (Mollusca), XVI, a 711
Monongahela river (West Virginia), XXIV, a b 546
Monopeltis, genus (Reptiles) (Ill.), XX, b 463
Monophyodonts (Mammalia), XV, a 354, a 355
Monophysite literature (Syriac Literature), XXII, a b 865, *b* 870, b 873, b 879, b 881–4, a b 899
Monophysites, sect (Arabian Philosophy), II, *b* 233; (Egypt), VII, *a* 649; (Eutyches), VIII, b 635; (Greek Church), XI, *b* 138; (Heresy), b 658; (Jacobite Church), XIII, b 548; (Jesus Christ), a 682; (Justinian), *a* 805, a 806; (Monothelites), XVI, b 784; (Persia), XVIII, a 622 note, a 623, a 625 note; (Syriac Literature), XXII, b 871–3, a b 874, a 875, b 876
Monopnoa, sub-class (Reptiles), XX, a b 450
Monopodium, branching (Botany), IV, a 83
MONOPOLI, city, XVI, a 784
MONOPOLY, XVI, a 784; (Apprentice), II, a b 186; (Bible Societies), III, a 563; (Finance), IX, b 156; (Madura), XV, b 194; (Matches), a b 633; (Philippines), XVIII, b 764, a 765; (Prerogative), XIX, a 692; (Theatre), XXIII, a 246; (Tobacco), a 455; (Value), XXIV, b 54
Monopylæa, order (Protozoa) (Ill.), XIX, b 873
Monosporea, order (Protozoa), XIX, b 878
Monostoma, genus (Trematoda), XXIII, *a* 569, b 573
Monostomidæ, family (Trematoda), XXIII, b 573
Monostomina, family (Protozoa) (Ill.), XIX, b 868
Monosyllabic language (Philology), XVIII, b 792
Monotheism (Brahmanism), IV, a 183, b 188; (Egypt), VII, a b 619; (Israel), XIII, a 410, b 421, a 430; (Mohammedanism), XVI, a 572–3, b 621; (Pessimism), XVIII, b 699; (Philo), b 774, a 775; (Roy), XXI, b 40–1; (Theism), XXIII, a b 253, b 254, a b 255, note, a b 257; origin of (Animism), II, a 51; and trade (Palmyra), XVIII, b 203
MONOTHELITES, sect, XVI, b 784; (Maronites), XV, a 569, note; (Martin I.), a 589; (Maximus, St.), b 652–3; (Rome), XX, *b* 801
Monotida, genus (Planarians), XIX, *b* 183, a 185
Monotremata, order (Australia), III, a 97; (Echidna), VII, b 543–4; anatomy of (Mammalia), XV, a 351, a 357, b 361, a 363; brain of (Physiology), XIX, *a* b 38; circulation of (Mammalia), XV, b 366, *a* b 367; classification (Mammalia), a b 373, a 374, b 379–80; fossil (Mammalia), b 379; hearing of (Mammalia), b 370; nervous system of (Mam-

Monotremata, *continued*
malia), a 369, *a* 371; reproductive organs of (Mammalia), b 370, *a* 371, a 372; urinary organs of (Mammalia), *a* 369
Monotrocha, division (Hymenoptera), XII, a 607, a 610
Monotropeæ, plants (Parasitism), XVIII, a 269
Monoux, Sir George, mayor (Walthamstow), XXIV, *a* 361
Monoxides (Chemistry), V, a 413, a b 420
Monrad, Marcus J., philosopher (Norway), XVII, b 606
Monradite (Mineralogy), XVI, a 432
MONREALE, town (Ill.), XVI, a 785; (Cloister), VI, a 36
Monro, David Binning, classicist (Greece), XI, a 120. See List of Contributors
MONROE, Michigan, city, XVI, a 788
——, Alexander, of Edinburgh, physician (Surgery), XXII, a 711
MONROE, James, president, XVI, a 787–8; (United States), XXIII, b 809, *b* 810, b 837; (Whig), XXIV, *a* b 894
"Monroe doctrine," XVI, a 788; (International Law), XIII, b 198; (United States), XXIII, b 810
Monrolite (Mineralogy), XVI, a 426
Monrovia, town (Liberia), XIV, b 507
MONS, town, XVI, a 788; siege of 1572 (Holland), XII, a *b* 78; of 1678 (William III.), XXIV, b 610
—— basin (Coal), VI, a 53
Monscia, city. See MONZA
Monsen, Christian, poet (Norway), XVII, a 605
Monsieur, title (Prince), XIX, b 757
Monsieur Nicolas (Restif), XX, *a* 501
Mons Meg, gun (Edinburgh), VII, a 575; (Kirkcudbright), XIV, a 101
Monson, Colonel (Hastings), XI, a b 459
——, Sir Thomas, falconer (Kite), XIV, b 105 note
Monsoon, wind (Africa), I, a b 230; (Asia), II, a 603; (Ceylon), V, b 313; (India), XII, b 772, a b 776, *a* 777, a 778, a 806; (Indian Ocean), a *b* 861; (Japan), XIII, a 583; (Meteorology), XVI, b 137–8, b 143, b 153–4, b 155–6; (New Guinea), XVII, *b* 396; (Pacific Ocean), XVIII, a 121; (Yemen), XXIV, b 776
Mons Regalis, imprint (Mondovi), XVI, b 746
—— Sacer, plebeian retreat to (Rome), XX, b 755
MONSTER, deformity, XVI, b 788–93
  CHARACTER OF THE INQUIRY, b 788–9
  double bodied types, b 791–2
    embryological origin, b 791–2
MONSTER, *continued*
  CHARACTER OF THE INQUIRY
    symmetrical, a b 792
    unequal, fœtus in fœtu, b 792
  scientific treatises on, b 792–3
  SINGLE BODIED, a 789–91
    cyclops, siren, etc., b 790–1
    hermaphroditism, b 790
    limbs, a 791
    internal malformation, a b 791
    median line closure, b 789–90
    redundancy or defect, a b 789
    stature, a 789
MONSTRELET, Enguerrand de, chronicler, XVI, a 793; (Retz, Gilles de), XX, a b 270
Montagna, Bartolomeo, painter (Schools of Painting), XXI, a 454, b 462
Montagnais, race (Indians), XII, a 865, b 867, a 871
Montagnards, party. See Mountain
Montagu, Charles. See HALIFAX, Earl of
——, Edward. See SANDWICH, Earl of
——, George, naturalist (Ruff), XXI, a *b* 60, note; his dictionary (Ornithology), XVIII, b 19, a 22
MONTAGU, Lady Mary Wortley, letter-writer, XVI, b 793; (Dwarf), VII, a 490; (Fielding, H.), IX, b 125, a 128, a 129; (Hervey), XI, b 692
——, Richard, bishop (Charles I. of England), V, *a* b 351
Montague, Elizabeth, author (More, Hannah), XVI, b 840
——, George, archbishop (Warwick), XXIV, *b* 402
——, Henry Pole, lord (York), XXIV, *b* 790. See SANDWICH, Earl of
—— House (London), XIV, b 846, a 861; (Rousseau), XXI, b 28, note
Montagu's Harrier, XI, a 440
MONTAIGNE, Michel Eyquem de, essayist, XVI, b 793–8
  Bordeaux life, a b 795
  early life, a b 794
  Essays, first two books, b 794 5
    third book, b 795–7
  family, b 793–4
  Gournay period, b 797–8
  journeys, a 795
  literature of subject, b 797–8
  retires to Montaigne, b 794
—— (Charron), V, a *b* 373; (Duel), VII, b 442, a 443; (Education), a b 585; (France), IX, a 576, b 581; (Hallam), XI, b 352; (Pascal), XVIII, b 342; (Raymond), XX, b 314; (Salutations), XXI, b 249; (Scepticism), b 399; (Shakespeare), b 793; (Terence), XXIII, a 205; (Torture), b 490
Montalban, Paul Perez de, author (Vega Carpio), XXIV, b 132, *a* 133, b 134
MONTALEMBERT, Charles Forbes de, historian, XVI, a 798; (Breviary), IV, b 235; (Newspapers), XVII, *b* 437;
——, René, diplomat, XVI, a 798
Montalembert's system (Fortification), IX, b 390, a 391, a b 411
Montalet, peak (Tarn), XXIII, a 71
Montalus, translator (Amadis of Gaul), I, *a* 572
MONTALVAN, Juan Perez de, dramatist, XVI, b 798; (Drama), VII, b 364
Montalvo, Garciordoñez de, writer (France), IX, a 575; (Romance), XX, b 670, *b* 671; (Spain), XXII, a 369
MONTANA (Plate), XVI, b 798–800; (Mining), a 492; statistics (United States), XXIII, *b* 853, a 856, *b* 861, b 864, a 867, *b* 868, b 869, a b 870, a 873, b 876; topography (United States), b 847
Montaña, region (Peru), XVIII, a 683, b 686–7, a 690
—— Dota, mountains (Costa Rica), VI, b 397, b 398
Montañes, sculptor (Sculpture), XXI, a 594; (Velazquez), XXIV, a 146
MONTANISM, sect, XVI, b 800–3
  bibliographical, a 803
  controversies in Asia Minor, a b 802
  early fanaticism, a b 801
  later history, a b 803
  origin of, b 801–2
  relation to the church, b 802
  secularization of church, rise of, b 800–1
  separation from church, a 803
—— (Christianity), V, a 604, b 608–9; (Inspiration), XIII, a b 162; (Justinian), a 806; (Millennium), XVI, b 328; (Tertullian), XXIII, *b* 214, b 215; *History of* (Schwegler), XXI, b 483
Montanite (Mineralogy), XVI, b 419
Montanus, sectary, XVI, b 801–3; (Phrygia), XVIII, b 867
—— or Giovanni de Monte, physician (Medicine), XV, b 817, a 819
Montaperti, battle of, 1260 (Italy), XIII, a 486
MONTARGIS, town, XVI, b 803
Montasir billáh, caliph (Mohammedanism), XVI, b 607, a 608
Montataire, town (Oise), XVII, a 771
MONTAUBAN, town, XVI, a 804
Montaut, mountain (France), IX, b 445
Monthazon, Rohan, Madame de (Trappists), XXIII, b 556
Montbeillard, Philibert Guénau de, naturalist (Ornithology), XVIII, a 19
MONTBÉLIARD, town, XVI, a 804
Mont Blanc. See Blanc
Montbrison, arrondissement (Loire, Department), XIV, *b* 816
Montcalm, Louis Joseph, marquis (Oswego), XVIII, a 68; (United States), XXIII, a 783; (Wolfe), XXIV, a b 664
Montcorbier, François de (Villon), XXIV, b 249, a 250
Mont-de-Marsan, town (Landes), XIV, a 273
Mont de Piété, pawn establishment (Paris), XVIII, a 289
MONT-DORE-LES-BAINS, village, XVI, b 804
Monte, Guidubaldo, marchese del (Galileo), X, *a* 29, b 30
Monteagle, William Parker, lord (Fawkes), IX, a 52
Montebello, duc de. See LANNES
Montebrasite (Mineralogy), XVI, a 425
Monte Camaldoli (Italy), XIII, b 452
—— Carlo, casino (Monaco), XVI, a 743, a 744
—— Cavallo (Alps), I, a b 555
—— Cavo (Italy), XIII, a 448, a 452
MONTE CASSINO, monastery, XVI, b 804; (Monachism), a 730, a 742; (Abbey), I, a 18; (Abbot), a 28; (Benedict), III, *b* 481; (Boccaccio), a 734; (Celestines), V, b 253; (Libraries), XIV, b 512, b 530; (Paulus Diaconus), XVIII, a 447; (Universities), XXIII, *a* 888
Monte Catria (Italy), XIII, a 447
Monte Christo, novel (Dumas, A.), VII, b 450
Monte Corno (Abruzzo), I, a 57; (Italy), XIII, a 447
Monte Corvino, Friar John (Cambuluc), IV, b 639; (China), V, *a* b 546; (Mongols), XVI, a 769
MONTECUCULI, Raimondo, count of, prince, XVI, b 804; (Turenne), XXIII, a b 667; (Turkey), b 686
Montefalco, monastery of St. Francis (Gozzoli), XI, a 23
Monte Falterona (Italy), XIII, a 447, a 448
Montefeltro, Frederick of, duke of Urbino (Ghent), X, a b 505; (Urbino), XXIV, *a* b 14
——, Guidubaldo, duke (Urbino), XXIV, *a b* 14
Montefiore, Sir Moses, philanthropist (Jews), XIII, a 694, a 695, b 697
Monteith, James, spinner (Cotton), VI, b 445
Monte Junto (Portugal), XIX, a 551
MONTELEONE, town, XVI, a 805
MONTÉLIMAR, town, XVI, b 805

Montelius, O., antiquary (Scandinavian Languages), XXI, a b 382 notes
Montem, festival (Eton), VIII, a 557
Montemayor, Jorge de, poet (Pastoral), XVIII, a 351
Montenegrin church (Greek Church), XI, a 141, a 142
MONTENEGRO, country (Map), XVI, b 805–8; (Cephalonia), V, b 298; (Herzegovina), XI, b 692; (Servia), XXI, b 724; (Turkey), XXIII, a b 693, a 694
Montereau, Pierre de, architect (Paris), XVIII, b 294, note
Montereau-faut-Yonne, town (Seine-et-Marne), XXI, *a* 656
MONTEREY, city, Mexico, XVI, a 808; surrender of, 1846 (Taylor), XXIII, a b 928
MONTEREY, city, United States, XVI, a 808; (California), IV, a 616
Monterey-Pine, XIX, a 114
Monte Nuovo (Geology), X, a 217, b 218, b 224; (Italy), XIII, b 452
Montepulciano Wines, XXIV, *b* 642
Montes, plantations and thickets (Uruguay), XXIV, b 19
MONTE SAN GUILIANO, city, XVI, a 808
MONTE SANT' ANGELO, city, XVI, a 808; (Italy), XIII, b 448
Monte Santo di Dio, Bettini's (Libraries), XIV, b 529
Montes de Piedad (Barcelona), III, a 317
Montesono, Joannes de, monk (Immaculate Conception), XII, a 754
Montespan, François Athénaïs de Rochechouart, Madame de (France), IX, *b* 509; (Maintenon), XV, a b 307
MONTESQUIEU, Charles Louis de Secondat, baron de, historian, XVI, b 808–11
  critical review, a b 811
  Esprit des Lois, b 810
  La Brède, at, b 809–11
  Lettres Persanes, b 808–9
  Paris relations, a b 809, a 810
  Romains, b 809–10
  youth and home of, b 808
—— (Agrarian Laws), I, a 257; (Duel), VII, *b* 441; (France), IX, b 521, a 522, a 587; (History), XII, a 25; (Political Economy), XIX, b 372, a *b* 379, a 385; (Torture), XXIII, b 490; (Treason), a 559; (Zachariae), XXIV, b 800, a 801
MONTEVERDE, Claudio, composer, XVI, a 812; (Music), XVII, b 92, *a* 94, a 96, a 108
MONTEVIDEO, city (Map), XVI, a 812; (Brazil), IV, b 208; (Newspapers), XVII, a 449; (Uruguay), XXIV, a *b* 19, a *b* 20, *a* 21; department, a 20
Montezuma, king (Cortes), VI, *a* 391; (Fool), IX, b 320; (Mexico), XVI, b 217–8; myth of (Pueblo Indians), XX, b 889
MONTFAUCON, Bernard de, critic, XVI, a 813; (Archæology), II, a 301; (Palæography), XVIII, a 168, b 169; (Papyrus), b 237
MONTFERRAT, principality, XVI, a 765; (Gonzaga), X, *a* 687; (Palæologus), XVIII, a 170; (Wines), XXIV, b 642
MONTFORT, Simon de, earl of Leicester, XVI, b 813; (Dominic), VII, b 306–7; (Edward I.), VII, *a* 592; (England), VIII, b 279–80, a 283, a 284, a 285; (Finance), IX, b 154, b 155; (Henry III., England), XI, *b* 587, *a* 588; (Parliament), XVIII, a 310; (Provence), XIX, b 903, a 904; (Worcester), XXIV, b 701; proclamation of (English Language), VIII, a b 354
——, Simon IV., the Elder, crusader (France), IX, a 478; (Montfort), XVI, b 813, note
Montgolfier brothers (Aëronautics), I, b 169, a b 170, a 171
MONTGOMERY, Welsh county, XVI, b 814–5; city, b 815
MONTGOMERY, Indian district, XVI, b 815–6
MONTGOMERY, Alabama, city, XVI, a 816; convention, 1861 (United States), XXIII, b 821
MONTGOMERY, Alexander, poet, XVI, a b 816; (Scotland), XXI, a 568
——, Archibald William. See EGLINTON
——, Arnulf de, baron (Pembroke), XVIII, a b 493
MONTGOMERY, James, poet, XVI, b 816–7; (Hymns), XII, b 629, a 630
——, Sir James, politician (Stair), XXII, b 462
MONTGOMERY, Richard, general, XXIII, a 839, note; (Montgomery), XVI, a 816; (Quebec), XX, a 176
MONTGOMERY, Robert, author, XVI, b 816, a 817
——, Roger, baron. See Shrewsbury
——, William, surgeon (Gutta Percha), XI, a b 302
Month, division of time (Astronomy), II, a 677; (Calendar), IV, a b 590, a b 591; anomalistic (Astronomy), II, a 700; lunar, b 699, a 700; nodical, a 700; sidereal, a 677, a 700; synodic, a 706
——, intercalary (Calendar), IV, *a* b 591, b 592; Hebrew (Calendar), a 602; Hindu (Chronology), V, a 624. See Months
——, maximum length of (Tides), XXIII, b 401, a b 404
Monthly Barometrical fluctuations, III, a b 27
—— reviews (Periodicals), XVIII, a 547, a 549
—— shilling magazines (Periodicals), XVIII, b 548, a 549
Montholon, Charles Tristan, comte de (Napoleon I. and III.), XVII, *a* 232, b 233
Mouths, Abyssinian names (Chronology), V, a 622; Armenian names of (Chronology), b 622; Egyptian, VII, b 631; Greek names of (Chronology), V, a 618; Hebrew (Calendar), IV, a 601; Hindu (Chronology), V, a 624; Macedonian names of (Chronology), a 621; Mahometan (Calendar), IV, b 603; Persian names of (Chronology), V, b 622; Syrian names of (Chronology), a 621
Monthuley, family (Lace), XIV, b 187
Monti, Raffaelle, sculptor (Sculpture), XXI, a 597 note
——, Vincenzo, poet (Italy), XIII, a b 524
Montiano y Luyando, Augustin de, dramatist (Drama), VII, b 365; (Spain), XXII, a 375
Monticellite (Mineralogy) (Ill.), XVI, b 427–8
Monticello, residence (Charlottesville), V, b 372; (Jefferson), XIII, a 625, a 626
Monticola, genus (Thrush), XXIII, a 343
Montiel, battle of, 1369 (Spain), XXII, a 335
Montierneuf, church of (Poitiers), XIX, a 294
Montifringilla, birds (Linnet), XIV, a 682
Monti Lepini (Italy), XIII, a 448; (Latium), XIV, a 344
MONTILLA, city, XVI, a 817; (Wine), XXIV, b 639
Montleheri, battle of, 1465 (France), IX, a 487
MONTLUC, Blaise de Lasseran-Massencôme, Seigneur de, marshal, XVI, a 817
——, Jean de, diplomatist, (Poland), XIX, b 303, a 304
MONTLUCON, city, XVI, b 817
Montmorenci, de, seal of (Heraldry), XI, a b 609
Montmorenci-Marli, Mathilde de Garlande, madame (Port Royal), XIX, a 548
Montmorency, river and falls (Quebec), XX, b 171; (St. Lawrence), XXI, a 191
MONTMORENCY, family, XVI, b 817
MONTMORENCY, Anne de, constable, XVI, b 817; (France), IX, *a* 491, b 492, *a* b 493, *a b* 494; (Henry II., France), XI, a b 597
——, Charlotte de (Condé, Princes), VI, b 217
MONTMORENCY, Henry II., Duc de, XVI, a 818
MONTMORENCY-Laval, house of, XVI, b 817
MONTMORENCY, Matthieu I., de, XVI, b 817
MONTMORENCY, Matthieu II., de, XVI, b 817
—— Boutteville. See Luxembourg, duc de
Montmorillonite (Mineralogy), XVI, b 442
Montmorin (Mirabeau), XVI, a 520
Montmorot, salt mines (Lons-Le-Saulnier), XIV, b 879
MONTORO, town, XVI, a 818
MONTPELIER, Vermont, town, XVI, a 818
MONTPELLIER, France, town, XVI, b 818; (Academy), I, b 69; (Hérault), XI, b 639; (Languedoc), XIV, b 287, b 288; (Libraries), b 547; College of Medicine at (Barthez), III, a b 347; (Medicine), XV, a b 816–7
——, village of Algiers (Blidah), III, a 717
MONTPENSIER, Anne Marie Louise d'Orleans, the Mademoiselle, Duchesse de, XVI, a 819; (Condé the Great), VI, *a* 220
——, Charles de, duc de Bourbon, IV, b 157–8. See BOURBON
Montrado, province (Borneo), IV, a 51, b 52, a 53
MONTREAL, city (Map), XVI, b 819–21; (Canada), IV, a 676, a 677; (St. Lawrence), XXI, *b* 190, a 191; (Universities), XXIII, b 912–3; province (Canada), IV, a 680–1, a 683
—— d'Abarno, adventurer (Condottieri), VI, a 227
Montreal Gazette (Newspapers), XVII, b 447
Montreuil, town (Seine), XXI, *b* 655
—— fan training (Horticulture) (Ill.), XII, b 283
Montreux, town (Vaud), XXIV, b 125
MONTROSE, town, XVI, b 821
MONTROSE, James Graham, marquis of, XVI, a 822–3; (Charles I.), V, a 352; (Charles II.), a 354; (Confession), VI, a 229; (Glasgow), X, a 570; (Scotland), XXI, a 534, *a b* 535, *a* 536
Monts, Pierre du Guast, Sieur de (Geography), X, a 166
MONT ST. MICHEL, islet, XVI, a 823; bay (Manche), XV, a b 466
MONTSERRAT, island, XVI, b 823; lime juice (Lemon), XIV, b 439–40
MONSERRAT, mountain, XVI, b 823–4; (Manresa), XV, b 504
——, geologist (Guatemala), XI, b 212, b 214
Montson, John, heresiarch (Gerson), X, a 491
Montsouris Observatory, XVII, a 732
Montt, Manuel, president (Chili), V, *b* 537
Montucci, Antonio, philologist (Lâo-tsze), XIV, a 296
MONTUCLA, Jean Etienne, mathematician, XVI, b 824; (Algebra), I, b 454
Monumenta Germaniæ Historica (Pertz), XVIII, b 682
Monumental Effigies, VII, a 602–3; (Colin), VI, b 127
Monumenti Antichi Inediti (Winckelmann), XXIV, b 629
Monuments, cuneiform (Isaiah), XIII, b 388, b 394; megalithic (Iberians), XII, b 640
MONUMENTS, RUDE STONE, XXI, b 56–9
Monuments des Arts (Denon), VII, b 83

Monumentum Adulitanum (Inscriptions), XIII, a 129; *Ancyranum* (Inscriptions), XIII, b 127, a 139; (Rome), XX, b 836, note, a 837 note, a b 841 notes, a 851 note, a 854
Mon-yul or Monhuil, province (Tibet), XXIII, a 362, b 367
MONZA, XVI, b 824–5
Mood in verbs (Grammar), XI, a 33, a 39; (Greece), a 114; Latin (Priscian), XIX, b 764, b 765
Moogree (Jasmine), XIII, b 605
Moola river (Baluchistan), III, b 260
—— Feroze Library (Libraries), XIV, a 533
Mooltan. See MULTAN
MOON, satellite, XVI, a 825–9
  Copernicus, a b 826
  Delaunay's method, b 827–8
  dynamical theory, a b 827
  gravitation theory, b 826–7
  Hansan's method, a 828
  long-period inequalities, a 829
  motions of, b 825 *sq.*
  numerical determinations, b 825–6
  orbit, b 825
  planets, action of, b 828–9
  problem of three bodies, a b 828
  state of the lunar theory, a b 825
  trigonometrical functions, a b 827
—— (Alchemy), I, b 407, a 410, a 413; (Earthquakes), VII, a 530; (Galileo), X, b 29, b 31; (Heraldry) (Ill.), XI, a 627; (Kant), XIII, *b* 356; (Meteorology), XVI, a 129, a 133; (Zodiac), XXIV, a 832–3; (Zodiacal Light), a b 836
——, acceleration of motion (Halley), XI, a 355; age of (Calendar), IV, a 597, a 598, a 599, *b* 601; culminations (Time), XXIII, b 421; degradation of energy (Tides), a 402; ecclesiastical (Easter), VII, a 532; genesis of the (Tides), XXIII, a 404, *a* 405, *a* b 406; influence on Tides of, a 376–7, a 378, b 379–80, a 385, a 387–9, a 390; libration of (Astronomy), II, a 700; (Lagrange), XIV, b 208; light of (Photometry), XVIII, a b 856; meridian altitudes of (Navigation), XVII, b 276; meridian transit of (Tides), XXIII, b 392–3, a 394; motion of (Astronomy), II, a 655, a 661; (Gravitation), XI, a 66, b 67–8; (Mechanics), XV, b 724; (Navigation), XVII, b 263, a 264, b 279–80; Tidal friction, acceleration of, XXIII, a b 402, a 405
——, orbit of, XVI, b 825; (Newton), XVII, b 453; elements of (Tides), XXIII, a 387–9, b 391–2; frictions and elements of, b 402, b 403, *a* b 404
——, photograph of (Telescopic Work), XXIII, a 933 See Lunar, Satellites
—— -Dial, VII, b 132, note
Moon-earth system unique (Tides), XXIII, a b 406
——, goddess (Artemis), II, b 562; (Helena), XI, a 562; (Hera), a b 606; (Hottentots), XII, a 325, note
——, Mountains of the (Nile), XVII, *b* 521; (Ptolemy), XX, a 101
Mooney, William, politician (Tammany Society), XXIII, a 920
Moonga silk. See Muga
Moon's Disk, On the Face on the (Plutarch), XIX, a 246
Moon's method of printing (Blind), III, b 718–9, b 720
Moonstone (Mineralogy), XVI, a b 437
Moon-wort (Ferns), IX, b 92
Moor, captain W., explorer (Polar Regions), XIX, a 330
Moor-buzzard (Harrier), XI, b 439
MOORCRAFT, William, traveller, XVI, b 829; (Veterinary Science), XXIV, a 215
MOORE, Edward, poet, XVI, b 829; (Drama), VII, b 378
——, John, bishop (Clarke), V, *b* 708, a 709
MOORE, Dr. John, novelist, XVI, a 830
MOORE, Sir John, general, XVI, a 830, b 831; (Anglesey), II, a b 29; (France), IX, b 542; (Frere, J. H.), a 675; (Napier), XVII, b 182; (Napier, Sir W. F. P.), a 193; (War), XXIV, a 369, b 376; (Wolfe), b 663
——, Sir Jonas, mathematician (Flamsteed), IX, *a* 253; (Navigation), XVII, b 263–4
MOORE, Thomas, poet, XVI, b 831–4
  encyclopædic and last days, a b 834
  enters fashionable London, a b 832
  Irish home life, a 832
  Jeffrey criticises, b 832–3
  Melodies, period of the, a 833
  Oriental poems, b 833–4
  Paris and biography work, a 834
  political squib writer, a b 833
  popularity of, b 831–2
—— (Byron), IV, a b 540, a *b* 541, b 543, a 544; (Ireland), XIII, a 259, note; (Philadelphia), XVIII, a 754; (Russell), XXI, a 70; (Sheridan), a *b* 833, b 834, note, a 835, a b 836, *a* 837
——, T. B., current meter of (Hydromechanics) (Ill.), XII, a b 535
Moore's drier (Wool), XXIV, b 691–2
Moorfields, district (London), XIV, a 855, a b 858, b 859
Moorfoot, hills (Edinburgh), VII, *b* 569
MOOR-HEN, XVI, b 834–5; (Grouse), XI, *a* 197, note
Mooring (Seamanship), XXI, a b 625
—— -Anchors (Ill.), II, b 9–10
—— -Buoys, IV, b 474
—— swivel (Seamanship), XXI, *b* 626–7
Moorish art in Ashantee, II, a 595; cities, health of (Fez), IX, b 111 note; influence in Spain (Architecture), II, b 378, b 379; power, extinction of (Spain), XXII, a 341; remains (Seville), XXI, b 742; ware (Pottery and Porcelain), XIX, a b 641, a 642, b 647
——, Granada (Spain), XXII, b 332, a 334
Moorish Rule in Spain (Condé) VI, a 221
Moorlands (Heath), XI, b 526–7; (Scotland), XXI, b 545, b 547; reclaiming (Agriculture), I, a 357–8
Moor park (Hertford), XI, a 690
Moors, people (Africa), I, b 234, a 240; (Agriculture), b 261; (Algeria), b 497, a 499; (Algeciras), a 496; (Alphonso, Kings), a 540–3; (Alpujarras), b 559; (Artillery), II, b 572; (Balearic Islands), III, b 240-1; (Cid), V, a b 676; (Cordova), VI, b 346; (Ferdinand I., Castile), IX, a 71; (Ferdinand II. and III.), a 71; (Ferdinand IV.), b 71; (Ferdinand V.), a 72; (Filigree), a 144; (Galle), X, *b* 37; (Gibraltar), a 523; (Granada), XI, b 41; (Inquisition), XIII, b 99, a 101; (Jimenes), *b* 704; (Malta), XV, *a* 345; (Spain), XXII, a b 325, *b* 329. (Tunis), XXIII, a 660; (Valencia), XXIV, *b* 40. See Berbers
——, Arabian (Camoens), IV, a b 660; expulsion of (Spain), XXII, a 313, b 314, b 316, b 331–2, b 344; of Portugal (John I.), XIII, b 725
Moorshedabad. See MURSHIDÁBÁD
Moorsom system of Tonnage, XXIII, b 470, a 472
Mooruk, bird (Cassowary), V, a 162
Moose (Deer), VII, a b 23; (Hunting), XII, a b 412
—— -river factory (Canada), IV, b 684
Mooseedorf lake (Lake Dwellings), XIV, b 221
Moosehead, lake (Maine), XV, *a* 300
Moosilauke or Moosehillock, mountain (United States), XXIII, b 812
Moots (Inns of Court), XIII, b 95; Saxon (Parliament), XVIII, a b 308
Moplans or Mapillas, race (Calicut), IV, *a* 615; (India), XII, b 784; (Laccadives), XIV, b 183–4; (Malabar), XV, a 315; (Maldive Islands), a b 333
Mopsea, genus (Corals), VI, a 342, a 343
Mopsuestia, town (Cilicia), V, b 679; (Theodore), XXIII, a 274
Moquettes (Carpets), V, b 113, b 114
Moqui, race (Indians), XII, a 865, b 866, a 867, b 873, a 874; (Pueblo Indians), XX, a 887, b 888, a *b* 889; (Totemism), XXIII, a 497, *b* 499
Mor or Moro, Antonij, painter (Schools of Painting), XXI, b 458, b 463, b 466
Mora, mountain and river (New Mexico), XVII, *a* b 410, a 411
——, Albert de. See Pope GREGORY VIII.
Morabites, sect (Algeria), I, b 498; (Marabout), XV, b 532
Moraceæ, order (Fig), IX, a 135; (Mulberry), XVII, a b 19
Moradabad, district. See MURÁDÁBÁD
Morães, Francisco de, poet (Portugal), XIX, *a* 572; (Romance), XX, *b* 673
Moraines (Geology), X, a 250, a 327; (Glacier), a 559, note; (Himalaya), XI, a b 742; (Ohio), XVII, b 756; (Suwalki), XXII, b 765–6; (Sweden), b 778; (Wisconsin), XXIV, b 650
Moraine tarns (Scotland), XXI, a 549
Moral algebra (Hutcheson), XII, b 425
Moral and Political Philosophy, Principles of (Paley), XVIII, a 186
Moraleda Channel (Patagonia), XVIII, a 357
Moral effects of Opium, XVII, b 816; of Tea, XXIII, a 108
—— element in Political Economy, XIX, b 394
Morale of army (Battle), III, a 385
Moral Essays (Pope), XIX, b 501
Moral expectation (Probability), XIX, a 796; experience (Theism), XXIII, b 268
Moral Feelings, Philosophy of (Abercrombie), I, a 40
—— *Good and Evil, Treatise on* (Hutcheson), XII, a 427
—— *Goodness, Foundation of* (Balguy), III, b 242, a 243
—— government of God (Butler), IV, b 520; (Job), XIII, a 710–1
Moralia of Gregory the Great, XI, b 156, a 157
—— of Plutarch, XIX, b 244; (Wyttenbach), XXIV, a b 751
Moralists (Spain), XXII, a 374
Moralities, plays (Drama), VII, b 357, a b 359, b 361; (English Literature), VIII, b 371; (France), IX, b 567, a 568, b 573
Morality, Elements of (Whewell), XXIV, a 570
Moral law (Metaphysic), XVI, a 90, b 91, a 95
—— perversion (Insanity), XIII, b 104, b 109, a 113
Moral philosophy (Chrysippus), V, b 660; (Clarke), a b 710; (Coleridge), VI, b 124; (Cudworth), b 609, b 611; (Cumberland), a b 620; (Epicurus), VIII, a b 422; (Ferguson), IX, b 76; (Hutcheson), XII, *b* 424–5; (Law), XIV, b

Moral philosophy, *continued* 356-7, b 361; (Locke), a 768; (Mencius), XVI, b 9-10; (Metaphysic), a 98, b 107; (Philosophy), XVIII, a 810; (Shaftesbury), XXI, a b 769-70; (Smith, A.), XXII, b 180-1; (Socrates), b 249-50, a 251; (Wollaston), XXIV, b 666. See ETHICS

Moral Philosophy, System of (Hutcheson), XII, b 424

Moral progress (Ethnography), VIII, b 548-9; qualities, influence of (Theism), XXIII, a 257; restraint (Government), XI, a 19

Morals (Arabia), II, a b 216; (Aurelius), III, a 78; (Crime), VI, a b 515; classical (Slavery), XXII, b 137, a 141; conventionalism of (Schleiermacher), XXI, a b 430; decline of (Roman Law), XX, b 714-5; economic side of (Political Economy), XIX, b 360; Greek conception of (Aristotle), II, a 455; (Sophists), XXII, a b 282; in history (Buckle), IV, b 378, a 379

Morals, Inquiry Concerning Principals of (Hume), XII, b 361

Morals, Italian Renaissance, XX, b 399; pagan and church (Christianity), V, a 605-6; Southern States (Negro), XVII, b 326 note. See ETHICS

Morals, Review of the Principal Questions of (Price), XIX, b 740, b 741-2

Moral Sentiments, Theory of (Political Economy), XIX, a 379; (Smith, A.), XXII, *b* 179, note, a b 180, a 181

Moral theology (Jesuits), XIII, b 660-1, b 662. See CASUISTRY, LIQUORIANISM

Moran, river (Betul), III, b 535

Morant bay insurrection (Jamaica), XIII, a b 561

—— Keys (Columbus), VI, a 156

Morat lake, XIV, *a* 221; (Neuchatel, Lake), XVII, b 370-1; (Switzerland), XXII, a 815; town (Switzerland), *b* 826

Moratcha, river (Montenegro), XVI, a-b 806

MORATIN, Leandro Fernandez de, dramatist, XVI, a 835-a 836; (Drama), VII, b 365; (Spain), XXII, *a* 375

MORATIN, Nicolas Fernandez de, poet, XVI, a 836; (Drama), VII, b 365

Morava, river (Macedonia), XV, b 137; (Servia), XXI, *b* 718-9

MORAVIA, XVI, a 836-7; (Coal), VI, *b* 54; (Hussites), XII, b 422-3; (Methodius), XVI, a 202; (Mongols), a 768

Moravians, race (Germany), X, b 431, a 432; (Slavs), XXII, b 153. See Bohemians, Czechs

MORAVIAN or Bohemian BRETHREN, XVI, b 837-9; (Comenius), VI, b 162-3; (Communism), a 193; (Episcopacy), VIII, a 436; (Greenland), X, b 152, a 153; (Herrnhut), XI, b 683; (Hussites), XII, *a* 423; (Labrador), XIV, b 176; (Lissa), a 701; (Methodism), XVI, b 193, a b 194; (Missions), a 538; (Montgomery, J.), b 816; (Presbyterianism), XIX, a 717; (Spangenberg), XXII, b 382-3; (Schleiermacher), XXI, a b 427; (Tibet), XXIII, a b 368 note; (Zinzendorf), XXIV, b 827

—— Gate (Germany), X, b 403

—— Hymns, XII, b 622

Moravias, de, family (Elgin), VIII, b 122

Moray or Elgin, county (Scotland), XXI, *a* 544, a 551; subjugation of (Scotland), b 505. See ELGIN

—— Firth (Ross), XX, b 876; (Scotland), XXI, b 543, b 544, a 545, a 547, b 553; (Sutherland), XXII, b 763, a *b* 764

——, of Bothwell, Sir Andrew, patriot (Scotland), XXI, b 509, b 511; (Wallace), XXIV, *b* 347

——, James Stuart, Earl of. See MURRAY

——, Sir Robert, president (Royal Society), XXI, *a* 44

Morbhanj, state. See KEUNJHAR

Morbid Anatomy (Baillie), III, a 210; (Malaria), XV, b 320; (Medicine), a 819; (Plague), XIX, b 170 note; (Rabies), XX, a 206; (Rokitansky), a 640

—— conditions (Medicine), XV, b 805, a b 806

MORBIHAN, department, XVI, a b 839; gulf, a 839

"Morbleu" (Oath), XVII, b 720

Morbus miseriæ. See Poverty, Diseases of

Morbus pedis entophyticus (Madura), XV, a 194

Morc, the Fomorian (Ireland), XIII, a 249

Morchella, genus (Fungus), IX, b 732

Mordacia, genus (Ichthyology) (Ill.), XII, a 673, b 733

Mordants (Calico-Printing), IV, *b* 608-9, *a* 614; (Dyeing), VII, a b 494-5

Mordaunt. See PETERBOROUGH, Earl of

Mordekhai b. Hillel, rabbi (Rosh), XX, b 874-5 note

Mordiæum, town (Pisidia), XIX, b 139

Mordtmann (Palmyra), XVIII, b 203, note

MORDVINIANS or Mordva, people, XVI, b 839; (Penza), XVIII, a b 525; (Samara), XXI, *b* 254; (Scythia), b 602 note; (Tamboff), XXIII, b 45; language (Ural Altaic), XXIV, a b 5, a 6, a 7

More, mountain. See Ben More

——, Sir Anthony, painter (Moro), XVI, a 856

——, Sir George, officer (Donne), VII, b 315

MORE, Hannah, authoress, XVI, b 841-2

MORE, Henry, theologian, XVI, a 841-2; (Cudworth), VI, b 609, *a* 610; (Ethics), VIII, a b 526; (Mysticism), XVII, a 142

MORE, Sir Thomas, chancellor, XVI, a 842-5
  bibliography, b 845
  chancellor, b 843-4
  conspiracy against, b 844
  critical review, a 845
  educational, a 842
  Erasmus, b 842
  last days, b 844-5
  public life, a b 843
  religious position, a b 842
  retirement, a b 844

—— (Cartesianism), V, b 129; (Chelsea), *b* 396; (Elyot), VIII, b 144; (England), a b 299, b 300, a 315; (England, Church of), a *b* 335, b 336; (English Bible), b 342, a b 346; (English Literature), b 369, *a* b 370; (Frith), IX, b 693, a 694; (Henry VIII.), XI, b 592, *b* 593; (Massys), XV, a 627; (Pamphlets), XVIII, b 208; portrait (Holbein), XII, *b* 57

Morea, peninsula (Greece), XI, a b 73, a *b* 74, a 75, b 76, *b* 79, a 107, *b* 108, a 112; (Morosini), XVI, a-b 863

Moreau, César, statistician (Ireland), XIII, a b 237, *a* 238, a b 239, b 240, b 248

MOREAU, Hégésippe, poet, XVI, b 845-6

——, Jean Baptiste, composer (Racine, XX, *a* 215

MOREAU, Jean Victor, general, XVI, a b 846; (Army), II, a 526; (Austria), III, *a* 114, a 115; (France), IX, b 536, *a* b 537, b 538, *a* 539, a *b* 540, b 541; (Napoleon I.), XVII, a b 209, b 210, *a* 211, *a* b 214, b 226, a 227

Morecambe, bay (Agriculture), I, a b 360

Moreh Hannebokhim (Maimonides), XV, b 298, a 299 note

Morel, edible fungus (Mushroom), XVII, b 84

——, physician (Insanity), XIII, b 110

Morel, pseudonym (Deschamps, Eustache), VII, a b 111

MORELIA, city, XVI, b 846

MORELLET, André, essayist, XVI, a 847

Morelli, art critic (Schools of Painting), XXI, a 468

Morelos, state (Mexico), XVI, a 223

——, José Maria, patriot (Iturbide), XIII, a 528; (Mexico), XVI, a 228, a b 897; (Morelia), a 847

Morena, mountains (Spain), XXII, b 307, a b 308, *b* 309, a 310, a 311, b 314, a 315

Morena, Acerbus, chronicler (Frederick I., Emperor), IX, a 643

Moreno, Gabriel, botanist (Peru), XVIII, b 688

——, Gabriel, Garcia president (Ecuador), VII, b 559, a 560, b 562, a b 563

Morenosite (Mineralogy), XVI, a 418

Moreporks, Podargidæ (Birds), III, a 641; (Goatsucker), X, a 635, note

Moréri, Louis, editor (Ainsworth), I, b 378, *a* 379; (Encyclopædia), VIII, a 177

Moresby island (Queen Charlotte Islands), XX, b 176-7

Moresheth Gath, village (Micah), XVI, b 233, note

Moresque (Arabesque), II, b 203, a 204

Moret Law (Slavery), XXII, a 151

MORETO, Agustin, dramatist, XVI, b 847; (Drama), VII, a 365; (Spain), XXII, a 373

Moreton bay, cape and district (Queensland), XX, *a* 178, a b 179, *a* 180, *b* 181-2

MORETTO, I, Alessandro Bonvicino, painter, XVI, b 847-8; (Schools of Painting), XXI, b 455, a 465, b 467

Moretum, poem (Virgil), XXIV, *b* 269

Moretus, John, printer (Plantin), XIX, a 188

Morfit's, Campbell, process (Gelatin), X, b 117

MORGAGNI, Giovanni Battista, anatomist, XVI, a 848-9; (Anatomy), I, *b* 713; (Medicine), XV, a b 822

Morgan, Daniel, general, *b.* 1736, *d.* 1802 (Tarleton), XXIII, a 923; (United States), *b* 792

MORGAN, Edwin Dennison, governor, XXIII, a 839; (United States), a 822

——, Sir Henry, pirate (Buccaneers), IV, b 367, *a* 368

——, Lewis Henry, archæologist, *b.* 1818, *d.* 1881 (Ethnography), VIII, a b 544; (Family), IX, a *b* 21, *a b* 22; (Polynesia), XIX, a 438 notes

MORGAN, Sydney Owenson, lady, novelist, XVI, b 849-80

——, Thomas, philosopher (Deism), VII, b 32, *a* 33

——, William (Annuities), II, b 72, a 73

——, William, tailor (Seward), XXI, a 744 note

Morgan, De. See DE MORGAN

Morgana or Morgan La Fay, fairy (Celtic Literature), V, *b* 282; (Romance), XX, b 668, *a* 669

Morganatic Marriage, XV, a 576, note

"Morgan," breed (Horse), XII, a 208

—— loan, France (National Debt), XVII, b 250

—— mortality table (Insurance), XIII, a 176, a 181

Morgante Mazziore (Italy), XIII, a 518

Morgant le Géant (Romance), XX, b 669

Morgarten, battle of, 1598 (Tell), XXIII, a b 171

Morge, river (Valais), XXIV, b 37

Morgengabe (Marriage), XV, a 576 note

Morges, Lake Dwellings, XIV, a 224

MORGHEN, Raffaello Sanzio, engraver, XVI, a 850

Morgue, the (Paris), XVIII, b 289

MORHOF, Daniel Georg, bibliographist, XVI, b 850
Morhoult of Ireland, king (Romance), XX, b 663, note
MORIAH, mount, XVI, b 850
Moriconi, Pietro, archbishop (Pisa), XIX, b 128
Moridunum, camp (Honiton), XII, b 146
MORIER, James, traveller, XVI, b 850; (Ispahán), XIII, b 404; (Persia), XVIII, a 632, b 640, a 641, b 660, a 661
Morillo, Don Pablo, general (Bolivar), IV, *a* b 9
MORILLON, bird, XVI, b 850; (Golden-Eye), X, b 674
Morimond abbey (Cistercians), V, a b 693
Morin, A. J., physicist (Aqueduct), II, a b 198; (Friction), IX, b 683
MORIN or Morinus Jean, theologian, XVI, a 851
Moringae, trees (Oils), XVII, b 766
Morini, tribes (Cæsar), IV, a b 565; (Dorset), VII, b 320
Morin's dynamometer, VII, a 505
Morion, mineral (Cairngorm), IV, b 572; (Mineralogy), XVI, a 405
Morioris or Maiorioris, race (Chatham Islands), V, a 385
Moris, Peter, founder of the water companies (London), XVI, *a* 834, a 858
Morisco, dance (Morris-Dance), XIV, a 873
Moriscoes (John, Don), XIII, b 727; (Spain), XXII, a 341, a b 344
Morisine, Sir Richard, diplomat (Ascham), II, b 592-3
Morison, James, divine (Evangelical Union), VIII, b 636
——, Robert, physician (Botany), IV, a 70
Moritzburg, castle (Zeitz), XXIV, b 813
Mörk, Jakob Henrik, novelist (Sweden), XXII, a b 794
Morkere, earl of Northumbria (Harold II.), XI, b 434, *a* 435
Mörl, Maria von, "L'Ecstatica," of Caldaro (Stigmatization), XXII, a 578
Morlacchi, Francesco, composer (Weber), XXIV, *b* 495
Morlacks, race (Dalmatia), VI, b 690; (Vlachs), XXIV, b 289
MORLAIX, town, XVI, a 851
MORLAND, George, painter, XVI, b 851; (Smith), XXII, b 186
——, Samuel (Botany), IV, *b* 72; (Trumpet), XXIII, b 631
Morley, George, bishop (Baxter), III, a 394
——, Henry, critic (Agrippa, H. C.), I, a 372
——, John, biographer (Byron), IV, a 540; (Wages), XXIV, a 332. See List of Contributors
Mormaer, chief (Clan), V, a 699 note
MORMONS, sect, XVI, a 852-5
    Book of Mormon, a b 852
    doctrine, b 854-5
    government, b 854
    Kirtland period, b 852
MORMONS, *continued*
    Missouri period, b 852-3
    Nauvoo period, b 853
    rebellion, b 853-4
    Reorganized Church, a b 854
    Smith's story, a 852-3
    Taylor's presidency, a b 854
    Utah migration, a b 853
    Young's presidency, a 853-4
—— (Nevada), XVII, b 377; (Tithes), XXIII, b 440 note; (United States), b 817, a 873; (Utah), XXIV, b 25, a 26
Mormops, genus (Mammalia), XV, b 410, a 419
Mormyridæ, family (Ichthyology), XII, a b 711, a 732
MORNAY, Philippe de, seigneur du Plessis, Huguenot leader, XVI, a b 855; (Daillé), VI, b 676; (France), IX, a b 576
Morning Chronicle, London (Reporting), XX, *a* 417
Morning gift (Women), XXIV, a 673, note
MORNY, Charles Auguste, duc de, XVI, b 855-6; (Persigny), XVIII, a b 673
MORO, Attoni, painter, XVI, a 856
——, Cristoforo, doge (Venice), XXIV, b 165
—— Castle, fort (Cuba), VI, a 600
MOROCCO, country (Plate X), XVI, a 856-62
    bibliography, b 861, *a* 862
    coast, Atlantic, a b 857; Mediterranean, b 856-7
    fauna, b 859-60
    fisheries, a 860
    flora, a b 859
    geology, b 858-9
    history, a b 861
    inland boundaries, a b 856
    minerals, a 859
    mountains, b 857-8
    political features, a 861
    population, a b 860
    prehistoric antiquities, b 860-1
    rivers, a b 858
—— (Africa), I, a 222, b 225, *a* 227, b 230, a 234, b 237; (Jews), XIII, a 698; (Mequinez), XVI, a 34; (Mohammedanism), a 596; (Numismatics), XVII, a 679; (Slavery), XXII, b 152; (Weights and Measures), XXIV, b 518; animal orders of (Africa), I, a 231
——, Marocco or Marrakush, town, XVI, a 862
—— leather (Fez), IX, a 112; XIV, b 388-9
—— men (Lotteries), XV, a 13
Morocochite (Mineralogy), XVI, b 410
Morodam, king (Cambodia), IV, a 641
Morolf, literary type (Satire), XXI, a 334
MORON, town, XVI, a b 862
Morone, Domenico and Francesco painters (Schools of painting), XXI, b 455, a 463
——, Peter di, hermit. See Pope CELESTINE V.
MORONI, Giambattista, painter, XVI, b 862; (Moretto Il), a 848; (Schools of Painting) (Ill.), XXI, a b 455, a 463, a 465, b 467
——, Giovanni, cardinal (Cardinal), V, b 85, a 86; (Clergy), a 723; (Carnival), a b 107-8; (Trent, Council of), XXIII, b 579, a 585, a 586
Moronites or Murronites, monks (Celestines), V, b 253
Moropidæ, family (Mammalia), XV, *a* 388
Morosauridæ, family (Reptiles), XX, a 456 note; (Zoology, American), XXIV, b 925
MOROSINI, family, XVI, b 862-3
MOROSINI, Andrea, historian, XVI, a 863
MOROSINI, Constanza, XVI, a 863
MOROSINI, Francesco, admiral, XVI, a b 863; (Greece), XI, *b* 108; (Italy), XIII, a 494; (Venice), XXIV, *a* 159
MOROSINI, Tommassina, XVI, a 863
Morotherium, fossil (Mammalia), XV, a 388
MORPETH, borough, XVI, b 863; (Northumberland), XVII, *b* 580
——. See CARLISLE, earl of
MORPHEUS, myth, XVI, b 863
Morphia, drug (Narcotics), XVII, a b 238; (Opium), *a b* 811, b 813, a *b* 814, *a b* 815, *a* b 817
Morphidæ, family (Butterflies and Moths) (Plate XXVIII), IV, a 530
Morphography (Zoology), XXIV, a b 842-3
Morphological classification of Religions, XX, b 377-82
Morphologie Generelle, Haeckel (Morphology), XVI, b 868-9
MORPHOLOGY, XVI, 863-73
    changes, nature of, b 871
    Haeckel's system, b 870-1
    histology, a b 867
    HISTORY, a 863-6
        encyclopædic period, a b 864
        histology, a 865
        homology, b 865
        Jussieu to Cuvier, b 864-5
        metamorphosis, school of unity in, a b 865
        Origin of Species, b 866
        prior to 17th century, a 863-4
        Ray to Jussieu, b 864
        results, b 866-7
        transcendentalists from Schelling, b 865-6
    homology, b 871-2
    INDIVIDUALITY, b 867-70
        aggregates, theory of, b 868
        Haeckel's theory, b 868-9
        nomenclature, a 870
        problem of, b 867
MORPHOLOGY, *continued*
    INDIVIDUALITY
        reconciliation of theories, b 869-70
        theories, various, b 867-9
    physiology, b 872-3
    promorphology, a 870-7
    taxonomy, a b 872
—— (Biology), III, b 589-91; (Protozoa), XIX, a 854-7; (Schizomycetes), XXI, b 417-23; (Sex), b 759-60; (Zoology), XXIV, a 842, a b 846; origin of (Physiology), XIX, a 12; of language (Provençal language), b 896; of pitcher plants (Insectivorous Plants), XIII, b 145-6
Morpho Menelaus, scale (Microscope) (Ill.), XVI, a 274
Morphon (Morphology), XVI, b 868
Morphy, Paul Charles (Chess), V, b 517, a b 523
Morren, Charles François Antoine, physicist (Electricity), VIII, b 58; (Insectivorous Plants), XIII, b 146, b 147
Morrice dance. See MORRIS DANCE
Morrill, Justin S., senator (Pacific Railroads), XIX, b 914; (Protection), b 939
Morrin college (Quebec), XX, a 175
Morris, island (Charleston), V, a 371
——, George P., journalist, *b.* 1802, *d.* 1864 (Willis), XXIV, b 900, *a* 901
——, Gouverneur, statesman, XVI, a 873
——, Richard, scholar (English Language), VIII, a b 353
MORRIS, Robert, financier, XVI, a 873; (Hamilton, A.), XI, *a* 369; (United States), XXIII, a 795, a 796
——, William, poet (Textiles), XXIII, b 229, b 231
—— and Essex Canal, IV, a 693
MORRIS-DANCE, XVI, a b 873; (May), XV, b 654
Morrison, mount (Formosa), IX, a 366
——, Charles, surgeon (Telegraph), XXIII, a 120 note
MORRISON, Robert, missionary, XVI, b 873
Morrison Observatory, XVII, a 736
MORRISTOWN, New Jersey, town, XVI, a 874; (United States), XXIII, b 791
Morrone, monastery (Sulmona), XXII, a 351
Morro Velho mine (Brazil), IV, a 202
Morse, Edward Sylvester, naturalist (Brachiopoda), IV, a b 170, *b* 172, b 173, a *b* 175
——, Jedidiah, geographer, (Ware), XXIV, a 883
MORSE, Samuel Finley Breese, inventor, XVI, a 874; (Patents), XVIII, a 883; (Telegraph), XXIII, b 120
—— alphabet (Heliography), XI, a 565; (Telegraph) (Ill.), XXIII, a b 128, a 129

- Morse or Walrus (Mammalia), XV, a 450
- Morselli, statistician (Suicide), XXII, a b 663, *a* b 664, *a* 665
- MORSHANSK, town, XVI, b 874; (Tamboff), XXIII, *a* 46
- Morsztyn, Andrew, poet (Poland), XIX, a 302, b 313
- Mortadá, caliph (Spain), XXII, a 330
- Mortagne, Walter of, monk (Scholasticism), XXI, a 441
- Mortality (Atmosphere), III, b 32-3; (Cholera), V, b 594; cancer (Pathology), XVIII, b 387; (Climate), VI, a 5; (Cobra), b 83; (Coolie), a 297, a b 298; (Hospital) XII, a b 315-6; (Malaria), XV, b 320; (Murrain), XVII, b 67-8; (Plague), XIX, b 170, b 174, *a b* 175; (Polynesia), a 435; (Typhus), XXIII, b 718, a 722, b 723; from ovariotomy (Surgery), XXII, b 726
- ——rates (Annuities) II, a 68-9, a b 70, b 73, b 74, b 76-7, 78; (Coal Mining), VI, a b 74; (Insurance), XIII, b 175-9, a 180, b 181, b 184, b 189; (London), XIV, b 829-30, a b 831, b 836, b 862; (Manchester) XV, a 471; (Meteorology), XVI, a 154; (Navy), XVII, a b 306; (Paris), XVIII, b 282-3; (Public Health), XX, b 102; (South Australia), XXII, a 298; (Vaccination), XXIV, a b 34, a 35. See LONGEVITY
- Mortal sins (Liguori), XIV, *a b* 644, a 645-6; (Ethics), VIII, a 522; (Penance), XVIII, b 498
- Mortar, cannon (Arms and Armor), II, b 488; (Coehorn), VI, a 98; (Gunnery) (Ill.), XI, a 272, a 273, a 274; (Gunpowder), a 282; apparatus (Lifeboat) XIV, *a b* 576; drill (Artillery), II, b 583; for stone (Artillery), b 572
- Mortar, cement (Building), IV, b 409-11, b 420; (Lime), XIV, a 654; ancient (Rome), XX, b 827, b 828; (Venice), XXIV, b 161; joints and beds of (Building), IV, a b 413
- Mortaria, dishes (Pottery and Porcelain), XIX, b 637
- *Mort Artur*, romance (Grail), XI, a b 32, a 33
- *Morte D'Arthur*, romance (Malory), XV, a 340; (Minstrel), XVI, b 502; (Romance), XX, a 658, a b 660, *b* 664, a b 665
- MORTGAGE, incumbrance, XVI, a 875-6; (Land) XIV, b 265, b 270; (Littleton), a 711; (Pledge), XIX, a 232; Athenian (Inscriptions), XIII, b 129; chattel (Personal Estate), XVIII, b 677; (Slavery), XXII, b 907; in jus civile (Roman Law), XX, b 708
- —— Banks, III, a 283
- —— pillars, Attic (Solon), XXII, b 267
- MORTIFICATION, XVI, a 876; (Surgery), XXII, a 717, a b 718
- Mortimer. See March, earl of
- ——, Edmund, 3d earl of March (York), XXIV, *a* 790
- ——, Edmund, 5th Earl of March (York), XXIV, a 790
- ——, Sir Edward, soldier, (Glendower), X, *a* 605
- ——, John, farmer (Agriculture), I, a 267
- ——, Roger, earl of March (Edward II. and III. of England), VII, *a* 593; (England), VIII, b 287, b 293-4; (London), XIV, a 856; (Nottingham), XVII, a 615; (York), XXIV, a 790
- *Mortimer, Fall of*, play (Jonson), XIII, a 755 note
- Mortis causa conveyance per aes et libram (Roman Law), XX, b 694-5
- Mortise, chase (Building) (Ill.), IV, a 432
- —— and tenon (Building) (Plates XXIII, XXIV), IV, b 428-9, b 430-1, a b 439
- Mortising machine (Building), IV, a 434
- Mortlake manor (Wimbledon), XXIV, a b 627; tapestry (Textiles), XXIII, b 231
- Mortlock islands (Caroline Islands), V, a b 111
- MORTMAIN, Statutes of, XVI, a 876; (Charities), V, a *b* 348; (Corporation), VI, a 384; (Real Estate), XX, b 318
- Morto da Feltre, painter. See FELTRE
- Morton, J. C. (Agriculture), I, b 272, a 281, b 314, b 327-8
- MORTON, James Douglas, earl of, XVI, b 876; (Balfour, Sir J.), III, a 242; (James I., England), XIII, b 567; (Mary Stuart), XV, a 605, a 606; (Presbyterianism), XIX, *a* 700; (Scotland), XXI, a 526, *a* b 527, a b 528-9
- ——, John, cardinal (More, Thomas), XVI, a 842
- MORTON, Oliver Perry, governor, XXIII, a b 839; (United States), a 822
- ——, Samuel George, craniologist (America), I, a b 603
- ——, Thomas, engineer (Harbors and Docks), XI, a 420
- ——, William Thomas Green, dentist (Anæsthesia), I, a 693; (Wells), XXIV, *a* 890
- Morton's Leam (Cambridge), IV, *b* 643
- Moru, convent (Lhasa), XIV, b 499
- Morula, stage (Animal Kingdom), II, *b* 46, b 47; (Embryology), VIII, b 150; (Trematoda), XXIII, *a* 572
- Morus, genus (Mulberry), XVII, a 19
- ——, Alexander, divine (Milton), XVI, b 345-6
- Morvan, district (Nievre), XVII, a b 509; (Yonne), XXIV, a 783
- MORVEAU, GUYTON DE, chemist, XI, a 307
- Morvenite (Mineralogy) (Ill.), XVI, a 441
- Morzin, Ferdinand Count (Haydn), XI, b 481
- Mos'ab, governor (Mohammedanism), XVI, a 592-3
- MOSAIC, decoration (Ill.), XVI, b 876-82
  - authorities, a 882
  - Carthaginian, b 878
  - classification, a b 877
  - cloisonnée, b 876-7
  - Costanza style, b 878-9
  - intarsiatura, a 882
  - MEDIÆVAL, a 879-82
    - glass enrichments, b 881-2
    - list of examples, b 880
    - mural, a 879-81
    - pavements, a b 881
    - wood, a 882
  - Mohammedan, a 882
  - Ptolemaic glass, a 877
  - ROMAN (Ill.), a 877-9
    - mural, a 878
    - pavements, b 878
    - remains in western Europe, a b 878
    - technics, b 877
- —— (Archæology), II, *a* 321; (Architecture), b 380; (Baldovinetti), III, b 237-8; (Cavallini), V, b 227; (Europe), VIII, b 621; (Gaddi), X, b 6, *a* 7; (Glass), a 577, *b* 578, b 579, a 596-600; (Ghirlandajo), a b 508; (Inlaying), XIII, b 88; (Italy), b 464; (Miniature), XVI, a 457; (Monreale), a 786; (Mosque), b 891, a 892, a 893; (Orcagna), XVII, *a b* 838, a 839; (Præneste), XIX, a 675; (Raphael) (Ill.), XX, a b 292; (Rome), *b* 856, *b* 859; early Christian (Basilica), III, *a* 358, b 359, *b* 360, a 361; (Titian), XXIII, b 444; (Venice), XXIV, *a* b 164; Pompeian (Mural Decoration), XVII, b 47; Roman pavement (Architecture), II, a b 368, a 369; (Rome), XX, b 837; (Verona), XXIV, *a* b 186
- —— -gold (Tin), XXIII, a 429
- —— Law (Amulet), I, b 685; (Hebrew Language), XI, a b 534; (Jesus Christ), XIII, b 675 note, a 680
- —— *for Gentiles, Exposition of* (Philo), XVIII, b 776, a 777; (Women), XXIV, b 671. See DECALOGUE, Law, Jewish, PENTATEUCH
- Mosaiculture (Horticulture), XII, a 270
- Mosailima, prophet (Mohammedanism), XVI, a 585, b 626
- Mosambican avifauna (Birds), III, b 658-9
- Mosandrite (Mineralogy) (Ill.), XVI, b 444
- Mosandrium, element (Spectroscopy), XXII, a 391
- Mosasaurus, fossil (America), I, a 597; (Reptiles), XX, b 457, a 479
- MOSCHELES, Ignaz, pianist, XVI, a 882; (Mendelssohn), b 10, a b 11, a 13; (Clementi), V, a 720
- Moscherosch, Johnn Michel, satirist (Germany), X, b 475
- Moschidæ, family (Deer), VII, a 24
- Moschopolis, town (Vlach), XXIV, a 290
- Moschopulus, Manuel, grammarian (Greece), XI, *b* 130; (Magic Square), XV, b 214
- Moschus, genus (Musk-Deer), XVII, a 114
- MOSCHUS, poet, XVI, b 882; (Bion), III, b 602
- Moscow, government, XVI, b 882-3; (Russia), XXI, a 76, b 79, 83, *a* 89, a b 92, b 93, *a b* 94, *a b* 99
- Moscow, city (Map), XVI, b 883-8
  - area and site, b 883
  - climate, a 885
  - educational features, a 886
  - history, b 886-8
  - Kremlin, b 883-4
  - public buildings, a 884-5
  - population, b 885, b 886
  - quarters of, a 885
  - suburbs, b 886
  - trade, b 885-6
- —— (Ivan I.), XIII, a 529; (Libraries), XIV, a 533, a 552; (Mongols), XVI, b 767, b 773, a 774-5; (Napoleon I.), XVII, a *b* 223-4; (Newspapers), b 441; (Novgorod), *a* 623; (Observatory), a 735; (Plague), XIX, a 175, a 177; (Technical Education), XXIII, a 117; (Tver), a 715; (Volga), XXIV, b 298, b 299, a 300, a 301; (Vologda), *a* 304; encroachments of (Pskoff), XX, b 41-2; retreat from (France), IX, a 543
- —— basin (Coal), VI, a 55
- ——, Bell of, III, b 465
- —— road, great (Siberia), XXII, a b 15
- Moscrop recorder (Steam-Engine), XXII, a 534, a b 536
- Moselekatze, chief (Transvaal), XXIII, b 551; (Zululand), XXIV, a 868; kingdom of (Africa), I, b 243
- Mosely, Henry Nottidge, naturalist (Corals), VI, *a* 331, *b* 342; (Glacier), X, a *b* 562; (Hydrozoa), XII, *b* 597, *a* 598, a 599; (Planarians), XIX, b 185; (Tunicata), XXIII, a 656
- Mosellá, mosque of (Herat), XI, a 638
- Moselle, river (Coblentz), VI, b 82; (France), IX, a 446, b 457; (Germany), X, *a* 403, a b 404, b 405; (Meurthe-et-Moselle), XVI, b 212; (Rhine), XX, *a* 534, note; (Vosges), XXIV, a *b* 319, a 320
- —— Wines, XXIV, b 643-4
- Moser, Friedrich Karl von, jurist (Germany), X, b 478
- MOSER, Johann Jakob, jurist, XVI, a 888
- Möser, Julius, author (Osnabrück), XVIII, b 59
- ——, Justus, historian (Germany), X, b 478; (Political Economy), XIX, a 377
- MOSES, lawgiver, XVI, a 888-9; (Midian), a b 296; (Circumcision), V, a 690; (Inspiration), XIII, b 161; (Israel), b 406, b 407-10; (Levites, XIV, *b* 488-9; (Pentateuch), XVIII, b 515-6, b 523; (Prophet), XIX, b 838, note; (Psalms), XX, *a* 34, a 37; burial of (Gabriel), X, b 5

Moses, statue (Michel Angelo), XVI, a 241, a 243
Moses, Apocalypse of (Apocalyptic Literature), II, a b 155–6. See *Jubilees, Book of*
—— Fountain of (Petra), XVIII, a b 719, note
——, *Life of* (Philo), XVIII, a 777
—— of Aggel, bishop (Syriac Literature), XXII, a 865, a b 877
—— bar Kāphā, author (Syriac Literature), XXII, b 863 note, a b 890
MOSES of Chorene, historian XVI, a 889; (American Literature), I, *b* 482, a 483; (Syriac Literature), XXII, a 867
—— of Nisibis, abbot (Libraries), XIV, a 515
Moses's Principia (Hutchinson, J.), XII, *b* 427
Moseylemah, prophet (Arabia), II, b 224, a 229
Mosgu, race (Soudan), XXII, a 292
Moshabbar, river and pass (Gilgit), X, b 532
Moshafí of Cordova, vizier (Spain), XXII, *b* 328
Mosheh, rabbi of Cordova (Talmud), XXIII, a 44
—— of Leon, rabbi (Midrash), XVI, b 298, note
MOSHEIM, Johann Lorenz von, historian, XVI, b 890; (Church History), V, *a* 669; (Toland), XXIII, a 463 note
Mosilikatse, kingdom (Africa), I, b 243. See Moselekatze
Mosi-oa Tunya, cataract (Zambesi), XXIV, *a b* 804
Mosken, island (Lofoten and Vesteraalen), XIV, *b* 776; (Whirlpool), XXIV, *a* 572
Moskenström, Whirlpool, XXIV, a 572
Moskva, river (Moscow), XVI, a b 883, b 885, b 886; (Smolensk), XXII, a 193
Moslem architecture (Venice), XXIV, b 160–1; art (Mural Decoration), XVII, a b 41, a b 42, a 43; coins (Numismatics), a 678–9; intolerance in Spain (Averroes), III, a 130; Missions, XVI, a 536; ware (Pottery and Porcelain) (Ill.), XIX, b 638–42
Moslems (Mohammedanism), XVI, a b 572, a b 573, a b 577, b 578
Moslim ben, Akíl (Mohammedanism), XVI, *b* 591
—— ben ‘Okba, general (Mohammedanism), XVI, b 591
Moso, tribes (Tibet), XXIII, a b 365
MOSQUE (Ill.), XVI, b 890–4
    arrangements and attendants, b 890–1
    decorations, b 891
    distribution of, b 893–4
    Egyptian, b 892, a b 893
    literature, a 894
    plans of, b 891–2

—— (Architecture) (Ill.), II, a 389–92, a 415; Adina (Gaur), X, a b 104; Damascus (Mohammedanism), b 612–3; Hasaneyn (Egypt), VII, b 629, b 630; Hosein (Kerbela), XIV, a b 50; of Kelan (Bokhara), IV, a 5; Lattan (Gaur), X, b 103
—— of Omar (Jerusalem), XIII, a b 653; (Sepulchre, Holy), XXI, a b 704–5, notes; (Temple), XXIII, a b 185
——, Pearl (Agra), I, b 255–6; Saracens (Constantinople), VI, b 273; Soultan Hassan, Cairo (Architecture), II, b 390; Suliman (Constantinople), VI, a 273
——, The Great (Mecca) (Ill.), XV, a 679–81
——, Touloun, Cairo (Arabesque), II, a 204; (Architecture) (Ill.), II, b 389–90, b 391
Mosquera, president (Colombia), VI, a 139, b 140, a 141
Mosques (Agra), I, b 255; (Ahmadábád), b 375; (Baghdad), III, b 200–1; (Bijapur), b 578; (Broussa), IV, b 344; (Cairo), a 573; (Constantinople), VI, a 270, *b* 271, *a b* 272, a b 273, *a* 274; (Damascus), a b 697; (Delhi), VII, b 42, b 43; (Egypt), a 650, a 651, a b 652, a b 656, b 661, a 666, a b 668, b 672; (Fathipur Sikri), IX, a 46; (Fez), b 111; (Gaur), X, *b* 103, a 104; (Herat), XI, *a* b 638; (Hyderabad), XII, b 444; (Ispahán), XIII, a *b* 404; (Jaunpur), b 610; (Kairwan), a 834; (Lahore), XIV, a 213, *a b* 215, a 216; (Medina), XV, b 827–8; (Meshed), XVI, a 51; (Meshed-Ali), b 51; (Morocco), a 861; (Mural Decoration) (Ill.), XVII, a b 41, a 42, a 43; (Oran), a 833; (Salonica), XXI, b 238; (Sofálá), XXII, b 259; (Teheran), XXIII, b 118; (Tlemcen), a b 449–50; (Trebizond), b 567; (Tunis), b 661, a 662; (Yarkand), XXIV, b 764; pulpit in (Architecture), II, a 445
MOSQUITO, insect (Ill.), XVI, a 894–5; (Diptera), VII, b 223; (Eucalyptus), VIII, b 570; (Gnat), X, b 624; (Lapland), XIV, a 306; (Parasitism), XVIII, b 275; (Siberia), XXII, b 12–3
——, cutter (Yachting), XXIV, a *b* 759
—— coast (America), I, b 623; (Nicaragua), XVII, a b 490, *b* 491, a b 493
—— Indians (Costa Rica), VI, a 398
—— Lagoon (Senegambia), XXI, b 693
Moss Agates, I, a 248; (Mineralogy), XVI, b 405
Mossamba mountains (Africa), I, b 225, a b 227, *a* 228
Mossamedes, district, bay and town (Benguela), III, b 494
Mossbunker, fish (Ichthyology), XII, b 732; (Menhaden), XVI, b 14
Moss-carder (Humble-bee), XII, b 356
Moss culture (Horticulture), XII, a 307
MOSSES, plants, XVI, a 895; (Algæ), I, *a* 449; (Botany) (Ill.), IV, a b 94, b 95, b 96, b 98, b 103, a 127, a 143, a 144, a 146–7; (Herbarium), XI, b 641; (Histology), XII, b 14, a 19; (Muscineæ) (Ill.), XVII, a 71–2; b 76–81; (Reproduction), XX, *b* 435, a b 436, b 442, b 444; (Vegetable Kingdom), XXIV, a b 140
MOSSLEY, town, XVI, a b 895
Mosso, physiologist (Sleep), XXII, a b 165, b 166, a 168; (Vascular System), XXIV, a 118
——, tribe (Soudan), XXII, a 292
Mosta’ín billáh, Caliph (Mohammedanism), XVI, a 610
Mostakfi billáh, caliph (Mohammedanism), XVI, a 610
Mostansir billáh, sultan (Násir Khosrau), XVII, b 243, a 244; (Tunis), XXIII, a 661
MOSTAR, town, XVI, b 895; (Bosnia), IV, b 60, a 61; (Herzegovina), XI, *a b* 693, *a* 694
Mostareb, race (Arabia), II, a b 214, b 223–4, a 226, b 229
Mostarsko Blatto, mountain (Herzegovina), XI, a 693
Mosta’sim billah, caliph (Mohammedanism), XVI, b 610, a 611
Mostazhir billah, caliph (Mohammedanism), XVI, b 610
“Most Faithful” title (Portugal), XIX, a 565
MOSUL, town, XVI, b 895; (Mohammedanism), a b 593, a 601, a b 609; (Muslin), XVII, a 116
Motacilla, genus (Wagtail), XXIV, b 337; (Wren), b 723
Motacillidæ, family (Lark), XIV, b 316–7
Mo’tadid, caliph (Mohammedanism), XVI, b 608, a 609
Motagua, river (Guatemala), XI, a 212, a 213, a 214
Motala, river (Nörrkoping), XVII, *b* 566; (Sweden), XXII, b 774
Mo’tamid, caliph (Mohammedanism), XVI, b 608
MOTANABBI, or Motenebbi, poet, XVII, a b 7; (Egypt), VII, b 622–3, b 650
Motasali, sect (Al-Mamun), I, a 519
Mo’tasim billah, caliph (Abbassides), I, a 16; (Mohammedanism), XVI, a b 607
Motawakkil III., caliph (Abbassides), I, a 16; (Mohammedanism), XVI, a b 607–8
Motay, Tessie du, inventor (Gas Lighting), X, b 92; (Photography), XVIII, b 845–6
Motazalites, sect (Arabian Philosophy), II, a 233; (Mas’údy), XV, a 630; (Mohammedanism), XVI, b 614; (Theism), XXIII, b 261
Mo‘tazz billáh, caliph (Mohammedanism), XVI, b 607, a b 608
Motecallemún, theologians (Arabian Philosophy), II, a 233
Motella, genus (Ichthyology), XII, a b 717, a 730
Motenebbi, poet. See MOTANABBI
Motet, musical term (Music), XVII, b 89, note; (Goudimel), XI, b 3; (Tallis), XXIII, a 39
Moteuczoma. See MONTEZUMA
Moteyr, clan (Arabia), II, b 215
Moth (Butterflies and Moths), (Plates), IV, a 527–9, a 530–1; (Insects), XIII, b 148, a 149, b 157; (Bee), III, a 430; (Gooseberry), X, *b* 693; (Mimicry), XVI, b 354; processionary (Coleoptera), VI, b 117
Mothe, Bertrand, marquis de la. See FENELON
Mothe le Vayer, François de la, author (Scepticism), XXI, b 399
Mother (Infant), XIII, a 4; (Dietetics), VII, b 178; supremacy of (Ethnography), VIII, *b* 543–4
—— Carey’s Chicken (Petrel), XVIII, b 725
—— -cell (Histology), XII, *a b* 15
Mother Hubbard’s Tale (Spenser), XXII, b 410
Mother of God, title (Nestorius), XVII, b 364
MOTHER OF PEARL, shell, XVII, b 7–8; XVIII, a b 457, a b 458
Mother of the Forest (Sequoia), XXI, a 706
MOTHERWELL, village, XVII, a 8
MOTHERWELL, William, poet, XVII, a b 8
Mothones, slaves (Helots), XI, a 570
Mo Tî, teacher (Mencius), XVI, a 8
Motihári, town (Champáran), V, b 335
Motí‘lillah, caliph (Mohammedanism), XVI, a 610
Moti Masjid, mosque (Agra, city), I, b 255–6
Motion (Axiom), III, a 140; (Descartes), VII, a b 107; (Dynamics), a b 503; (Galileo), X. b 32–3; (Harmonic Analysis), XI, a 431; (Herbart), XI, a 643; (Leibnitz), XIV, b 419, a 422; (Light), b 617; (Hobbes), XII, b 35, a 36, a 37; (Mechanics), XV, a 683–5, b 708–9, a 757, a 761–74; balloon (Aeronautics), I, a 184–6; cell- (Protozoa), XIX, a b 857; circular (Hodograph), XII, b 44; comparative (Mechanics), XV, b 761, b 770–1; corporal (Snakes) (Ill.), XXII, a b 200; equations of (Hydromechanics), XII, a 462–78; (Tides), XXIII, a b 381; of fluids (Hydromechanics), XII, a 462–78, a b 479, a 481–549; fundamental (Trendelenburg), XXIII, b 577; glacial (Glacier), X, a 560–2; molecular (Diffusion), VII, b 186–7, a b 188; paradoxes of (Zeno), XXIV, a b 817; parallel (Mechanics), XV, b 773–4; plant (Physiology), XIX, a 69–71; screw-

Motion, *continued*
like (Mechanics) (Ill.), XV, a b 763; steady (Hydromechanics) XII, b 486–92; uniform (Hodograph), XII, b 44. See PERPETUAL MOTION
Motion of Fluids, Lamb's (Hydromechanics), XII, b 463, a 465, b 469, b 478
Motivity (Heat), XI, a 509, note; (Thermodynamics), XXIII, a b 306, a 308
MOTLEY, John Lothrop, historian, XVII, b 8-9; (American Literature), I, b 631, a b 635
MOTMOT, bird, XVII, a 9–10; (Birds), III, a 645, a 649, b 650
Motoori Norinaga, scholar (Japan), XIII, a 590, a 597
Motor areas of brain (Physiology) (Ill.), XIX, b 47–8; nerves (Anatomy), I, b 756, a *b* 761; cranial (Anatomy), *b* 773–5; classification of (Physiology), XIX, a 31; stimulation of (Physiology), a b 28; transmission of impressions (Physiology), a b 40, a 42; velocity in (Physiology) (Ill.), b 29
Motor presentations in Psychology, XX, b 47–9, b 56, b 59, a b 60–1, b 71
Motors, people (Samoyedes), XXI, b 263, a 264
—— for cars (Railway), XX, b 260; (Tramway), XXIII, b 539-40, a 541; theory of electric (Traction), a b 528
—— in mountings for Telescopes, XXIII, b 166
——, water (Hydromechanics) (Ill.), XII, a 549-65
MOTRIL, town, XVII, a 10
MOTT, Valentine, surgeon, XVII, a 10
——, Pianoforte-maker, XIX, b 84, note
Mottakí lilláh, caliph (Mohammedanism), XVI, b 609, a 610
Motte, mountain. See La Motte
Motte-Foqué. See FOQUÉ
Motteux, Peter, editor (Periodicals), XVIII, b 547; (Rabelais), XX, b 203, b 205
MOTTEVILLE, Françoise Bertaut de, authoress, XVII, a 10
Mottled Polecat, XIX, b 341
—— Soap, XXII, b 214-5
Motto (Heraldry), XI, a b 634
—— Cameos, IV, b 653
Mottramite (Mineralogy), XVI, b 423; (Vanadium), XXIV, *b* 60
Motu island (New Hebrides), XVII, b 405
Motu Aquarum, Theoria Nova de (Hydromechanics), XII, a 453
Motyca, town. See MODICA
Mouat, Dr. F. (Andaman Islands), II, *a* 13, *a* 14
Mouchon, Pierre, index-maker (Encyclopædia), VIII, b 181
Mouchy, Philippe, Maréchal de. See NOAILLES
Moufang, canon (Socialism), XXII, a 227
Moufflon, mammal (Sheep) (Ill.), XXI, a b 821; (Sardinia), b 323-4
Moukden, city (China), V, *a* b 557; (Manchuria), XV, *a b* 473, *a* b 474
Mould, parasite (Botany) (Ill.), IV, a 84, a 96; (Cheese), V, a 395; (Fungus), IX, b 727
——, frame (Paper) (Ill.), XVIII, b 228, a 229
——, package (Goldbeating), X, *b* 670
——, casting- (Glass), X, a 592; (Iron), XIII, b 365–6; (Sculpture), XXI, a 598, note
—— type-, electrotyping (Typography), XXIII, a b 749; stereotype (Typography), a 748; type (Typography) (Ill.), a b 744
Moulding, process (Brass), IV, a 196; (Brick), a *b* 250, b 251; (Candle), a 709; (Founding), IX, a 423–5; (Pottery and Porcelain), XIX, a b 658, a 663
Mouldings (Architecture), II, a 335, a b 411; (Building) (Ill.), IV, b 423-4, b 435–6, b 440; Grecian (Architecture) (Plate XIII), II, b 357-9; Italian (Architecture), II, b 384; plaster (Building), IV, b 453; Roman (Architecture) (Plate XIII), II, b 366; Saracenic (Architecture), b 390-1
Mould of stair rail, tracing (Building) (Ill.), IV, b 446, a 447
Moule, Henry, inventor (Agriculture), I, a b 311 note
Mouley, Moorish name. See Muley
Moulin, Jean François Auguste, general (Napoleon I.), XVII, b 208, a b 209
——, Denis du, archbishop (Toulouse), XXIII, a 516
——, Peter du, the younger, puritan (Milton), XVI, b 345
—— Peter du, archbishop (Toulouse), XXIII, *a* 516
Moulins, cascades (Glacier), X, a b 559
MOULINS, town, XVII, b 10; (Lille), XIV, b 648 note
Moulins-à-tonneaux (Gunpowder), XI, b 290
Moulmein, town. See MAULMAIN
Moult (Arachnida), II, b 239, b 240, b 258 note; (Birds), III, b 672-3; (Butterflies and Moths), IV, b 528; (Crab), VI, *a* b 477, note, a 478; (Crustacea), b 568, a b 577; (Ornithology), XVIII, a 29, b 52; (Penguin), a 502 note; (Puffin), XX, a b 107
Moultrie, John, poet, *b.* 1800, *d.* 1874 (Rugby), XXI, a 62
Mound-builders of America, I, a b 608; (Barrows), III, a 344; (Wisconsin), XXIV, a 652
Mound Pipes (Ill.), XIX, b 119
Mountain, political party (Barère), III, a 322; (Danton), VI, b 718, a 719; (France), IX, b 530, a b 532, *a b* 533, a 535; (Tallien), XXIII, a 38
——, Jacob, bishop (Canada), IV, b 676
Mountain-ash, tree (United States), XXIII, b 860
—— Batteries, III, a 383
—— cattle (Agriculture), I, a b 345
—— cork (Asbestos), II, b 590
—— Eagle (Ill.), VII, a b 510
—— Hare (Ill.), XI, a b 426
—— laurel, plant (United States), XXIII, b 860
—— leather (Asbestos), II, b 590
—— Limestone, hills (Westmorland), XXIV, a 542, *a* 543; (York), b 783
—— Meadows massacre, 1857 (Mormons), XVI, b 853, a 854
—— Mint, XVI, a 515
—— of the Sun (Zodiac), XXIV, a 831
MOUNTAINS, XVII, b 10; (Geology), X, b 329–31, a 332; attraction of (Earth), VII, a b 521; climate determined by (Meteorology), XVI, b 142-3; corrugation of (Geology), X, a 202; holy (Religions), XX, a 374; origin of (Geology), X, b 229–30. See Dagh, Jêbêl, Mont, Sierra
Mountain sheep (Agriculture), I, b 348-9, b 351-2
—— spectres (Halo) (Ill.), XI, b 356
—— train guns (Gunnery), XI, a 275, a 277
—— Tunnels, XXIII, a 664–5
—— wood (Asbestos), II, b 590
Mount Auburn, cemetery (Cambridge), IV, b 647; (Cemetery), V, b 287
—— Coburn (Sussex), XXII, *a* 763
Mounted infantry (Volunteers), XXIV, b 315; (War), a b 379
—— Ferrand, town (Clermont), V, b 723
Mounting, methods of (Telescope) (Ill.), XXIII, a 159–68; (Telescopic Work), a b 935; (Transit Circle), a b 548
—— specimens (Taxidermy), XXIII, a b 96, a 97
Mountjoy, lord-deputy (Ireland), XIII, *b* 271
Mountmellick, town (Queen's County), XX, *b* 177
Mountrath, town (Queen's County), XX, *b* 177
Mount Stuart, residence (Bute), IV, a 516, a 517
MOUNT VERNON, town, XVII, b 10
—— Vernon, residence (Washington), XXIV, b 408, *a* 409, b 411, note, a 887
—— Wise (Devonport), VII, a 120
Moura, Jose de S. Antonio, translator (Ibn Batuta), XII, b 643 note
Mourier, explorer (Greenland), XI, b 148, b 153
Mourne, mountains (Down), VII, *a* 331; (Geology), X, a b 274; (Ireland), XIII, b 221
—— river (Tyrone), XXIII, b 759
Mourillon arsenal (Toulon), XXIII, b 514
Mourrous, mountain (Pyrénées), XX, b 132
Mouse, river (Lanark), XIV a 251
MOUSE, rodent (Ill.), XVII, b 10-12; (Zoology), XXIV, b 923; brain of (Mammalia), XV, a b 369; parasite of (Trematoda), XXIII, b 572. See Jumping Mouse, VOLE
MOUSE-BIRD (Ill.), XVII, b 12-13
Mouse on a stay (Seamanship), XXI, a 620
—— tower of Bingen (Hatto), XI, a 465
Moussamondou, city (Comores), VI, b 196
Mousta, Malta (Dome), VII, *a* 302
Mout, city (Cilicia), V, b 678–9
Moutan Pæonies, XVIII, a 137
Mouth (Acoustics), I, a 111; (Anatomy), *b* 734; (Arachnida), II, b 238, b 240, b 243, a 245, a 248, b 249, a 252, b 256; (Digestive Organs), VII, b 192-3; (Dragon-Fly), a 334, b 335; (Echinodermata), a 545-6, a 548, b 549, b 551, a b 553; (Hymenoptera), XII, b 606; (Ichthyology) (Ill.), b 672, a 692; (Insects), XIII, a b 150; (Myriapoda), XVII, *b* 123, b 125; (Nutrition), a 687, a 688; in Lepidoptera (Butterflies and Moths), IV, a 527; rodentia (Mammalia), XV, a b 364, b 421
——, closing and opening, ceremony (Cardinal), V, a b 87
—— -cylinder (Mollusca), XVI, b 676
Mouth-piece of Trumpet, XXIII, b 629-31
Mouthpieces, convergent (Hydromechanics), XII, b 497; cylindrical (Hydromechanics), b 496–7; discharge through (Hydromechanics), a 491–2, b 496–503; divergent (Hydromechanics), b 497–8
Moutiers, town (Savoie), XXI, b 347, a 348
Mouton, Jean, of Holling, musician (Music), XVII, b 92, a 94, a 96, a 97
Movement and space-perceptions (Psychology), XX, b 59-60; and sensation (Psychology), b 56, b 72–4; voluntary (Psychology), a b 48-9
—— of variation in plants (Physiology), XIX, b 69–70
MOVERS, Franz Karl, orientalist, XVII, a 13; (Carthage), V, a 143; (Phœnicia), XVIII, a 823; (Pentateuch), b 516
Movimento dello Stato Civile (Population), XIX, a b 531, a b 532

Moving plant of India (Botany) (Ill.), IV, a b 101
Mowaffak billáh, prince (Mohammedanism), XVI, a 608
Mowatta, tradition (Mohammedanism), XVI, a 617
Mowayyad billáh, prince (Mohammedanism), XVI, b 607, a 608
Mowbray, family (Thirsk), XXIII, b 327
——, Geoffry, bishop (Bristol), IV, *b* 314
——, Robert of (William II.), XXIV, b 608, a 609
Mowing grain (Agriculture), I, a 322; hay (Agriculture), b 336-7
—— machines (Agriculture), I, b 287, b 322
Mow Runipore, town. See MAW RANIPUR
Moxa Dictionary, VII, a 168
Moxon, Edward, poet (Wordsworth), XXIV, a 711
——, Joseph, hydrographer (Building), IV, b 434, a 447; (Globe), X, b 610
Moxos, tribes (Indians), XII, a 865, a b 869
Moy, river (Mayo), XV, *a* 657; (Sligo), XXII, a 169
Moya, volcanic mud (Geology), X, b 223
Moyen, Francisco, martyr (Torture), XXIII, a 493 note
Moyen Court de faire Oraison (Guyon), XI, b 306, a 307
Moyenne, Montagne (Jura), XIII, b 791
Moyola river (Londonderry), XIV, a 863
Moy's aërial steamer (Flight) (Ill.), IX, b 283
Moytura, town (Ireland), XIII, b 249
Moyune green teas (China), V, b 552
Mozabites, race (Algeria), I, b 497
MOZAMBIQUE, province, XVII, a 13-4; (Africa), I, b 230, 231, a 242; (Dictionary), VII, b 167; (India-Rubber), XII, b 876, b 879; (Opium), XVII, b 814. See Mosambican
—— channel (Indian Ocean), XII, b 860, b 861, note
MOZARAB, people, XVII, b 14
Mozarabic Breviary, IV, b 235; (Hymns), XII, a 613, b 615, a b 616, a 617; Liturgy, XIV, b 713; rite (Salamanca), XXI, a 214; (Toledo), XXIII, a 464
Mozart, Leopold, musician, XVII, *b* 14, *a b* 15, *a* 16
MOZART, Wolfgang Amadeus, composer, XVII, a 14-7
  critical note, b 17
  German opera, b 16-7
  imperial service, a 17
  infantile travels, b 14-5
  Italian travels, a b 15
  marriage, b 16
  Requiem, a b 17
  service of Colloredo, bishop, b 15-6
—— (Clementi), V, a 720; (Don Juan), VII, b 309; (Hasse), XI, a 456; (Hummel), XII, *b* 371; (Music), XVII, b 97 note, a 98 note, b 101, b 103, *a* b 104, a 105, *a* 106; (Pianoforte), XIX, *a* 81, a 87; (Salieri), XXI, b 228; (Weber), XXIV, a b 494; (Winter), a 647
MOZDOK, town, XVII, b 17-8; (Terek), XXIII, *a* 203
Mozeyrah, island (Arabia), II, a 205
MOZLEY, James Bowling, theologian, XVII, a 18
Mozuffernugger. See MUZAFFARNAGAR
Mozufferpore, district. See MUZAFFARPUR
mPande, chief (Zululand), XXIV, a b 868
Mpongwa, tribe (Gaboon River), X, a 5; Dictionary of, VII, b 167
Mren, city (Transcaucasia), XXIII, a 547
Mr. H., farce (Lamb), XIV, b 235
Mrichchhakatiká, play (Sanskrit), XXI, a 299, note; (Drama), VII, b 343
Mroo, river (Burmah, British), IV, b 499
Mrs. Veal, Defoe's (Drelincourt), VII, a 401
Msandarusi, tree (Zanzibar), XXIV, a 807
Msta, river (Russia), XXI, b 80; (Tver), XXIII, b 714
Mstislaff of Kieff, prince (Russia), XXI, a b 98
Mtesa, king of Uganda (Nile), XVII, *a* 518; (Uganda), XXIII, a 765
mTetwa, tribe (Zululand), XXIV, a 868
MTSENSK, town, XVII, a 18
Mtzhet, town (Transcaucasia), XXIII, b 547
Mtzkheta, town (Georgia), X, *a* 388, b 389
Mtzkhethos, patriarch (Georgia), X, a 388
Mūb (Hindustani Literature), XI, *b* 755
Muahhidin, sect (Druses), VII, a 418
Múallakat. See MOʻALLAKAT
Muanda, town (Loango), XIV, b 749
Muawwiyah, governor. See Moʻawiyeh
Mubárakpur, town (Azimgarh), III, b 146
Much Ado about Nothing (Shakespeare), XXI, a 800, a 805
Mucianus, governor of Syria (Vespasian), XXIV, b 207
MUCILAGE, XVII, a b 18; (Chemistry), V, b 502; (Gum), XI, *b* 243, *a* b 244; (Mallow), XV, a 338
Mucin (Histology), XII, *a b* 8; (Chemistry), V, b 502; (Nutrition), XVII, a 694, b 698
Muckish, mountain (Donegal), VII, *a* 313
Muckle wheel (Yarn), XXIV, b 766
Mucorini, sub-order (Biology), III, b 600; (Fungus), IX, b 729-30; (Reproduction), XX, b 438, *b* 440, *a* 442, a b 443, a 444; (Vegetable Kingdom), XXIV, a b 139
Mucor stalactites (Luray Cavern), XV, b 69
Mucous degeneration of protoplasm (Pathology), XVIII, b 398; glands (Digestive Organs), VII, a 193, b 195
—— membrane (Anatomy), I, a 743-4, *b* 745, a 757; (Digestive Organs) (Ill.), VII, b 192, b 193, *a* b 194, b 195, a b 196, *a* b 197, a 199, b 201; (Nutrition), XVII, *b* 687, *a* 688; (Respiration), XX, *a* 489; catarrhal (Pathology), XVIII, b 385; of tongue (Anatomy), I, *b* 786, a b 787
—— sarcoma, disease (Pathology) (Ill.), XVIII, b 375
Mucury, colony (Brazil), IV, b 211
Mucus of deep-sea fish (Ichthyology), XII, a 722; secretion of (Ichthyology), b 676-7; (Nemertines), XVII, a 337
Mud baths (Crimea), VI, a 518. See Arenation, Peat bath, Sand bath
Muda, river (Malay Peninsula), XV, b 323
Mudar gum (Gutta Percha), XI, b 303
Mud-cones (Geology), X, b 224
—— -fish (Ichthyology), XII, a b 726
Mudge, Thomas, inventor (Watch), XXIV, *a* 418
Mudgee Jacinth, XIII, b 541, a 542
Mudikán range (Kúrdistán), XIV, a 157
Muditā-bhāvanā, meditation (Buddhism), IV, b 390
Mud-lavas (Geology), X, a b 223
—— -lumps, Mississippi (Geology), X, b 260
Mudra Rakshasa (Drama), VII, b 343-4; (Sanskrit), XXI, a 300, note
Mud-stone (Geology), X, b 212, a 297; (Westmorland), XXIV, b 542, a 543
—— test of wave depths (Harbors and Docks), XI, b 407-8
—— volcanoes (Geology), X, b 223; (Kyouk-Hpyu), XIV, b 163
Muela de San Juan, mountain (Teruel), XXIII, b 215
Mueller. See Müller
Muffle Furnaces (Ill.), IX, b 740; (Assaying) (Ill.), II, b 34-5; (Zinc), XXIV, a *b* 824, a 825
Mufflon. See Moufflon
Muffs (Costume), VI, a 421
Mufti, official (Caliph), IV, a 626; (Sunnites), XXII, b 696, a 699
Mugá, silk, XXII, b 66, b 70-1; (India), XII, b 790; worm (Lakhimpur), XIV, b 225
Mugan plateau (Transcaucasia), XXIII, *a* 546
"Mug Eime," lap dog (Ireland), XIII, a 252
Mugeto, Saracen chief (Pisa), XIX, a 128
MUGGLETON, Lodowick, fanatic, XVII, b 18
Mughals, people (Hindustani Literature), XI, b 753, *b* 757; (India), XII, *a* 784, b 833-5; (Lahore), XIV, b 214-6; (Meerut), XV, a b 835; coins of Delhi (Numismatics), XVII, b 679; decline of empire (Aurungzebe), III, a 87; land system of (India), XII, b 808-9. See MONGOLS
Mughla, town (Caria), V, a 91
Mughus, plant (Alps), I, b 556
Mugilidæ, family (Ichthyology), XII, b 715, b 729; (Mullet), XVII, b 24
Mug Núadat (Ireland), XIII, a b 251, b 252
Mug of Beer (Hooch), XII, a 148
Mugojar hills (Turgai), XXIII, b 667, a 668; (Ural Mountains), XXIV, *a* 9; (Uralsk), b 10
Mungonia, Porta, gate (Rome), XX, *a* 831
Muhammad. See Mahmúd, Mahomet, Mehemet, Mohammed
Muhammed I., sultan (Turkey), XXIII, b 682-3
—— II., the conqueror, sultan; (Bellini), III, a 472; (D'Aubusson), VI, *a* 734; (Greece), XI, b 107, *a* 108, *a* 110; (Hungary), XII, a b 382; (Roumania), XXI, a 24; (Turkey), XXIII, b 683, *a* 698
—— III., sultan (Turkey), XXIII, b 685
——, sháh (Persia), XVIII, a 661-2
—— Allah-ed-Deen, shah, Khuarezm (Jenghiz Khan), XIII, b 633-4
—— Ali of Arcot, nawáb (Clive), VI, b 9-10; (India), XII, b 839-40
—— Ghori (India), XII, b 831, a 832
—— Hasan Khán, Afghan chief (Persia), XVIII, b 654-5
—— Khudábanda, sháh (Persia), XVIII, b 648
—— Kuli Kutab Shah (Hyderabad), XII, a 445
—— Tughlak, sultan (Ibn Batuta), XII, b 642-3; (India), a *b* 832
Mühlberg, battle of, 1546 (Germany), X, *b* 447; 1322 (Louis IV.), XV, b 18
Muhlenberg, William Augustus, divine, *b.* 1796, *d.* 1877 (Hymns), XII, b 630
MUHLHAUSEN, town, XVII, b 18. See MULHAUSEN
Muh-wang, emperor (China), V, b 558
Muilrea, mountain (Ireland), XIII, b 220; (Mayo), XV, a 657
MUIR, John, philologist, XVII, b 18-9; (Mythology), a 160 note; (Sanskrit), XXI, a 286 note, b 300
Muircertach, lord of Dublin (Ireland), XIII, b 260
——, MacNeill, king (Ireland), XIII, a 258
Muiredhach Albanach, poet (Celtic Literature), V, a 272
Muirhead method of cable working (Telegraph), XXIII, *a* 133
Muirtown (Canal), IV, b 695
Muízuddin, Ghúrí, sultan (Ghazni), X, *a* 502; (Ghúr), a 509

Mujtehid, official (Shi'ites), XXII, a 699
Mukabalah, tax (Egypt), VII, a b 682
Mukasa, god (Uganda), XXIII, b 765
Mukattam, mountain (Egypt), VII, b 668
Mukhavetz, river (Kobrin), XIV, b 135
Muki, district (Sumatra), XXII, a 672
Mukowkis, John, general (Egypt), VII, a *b* 649, note
Mukrab, title (Yemen), XXIV, *a* 777
MULA, town, XVII, a 19
——, pass (Cutch Gundava), VI, a 646
Mulahacen, mountain (Andalusia), II, b 11; (Spain), XXII, b 308
Mulaingiri, mountain (Kádúr), XIII, b 824
Mulattoes, hybrids (Arabia), II, b 218; (Negro), XVII, b 328
Mulatto tree (Botany), IV, a 86
MULBERRY, tree, XVII, a b 19; (Afghânistân), I, a 209; (Greece), XI, b 79; (Horticulture), XII, a b 282; (Silk), XXII, *b* 64
—— stage (Embryology), VIII, b 150. See Morula
Mulching (Horticulture), XII, a 216
Mulde, river (Elbe), VII, a 717; (Saxony), XXI, *b* 372, b 373
Muldrow's hill (Kentucky), XIV, a 43, a 44
MULE, hybrid, XVII, b 19–21; (Horse), XII, b 179; (India), b 791; (Mancha), XV, a 466; trade in (Bolivia), IV, b 14
——, coin (Numismatics), XVII, b 645
——, machine (Cotton) (Ill.), VI, b 440–3; (Wool) (Ill.), XXIV, b 693–4
Muley, Abd el-Melik (Portugal), XIX, b 561, a b 562
—— Ahmed ibn Abdallah (Portugal), XIX, b 561, a b 562
—— Edris, town (Morocco), XVI, b 860
—— Saw, XXI, a 359, note, *a* 360
Mulgrave, earls of (Buckinghamshire), IV, b 376
—— archipelago (Caroline Islands), V, b 111
Mulhall's statistics (United States), XXIII, a 831
MULHAUSEN or Mühlhausen, town, XVII, b 21–2; (Switzerland), XXII, *a* 825, a 829, a 830, b 831, a 833
—— gate (Germany), X, a 403
MULHEIM-AM-RHEIN, town, XVII, a 22
MULHEIM-AN-DER-RUHR, town, XVII, a 22
Mulita, armadillo (Mammalia), XV, a 391
MULL, island, XVII, a b 22; (Argyllshire), II, a b 439, *a* 440; (Scotland), XXI, *a b* 544, a 545, a 550
—— of Cantyre (Whirlpool), XXIV, a 572
Mullaghearn mountains (Tyrone), XXIII, b 759
Mullan pass (United States), XXIII, b 847
Müllenhoff, Karl, philologist (Germany), X, a 464
Müller, Adam (Political Economy), XIX, a b 402
——, August, naturalist (Lamprey), XIV, b 250
——, C., editor (Scylax), XXI, a 601
——, C. H., author (Nibelungenlied), XVII, b 489, note
——, Carl Rudolph, mathematician (Tables), XXIII, b 12
——, Ferdinand von, baron, botanist (Australia), III, a b 96; (Western Australia), XXIV, a 536
——, Friedrich, ethnologist (Hottentots), XII, *b* 326, note; (Soudan), XXII, b 291 note
——, Friedrich Max, orientalist (Barlaam), III, a b 324; (Finland), IX, b 191; (Georgia), X, a 389; (Greece), XI, a *b* 113, a *b* 114; (Hindustani), a 751; (Law), XIV, b 363; (Mythology), XVII, b 144–8, a 157, a *b* 160 notes, a b 161, note, b 164, note; (Religions), XX, b 371, b 375, *b* 377, a 378, b 383, *a* 384; (Sanskrit), XXI, a 288 note, b 289 notes, a 290 note, a 291 note, a 292 note, a 294 note, b 297, a b 305 notes, b 306 notes; (Soudan), XXII, b 291 note; (Theism), XXIII, b 254, a b 256, a 265; (Tibet), a 368 note; (Titles of Honor), b 445, note. See List of Contributors
——, Fritz, zoologist (Amphibia), I, b 657, b 658; (Crustacea), VI, a b 565, note, b 566, b 568, note, a 569, a b 570, *a b* 571, *a b* 572, *a b* 573, notes, b 574, *a* b 575, a *b* 576, *a* 577, a 579, *b* 589; (Hydrozoa), XII, b 584, a 593, b 597; (Zoology), XXIV, a b 850, b 856
——, George, philanthropist (Plymouth Brethren), XIX, *b* 250; his orphanage (Bristol), IV, b 317
Muller, George, traveller (Borneo), IV, b 53
Müller, Gerhard Friedrich, historian (Schlözer), XXI, *a* 434
——, Hermann, biologist (Zoology), XXIV, b 856
——, Johann, astronomer. See REGIOMONTANUS
MULLER, Johannes, physiologist, XVII, b 22–3; (Anatomy), I, a 717; (Animal Kingdom), II, *b* 47; (Clapaède), V, b 699; (Embryology), VIII, b 153; (Ichthyology), XII, b 670–1; (Ornithology), XVIII, a 30, b 31–2, a b 33 notes, a 44; (Parasitism), b 263; (Pathology), a 389; (Reptiles), XX, *a* 450, *b* 452–3; (Schwann), XXI, a *b* 481; (Tapaculo), XXIII, a 54; (Zoology), XXIV, b 845, a b 847, b 849, b 854, a 855
MULLER, Johann von, historian, XVII, b 22; (Germany), X, a 486; (Switzerland), XXII, a 837; (Tell), XXIII, *b* 171
——, Johannes, pharmaceutist, XVII, a 23
——, Johann Heinrich Jakob, physicist (Geysers), X, b 497–8
——, John, artillerist, *d.* 1784, XVII, a 23
——, Julius, theologian (Dogmatic), VII, a 289, note, *a* 292, note, b 296
——, J. H. T., *Logarithmen* (Tables), XXIII, b 17
MULLER, Karl Otfried, historian, XVII, a b 23; (Archæology), II, a 302, a 303; (Family), IX, *a* 21; (Hellanicus), XI, a b 566
——, Lucien, philologist (Rutilius), XXI, a 122
——, Otto Friedrich, naturalist (Brachiopoda), IV, b 172, a 174; (Dredge), VII, b 398
——, Peter Erasmus, antiquary (Hamlet), XI, a 379
——, P. L. S., naturalist (Ornithology), XVIII, a 11
MULLER, William James, painter, XVII, b 23–4
Mulleriacea, family (Mollusca), XVI, a 711
Muller's experiment in respiration (Vascular System), XXIV, b 111
——, quicksilver agometer (Electricity), VIII, a 43
MULLET, fish, XVII, a b 24; (Ichthyology), XII, b 702, b 703, a 727
——, the (Heraldry), XI, b 628
Mullidæ, family (Ichthyology), XII, a 716, b 718, a 727
MULLINGAR, town, XVII, b 24; (Westmeath), XXIV, a b 541
Mullion (Architecture), II, b 411; mediæval (Building) (Ill.), IV, b 436
Mull of Cantyre (Whirlpool), XXIV, a 572
Mullus, genus (Ichthyology) (Ill.), XII, a 675, b 703, a 716, b 717, a 727
Mulomedicina (Veterinary Science), XXIV, a 214
MULREADY, William, painter, XVII, b 24–5
—— envelopes (Post-Office), XIX, b 602, note
Mulsant, Martial Étienne, naturalist, (Humming-Bird), XII, b 372, note
Mulsum, drink (Honey), XII, a 141
Multái, town (Betul), III, b 535, a 536
MULTÁN or Mooltan, district, XVII, a 25–6; (Dalhousie), VI, b 684; (Punjab), XX, *b* 112, *b* 114, *b* 115, *a* 116, b 117, a b 118; city, XVII, a 26; battle of, 327 B.C. (India), XII, b 826; war of 1848 (Edwardes), VII, *b* 596; (Hushiarpur), XII, b 418
Multazam, praying space (Mecca), XV, b 679
Multeka, code (Turkey), XXIII, a 696
Multiple of Electric unit, VIII, b 18
—— angles, formulæ (Trigonometry), XXIII, a 600; arc (Electricity), VIII, a 41
—— integrals (Infinitesimal Calculus), XIII, b 61–3; in local or mean values (Probabilities), XIX, a 805
——, least common (Arithmetic), II, b 464
MULTIPLE POINDING, law-term, XVII, a 26; (Interpleader), XIII, b 203
—— working (Telegraph), XXIII, b 133–4
Multiplication (Algebra), I, a 451, a 459–62; arithmetical (Napier, J.), XVII, a 186, *a* 190, a b 191; compound (Arithmetic), II, b 463, b 468–9; of fractions (Algebra), I, a 470; (Arithmetic), II, a 465, a b 466; of surds (Algebra), I, a 472; table (Napier, J.), XVII, b 189–90; (Tables), XXIII, a 11, a 12
——, floral (Botany), IV, a b 116
Multiplices, Inter, brief (Vatican Council), XXIV, a b 121, a 122
Multiplier (Galvanometer) (Ill.), X, a b 45, b 46, a *b* 47
Multiradiate spicules (Sponges) (Ill.), XXII, a b 432, a b 433
Mulucha or Muluva, river (Mauretania), XV, *b* 643, a 644; (Morocco), XVI, b 856, a 858; (Numidia), XVII, b 642, a 643
Mumba Mulyaka, missionary (Laccadives), XIV, a 184
Mummius, Lucius Achaicus, consul (Greece), XI, a 97; (Rome), XX, b 772; (Spain), XXII, a 321
Mummolinus, St., bishop (Latin), XIV, b 340
MUMMY (Ill.), XVII, a 26–8
  bibliography, b 28
  Egyptian discoveries, b 27–8
  embalming, b 26–7
  purpose of embalming, a b 26
  sarcophagi and cases, b 27

—— (Canary Islands), IV, a 703; (Egypt), VII, b 626, a 670; (Embalming), VIII, a b 146; (Funeral Rites), IX, b 725; (Jewellery), XIII, b 686; (Mammoth Cave), XV, a 456; case of Menkaura (Egypt), VII, b 635; cloths (Dyeing), VII, a b 493
——figures (Pottery and Porcelain), XIX, b 620, a 621; (Wig), XXIV, b 591
—— Wheat, XXIV, b 562
MUMPS, disease, XVII, b 28–9
Mumu, tale (Russia), XXI, b 116
Mun, Thomas, publicist (Political Economy), XIX, a 270
Munch, Andreas, author (Norway), XVII, a b 605
——, Peter Andreas, historian (Norway), XVII, b 606; (Scandinavian Languages) XXI, a 382 note, b 384, b 386 notes, a 388
Münchausen, Gerlach Adolph, baron von, curator (Universities), XXIII, *b* 903, a 996

MUNCHAUSEN, Hieronymus Karl Friedrich, baron von, philopseudes, XVII, a 29
Münch-Bellinghausen, Eligius Franz Joseph, baron, playwright (Germany), X, b 487
München, city. See MUNICH
MUNCIE, city, XVII, b 29
Mundane Era of Antioch, (Chronology), V, b 620
Mundavars, tribe (India), XII, a 816
MUNDAY, Anthony, author XVII, b 29; (Drama), VII, b 371
Münden, town (Hanover), XI, b 298, b 299. See MINDEN
Mundic, mineral (Pyrites), XX, b 134. See Marcasite
Mundlah, town. See MANDLA
Mundu, village (Java), XIII, b 616
Mungelí, town (Biláspur), III, *b* 580
Mungir, district. See MONGHYR
Mungo, Saint. See KENTIGERN
——, fabric (Wool), XXIV, a 696
Mungofa, tortoise. See GOPHER
Mungoos, quadruped (Cockatrice), VI, b 90; (Ichneumon), XII, b 665; (Mammalia), XV, a 443
Mungu Sarduik, mountain (Irkutsk), XIII, b 282
Muni-btsau-po, king (Tibet), XXIII, a 367
MUNICH, city (Plan), XVII, a 30-3
  art collections, b 30-1
  buildings, b 30-1
  history, b 32-3
  institutions, b 31-2
  modern changes, a 30
  parks, a b 32
  population and industries, b 32
  site and metamorphosis of, a 30
  streets, main, a b 30
—— (Academy), I, a 70; (Cemetery), V, *a* 288; (Cornelius), VI, *a b* 374, note; (Jameson, A.), XIII, a 572; (Libraries), XIV, a 526, a 538, b 548; (Observatory), XVII, a 733; (Technical Education), XXIII, b 116, a 117; (Schnorr von Karolsfeld), XXI, b 434; (Schwanthaler), a 482; (Teniers), XXIII, *b* 190; (Universities), a 904, *a* b 905. See Pinakothek
Munich Codex (Hungary), XII, a 391
Municipal administration (Paris), XVIII, a 283-6
—— contracts (Trade Unions), XXIII, a 532
—— Corporations (Alderman), I, b 418; (England), VIII, b 197; reform (England), b 327
—— Corporations Act, VI, b 385; XVII, *b* 33
—— debt (New York), XVII, a 476; (Paris), XVIII, a b 284; (Taxation), XXIII, b 926-7
—— Elections, VIII, a b 4
—— government (Brazil), IV, a b 212; (India), XII, b 811-2, b 813; (Italy), XIII, a b 480, a b 482, a 483, b 486, a 487; (London), XIV, a 827-9, b 862; (Milan), XVI, a 305; (Philadelphia), XVIII, a 752; (Prussia), XX, a 23; Roman (Greece), XI, a b 99; (Spain), XXII, b 322; (Russia), XXI, b 77; (St. Louis), b 193-4; (Spain), XXII, a 336, a 337; (Tokio), XXIII, a 461. See Cities, Towns
—— growth, attempted restriction of (London), XIV, a 858, a 859
—— places of detention (Reformatories), XX, a b 902
—— prerogatives (London), XIV, b 828, b 862
—— Taxation, XXIII, a b 925, a b 926. See TAXATION
MUNICIPALITY, XVII, a 33-7
  authorities, a 37
  constitution of borough, b 33-4
  definition, a 33
  France, a 35
  franchise of, a b 36
  judicial order, b 34
  mediæval, English, b 36
  Europe, continental, b 34-5
  origin of English borough, a b 33, b 35-6
  United States, a 37
Municipia or towns (Rome), XX, b 764, a 785, a b 786; imperial (Rome), a 794
Mu'ním Khan, general (Gaur), X, a 102
Munipore, state. See MANIPUR
Múnis, eunuch (Mohammedanism), XVI, a 609
Munk, Salomon, orientalist (Avicebron), III, b 132, a 133; (Jews), XIII, b 693, b 697
Munk on sensory areas of brain (Physiology), XIX, a 48, b 50
Munkacsi-Berat, philologist (Ural Altaic), XXIV, *b* 545
Munku-Sardyk, mountain (Siberia), XXII, a 7, b 10 note
Munna-Mäggi, plateau (Livonia), XIV, *a* 730
Munnargudi, town (Tanjore), XXIII, a 52
Münnich, Burkhard Christoph, count, statesman (Greece), XI, b 108-9
Munnions or muntins (Building), IV, b 438
Munro, Alexander, Jr., naturalist (Ichthyology), XII, b 669
——, Hector, general (Baxar), III, a 393; (Hyder Ali), XII, b 443; (India), b 841
——, Hugh Andrew Johnstone, critic (Catullus), V, a b 218, a 219; (Latin Language), XIV, b 333, b 334, a 339 note; (Lucretius), XV, a 53, a 57
——, Sir Thomas, governor (India), XII, a 810
Munster, colonies of (Ireland), XIII, a 271; kingdom of (Ireland), a b 251, b 258-60; presidency (Ireland), b 270; province (Ireland), a b 250, a 251; (Raleigh), XX, a b 274; farming (Ireland), XIII, 227-9, 230, 231; landowners in (Ireland), 231; population (Ireland), a b 242
Munster, Book of (Celtic Literature), V, b 268
MUNSTER, town, XVII, a b 37; (Galen), X, a 22; (Mennonites), XVI, b 15, a b 16; Congress of, 1643, VI, a b 239. See Treaty of Westphalia; insurrection (Anabaptists), I, b 690
——, Ernst Friedrich, count von (Hanover), XI, a 400
MUNSTER, Sebastian, Hebraist, XVII, b 37-8; (Dialling), VII, b 132
Münsterthal, district (Switzerland), XXII, *b* 827, a 830
Muntaner, Ramon, chronicler (Spain), XXII, a b 377
Muntâr, hill (Gaza), X, a 112
Muntasir, prince (Sámánid Dynasty), XXI, a 254
MUNTJAK or Mintjac, deer (Ill.), XVII, a b 38; (Deer), VII, a 24
Müntz, biographer (Raphael), XX, a 287, b 289 note, *a* 295
Muntz's metal (Brass), IV, a 196; (Copper), VI, b 310, b 311
Munychia, port (Artemis), II, b 562; (Athens), III, b 5; (Attica), a b 53
MUNZER, Thomas, anabaptist, XVII, b 38-9; (Anabaptists), I, a 690; (Luther), XV, *a* 78
MUNZINGER, Werner, traveller, XVII, a 39
Muonio Elf or river (Sweden), XXII, a 774
Mur, river (Styria), XXII, *b* 646; valley (Alps), I, a 545, a 546, a *b* 553, *a* b 554
Murad, sultans. See AMURATH
—— Bey (Ali Bey), I, a 505; (Egypt), VII, *a b* 659
—— of Corsica, bey (Tunis), XXIII, a 661
MURÁDÁBÁD or Moradabad, district, XVII, a b 39; town, b 39
Murad-dagh, mountain (Asia Minor), II, b 617
MURÆNA, eel (Ill.), XVII, b 39-40
Murænidæ, family (Eel), VII, *b* 600; (Ichthyology), XII, a 698, a 704, a 716, b 718, a 719, a 723, a 733
Mural circle (Graduation), XI, b 25-6; (Transit Circle), XXIII, *b* 547-8
MURAL DECORATION (Ill.) (Plate I), XVII, a 40-54
  hangings (Ill.), b 43-5
  Oriental reliefs, a 40-1
  PAINTING, b 45-54
    Egyptian, a 45-6
    English, b 50-4
    Etruscan, a b 46
    Greek, b 46-7
    Italian, Christian (Ill.), b 49-50
    mediæval, continental, a b 54
    mediæval, English (Ill.), b 50-2
    methods of execution, b 52-3
    Oriental, b 54
    Roman, b 47-9
    technique, Roman, a 49
MURAL DECORATION, *continued*
  printed hangings, b 44-5
  reliefs in stone, a 40-1
  Sgraffito, b 43
  stamped leather, b 43
  stucco (Ill.), b 42-3
  tiles (Ill.), b 41-2
  veneer, marble, b 41
—— (Fresco), IX, b 676, a 677, a 681; (Herculaneum), XI, b 647; (Kaulbach), XIV, b 18-9; (Tempera), XXIII, b 173-4; (Tiryns), a 436; (Venice), XXIV, a b 162, a b 163-4, a 166, b 167; at Delphi (Polygnotus), XIX, b 431; Solomon's (Temple), XXIII, a b 182. See FRESCO, MOSAIC, Stereochromy, TILES
MURANO, island, XVII, a 54-5; (Glass), X, a *b* 581, b 582, b 583; (Mirror), XVI, a 523; (Mosaic), a 882
Murányi Venus (Gyöngyösi), XI, b 313; (Hungary), XII, b 391
MURAT, Joachim, king of Naples, XVII, a 55-6; (Cienfuegos), V, b 677; (Napoleon I.), XVII, b 216, b 218, b 219-20
MURATORI, Ludovico Antonio, scholar, XVII, a b 56; (Italy), XIII, a 522; (Modena), XVI, a b 565; Muratorian Canon, V, b 9; (Acts of the Apostles), I, a 115; (Bible), III, b 557; (Gospels), X, b 727, a b 728-9, a 730, a 747
Murazzi, sea-wall of the (Chioggia), V, a 586
Murbach, abbey (Unterwalden), XXIII, *a* 915
——, Charles, physician (Pathology), XVIII, a 414, a 417 note
MURCHISON, Sir Roderick Impey, XVII, b 56-8; (Africa), I, b 225; (Geology), X, *a* 290, *a* b 291, b 292, *b* 293, a b 295, a *b* 297, *a* 298, b 301, b 302, *a* b 303, a 305
——, fall (Nile), XVII, b 518
——, range (Transvaal), XXIII, a 550
——, river (Western Australia), XXIV, a b 535
Murchisonite (Mineralogy), XVI, a 437
Murchú Maccumacthein, biographer (Ireland), XIII, a b 253
MURCIA, province, XVII, a b 58; (Spain), XXII, a b 309, *a b* 310, *a* b 311, *b* 312, *a b* 313, b 314, a *b* 315, *b* 316, b 320, a 361; Aragonese conquest of (Spain), a 332; city, XVII, b 58
Murcielagos Cave, V, a 234
MURDER, XVII, b 58-9; (Appeal), II, b 183; (Crime), VI, b 515-6; (Criminal Law), b 520, a 521; (Homicide), XII, a 128; (Medical Jurisprudence), XV, b 790; (Ordeal), XVII, b 842; in Athens (Areopagus), II, *b* 424, a b 425; casuist doctrine (Liguori), XIV, a 646

- MURDOCK, William, inventor, XVII, a 60; (Gas and Gas-Lighting), X, *b* 79; (Watt), XXIV, a 436; his engine (Steam-Engine), XXII, b 523, a 542
- MURE, William, historian, XVII, a 60; (Sappho), XXI, *a* 318
- Muree Hills (Rawál Pindí), XX, b 310, a 311
- Mures, group (Mouse) (Ill.), XVII, a 11-2
- Muret, vale of (Grandimontanes), XI, b 42
- MURET or Muretus, Marc Antoine, humanist, XVII, a b 60; (Latin), XIV, a 343; (Montaigne), XVI, a 794; (Scaliger), XXI, a 379, a 380
- Murex, genus (Mollusca), XVI, a 673, b 674
- Murfreesboro, battle of, 1863 (United States), XXIII, b 826, a 837
- MURGER, Henry, author, XVII, b 60-1; (France), IX, b 596
- Murghab, river (Afghânistân), I, *a* 204, a b 217; (Merv), XVI, a b 46, note, b 47, b 48; (Transcaspian), XXIII, *b* 543, *b* 544, *a* 545
- Muriacite (Mineralogy), XVI, a 417
- Muriam-lá, pass (Tibet), XXIII, b 363, a 364
- Muriate of potash (Potassium), XIX, a b 608, a 611
- Muriatic acid (Chlorine), V, b 589; (Gay Lussac), X, b 110; gas (Poisons), XIX, a 291
- Muridæ, family (Mammalia), XV, b 420, b 423-4
- Murie, James, ornithologist (Motmots), XVII, b 9; (Mouse-Bird), b 12; (Ornithology), XVIII, a 43, note; (Tody), XXIII, a 460
- MURILLO, Bartolomé Esteban, painter, XVII, a 61-3
  - academy period, a b 62
  - death and descendants, b 62-3
  - fair pictures to Madrid, b 61
  - parentage and training, a b 61
  - Seville, work and styles of, b 61-2
  - works and remains of, a 63
- —— (Schools of Painting), XXI, a 460, a 464, a *b* 466-7; (Velazquez), XXIV, b 147, a 148; his Mulatto. See Gomez Sebastian
- Murinæ, sub-family (Mammalia), XV, *a* 424; (Mouse), XVII, b 10-12
- Muris, Jean de, musician and mathematician (Pianoforte), XIX, a 73
- Muristan Kalaún, Cairo (Mosque), XVI, a b 893
- Muritz, lake (Mecklenburg), XV, b 785; (Germany), X, b 403
- Murner, Thomas, satirist (Germany), X, *a* 472
- MUROM, town, XVII, a b 63; principality (Russia), XXI, b 97, a 98
- Muropua kingdom (Africa), I, a 236
- Mur Payen, wall (Vosges), XXIV, a 319
- MURPHY, Arthur, dramatist, XVII, b 63; (Drama), VII, b 378
- ——, Denis Jasper, pseudonym. See MATURIN, C. R.
- ——, Brownell, painter (Jameson, A.), XIII, b 571
- ——, J. J., scientist (Evolution), VIII, a b 670
- MURPHY, Robert, mathematician, XVII, b 63
- MURRAIN, disease, XVII, b 63-8
  - anthrax, a 64-5
  - blackquarter, a 65
  - communication of, b 63-4
  - foot and mouth disease, b 66-7
  - grapes or tuberculosis, a 67
  - inoculations, a b 65, b 66
  - pleuro-pneumonia, a b 66
  - prevention, b 67-8
  - rinderpest, b 65-6
- —— (Agriculture), I, a b 271; (Potato), XIX, b 613
- Murray, mountain (Quebec), XX, b 171
- MURRAY RIVER, XVII, b 68; (Australia), III, b 91, *b* 93, a b 94, a 98; (New South Wales), XVII, b 418, a 419; (South Australia), XXII, *b* 297, *a* 298, b 299; (Victoria), XXIV, a b 233; (Western Australia), a b 535
- ——, Andrew, naturalist (Africa), I, b 231
- MURRAY or Moray, James Stuart, earl of, XVII, b 68-9; (James I., England), XIII, b 567; (Knox), XIV, a 134; (Mary Stuart), XV, b 601, *a b* 602, a b 603, *a b* 605, *a b* 606; (Scotland), XXI, a b 523, a 524, a *b* 525, *a* b 526, a *b* 527-8
- ——, James A. H., philologist (Germany), X, a 462, a 467 note. See List of Contributors
- MURRAY, John, chemist, XVII, a 69
- ——, John, naturalist (Geology), X, *b* 255; (Pacific Ocean), XVIII, a b 133
- ——, John, preacher (Universalists), XXIII, a 886, b 951-2
- ——, Lindley, grammarian (American Literature), I, b 633
- MURRAY, Sir Robert, president R. S., XVII, a b 69
- ——, William. See MANSFIELD, Earl of
- —— or MacMurry, father of John, publisher (Falconer), IX, b 6
- MURRAY COD (Ill.), XVII, a b 68
- MURREE, sanatorium, XVII, b 69
- Murri of Gippsland, race (Prometheus), XIX, a 830
- Murronites. See Moronites
- Murrumbidgee, river (Australia), III, a b 91, b 93; (Murray River), XVII, b 68; (New South Wales), b 418, a 419
- MURSHIDÁBÁD, district, XVII, b 69-70; city, a 70; (Hastings), XI, *a* b 458
- Murshid Kuli Khán, nawáb, (India), XII, a 840
- Mursinna's *Encyclopædia Theologica* (Theology), XXIII, b 291
- Murtadá, sheikh (Lane), XIV, b 282-3
- Murten, town. See Morat
- Murtizábád, town (Hala), XI, a 339
- Murton Pike, peak (Westmorland), XXIV, a 542, a 543
- Mürtschen Stock, mountain (Glarus), X, b 566
- Murundza, town (Mokshan), XVI, b 630
- Murusi, princes (Roumania), XXI, *b* 25
- Murva, plant (Hemp), XI, b 577
- Murviedro, town (Saguntum), XXI, a 157
- Murzuk or Morzuk, town (Africa), I, *a* 238; (Fezzan), IX, a *b* 112, *a b* 113, a 114; (Sahara), XXI, a 158
- MUS, family, XVII, a b 70
- ——, genus (Mammalia,) XV, a 422, a 424; (Mouse) (Ill.), XVII, a 11-2; (Rat), XX, *a b* 300
- MUS, Publius Decius, consul, XVII, a b 70; Publius Decius, junior, consul, b 70
- Musa, cell-surfaces (Histology), XII, a 16
- ——, mount or Jebel Musa (Sinai), XXII, *b* 96
- ——, plant (Hemp), XI, b 577; (Manila-Hemp), XV, b 495; (Plantain), XIX, a b 187
- —— ben Casi, king (Spain), XXII, b 327
- —— ben Nosair, conqueror of Africa (Arabia), II, a b 225; (Mohammedanism), XVI, a b 596; (Spain), XXII, a 324
- *Musæus*, elegy on Pope (Mason), XV, a 617
- MUSÆUS, poets, XVII, b 70; (Greece), XI, b 101, a 122; (Onomacritus), XVII, a 796; (Orpheus), XVIII, a 55
- Musa Hadi, caliph (Haroun al-Raschid), XI, *a* 436, note; (Mohammedanism), XVI, a b 603
- Musalman dynasties (Hindūstānī), XI, a 750, a 753
- Musalmáns (Bengal), III, *b* 486-7, a b 491; (India), XII, b 784. See Mohammedanism
- Musaphia, Binyamin, rabbi (Talmud), XXIII, b 42 note
- *Musarion*, poem (Wieland), XXIV, b 590
- MUSAUS, John Karl August, satirist, XVII, b 70
- Musca domestica (House-Fly), XII, b 330
- Muscæ volitantes, disease (Ophthalmology), XVII, b 805
- Muscardine, disease (Silk), XXII, a 65
- Muscardinus, genus (Mammalia), XV, b 423
- Muscari, plants (Horticulture), XII, a 259; (Hyacinth), *a* 436
- Muscarin, drug (Physiology), XIX, a 34
- MUSCAT or Mascat, town, XVII, b 70-1; (Arabia), II, a 205, b 207, a 213, a 214, a 222, a 229; possessions (Africa), I, b 242, a 241; (Zanzibar), XXIV, a 807
- MUSCATINE, city, Iowa, XVII, a 71
- Muschelkalk, series of rocks, (Geology), X, b 313
- Muschenbroek, Peter van, physicist (Pyrometer), XX, b 139
- Muschicongos, tribe (Congo), VI, *a* 237
- Musci, group (Liverworts), XIV, a b 725; (Muscineæ), XVII, a 71, a 73
- Muscicapidæ, family (Fly-catcher), IX, b 307; (King-Bird), XIV, b 83, note
- Muscicole Lichens, XIV, b 565
- Muscidæ, family (Diptera), VII, a b 223
- MUSCINEÆ, plants (Ill.), XVII, a 71-81
  - development, b 72-3
  - Liverworts (Ill.), a 73-6
    - asexual generation, b 75-6
    - classification, b 76
    - foliose forms, a b 74
    - riella form, a b 73
    - sexual organs, a b 75
    - structure, stem, b 74-5
    - thallose forms, b 73-4
    - vegetative organs, a 73-5
  - MOSSES (Ill.), b 76-81
    - classification, a 80-1
    - development of oosphere, b 78-80
    - functions, economical, b 76-7
    - protonema, propagation by, a 79-80
    - sexual generation, a 77-8
    - sexual organs, b 78
  - position of, b 71
  - propagation, b 71-2
  - retrospect, a 81
  - structural parts, b 71
- ——, (Botany), IV, b 94; (Zoology), XXIV, a b 140
- Muscles (Anatomy) (Ill.), I, b 704, b 731-8, b 752-3; (Ape), II, b 143-4; (Arachnida), b 238-9, b 243-4, b 249, a 257; (Biology), III, b 592, a 593; Birds, b 627-8; (Ornithology), XVIII, b 43, a 44; (Brachiopoda), IV, a 174-5; (Horse), XII, b 181-2; (Ichthyology), a b 687; (Insects), XIII, a 152; (Leech), XIV, a 401; (Magnetism, Animal), XV, a b 284; (Nemertines), XVII, a b 337; (Nutrition), b 699-700; (Planarians), XIX, a 182; (Reptiles), XX, b 468-70; (Respiration, a b 490, b 492-3; (Rotifera), XXI, a 10; (Tape Worm), XXIII, a 56; (Trematoda), *a* 570
- ——, adductor (Mollusca), XVI, a b 712
- ——, arterial (Anatomy), I, *a* 795
- ——, cardiac (Vascular System), XXIV, b 106-7, a 119
- ——, atrophy of (Paralysis), XVIII, a 261; (Pathology), b 401-2
- ——, coat of duodenum (Digestive Organs), VII, a 196; of stomach, a b 195

Muscles, contractions of (Physiology), XIX, a 23
——, co-ordination of movement (Physiology), XIX, b 44-5. See Ataxy
——, deep-sea fish (Ichthyology), XII, a 722
——, degeneration of (Pathology), XVIII, a 399
——, ear- (Anatomy), I, a b 783, a 784
——, expression- (Anatomy), I, b 716, a 734
——, eyeball- (Anatomy), I, b 782
——, holothuridea (Echinodermata), VII, a b 554
——, intestinal coat of (Digestive Organs), VII, a 199
——, metabolic heat (Pathology), XVIII, b 404, note, a b 407
——, molecular changes of (Nutrition), XVII, a b 698; (Physiology), XIX, a b 23
——, movement (Physiology), XIX, a 12
—— of pharynx (Digestive Organs), VII, b 193; (Voice), XXIV, a b 294
——, reflex action (Physiology) (Ill.), XIX, a 33
——, repair of (Pathology), XVIII, b 373
——, song (Ornithology), XVIII, b 32
——, tissue of (Anatomy), I, b 739; (Histology), XII, *b* 6-7, a 7, a 10-1
——, walls of heart (Anatomy), I, b 791-2
——, tongue (Anatomy), I, b 786
Muscle shoals (Tennessee), XXIII, b 193
Muscogee tribes (Indians), XII, *a* 868, a 872
Muscologia Britannica (Hooker), XII, b 156
Muscovado Sugar, XXII, a 659
Muscovite, mineral (Geology), X, a 203; (Granite), XI, a 44; (Mineralogy) (Ill.), XVI, b 384, a 393, b 430-a 431
Muscovy, principality (Russia), XXI, a 98, a *b* 99
—— Company (Hudson, H.), XII, *a* 346; (Polar Regions), XIX, b 329
—— duck (Poultry), XIX, b 667
"Muscular sense" (Mechanics), XV, a 755; (Touch), XXIII, b 513
Musculi papillaris, cardiac (Anatomy), I, *a* b 791, a 792; pectinati (Anatomy), b 790, a b 791
Musculo-spiral nerve (Anatomy), I, b 762
Museler's safety lamp (Coal), VI, a 68
Musen Almanach, I, a 521; (Chamisso), V, a 333; (Goethe), X, *a* 652; (Schiller), XXI, a 414
Müsen ore, Westphalia (Iron), XIII, a 294
Museo Borbonico, museum (Naples), XVII, b 196
—— Kircheriano (Plate), XIX, a 190; (Rome), XX, a 859
—— Lapidario (Modena), XVI, a 565
Muses, the, XVII, a b 81; (Helicons), XI, a 563; (Siren), XXII, b 105
Mushed, town. See Mashhad
Museum, Albany (Cape Colony), V, a 44
——, Alexandria (Macedonian Empire), XV, b 145
——. Ashmolean (Gutta-Percha), XI, a 302 note; (Oxford), XVIII, b 98; (Parker), a 304
——, Asiatic (St. Petersburg), XXI, b 778
——, Basel (Holbein), XII, *b* 56, *a b* 57
——, Berlin, III, b 515; (Antonello), II, a 122; (Gaddi), X, *b* 6; (Giustiniani), b 558; (Hooch), XII, *a* 148; (Kaulbach), XIV, a 19; (Metal-Work), XVI, b 79, a 80; (Moretto), b 847; (Plate), XIX, a 192; (Schirmir), XXI, b 415
——, Biscari (Catania), V, b 190
——, Blackmore (Salisbury), XXI, a 229
——, Boyman's (Rotterdam), XXI, a 14
——, British (Amazons), I, b 576; (Birch), III, a 604; (Deutsch), VII, a 116; (Douce), b 325; (Drawing), a 390; (Filigree), IX, b 143, a b 144; (Gray, J. E.), XI, a b 69; (Halicarnassus), a 343; (Hamilton, Sir W.), a 376; (Meteor), XVI, a 118; (Mosaic), b 876, a 877, b 878; (Niello), XVII, *b* 507, *a* 508; (Plate), XIX, a b 190, b 191, b 192, a 195, a b 196. See British Museum
——, Brussels, IV, a 364; (Belgium), III, a 450; (Transverse Flute), XXIII, b 552
——, Buckland, IV, b 377
——, Bulak (Egypt), VII, b 667; (Jewellery), XIII, b 686; (Mariette), XV, *a* 550; (Mummy), XVII, b 26, b 27, a 28; (Plate), XIX, b 189
——, Caerleon, IV, b 561; (Wood-Carving), XXIV, *a* 679
——, Cassel, V, b 159
——, Cluny, Paris (Metal-Work), XVI, a 82; (Meteor), a 118; (Paris), XVIII, b 287; (Plate), XIX, a 194
——, Copenhagen, VI, a b 305; (Thorwaldsen), XXIII, b 335
——, Crozatier (Puy), XX, a 125
——, Dresden, VII, b 404, a 405. See Dresden Gallery
——, Dublin (Plate), XIX, a 197
——, (Edinburgh), VII, a 577; (Jameson), XIII, a 573
——, Farnese, IX, b 33-4
——, Fitzwilliam (Cambridge), IV, b 645; (Libraries), XIV, *b* 519
——, Gallo-Roman (Paris), XVIII, b 287
—— of Geology, London (Libraries), XIV, b 516, a 545
——, Haarlem, XI, *a* 318; (Hals), a b 357
—— d'Histoire Naturelle (Jussieu), XIII, a 798
——, Jermyn Street (Pottery and Porcelain), XIX, a 664
——, Kertch, XIV, b 54
——, Lahore (Punjab), XX, *b* 115, b 116
—— Leverianum (Ornithology), XVIII, b 10, note
Museum Mazzuchellianum (Ramusio), XX, b 281, note
Museum, Munich, XVII, a b 31
——, Narbonne, XVII, a 236
——, National. See National Museum
——, Norwich, XVII, b 609
——, Odessa, XVII, a 746
——, Perpignan, XVIII, a 568
——, Plantin at Antwerp, XIX, a 188
——, Poitiers, XIX, a 294
——, St. George's (Sheffield), XXI, b 822
——, St. Germain en Laye, XXI, a 179
——, St. Petersburg, XXI, b 203; (Academy), I, a 71
——, St. Quentin (Tour), XXIII, a 518
——, Seville, XXI, a 743
——, Sèvres (Pottery and Porcelain), XIX, a 656, a 658. See Sèvres
——, South Kensington. See South Kensington
——, Woodwardian (Cambridge), IV, b 645
Museums (Amsterdam), I, b 684; (Anatomy), a 718; (Arms), II, a b 489; (Belgium), III, a b 450; (Berlin), b 515; (Copenhagen), VI, a b 305; (Darmstadt), a 729; (Florence), IX, a 291; (Geneva), X, a b 132; (Glasgow), b 574, a 575; (Haarlem), XI, *a* 318; (Hague), *a* 333; (Hamburg), a b 362; (London), XIV, b 845, b 846-7; (Lyons), XV, a b 113; (Moscow), XVI, a 885, a 886; (New York), XVII, b 478-9; (Paris), XVIII, a 286, a b 287; (Rome), XX, b 858, a b 859; (St. Gall), XXI, a 178; (St. Malo), b 195; (St. Petersburg), b 203; (Stockholm), XXII, b 588; (Toulouse), XXIII, a 516; (Venice), XXIV, b 168; (Vienna), b 237-8; Antiquities (Archæology), II, b 295
Museum Tradescantium (Gutta-Percha), XI, a 302 note; (Humming-Bird), XII, a 371
Musgrylin, deanery (Ireland), XIII, b 254
Mushet process (Iron), XIII, b 341, a 342, b 351; -Heath process (Iron), a 352
Mushinga or Lokinga, mountains (Zaire), XXIV, b 801
Mushitzki, Lucian, bishop (Servia), XXI, b 723
Mushketoff, geographer (Turkestan), XXIII, b 671, a 674, a 675 note, b 681
Mushroom (Ill.), XVII, b 81-4
    champignon (Ill.), b 83
    morel, b 84
    places of growth, a 81-2
    poisonous plants, b 82-3
    structure (Ill.), a 82
    varieties, b 82-3
—— (Botany) (Ill.), IV, b 75, a 145, a b 147; (Fungus) (Ill.), IX, b 730, a 731; (Horticulture), XII, b 296; (Ketchup), XIV, b 56; (Maritime Province), XV, a 556; house (Horticulture) (Ill.), XII, b 231-2; tissue of (Histology), a 16
—— Anchor (Ill.), II, b 9
Music, XVII, 84-113
    history, 84-108
        antiphony, b 86-7
        astronomy, analogy of, b 85
        Bach, b 97-8, b 98-9
        Beethoven, a b 104
        canon and fugue, a 90
        chorals, b 92-3
        chords of 11th and 6th, a b 99
        church music, a b, 87, a b 88, b 91-3, b 95 6
        composers, first scientific, a 97-9
        modern, a 104-5
        compositions in harmony, early, a b 90
        concerted music, a b 101
        conservatories and academies, first, b 90 1
        counterpoint, b 89, a b 94
        Day's treatise, b 107-8
        definition of subject, a b 84
        dominant seventh, b 92
        epitome, b 108
        Gluck, b 101-2
        Greek, b 85-7
        Gregorian, b 87
        Handel, a b 97, b 98-9
        harmonics, a 96-7
        harmony, rise of, b 88 9
        Haydn, b 103
        instrumentation, a b 105
        intervals, a b 85
        Italian school, b 91, b 94, b 99, a b 100, a 106
        madrigals, rise of, a b 91
        measure, a b 89
        minnesängers, a 91
        motet, b 89
        Mozart, b 103-4
        opera, b 94-5, b 99-100, a b 101, a 106
        comic, b 105-6
        oratorio, a 92, a 107
        origin, a 85
        pianoforte, a 101
        Puritan influence, a b 95
        Pythagorean system, b 85, a 86
        recitative and lyrical drama, a 93-5
        Roman, early, a b 87
        secular, 16th century, a b 91
        scales, Greek, a b 86
        symphony, b 102-5
        temperament, a b 98
        Tartini tones, b 100-1
        tonic, sol-fa, a b 107
        Wagner, b 106-7

MUSIC, *continued*
  SCIENTIFIC BASIS, 109-13
    consonance and dissonance, b 112-3
    frequency, determination of, a b 111
    intensity, b 111-2
    pitch, a 109-10
    quality, a 112
    perception of pitch, b 109-10
    range of sounds, a 110-1
    regularity, a 109. See Oratorio, Opera, etc.
——, Academies of, English, I, a 76; Acoustics of, b 100-1; in Æsthetics, a b 194, a b 196; Albrechtsberger's works on, b 403; American (Foster), IX, b 419; of antiquity (Aristides Quintilianus), II, a 445; Arabian, b 231-2; among the Blind, III, b 720; Belgian Conservatories, a 450; in Brazil, IV, b 214-5; Byzantine (Greece), XI, a 131; for carillon clavecin (Bells), III, a 465
——, church or sacred, XVII, a b 88, b 91-3, b 95-6, a 98; (Aldrich), I, b 420; (Allegri), a 512; (Boyce), IV, a 165; (Bull), b 463; (Eccard), VII, a 538; (Depres), b 88; (Farrant), IX, a 39; (Flavian I.), b 255; (Guido), XI, a 229; (Novello), XVII, a 621; (Palestrina), XVIII, a 183-5; (Purcell), XX, a b 119-20; (Scotland), XXI, b 564; (Sarti), b 329-30; (Tallis), XXIII, b 38; (Zarlino), XXIV, a 809-10; *History of* (Gerbert), X, a 398
——, classic (Apollo), II, a 163; (Lyre), XV, a b 116; (Boeckh), III, a 740; (Boetius), b 744; (Euclid), VIII, a 577; (Greece), XI, a b 124; (Phrygia), XVIII, a 867, note; (Sophocles), XXII, a 235; (Terpander), XXIII, a 207
—— Copyright in compositions, VI, a b 319, *a* b 320, b 323; (Protection), XIX, a 931
—— in Denmark, VII, a 80, b 82; Egyptian, a b 626, a 630
——, English (Anthem), II, b 91; (Ford), IX, a 349; (Gibbons), X, a b 520; (Greene), XI, b 145; (Handel), b 387-90; (Horsley), XII, b 213; (Jackson), XIII; a b 545; (Lawes), XIV, a b 370; (London), a b 846. See Music, Church
——, Fetis's works on, IX, b 104; as a Fine Art, *b* 171, *b* 175, a *b* 176, a b 177; Forkel's works on, a 365; in Foundling Hospitals, b 427
——, German (Bach), III, b 169; (Fux, J. J.), IX, a 752; (Hauptmann), XI, b 466-7; (Haydn), b 481-3; (Hoffmann), XII, b 47-8; (Hummel), b 370-1; (Richter), XX, b 561; Schumann on, XXI, b 480; (Wagner), XXIV, a 336; *Dictionary of Musicians* (Gerber), X, b 397. See Composers by name
—— of Gipsies, X, a 550, a 551
——, Hebrew (Psalms), XX, a 36, b 37, a *b* 38, a 39
——, Herodotus's legend (Ariadne), II, a 442
——, Hindu (Sanskrit), XXI, a 308
Music, Histories of (Pianoforte), XIX, b 73, a 87
——, *History of* (Burney), IV, b 503-4
—— of Hottentots, XII, b 324
——, Hucbald on, XII, a 343
——, Italian (Carissimi), V, b 94; (Durante), VII, b 477; (Scarlatti), XXI, b 392; (Wagner), XXIV, a 336. See Opera, and Composers by name
——, Javanese, XIII, a 615
—— at Leipsic, XIV, b 340
——, Libraries of, XIV, b 516, note
——, mythical origin of (Orpheus), XVIII, b 54; physiological effects of (Vascular System), XXIV, a 118; pleasure from (Psychology), XX, b 73; relation of poetry to, XIX, a b 272-3, a 274; remedial effects of (Tarantula), XXIII, a 66; Rousseau's influence on French, XXI, b 30 note; Russian (Glinka, M. I.), X, a b 606
——, Shakespeare's works on, XXI, a 806
——, Siamese, XXI, a 893
——, theory of (Pythagoras), XX, a 145, a 147; (Rameau), a b 277; (Schopenhauer), XXI, b 472
Music, Treatise on (Ptolemy), XX, b 96
Music, troubadour (Provençal Literature), XIX, b 900
——, Welsh (Celtic Literature), V, b 280; (Eisteddfod), VII, a b 686, a 687
Musica, poem (Iriarte), XIII, b 281
—— *Instrumentalis* (Pianoforte), XIX, a 74
Musical Anemometer, II, a 24
MUSICAL BOX, XVII, a b 113; trade (Geneva), X, a 133
—— glasses (Harmonica), XI, a 430
Musical Grammar (Callcott), IV, b 627
—— instruments of 18th century (Prætorius), XIX, a 677
—— intensity, XVII, b 111-2
—— notation (Guido), XI, a 229; (Hucbald), XII, a 343. See Notation
—— sounds (Ear), VII, b 512, *b* 513; range of (Music), XVII, a 110-11
—— strings (Acoustics), I, a 104-5; vibration of (Mechanics), XV, b 749
Music and Musicians, Dictionary of (Pianoforte), XIX, b 78, a 87
Musica Speculativa (Pianoforte), XIX, a 73
Music halls (Theatre), XXIII b 247
Musick's Monument (Pianoforte), XIX, b 78, a 87
Music of Ireland, Ancient (Harp), XI, *b* 437
Music of the desert (Peru), XVIII, b 683
—— of the future, XVII, b 101-2
Musimon, wild sheep. See Mufflon
Musion, wild cat (Heraldry), XI, b 623
MUSK, perfume, XVII, b 113-4; (Incense), XII, a 757; (Musk-Deer), XVII, b 114; (Musk-Rat), b 115, a 116; (Perfumery), XVIII, b 536, note, a 538; (Petrel), b 725; (Smell), XXII, b 177, a 178; adulteration of (Perfumery), XVIII, b 537
MUSK-DEER, XVII, a b 114; (Deer), VII, a 24; (Mammalia), XV, a 354, a 436
Musk-Duck, VII, b 437
MUSKEGON, city, Michigan, XVII, b 114-5
Muskelunge, fish (Pike), XIX, b 97
Muskerry (Ireland), XIII, b 252
Muskets (Arms, etc.), II, *a* 489; assemblage in making (Whitney, E.), XXIV, b 897
Muskoka, district (Canada), IV, a 684; river (St. Lawrence), XXI, b 187
Musk Okra (Gumbo), XI, a 245
MUSK-OX (Ill.), XVII, a b 115; (Greenland), XI, *a* 151; (Sheep), XXI, *b* 821
MUSK-RAT (Ill.), XVII, b 115-6; (Fur), IX, b 735, b 736; (Mammalia), XV, a 424; (Mythology), XVII, a 156, b 163
Musk root, drug. See SUMBAL
Muslih-uddin, Musharrif-uddin ben, poet. See SA'DI
Muslims, people (Egypt), VII, a b 627, a 629. See Mohammedanism
MUSLIN, fabric, XVII, a b 116; (Cotton), VI, a b 444; (Dacca), b 667; (Mosul), XVI, b 895
Musnad, writing (Yemen), XXIV, a 777
Musonius Rufus, Caius, philosopher (Stoics), XXII, b 601, a 602
Musophagidæ, family (Touraco), XXIII, a b 518
Múspilli (Germany), X, a 463, a 468
Musquash, animal (Mammalia), XV, a 424; XVII, b 115-6
Mussato, Albertino, historian (Drama), VII, b 360; (Italy), XIII, b 516
MUSSCHENBROEK, Pieter van, physicist, XVII, b 116; (Electricity), VIII, b 6; (Magnetism), XV, a 227, *a* b 238, b 242
MUSSEL, mollusc, XVII, b 116-7; (Fisheries), IX, a 232; (Hibernation), XI, b 704; (Leeuwenhoek), XIV, a b 412; (Mollusca) (Ill.), XVI, b 711-20; (New-Guinea), XVII, b 398; (Pearl), XVIII, a 457, b 458-9
MUSSELBURGH, town, XVII, b 117-8; (Edinburgh, County), VII, b 569, a 571
MUSSET, Alfred de, poet, XVII, a 118-9; (France), IX, b 594, a 595; (Dudevant), VII, a 440; (Vigny), XXIV, b 243, a 244
——, Paul de, biographer, XVII, a 118, *a* b 119
Mussis, Gabriel de, lawyer (Plague), XIX, a b 174
Mussite (Mineralogy), XVI, a 434
Mussooree, town (Dehra Dun), VII, *b* 30, a 31
Mussurongos, tribe (Congo), VI, b 236, a b 237
Mustafa I., sultan (Turkey), XXIII, *a* 686
—— II., sultan (Turkey), XXIII, b 687
—— III., sultan (Turkey), XXIII, b 688
—— IV., sultan (Turkey), XXIII, b 689-90
—— Kara, vizier. See Kara
Must in Wine-making, XXIV, b 243, a 244
Mus-tagh mountains (Tibet), XXIII, b 360, a 361
Mustaalee bi-lláh Abu-l-Kasim Ahmed, el, caliph (Egypt), VII, b 652
Mustansir bi-lláh Aboo-Temeen Mo-add, el, caliph (Egypt), VII, b 651-2
MUSTARD, XVII, b 119-20; (Adulteration), I, *a* 156; (Agriculture), b 335, a 341; (Fermentation), IX, b 84; (Horticulture), XII, a 297; oil (Oils), XVII, a 765; trade (Tsaritsyn), XXIII, a 638
Mustarebs. See Mostareb
Mustela, genus (Ferret), IX, a 96; (Mammalia), XV, a 447; (Marten), a 583-4; (Weasel), XXIV, b 488
Mustelidæ, family (America), I, a 599; (Mink), XVI, b 496; (Ratel), XX, b 300, a 301
Mustel, organ (Harmonium), XI, *a* 432, a 433
Mustelus, genus (Parasitism), XVIII, b 265; (Shark), XXI, a 811
Musteraca, intercalation (Chronology), V, b 622
Musters, George Chaworth, explorer (Geography), X, a 174
Mustoxidi, Andreas, Greek scholar (Ionian Islands), XIII, b 212
Musurgia, sive Praxis Musicæ (Pianoforte), XIX, a 74, a 87
Mut, goddess (Egypt), VII, b 622-3
Mutanebbee, poet. See MOTANABBI
Mute Swan, XXII, a b 769
Mutes, glides from and to (Speech-Sounds), XXII, a b 397
Mutilation (Breeds), IV, a b 220, a 222; (Medical Jurisprudence), XV, b 790; as punishment (Torture), XXIII, b 494-5
Mutillidæ, family (Hymenoptera), XII, b 609, *b* 611
Mutina, city (Modena), XVI, b 565

MUTINY, XVII, a 120; Act, English (Army), II, b 499; (Court-Martial), VI, *b* 459, a 461; (Militia), XVI, b 313; (Military Law), a b 308
Mutius, C., architect (Archæology), II, a 321
Muton, state and town (Celebes), V, a 252
Mutowwas, censors (Arabia), II, b 217
Mutton-Bird (Shearwater), XXI, b 818
—— Tallow, XXIII, b 39–40
MUTTRA, district, XVII, a b 120; town, b 120
Mutule (Architecture), II, b 411; Greek (Architecture), b 354
Mutual insurance, fire (Insurance), XIII, b 169; life (Insurance), b 180
—— potential energy (Magnetism), XV, b 230–1, a 235
Muya, mountains (Siberia), XXII, a b 7; and river (Transbaikalia), XXIII, *b* 541, a 542
Muydir, plateau (Sahara), XXI, b 157, b 158
Muyscas or Moscas (America), I, b 609; (Religions), XX, a 377
Muyun-kum, steppe (Syr-Daria), XXII, *a* 859
MUZAFFARGARH, district, XVII, b 120–1; (Punjab), XX, *b* 112, a 114, a 115
MUZAFFARNAGAR, district, XVII, a 121; town, a b 121
MUZAFFARPUR, district, XVII, b 121; town, b 121
Muzak, Madame, novelist (Slavs), XXII, a b 162
Muzarabic rite. See Mozarabic
MUZIANO, Girolamo, painter, XVII, b 121
Muztagh, mountains (Gilgit), X, b 532; (Hindú Kúsh), XI, a 748; (Kuen-lun), XIV, b 153
Muzzle-loader (Gunnery), XI, a 273, 275, a 279–81; rifling (Gunmaking), b 262–3
Mya wady (Sahara), XXI, b 158
—— arenaria, shell-fish (Mussel), XVII, b 117
Myacea, family (Mollusca), XVI, a 711
Myall wood (Acacia), I, a 67
Myan-oung, town (Henzada), XI, b 604
Mycale, mount (Ionia), XIII, a 211; (Samos), XXI, b 261; battle of, 480 B.C. (Greece), XI, a 90; (Samos), XXI, a 262
Mycelium of fungi (Botany), IV, a 96; (Fungus), IX, b 727; (Parasitism) (Ill.), XVIII, b 270, a b 271, a b 272; of mushroom (Horticulture), XII, b 296; (Mushroom), XVII, a 82, a 83
MYCENÆ, city, XVII, b 121–2; (Archæology), II, *b* 302; (Architecture), b 352–3; (Greece), XI, a 83; (Jewellery) (Ill.), XIII, b 686, a 687; (Metal-Work), XVI, b 79; (Phœnicia), XVIII, a b 819; (Phrygia), a 865; (Sword), XXII, b 839–40; (Wood-Carving), XXIV, a 680
Mycerinus, king (Egypt), VII, a b 635, b 669–70; (Mummy), XVII, b 27; (Mythology), *b* 157; pyramid of (Architecture) (Ill.), II, a b 338
Mycetes, genus (America), I, b 598; (Ape), II, a 135, a 137, b 138, *a b* 139, a 140, a *b* 141, *b* 142, *b* 144, a *b* 145, a *b* 146
Mycetozoa, class (Protozoa) (Ill.), XIX, *a* 854, b 858, a 859, *a* b 860, b 862–4
Mycoderma, form (Fermentation), IX, *b* 86; (Schizomycetes), XXI, a 420
Mycology (Fungus), IX, b 726
Myconius, Oswald, divine (Luther), XV, b 84; (Reformation), XX, b 344
Mycoprotein (Schizomycetes), XXI, a 418, b 420
Mycteria, genus of birds (Jabiru), XIII, b 539
Mydán-i-Shah, square (Ispahán), XIII, a 404
Mydaus, genus (Mammalia), XV, b 446
MYDDLETON, Sir Hugh, engineer, XVII, a b 122; (Cardiff), V, b 83; (Middlesex), XVI, b 291
Mydorge, Claude, mathematician (Descartes), VII, a b 101, b 104
Mydriatics, drugs (Narcotics), XVII, a 237
Myelin, clay (Mineralogy), XVI, b 442
MYELITIS, disease, XVII, b 122
Myeloid bone-tumor (Pathology) (Ill.), XVIII, a b 378; cells (Anatomy), I, a 750
Myeng-mateng, mountain (India), XII, b 769
Myeoplaxes (Anatomy), I, b 750
Myer, Albert J., general, *b.* 1827, *d.* 1880 (Meteorology), XVI, b 163; (Signal Service), XXII, *a* 903, a 904, a 905
Myers, F. W. H., critic (Wordsworth), XXIV, a 711
Mygalides (Arachnida), II, a 258
Mygdonia, town (Mesopotamia), XVI, a 53
Mygdonius or Gozan river (Baghdad), III, *b* 199
Mylæ, city. See MILAZZO
Mylapur, suburb (Thomas), XXIII, b 328, a 329
Mylasa, city (Mausolus), XV, *a* 650; tomb (Architecture), II, a 362
Myliobatidæ, family (Ichthyology), XII, b 724; (Ray), XX, b 312–3
Mylitta, Assyrian goddess (Mithras), XVI, a 554. See Biltis
Mylius, John Christopher, librarian (Bibliography), III, a 569
Myliusidæ, family (Sponges), XXII, b 439
Myln, Walter, martyr (Scotland), XXI, a 523
Mylodon, fossil (Mammalia) (Ill.), XV, a b 388
Mylopotamo, river (Crete), VI, a 504
Mymar, insect (Hymenoptera) (Ill.), XII, a b 606, a 608, a 610
Mymensing, district. See MAIMANSINH
Mynas, Greek scholar (Babrius), III, *b* 157
My Novel (Lytton), XV, b 124
Mynster, Jakob Peter, theologian (Denmark), VII, b 80
Mynydd, hills (Brecon), IV, *a* 218; Dû, range (Carmarthen), V, b 101; Llangeinor, mountain (Glamorgan), X, b 564
Myocetes, cells (Sponges) (Ill.), XXII, a 435, *a* 436
Myodes, genus (Lemming), XIV, a 436; (Mammalia), XV, a 424
Myogale, moles (Mammalia) (Ill.), XV, a 351, b 356, b 407–8
Myographion, Du Bois-Reymond's (Physiology) (Ill.), XIX, b 29
Myolemma (Anatomy), I, a 753
Myology (Ichthyology), XII, a b 687; (Reptiles), XX, b 468–70, a 478; of Galen (Anatomy), I, b 704
Myona, removal of (Surgery), XXII, b 726
Myomorpha, group (Mammalia), XV, a 423
Myopia, disease (Ophthalmology), XVII, b 803, *b* 805, a *b* 807, *a* 809; (Spectacles), XXII, *b* 386, a 387
Myopotamus, genus (Mammalia), XV, b 425
Myopsidæ, sub-section (Mollusca), XVI, b 695
Myosin, organic product (Chemistry), V, b 502
Myosotis, genus (Forget-me-not), IX, b 364, *a* 365; (Horticulture), XII, a 259
Myotomes of fishes (Anatomy), I, a 739
Myo-woon, officer (Burmah), IV, a 494
Myoxidæ, family (Dormouse), VII, a b 319; (Mammalia), XV, b 420, a 422, a b 423
Myoxus, genus (Hibernation), XI, a 704; (Mammalia), XV, b 423
Myra, city (Numismatics), XVII, a 665; Theatre at (Ill.), XXIII, a 241; tomb at (Architecture) (Ill.), II, b 361
Myrdin or Myrdhinn. See Merlin
Myremill farm (Agriculture), I, a b 306, a b 307, b 308
Myriaglossa, group (Mollusca), XVI, b 663
Myriangiacei, family (Lichens), XIV, b 556, b 565
MYRIAPODA (Ill.), XVII, b 122–8
  bibliography, b 127–8
  classification, b 122–3
  eutracheata defined, a 124
  myriapoda (Ill.), a 124–8
    chilopoda (Ill.), b 126–7
    development of, b 127
    diplopoda (Ill.), b 125–6
    structural character, a 124–5
  peripatidea or protracheata (Ill.), a 123–4
—— (Arachnida), II, b 237, a 238; (Arthropoda), II, b 567; (Centipedes), V, b 295–6; (Insects), XIII, a 147, b 150, a 153
Myricaria, genus (Tamarisk), XXIII, a b 45
Myricin, chemical product (Wax), XXIV, a 485
Myrina, ancient town (Lemnos), XIV, b 437
Myriobiblion (Photius), XVIII, b 832, a 834
Myriocephalus, battle of, 1176 (Greece), XI, a 106; (Manuel I.), XV, b 512
Myriothela (Hydrozoa), XII, b 582
Myristica, genus (Nutmeg), XVII, a 685
Myristic acid (Wax), XXIV, a 486
Myristin, extract (Nutmeg), XVII, b 685
Myrmecobiinæ, sub-family (Mammalia), XV, b 383
Myrmecobius, genus (Mammalia) (Ill.), XV, a 381, b 382, b 383; (South Australia), XXII, a 299
Myrmecophaga, genus (Llama), XIV, a 745; (Mammalia), XV, a b 388
Myrmecophagidæ, family (Mammalia), XV, *a* 387, *a* 388–9
Myrmekoleon, animal (Physiologus), XIX, a b 10
Myrmeleo, genus (Ant) (Ill.), II, a 88
Myrmica, insect (Hymenoptera), XII, b 608, b 609, b 611
Myrmidones, people (Æacus), I, b 162
Myrobalans, fruit (Leather), XIV, a b 382
MYRON, sculptor, XVII, a 128; (Archæology), II, a 310; (Metal-Work), XVI, a 80
—— I., king (Sicyon, XXII), *b* 37
Myronate of potassium (Mustard), XVII, b 119
Myrosin, albuminoid body (Mustard), XVII, b 119
MYRRH, gum, XVII, a 128–9; (Incense), XII, a 757
Myrtaceæ, plants (New South Wales), XVII, a 420
MYRTLE, shrub, XVII, b 129; (Botany), IV, a b 78, b 98
—— Berry Wax, XXIV, a 485, a 486
Myrtus, genus (Myrtle), XVII, b 129
Mys, silversmith (Archæology), II, b 316
My Schools and Schoolmasters (Miller, Hugh), XVI, a 331, a 332
Myshkin, town (Yaroslavl), XXIV, b 767, a 768
MYSIA, province, XVII, b 129–30; (Asia Minor), II, a 622
——, in Europe. See MŒSIA
Mysis, genus (Crustacea), VI, b 568, b 570, a *b* 571, b 573 note, b 582
MYSORE, state, XVII, b 130–1; (Kádúr), XIII, b 824–5; (Sandalwood), XXI, b 268; conquest of (India), XII, b 842, a b 843, a 846; (Wellington), XXIV, *a* 522

- Mysore, kingdom (Hyder Ali), XII, a 443; (India), a 779, a 780, a b 782, note, a 785, a b 786, a 787, *b* 788, b 789, a b 790, *b* 791, b 793, a 799, *a* 806
- ——, city, XVII, b 131
- Mystacinæ, group of bats (Mammalia) (Ill.), XV, b 414, b 418
- Mystacocœtes, sub-order (Mammalia), XV, b 395, a *b* 396, *a* b 397-8; (Whales) (Ill.), XXIV, b 551, a 552-3
- MYSTERIES, Greek, XVII, b 131-6
  - Christian apologists, b 131
  - commingled myths, b 134-5
  - educational character, a b 133
  - Homeric Hymn, a b 134
  - initiation, b 133-4
  - Lobeck, authority of, a 132
  - meaning of ceremonies, b 135-6
  - saving effect of, b 132-3, b 133-4
  - ritual, a b 132, a b 134
  - unification of myths, a b 135
- —— (Cabiri), IV, *b* 551; (Eleusinia), VIII, b 119-20; (Mythology), XVII, *b* 158; (Phrygia), XVIII, b 867
- ——, New Testament (Scholasticism), XXI, a 446, a 447, b 448; (Toland), XXIII, a 463
- ——, plays (Coventry), VI, a 471; (Drama), VII, b 357, a 358; (France), IX, b 567, b 573; (Gringoire), XI, b 181; (Germany), X, a 471; (Italy), XIII, a 518; (Poland), XIX, a 312; (Provençal Literature), b 901; (Shakespeare), XXI, b 786-7. See Miracle plays, Moralities
- *Mysterious Mother* (Walpole), XXIV, a 355
- *Mystery of Edwin Drood* (Dickens), VII, b 154
- —— *of the Magian Kings* (Spain), XXII, a 367
- Mystic, lake (Oregon), XVII, b 845
- Mystical rites (Sacrifice), XXI, b 145-6
- Mysticetus, species (Whale) (Ill.), XXIV, a b 552, *a* 557
- MYSTICISM, XVII, a 136-42
  - authorities on, b 142
  - Bernard of Clairvaux, a 139
  - characteristics, a 136-7
  - Eastern systems, a b 137
  - Eckhart, a b 140
  - Erigena, b 138-9
  - "Friends of God," b 140-1
  - German Mystics, b 139-42
  - Neoplatonism, b 137-8
  - Nicolaus of Cusa, b 141
  - philosophy, modern, b 142
  - Reformation, a 141-2
  - Ruysbroeck, a 141
  - 13th century, b 139-40
  - various later forms, a b 142
  - Victorines, a b 139
- —— (American Literature), I, b 639, a 640; (Angelus Silesius), II, a 27; (Boehme), III, b 740-1; (Bonaventura), IV, a b 28; (Cusa), VI, a 643; (Eckhart), VII, b 556-7; (Germany), X, b 471; (Gichtel), a b 525; (Hegel), XI, a 552; (Helmont), b 569; (Heresy), a b 659; (Illuminati), XII, a 745; (Law, William), XIV, a 370; (Lollards), b 821; (Kempis), a 35; (Metaphysic), XVI, *a* b 87, a 93, b 95, a 105; (Millennium), a 327, b 329, a 330; (Neoplatonism), XVII, b 345, a 346, a b 348; (Nicholas of Basel), b 499; (Occam), a 739; (Scholasticism), XXI, a b 443, a b 444; (Schwenkfeld), a 485; (Spain), XXII, b 373-4; (Tauler), XXIII, b 88; (Theism), a 264; (Theosophy), b 298; (Theresa), b 302, a 303; (Very), XXIV, b 877-8
- ——, Mohammedan, XVI, a b 616; (Sunnites), XXII, a 697; (Theism), XXIII, b 261, note
- Mystic names (Magic), XV, a b 202; numbers (Magic), b 203
- —— politico - philosophy (Saint Martin), XXI, b 196
- Mythical Hermeneutics, XI, b 668
- —— sagas (Iceland), XII, a b 662
- Mytho, town (Saigon), XXI, b 160
- MYTHOLOGY, XVII, 143-65
  - African divine myths, a b 154
  - anthropological myths, a b 164
  - Aryans of India, b 158-60
  - astronomical myths, a b 164
  - Australian gods, b 153-4
  - author's theory, a 149 *sq.*
  - bibliography, b 165
  - cosmogonic myths, a 163-4
  - criticisms of Müller, b 146-8
  - definition of subject, a 143
  - Egyptians, a 157-8
  - Greek divine myths, b 144-5, b 146-7, a 160-2
  - heroic and romantic myths, b 164-5
  - Hesiod, b 161-2
  - historical resolution of, a 144
  - Homeric myths, b 160-1
  - Indra myth, b 159-60
  - intellectual condition of savages, a b 150
  - linguistic evolution of, a b 146, a 148
  - man's relation to the world, savage theory, a 151
  - Melanesian deities, b 154-5
  - Mexican and Peruvian Indians, b 156-7
  - Müller's theory, b 144-6
  - mythopœic age, b 145-6, b 147-8
  - North American Indians, b 155-6
- MYTHOLOGY, *continued*
  - philological ages, Müller's, a b 145, a b 147
  - Polynesian myths, a b 156
  - religious sentiment puzzled, a b 143
  - savage ideas of world, b 150-1
  - Scandinavian, a 162-3
  - Semitic influence on Egypt, b 157-8
  - Spencer's theory, a 148-9
  - survival theory, b 144, a 149-50
  - systems, explanatory, a 143-9
  - transmigration ideas, a 152-3
  - Vedic myths, b 158-9
- —— (Adam), I, b 125, a b 126, a 127; (Æsir), a 189-90; (Arabia), II, b 222; (Arthur), b 570; (Babylonia), III, b 167; (Baldur), a 238; (Brahmanism), IV, b 186-9; (Celtic Literature), V, a b 260, a b 269, a 277, a b 279, a b 282-3; (Creuzer), VI, b 508; (Deluge), VII, a b 50-1; (Drama), a b 351; (Echo), b 555; (Edda), a b 564-5; (Egypt), b 619-23; (Elephanta), VIII, a 119; (Ellora), a 140; (Ethnography), a 547-8; (Etruria), a 560; (Evemerus), b 644; (Fig), IX, a b 135; (Finland), a 190-1; (Fire), a b 199, b 201; (Folk-Lore), a b 313; (Freya), a b 682; (Furies), a 738; (Gaelic), X, b 9-10; (Germany), a 426; (Glaucus), a b 603; (Grimm), XI, a 178, b 179; (Hawaiian Islands), a 472; (Hesiod), b 694-5; (Himalaya), a 745; (History), XII, b 21; (Hyginus), b 603; (Hymns), a 612; (Iceland), a b 662; (Iris), XIII, a 282; (Jupiter), a 789-90; (Labyrinth), XIV, a b 180; (Latona), b 345-6; (Linus), a b 684; (Lycanthropy), XV, a b 91; (Lycaon), a b 93; (Lydia), a b 100; (Maia), a 296; (Malachi), a b 316 note; (Mandæans), a 475-7, a 478; (Mars), b 576-7; (Metaphysic), XVI, b 86; (Micronesia), b 267; (Monster), b 788; (Mexico), b 219; (Mordvinians), a 840; (Mural Decoration), XVII, a 48, b 49; (Neoplatonism), a 342, a 343, b 346; (Numismatics), a 644; (Names), a 176; (Niebuhr), b 505; (Œdipus), b 750; (Plato), XIX, a 221; (Pluto), a b 247; (Religions), XX, a b 380; (Saturn), XXI, b 335-6; (Semiramis) a 672; (Serapis), b 706-7; (Silenus), XXII, b 56; (Sphinx), b 413; (Stoics), b 598; (Styx), a b 47; (Tales), XXIII, b 32; (Zeus), XXIV, b 820-1
- Mythopœic period (Mythology), XVII, b 145, b 147
- *Myths*, Bohemian (Slavs), XXII, a 162
- Mytilacea, family (Mollusca), XVI, a 711; (Mussel), XVII, b 116-7
- Mytilene, island (Aqueduct) (Plate III), II, a 193. See LESBOS
- ——, city (Cleon), V, a 721; (Lesbos), XIV, a b 474; (Numismatics), XVII, a b 663
- Mytilus, sea-mussel (Mollusca), XVI, a 711, b 713, b 714; edulis (Mollusca), b 715
- Myt-nge, river (Ava), III, b 124
- Myton-Wyke, village (Hull), XII, b 355
- Myu, river (Akyab), I, a 388; (Arákán), II, a 268
- *Myvyrian Archaiology* (Celtic Literature), V, a 273, a 274, *b* 276, b 280, b 284; (Jones, O.), XIII, b 749
- Myxine, genus (Hag-Fish), XI, b 330; (Ichthyology) (Ill.), XII, a 694, a 698, a 705, b 716, a 717, b 719, a 723, b 733
- Myxinidæ, family (Ichthyology), XII, b 672, b 673, a b 689, a 690, b 696, b 697, a 698, *a* 716, b 719, b 733; (Smell), XXII, b 175
- Myxœdema, disease (Pathology), XVIII, a 393, a 394 note
- Myxoma, tumor (Anatomy), I, b 745; (Pathology) (Ill.), XVIII, b 375
- Myxomycetes, order (Biology), III, a 600; (Fungus), IX, a 727, a 734; (Yeniseisk), XXIV, a 780; (Vegetable Kingdom), *a* b 139; conjugation of (Histology), XII, b 15
- Myxopoda, genus of bats (Mammalia), XV, b 411, b 414, a 416
- Myxopods, group (Animal Kingdom), II, b 45; (Protozoa), XIX, b 857
- Myxospongiæ, class (Sponges), XXII, b 431, a b 437, a 439, b 444
- Myxosporidia, sub-class (Protozoa), XIX, a b 879, b 889
- Myxus, genus (Mullet), XVII, b 24
- Myzomela, genus (Honey-Eater), XII, *b* 142
- Myzostoma, entozoon (Parasitism), XVIII, b 263, b 264
- Mzensk. See MTSENSK
- Mzilikazi, chief. See Moselekatse

N, letter, XVII, a 165-6

- Na, god (Babylonia and Assyria), III, *a* 167
- Naab, river (Fichtelgebirge), IX, b 121
- Naamah (Lamech), XIV, a 239
- Naarden, destruction of (Holland), XII, b 78
- Naaseni, sect (Gnosticism), X, a b 626, *a* 627
- Nabalu mountain (Sabah), XXI, b 131
- Nabatæan or Nabathean Inscriptions, XIII, a 123; (Semitic Languages), XXI, *a* 680; verse (Arabia), II, a 231

NABATÆANS, people, XVII, b 166-7; (Mesopotamia), XVI, a 56; (Mohammedanism), a 581; (Palmyra), XVIII, a b 203; (Petra), b 718, note, a b 719; kingdom of Ishmael, XIII, b 396; (Syria), XXII, a 862
Nabathean. See Nabatæan
NABHA, state, XVII, a b 167
Nābhājī, writer (Hindustani Literature), XI, b 755
Nâbi, poet (Turkey), XXIII, b 698
Nâbî, title (Prophet), XIX, b 836, *a b* 837, a b 838
—— Effendi (Alchemy), I, *a* 411
Nâbighah, poet (Hamasah), XI, b 359; (Mo'allakát), XVI, b 560, a 561
Nabis, tyrant (Philopœmen), XVIII, a b 804; (Sparta), XXII, a 385
Nabob, title. See Nawáb
Nabonassar, Era of (Chronology), V, *a* 617, b 620
Nabonidus, Babylonia, king (Belshazzar), III, b 477, a 478; (Pilgrimage), XIX, a 100; (Theism), XXIII, b 256
Nabopolassar, king (Babylonia), III, *a* 163; (Persia), XVIII, a 574, a b 575
Naboth, story of (Kings), XIV, *b* 87; (Jezreel), XIII, a 700
Nabuco, Joachim, abolitionist (Slavery), XXII, a 151
Nábulus, city (Shechem), XXI, b 819-20
Nabu-nahid, king (Babylonia), III, *b* 163; (Persia), XVIII, b 577, b 578
Nachapostolische Zeitalter (Schwegler), XXI, b 483
Nachet's binocular Microscope (Ill.), XVI, b 284-5; combined Microscope (Ill.), a b 287-8; portable compound Microscope (Ill.), b 287-8
Nachmanides, rabbi (Ramban), XX, a b 276
Nachtigal, Gustav, explorer (Africa), I, a 223, b 224, b 233; (Borgu), IV, a 49; (Bornu), b 55; (Negro), XVII, b 327; (Tibbus), XXIII, a b 355; (Tripoli), b 611 note, b 612
Nachtlager von Granada (Kreutzer), XIV, b 148
Nacimiento, district (New Mexico), XVII, a b 410
——, town (Chili), V, a 536
Nacrite (Mineralogy), XVI, b 442
Nadar's gas-balloon (Aëronautics), I, b 173-4, a 175
Nadder, river (Wilts), XXIV, b 625
NADIM, bibliologist, XVII, b 167
Nadir Shah, Persia (Afghânistân), I, b 207, a 215; (Ardebil), II, b 422; (Baluchistan), III, b 259; (Delhi), VII, b 43; (India), XII, *a* 835; (Persia), XVIII, b 651-4; (Punjab), XX, a b 117; (Shi'ites), XXII, a 699; (Sistán), a b 109
——, Mirza, Afghan prince (Persia), XVIII, a b 660
NADIYÁ, district, XVII, b 167-8; town, *a* 168; (Gaur), X, *b* 101; rivers (Calcutta), IV, a 585; (Hooghly), XII, b 150; (India), a 795
Nadorite (Mineralogy), XVI, b 446
Nadula, god (Uganda), XXIII, b 765
NÆVIUS, Gnæus, poet, XVII, a 168-70; (Drama), VII, b 354, a b 355; (Ennius), VIII, a 398, a 399; (Latin Language), XIV, b 332; (Plautus), XIX, b 226, *a* 227; (Roman Literature), XX, b 736, b 737
NÆVUS, tumor, XVII, a 170; (Pathology), XVIII, a 376
Náf, river (Arákán), II, a 268; (Burmah), IV, *b* 497, *b* 499
Näfels, battle of, 1388 (Glarus), X, b 567; (Switzerland), XXII, a 823
NÁGÁ HILLS, district, XVII, a b 170; (India), XII, b 769, a 770
—— race (Assam), II, a 631; (India), XII, a 830; (Kashmír), XIV, a 15; (Oath), XVII, a 718; (Taboo), XXIII, a b 22
Nágánanda (Drama), VII, b 343; (Sanskrit,) XXI, b 299, note
Nagar, river and town (Gilgit), X, a *b* 533, a 534
Nagara, city (Hwen T'sang), XII, b 434
Nagarjuna or Nāgasena, teacher (Lāmāism), XIV, a 228
Nagas. See Naga race
NAGASAKI or Nangasaki, city, XVII, b 170; (Japan), XIII, b 580, *b* 582, b 587, *b* 589, *a* 594
Nāgasena. See Nagarjuna
Nag-chu, river (Tibet), XXIII, b 360
Nagelfue, rock (Geology), X, b 284
Nägeli, Karl Wilhelm, botanist (Hybridism), XII, *a* 442; (Morphology), XVI, a 868
——, naturalist (Schizomycetes), XXI, b 415, b 416, b 417, note, b 422, a *b* 423, note, a 424 note, a 425 note; (Variation and Selection), XXIV, a b 88, a 91
Nägelsbach, critic (Lamentations), XIV, b 241, a *b* 243
Nagidus, city (Numismatics), XVII, b 665
NAGÍNA, town, XVII, a 171; (Bijnaur), III, b 579
Nagnatæ, race (Sligo), XXII, b 169
Nagong-chu, river (Tibet), XXIII, a 362
NAGOYA, city, XVII, a 171
NÁGPUR, district, XVII, a b 171; (Gondwána), X, a 686; acquisition of (India), XII, a b 842, b 843-4, *a* 845, b 848; dynasty of (Hoshangábád), XII, a 312; town, XVII, b 171
Nag's Head, at ordination (Episcopacy), VIII, a 434; (Parker), XVIII, b 305
Nagy, Ignatius, humorist (Hungary), XII, b 394
Nagyagite, mineral (Gold), X, b 660; (Mineralogy) (Ill.), XVI, b 409
Nagy-Kanizsa, fortress, XIII, b 851
NAGY-KOROS, town, XVII, b 171
Nahan, town (Sirmúr), XXII, *b* 105
Naharina, district (Mesopotamia), XVI, b 51; (Syria), XXII, b 861
NAHARRO, Bartolomé de Torres, dramatist, XVII, b 171; (Drama), VII, b 363, note; (Spain), XXII, a b 370
Nahe, river (Oldenburg), XVII, a 779; (Prussia, Rhenish), XX, a 25; (Rhine), a 531
Nahhás, grammarian (Mo'allakát), XVI, b 559-60
Nahoa race. See Nahuas
Nahr-Malcha, canal (Babylonia), III, a 161
Nahuas, race (America), I, a *b* 618; (Circumcision), V, b 690; (Mexico), XVI, a 215, b 216, a 217
Nahuel-Huapi, lake (Patagonia), XVIII, a 358
NAHUM, prophet, XVII, b 171-2; (Israel), XIII, b 425 note
Naiads (Nymph), XVII, b 708
Naibod, Valentine, astrologer (Lilly), XIV, a b 649
Nai chai, opium dirt (Opium), XVII, *a* 817
Naidomorpha, genus (Worm), XXIV, *a* b 713, a *b* 715, a 716, a 717, a 718
Naifaaurut I. and II., kings (Egypt), VII, a 645
Naiks, chiefs (India), XII, a 833, b 834, b 839
Naillac, Philibert de, master (St. John of Jerusalem), XXI, a b 183
Nails (Anatomy), I, b 788; (Mammalia), XV, a 351, a 353; growth of (Skeleton), XXII, a b 115
NAILS of metal, XVII, b 172-3; (Patents), XVIII, a 882; (Wheeling), XXIV, a 569; for crucifixion (Cross), VI, a 540; slater's (Building), IV, a 449
Na'ímá, historian (Turkey), XXIII, a 699
Naiman, khans (Jenghiz), XIII, b 631-2
NAIN, LE, Antoine, Louis and Mathieu, painters, XVII, a 173
Naini-tal, district (Himalaya), XI, b 741, a 743; (N. W. Provinces), XVII, b 586, a 587
Nain Singh, traveller (Lhasa), XIV, *b* 496, note, b 498, note, a *b* 500, a *b* 501, *a* 503
NAIRN, county, XVII, a 173; river, a 173; town, b 173-4
NAIRNE, Caroline Oliphant, baroness, poetess, XVII, a 174
——, Duncan, educator (Universities), XXIII, b 902
Nairne's electrical machine, VIII, b 94
Nairs, race (India), XII, b 772, a 816
Nairsa, island (Tuamotu), XXIII, a 640
Nais, genus (Annelida), II, *a* 62; (Worm), XXIV, a 714, b 715, b 717
Naisábúrí, surname (Nishápur), XVII, a 528
Naishadhíya (Sanskrit), XXI, b 297
Naissus, city (Nish), XVII, b 527
Naja, snake (Reptiles), XX, b 458, *b* 461, *b* 470, a 486; (Snakes) (Ill.), XXII, a 207
Najaf, lake and town (Meshed-Ali), XVI, b 51
Najafgarh jhil, lake (Gurgáon), XI, b 296; (Rohtak), XX, a 639
Najibábád, town (Bijnaur), III, b 579
Nakádeh or Nagadeh, town (Egypt), VII, b 673
Nakasendô highway (Japan), XIII, a 586
Naked fallow (Agriculture), I, b 302-3
NAKHICHEVAN or Nakhjevan, city, XVII, a b 174; (Transcaucasia), XXIII, b 546, b 547
NAKHICHEVAN-ON-THE-DON, town, XVII, b 174
Na-ko-to-moo-tsing ah-lin, river (China), V, b 548
Nakshatras, Hindu system of Zodiac, XXIV, a 832-4
Nakshbendiya, order (Sunnites), XXII, a 697
Nak-tong-kang river (Corea), VI, a 347
Nalagarh, state (Hindur), XI, b 749
Nalanda monastery (India), XII, a 825
Nalchití, town (Bakarganj), III, a 214
Naljeskovic, Nicholas, dramatist (Servia), XXI, a 723
Nallamalais, range (Karnul), XIV, *b* 7, *a* 8
Nalodaya (Kálidása), XIII, b 838; (Sanskrit), XXI, b 297
Nalon river (Asturias), II, b 721
Nama. See Namaqua
Nāmā. See Nāmdeo
Nâmamâlâ, grammar (Pâli), XVIII, b 189
Na'mán, river (Palestine), XVIII, b 175, a 176
Namanghán, town (Ferghana), IX, a 75; (Turkestan), XXIII, b 677
Namaqua or Nama Cattle, V, b 214; Dictionaries, VII, b 167; dialect (Hottentots), XII, a b 326, note
NAMAQUALAND, XVII, b 174-5; (Africa), I, a 225; (Cape Colony), V, *b* 37, a b 38, *a* 40, a 42
Namaquas, people (Hottentots), XII, b 323, *a* 326; (Mythology), XVII, a 154
Nambu-Shoto, islands (Lewchew Islands), XIV, b 489
"Namby-Pamby," nickname (Philips), XVIII, b 768
Nam-cho lake (Tibet), XXIII b 362
Nāmdeo or Nāmā, teacher (Hindustani Literature), XI, *a* 754
Nam-dinh, city (Tong-King), XXIII, a 468
NAMES of persons and places, XVII, a 175-6; (Andaman Islands), II, a 13; (Gaelic), X, a b 11; borrowing of

NAMES of persons and places, *continued*
(Philology), XVIII, a 787; classical (Agriculture), I, a 261; fabrication of (Shakespeare), XXI, a 781; *Prænomina* (Inscriptions), XIII, a b 132; of ancient places (Palestine), XVIII, b 179, a 181; of totems avoided (Totemism), XXIII, a 498
Nam-Kong, river. See MEKONG
Namling, town (Tibet), XXIII, b 361
Namohon, mountains (Tibet), XXIII, a 363
Nam-ri srong btsan, king (Tibet), XXIII, a 367
NAMUR, province, XVII, b 176; town, b 176–7; (Coehorn), VI, *a* 98; reformatory (Prison Discipline), XIX, a 778
Namur, Siege of (Huchtenburg), XII, b 343
—— and Mansion's *Logarithmic Tables*, XXIII, b 14
Náná Ghát inscriptions (Numerals), XVII, b 641-2
Nanaimo, town (Vancouver Islands), XXIV, b 64
Nānak, Sikh reformer (Hindustani Literature), XI, *a* 754; (India), XII, a 847; (Punjab), XX, b 116, a 117
NÁNÁ SÁHIB, rebel, XVII, a 177; (Cawnpur), V, b 241–2; (India), XII, a 845, b 848, b 849-50; (Nepāl), XVII, a 354
Nanawatai Law (Afghânistân), I, b 212
Nan-chang Foo, town (China) V, b 552
NANCY, city (Plan), XVII, a 177–8; (Forests), IX, b 354, b 355; (Globe), X, b 607–8; (Meurthe-et-Moselle), XVI, b 212, *a* 213
Nanda, mendicant (Buddhism), IV, b 385
Nandá Devi, mountain (Garhwal), X, b 72; (Himalaya), XI, *a* 737
Nanda-Kot Mountain (Himalaya), XI, a 737
Nandas, tribe (India), XII, b 829, note
Nandhia river (Sultánpur), XXII, a 671
Nandidæ, family (Ichthyology), XII, b 727
Nandidrug, hill (Kolár), XIV, *b* 137, a 138
Nandinia, genus (Mammalia), XV, b 442
Nandkumar, Brahman (Hastings), XI, a b 458, *a* 459
Nandu, bird (Rhea), XX, b 519
Ñanduty, lace (Paraguay), XVIII, b 248
Nanfan, Sir Richard, governor (Wolsey), XXIV, a 668
Nanga Parbat, mountain (Kashmir), XIV, a 12; (Tibet), XXIII, a 361
Nangasaki, city. See NAGASAKI
Nangkoi, town (Siam), XXI, a 891, b 892, b 894
Nanini, Giovanni Maria, composer (Palestrina), XVIII, a 183, a 185
Nankaidô circuit (Japan), XIII, a b 579
Nankeens (Cotton), VI, b 433
NANKING, city Plan, XVII, a 178–9; (China), V, b 547, *b* 548, a 552, a 560, *a* 563, *a* 564, b 566; (Peking), XVIII, b 479, a 480
Nannestad, Frederick, bishop and journalist (Norway), XVII, a 604
Nanno, musician (Mimnermus), XVI, a 357
Nánpárá, town (Bharáich), III, a 543
Nan-shan, mountains (China) V, a 548, a *b* 552, a 553, b 555; (Tibet), XXIII, a 363
Nan-shang Hoo, lake (China) V, a 551
Nanson, mathematician (Hydromechanics), XII, b 468
Nantai-zan, mountain (Japan), XIII, a 581, a 582
NANTES, city (Plan), XVII, a 179–80; (France), IX, *a* 458, b 460; (Libraries), XIV, a 525, b 547; (Loire), b 815, a 816; (Loire-Inférieure), *b* 817, *a* 818; (Universities), XXIII, b 897. See Noyades
——, Edict of. See Edict of Nantes
NANTEUIL, Robert, engraver, XVII, b 180
Nanticoke river (Maryland), XV, a 609
Nantua, town and cluse (Jura), XIII, a 792
NANTUCKET, island, XVII, b 180–1; (Massachusetts), XV, a 618; (Whale), XXIV, b 557
NANTWICH, town, XVII, a 181
Nan-wang, town (China), V, a 549
Nao, Cape (Spain), XXII, a 307
Naobihâr (Afghânistân), I, b 218
Náogáon, district (Nowgong), XVII, a 624
Naos, town (Canary Islands), IV, a 706
—— of temple (Architecture), II, b 359, a 360, b 411
Naousa or Naussa bay (Paros) XVIII, a 325
Napa valley (California), IV, a 618; (Indians), XII, b 865
Napæ, tribe (Scythia), XXI, a 605
Napata, city (Meroe), XVI, b 45
NAPHTALI, tribe, XVII, a 181
NAPHTHA, XVII, b 181; (Asphalt), II, a b 625; (Gas-Lighting), X, *a* 91; (Greek Fire), XI, b 142, a 143; (Mineralogy), XVI, b 446–7; (Paraffin), XVIII, a b 245, a b 246, a 247; (Petroleum), a 732, a 733; (Tar), XXIII, a 65; distillation (Coal Tar Colors), XVIII, b 900, a 901; wells (Baku), III, a 223; (Caspian Sea), V, b 156–7
Naphthalene, hydrocarbon (Chemistry), V, a *b* 487; (Gas and Gas-Lighting), X, b 91, a 92; (Paraffin), XVIII, *a* 242; (Coal Tar Colors), b 899, a 900, a 905; (Tar), XXIII, *b* 63, b 64
Naphthalidine (Chemistry), V, a 500
Naphthol (Chemistry), V, b 489
Naphthylamine (Coal Tar Colors), XVIII, a 905
NAPIER, town, XVII, b 181
—— family (Napier, John), XVII, a b 184, note, a b 192
——, Archibald, first baron (Napier, John), XVII, a b 184, note
NAPIER, Sir Charles, admiral, XVII, b 181–2; (Miguel), XVI, b 302; (Portugal), XIX, a 568
NAPIER, Sir Charles James, general, XVII, a 182-3; (Cephalonia), V, a 299; (Ellenborough), VIII, b 136, *a* 137; (India), XII, a b 847; (Ionian Islands), XIII, b 212; (Sind), XXII, *b* 99; (Volunteers), XXIV, b 314, b 316
——, Sir George, general, XVII, b 182, a 183, a 194
——, Henry, captain, historian, XVII, a 194
——, James R., inventor (Coffee) (Ill.), VI, b 103
NAPIER, John, of Merchiston, mathematician, XVII, b 183–93
  birth to marriage, b 184
  Briggs, Henry, a 187–8
  Constructio, history of, b 186
  Craig story, the, a b 189
  death and burial, a b 186
  decimal logarithms, a b 187–8, a 192
  genealogy, a 184
  history of *Canon Mirificus*, b 185, b 186
  Hutton's accusation, a b 188
  inventions for war, a b 185
  Kepler, b 188–9
  literature connected with, b 192–3
  manuscripts, account of, b 190–1
  miscellaneous personal notes, a b 192
  Napier's bones, b 186, a b 191
  Plaine Discovery and its occasions, b 184–5
  prosthaphæresis, b 189–90
  Rabdologia, b 185–6
  science of the age, a b 190
  spherical trigonometry, b 191–2
  treasure-trove, a b 190
—
—— (Algebra), I, a 491; (Logarithms), XIV, *a b* 780, *b* 781, *a b* 782, b 784; (Tables), XXIII, b 13, b 16–7; (Trigonometry), b 601
——, J. M., coin blank adjustment (Mint), XVI, b 512, note
——, Macvey, editor (Encyclopædia), VIII, a b 182, b 183, a 184; (Jeffrey), XIII, b 628, a 629
——, Mark, biographer (Napier, J.), XVII, a 186, a 189, *b* 190, note, a *b* 192
——, Richard, astrologer, XVII, b 192
——, Robert, editor (Napier, J.), XVII, b 186, b 187, *a* b 188, *b* 190, a b 191, a 193
——, Robert Cornelius, baron, general (Abyssinia), I, a 66
——, Robert D., engineer (Hydromechanics), XII, b 454, b 505
NAPIER, Sir William Francis Patrick, historian, XVII, a *b* 183, a 193-4; (Fortification), IX, b 380; (Masséna), XV, a 624; (Moore), XVI, b 831
——, William John, baron (China), V, b 565
Napierian logarithms. See LOGARITHMS and NAPIER, John
Napier's analogies (Trigonometry), XXIII, a b 602
—— "bones" for calculation, XVII, a b 191
—— rules, XVII, b 191-2; (Navigation), a 274
NAPLES, city (Sketch), XVII, a 194–9
  bay, b 194
  buildings, b 195–6
  classical period, b 197–8
  environs (Ill.), a 194–5
  Gothic and Norman period, a 198
  harbor, a b 197
  history, b 197
  institutions, b 196–7
  mediæval history, a b 198
  modern history, b 198–9
  people and industries, b 197
  thoroughfares, a b 195
  water-supply, b 197
—
—— (Academy), I, b 68, b 73; (Aquarium), II, a 190; (Catacombs), V, b 187; (Conservatory), VI, b 260; (Corenzio), a 351; (Foundling Hospitals), IX, b 426; (Italy), XIII, b 458, b 459, a 460, a 465; (Libraries), XIV, a b 529, a 530, b 550; (London), b 829; (Masaniello), XV, a 612–4; (Observatory), XVII, b 734; (Plague), XIX, b 175; (Schools of Painting), XXI, b 456–7, b 463, b 467; (Sculpture), a 595, a 597; burials in (Cemetery), V, a 287; gallery (Correggio), VI, b 387; (Giordano), X, *b* 541, a 542; (Giotto), a 545; (Titian), XXIII, a 443; mutiny, 1820 (Italy), XIII, b 496
——, kingdom (Alphonso V.), I, a b 543; (Ferdinand V.), IX, a b 72; (France), b 488, *a* b 489; (Gonzalo, Fernandez y Aguilar), X, *a* 688; (Guise), XI, a 237; (Innocent III.), XIII, a 90; (Italy), b 487, b 488-9, *a b* 491, b 495, b 496, a 497, a b 498, b 500; (Metternich), XVI, a 209, a 210; (Spain), XXII, b 338, a 339, b 341, a b 342
——, province (Murat), XVII, b 55–6; (Nelson), b 331–2
——, *Histories of* (Costanzo), VI, a 399; (Giannone), X, a 540
Napo, river (Ecuador), VII, a b 560
NAPOLEON, game, XVII, a b 235

- NAPOLEON I., emperor, XVII, a 199-232
  - abdications and their effects, b 228-9, b 231
  - absolutism, revival of, b 212-3, a b 218-9
  - allies invade France, b 227-8
  - Amiens treaty, b 211-2, a b 213
  - Austerlitz campaign, b 216-7
  - Austria joins Prussian coalition, 1813, b 225-6
  - autobiography, a b 232
  - Borodino campaign, b 223-4
  - Brumaire, revolution of, a 209-10
  - coalition of Prussia and Russia, a b 225
  - Concordat, a 211
  - consulate established, a 209-10
  - Corsican political period, a 200-1
  - creation of nobles, b 218
  - death of, b 232
  - Directory, fall of the, b 208-9
  - divorce of, b 221-2
  - Dresden campaign, b 226-7
  - Dutch annexations, a 222
  - education and early authorship, a b 199
  - Egyptian expedition, a 207-8
  - empire established, a 214-5
  - Enghien, execution of Duc d', b 214
  - English rupture, of 1803, b 213-6
  - family sovereignties, a b 218
  - first consul, policy of, a b 210
  - French disquiet under the invasion of allies, a b 229
  - Fructidor, coup d'état of, a b 206
  - German liberation war, b 220-1
  - Hundred Days of empire, b 229-31
  - invasion of England frustrated, a 215-6
  - Italian campaign, first, a 203-7
    - second, a b 211
  - king of kings, a 218-9
  - Leipsic, battle of, a b 227
  - Leoben treaty, a b 205
  - literature about, b 232
  - Mantua, siege of, b 203-4
  - marriages, a 203, a 222
  - monarchy, rise of Napoleonic, b 212-3, a b 214
  - moralizing, end of his, a b 201
  - Moreau, overthrow of, b 210-1, a *b* 214
  - Moscow, events at, a b 224
  - National convention, service under the, b 201-3
  - Nivose assassination plots, a 213
  - Paoli, struggle with, a 201
  - parentage, a 199
- NAPOLEON I., *continued*
  - Prussian war, 1806, a b 217
    - 1813-4, a 225-7
  - republicanism of army, a 206
  - reorganization of French institutions, a b 212
  - retreat from Moscow, a 224-5
  - revolt of the Sections, b 202-3
  - Russia, invasion of, b 221, a 222-4
  - Russian coalitions against, a 216-7, b 222-7
  - Saint Helena exile, a b 232
  - Schönbrunn treaty, b 221
  - Spanish war, b 219-20
  - spoliations in Italy, a 204-5
  - surrender to England, b 231
  - Syrian campaign, a b 208
  - Tilsit treaty, b 217-8
  - Toulon adventure, b 201
  - Ulm campaign, a 216-7
  - Venetia, conquest of, b 205, a b 206-7
  - Wagram campaign, a 221
  - Waterloo battle, b 230-1
  - Westphalian annexations, a 222
- —— (Aëronautics), I, b 171; (Ajaccio), b 383; (Alexander I., Czar), b 434-5; (Ali Pasha), b 505; (Antwerp), II, *b* 127; (Arago), b 264; (Army), a 526; (Arnot), a 548; (Augereau), III, a 63; (Austria), *a* 114, b 115-8; (Balance of Power), *a* 233; (Battle), III, a *b* 384; (Bonaparte, Joseph), IV, b 25-6, b 27; (Bonaparte, Louis), a 27; (Bonaparte, Lucien), a b 26; (Bonaparte, Pauline), b 27; (Boulogne sur Mer), b 156; (Bourrienne), b 161; (Brazil), a 208; (Cambacèrés), a 639; (Cavalry), V, b 228-9; (Charles IV., Spain), b 363; (Châtillon-sur-Seine), a 385; (Chateaubriand), *b* 378, a 379; (Cherubini), *b* 510; (Cicognara), *b* 675; (Coblentz), VI, b 82; (Code), a 96; (Concordat), a 215; (Congress), a 240; (Consalvi), a b 259; (Constant de Rebecque), b 265; (Daru), a b 730; (David, J. L.), b 741
- —— (Denon), VII, *b* 83; (Desaix), b 99; (Duel), b 443; (Eastlake), b 532; (Education), b 587; (Egypt), a b 659; (England), VIII, b 324-6; (Entail), *a* 401, a 403; (Ferdinand IV., Naples), IX, b 69; (Ferdinand VII., Spain), a b 73; (Ferdinand III., Tuscany), a 74; (Fesch), a 99; (Florence), b 294; (Fontainebleau), b 317, a 318; (Fontanes), b 318-9; (Fortification), a b 390, b 401; (Foscolo, Ugo), b 416, a 417; (Fauché, J.), a 421-2; (France), b 535-44; (Francis II.), b 609; (Freemasonry), a 660; (Gay-Lussac), X, b 110, a 111; (Gentz), a 146; (Goethe), a 653, *b* 654; (Görres), *a* 699; (Gourgaud), XI, b 6; (Grisons), *a* 183; (Gros), b 185, a 186; (Guizot), *a* 238; (Hardenberg), *a* 423; (Hayti), a 487; (Heine), a 558; (Heraldry), a 623; (Hofer), XII, *b* 46; (Holland), b 85-6, b 103; (Hortense), a b 214; (Hungary), b 385; (India), a b 843; (Inquisition), XIII, b 101; (Institute of France), a 167; (Isabey), a 386; (Italy), b 495; (Jenner), a 635; (Jesus Christ), a 680, note; (Jews), a b 693; (Jomini), *b* 746; (Josephine), a b 761; (Junot, Mme), a 789
- —— (Kléber), XIV, b 110; (Kosciusko), b 143; (La-Fayette), a 204; (Lamarck), b 232; (Lannes), a b 289; (Legion of Honor), b 417; (Libraries), a 524; (Linen Manufactures), b 670; (Louisiana), XV, b 24; (Malta), a 346; (Marmont), *b* 565; (Marseilles), b 580-1; (Masséna), a 623-4; (Metternich), XVI, b 207-9; (Milan), b 303; (Minsk), b 501-2; (Monge), a 766; (Moore, Sir J.), a 831; (Moreau), a b 846; (Moscow), b 887-8; (Murat), XVII, a b 55; (Napoleon III.), a b 233; (Nelson), a b 331, a b 332; (Net), b 368; (Newspapers), b 436; (Numismatics), a 646, a 674; (Oudinot), XVIII, b 77; (Paisiello), b 144; (Paris), a 299; (Persia), a 659; (Pius VII.), XIX, b 165-6; (Poniatowski), a 468; (Popedom), b 522-3; (Portugal), b 565-6; (Post-Office), b 596; (Pozzodi Borgo), a 671; (Presbyterianism), a b 715; (Protection), b 937
- —— (Prussia), XX, a b 15; (Relics), a 368; (Rothschild), XXI, b 7; (St. Cloud), b 168; (San Marino), a 280; (Savary), *a b* 340; (Sculpture), a 599; (Sièyes), XXII, a 52; (Slavery), *a* 149; (Spain), *a b* 357, *a b* 358; (Stael), *b* 457, a b 458; (Switzerland), *a b* 832; (Talleyrand), XXIII, b 36, a 37; (Tallien), b 38; (Talma), b 40; (Talmud), a 43, note; (Thiers), a 324; (Tristan da Cunha), b 613, note; (Turkey), a b 689, a 690; (United States), a 804, a 806, a *b* 807, a 809; (Vanderlyn), XXIV, a 876; (Venice), b 159; (Volney), b 302, note; (War), b 364, a *b* 366, b 368, *a* b 373; (Wellington), *b* 523, a *b* 524, *a b* 525
- ——, Lanfrey on, XIV, b 284-5; Macaulay on (Pitt), XIX, b 155, a 156, b 157; *Vie de* (Jomini), XIII, b 743
- Napoleonic confiscations, XVII, *a* 204, a 205; titles (Prince), XIX, b 758; wars (Agriculture), I, b 270; (Bavaria), III, b 392; (Denmark), VII, a b 77; (Dumas), a 452; (Egypt), b 614; (Finance), IX, b 162-4; (Germany), X, a b 452; (Gustavus IV.), XI, b 299; (Hamburg), a 365; (Hanover), a 400; (Heligoland), a 564; (Navy), XVII, b 291; (Prussia), XX, a 15-6; (Russia), XXI, b 108-9; (Saxony), a 371; (Stein), XXII, a b 558; (Suchet), b 649-50; (Zaragosa), XXIV, a 809; in 1813 (War), b 367, a 383. See NAPOLEON
- NAPOLEON II., duke of Reichstadt, XVII, a 233; (Delavigne), VII, a 38
- NAPOLEON III., emperor, XVII, a 233-5
  - birth and youth, a 233
  - character of, a 235
  - empire of, b 234-5
  - exiles and imprisonments, b 233-4
  - revolution of 1830, influence of, a b 233
  - revolution of 1848, and republic, a b 234
- —— (Algeria), I, b 501; (Arago), II, a b 265; (Austria), III, b 120-1, b 122; (Balance of Power), *a* b 233; (Bonaparte), IV, a 27; (Boulogne sur Mer), a 156; (Canal), b 698, b 700; (Cavaignac), V, b 226; (Chartism), a 376; (Chesney), b 513; (Cobden), VI, b 80, b 81; (Comte), a 208; (Congress), b 240; (Cousin), b 465; (Dufour), VII, a 445; (Eglinton), a 606; (Farnese), IX, a 34; (Fould), b 422; (France), b 546, a 547-52; (Germany), X, a b 459; (Gunnery), XI, b 272; (Gunpowder), a 284, a 295; (Hortense), XII, a 214; (Italy), XIII, a 500-1; (Mérimée), XVI, a b 42; (Metternich), b 210; (Morny), b 855-6; (Orsini), XVIII, b 55-6; (Palmerston), b 200, a 201; (Paris), a b 299-300; (Persigny), a b 673; (Pius IX.), XIX, b 166; (Tocqueville), XXIII, b 458; his Army, II, b 526; his Artillery, a 577
- ——, Eugène Louis, prince (Napoleon III.), XVII, a 235, note
- ——, Joseph Charles Paul, prince (Bonaparte), IV, b 27
- Napoleon-Vendée, town (Roche-sur-Yon), XX, b 630
- Napoli. See NAPLES and MALVASIA
- ——, Garnier de, grand master (St. John of Jerusalem), XXI, a 183
- Napton hills (Warwick), XXIV, b 399
- NARA, city, XVII, b 235-6
- ——, river (Baluchistan), III, b 260
- Narada, deity (Brahmanism), IV, a 188
- *Nâradîya-Dharmasâstra* (Sanskrit), XXI, b 302
- Náráinganj, port (Dacca), VI, b 667, a 668
- Naram-Sin, king (Babylonia), III, a 161

Náráyan-Dás, writer (Hindustani Literature), XI, b 755
Narbadá, river. See NERBUDDA
Narbal, state. See NABHA
NARBONNE, city, XVII, a b 236; (Honey), XII, a b 140; (Languedoc), XIV, b 287, *a* 288; congregation of (Franciscans), IX, a b 615
——, Louis, Comte de, minister (France), IX, a 531
NARBOROUGH, Sir John, admiral, XVII, b 236
—— island (Galapagos Islands), X, b 17
Narceia, alkaloid (Opium), XVII, a 815, *a* 816, a 817
NARCISSUS, plant, XVII, b 236-7; (Botany) (Ill.), IV, a b 103, b 121, a 134; (Daffodil), VI, b 670; (Horticulture), XII, b 265-6
——, courtier (Claudius, Emperor), V, a 714; (Hervey, John), XI, a 692
——, myth (Echo), VII, b 555
Narcomedusæ, order (Hydrozoa) (Ill.), XII, b 580, b 584, b 586, b 596-7
NARCOTICS, XVII, a 237-9; (Hemlock), XI, b 577; (Hemp), a b 578-9; (Opium), XVII, b 809-17; vapors (Insectivorous Plants), XIII, a 142
Narcotin, alkaloid (Opium), XVII, a 816; (Wöhler), XXIV, b 660
Narcotization (Drunkenness), VII, a b 416-7
Nard, plant (Spikenard), XX, b 413-4
Nardek, syrup (Kamuishin), XIII, b 843
Nardi, Jacopo, historian (Italy), XIII, b 519
Nardosmia, plant (Horticulture), XII, a 259
Nardus, genus (Grasses) (Ill.), XI, b 49, b 50, a 51, b 52
Nareff, river (Lomza), XIV, *b* 826
Narenta, republic (Illyria), XII, b 748; river (Dalmatia), VI, a 690; (Herzegovina), XI, b 692, *a* 693
Nares, Sir George Strong, explorer (Atlantic Ocean), III, b 18, a 19; (Geography), X, b 175; (Polar Regions), XIX, a 334, b 336, b 343
——, Robert, archdeacon (Pantomime), XVIII, a 220
Naret, Phra or king (Siam), XXI, a 894
Narew river (Poland), XIX, b 318, a 319
Nárgíla (Pipe), XIX, b 120
Nári or Ngári, province (Tibet), XXIII, a 360, a b 361
Narìnda bay (Madagascar), XV, a 169
Narîshkin faction (Russia), XXI, a 105
Narje's puddling process (Iron), XIII, a 335
Nar Náráyan, rajah (Kuch Behar), XIV, a 153
Narni, Erasmo da, general (Padua), XVIII, a 136
——, Lucia di, nun (Stigmatization), XXII, b 577
Narova river (Russia), XXI, b 80
Narovtchat, town (Penza), XVIII, b 525
Narragansett bay (Massachusetts), XV, a 618; (Rhode Island), XX, a 538
Narrative (Rhetoric), XX, a 528; (Poetry), XIX, b 276; (Provençal Literature), XIX, b 900-1
Narrenhaus (Kaulbach), XIV, b 18
Narrenschiff, satire (Brandt), IV, b 194; (Germany), X, a 472
Narrows, the (New York), XVII, b 471
Narsai of Edessa, poet (Syriac Literature), XXII, b 870-1, *a* 878, b 882
Narseh, king (Persia), XVIII, b 619
NARSES, general, XVII, a 239-40; (Italy), XIII, a 478; (Justin II.), a 801; (Justinian I.), b 806; (Maurice), XV, b 644; (Milan), XVI, b 304; (Pelagius I.), XVIII, a b 484
——, patriarch (Armenian Church), II, a 481
NARSINHPUR, district, XVII, b 240-1
Narthex (Architecture), II, b 411, a 414
Naruszewricz, Adam, bishop (Poland), XIX, b 314
Narva, bay and town (St. Petersburg), XXI, b 199; storming of, 1700 (Charles XII.), V, b 364
NARVAEZ, Pámfilo de, adventurer, XVII, a 241; (Florida), IX, a 298
NARVAEZ, Ramon Maria Marshal, statesman, XVII, a 241; (Dalling), VI, a b 689; (Spain), XXII, b 359, a 360
Narwali (Fibres, Textile), IX, a 116
NARWHAL, cetacean, XVII, a b 241; (Ivory), XIII, a 533; (Mammalia), XV, a 355, b 357, b 376, a 402
Narym mountains (Semipalatinsk), XXI, a 671
Naryn river (Semiryetchensh), XXI, *b* 672; (Syr-Daria), XXII, a *b* 857
Nasal bones (Anatomy) (Ill.), I, *b* 723; of birds (Ornithology), XVIII, a 43; fossæ (Mammalia), XV, b 358; glands of birds (Ornithology), XVIII, b 24; of ophidia (Reptiles), XX, b 475; headache (Touch), XXIII, a 512
—— sounds and letters (Hieroglyphics), XI, b 713; (N), XVII, a 165-6; Aryan (Philology), XVIII, a b 801; old Latin (Romance Languages), XX, b 679-80
Naseimento, Francisco Manuel do, poet (Portugal), XIX, a 573
Nase, town (Lew-Chew Islands), XIV, a 490
Naseby, battle of, 1645 (Fairfax, Lord), VIII, a 746; (Ireton), XIII, a 281
Nash, John, architect (London), XIV, a 833, b 861
NASH, Richard, beau, XVII, b 241-2
NASH, Thomas, dramatist, XVII, a b 242; (Gascoigne, G.), X, b 93; (Greene), XI, a *b* 146; (Harvey), a 448
Nashim (Mishnah), XVI, b 528
NASHUA, city, XVII, b 242
NASHVILLE, city, XVII, b 242-3; (Tennessee), XXIII, a b 194; battle of, 1864 (Steedman), XXII, a 926; (Thomas), XXIII, b 840, b 938-9; (Hood), b 838; (United States), a 828
Nasibin or Nasibina, town (Mesopotamia), XVI, a 53; (Nisibis), XVII, a 528
Nasical summation (Magic Square), XV, a 216-7
Nasicornis, species (Viper), XXIV, a 266, note
NÁSIK, district, XVII, a 243
—— squares and cubes (Magic Square), XV, b 215-7
Nasírábád, military post (Ajmír), I, b 384, a 385
Násir-ed-Dowleh, general (Egypt), VII, a 652
NÁSIR KHOSRAU, poet, XVII, a 243-4; (Persia), XVIII, a 671, b 673; (Tripoli), XXIII, a 613
—— Mohammad, en, sultan (Egypt), VII, *a* b 656; (Mongols), XVI, b 773
Nâsiru'd-Din, astronomer (Geography), X, a 159
Naslegs, villages (Yakutsk), XXIV, a 763
NASMYTH, Alexander, painter, XVII, b 244
——, James, inventor, XVII, b 244; his steam Hammer, (Ill.), XI, b 380-1; (Forge), IX, a 364; (Iron) (Ill.), XIII, b 336, a 337
NASMYTH, Patrick, painter, XVII, b 244
Nasmyth's membrane (Digestive Organs), VII, b 203, b 205, b 206; (Mammalia), XV, a 353
Nasoræans, sect (Mandæans), XV, a 475, note
Nasquapees, tribes (Indians), XII, a 865
Nasr II., Khorásán Amír (Persia), XVIII, b 668
Násru 'd-Din, sháh (Persia), XVIII, a 663, b 665
NASSAU, duchy, XVII, b 244-5; town, b 245
——, house of (Orange), XVII, b 836
—— or Pageh islands (Sumatra), XXII, b 672
NASSAU, town, New Providence, XVII, b 245
——, Johann Maurice, count, governor (Brazil), IV, b 206
——, Justinus van, admiral (Huygens, Sir C.), XII, b 432
——, Maurice of, prince. See MAURICE
—— balloon (Aëronautics) (Ill.), I, b 173, a 176, b 181
Nasser, town (Nile), XVII, a 520
Nassfeld-Tauern mountain (Gastein), X, a 97
Nassick, district and town. See NASIK
NASTURTIUM, cress, XVII, b 245; (Horticulture), XII, b 255-6, a 297
Nasua, genus (Mammalia), XV, b 447
Nátaka (Drama), VII, b 344, a 345
NATAL, colony (Map), XVII, b 245-9
  area, b 245-6
  authorities, b 248-9
  climate, b 246
  geology, b 246-7
  history, b 248
  industrial features, a 247-8
  natural history, a 247
  physical aspects, a b 246
  political and educational features, a b 248
—— (Africa), I, a b 231, a 237, a 242; (Cape Colony), V, a 41; (National Debt), XVII, a b 254; (Zululand), XXIV, a *b* 866, b 867, a *b* 868; law of (Patents), XVIII, b 362
—— or Natar, district (Sumatra), XXII, *b* 672
NATAL, city, XVII, a 249
—— current (Indian Ocean), XII, b 861
Natalis or Noël, Alexander, historian (Church History), V, b 668
Natalus, genus (Mammalia) (Ill), XV, b 415
Natantia, sub-order (Protozoa), XIX, b 887
—— azygobranchia (Mollusca), XVI, b 677-8
Natas, species (Cattle), V, b 214
Natatores, Sundevall's order of (Ornithology), XVIII, b 42
Nâtaya-sâstra (Sanskrit), XXI, a 298
NATCHEZ, city, XVII, a 249
Natchez, The (Chateaubriand), V, a b 378, a 379
Natchez Indians, XII, a 868; (Mississippi), XVI, a 547; (Religions), XX, b 376-7
NATHANAEL, disciple, XVII, a 249; (Bartholomew), III, a 348
Nathan b. Yehiel, rabbi (Talmud), XXIII, b 42, note, a 44
Nathan Habbabli, rabbi (Talmud), XXIII, b 42, note, a 44
Nathan the Wise, Lessing (Drama), VII, a 382; (Germany), X, b 479; (Jews), XIII, b 690; (Lessing), XIV, a 482; (Mendelssohn), XVI, a 13
Nathusius, on egg shells (Birds), III, b 671
NATICK, town, XVII, a 249; (Eliot, J.), VIII, a 128; Dictionary, VII, a 168
National, journal (Carrel), V, a 118
National Academy of Design, N. Y. (Morse), XVI, a 874
—— Academy of Sciences, Washington (Societies), XXII, a 235
National Almanac, I, a 521
—— *Apostasy*, sermon (Keble), XIV, a 27
National Assembly, 1789 (France), IX, b 526, a 529; (La Fayette), XIV, b 203; (Mirabeau), XVI, b 518, b 520
—— banks of United States (Banking), III, a 294; statistics (United States), XXIII, a *b* 881, a 882

National board of health, United States (Medicine), XV, a 808
—— Charter Association (Chartism), V, a 376
—— Convention, France, 1792 (Barère), III, a 322; (Barras), b 338; (Collot D'Herbois), VI, b 134; (Condorcet), a 226; (Danton), b 718–9; (France), IX, a 532; (Marat), XV, a 535; (Napoleon I.), XVII, b 202, a 203; (Robespierre), XX, b 618–20
—— Covenant (Presbyterianism), XIX, a 702, *a* 703
—— cults (Sacrifice), XXI, a 141–3
NATIONAL DEBT, XVII, a 249–55
  accumulative - systems, b 249–50
  annuity system, b 250
  authorities, b 254–5
  comparative view, 254
  European states, a 252–4
  India, b 253
  issue, modes of, a b 251
  methods of borrowing, a 250–1
  reducing loans, b 251–2
  table of, 254
  terminable bonds, b 250–1
  United States, b 253, b 254
  universality of, b 249

—— (Annuities), II, b 65, b 77; (Arbitrage), a 273; (Argentine Republic), b 436; (Belgium), III, a 454, a b 457; (Brazil), IV, a 213; (Chili), V, b 542; (Colombia), VI, b 139; (Europe), VIII, a b 620; of France, IX, b 455; XVII, b 252; (Banking), III, a 292; of Germany, X, b 418, b 419; XVII, b 252–3; (Greece), XI, b 80–1; (Paraguay), XVIII, a b 249; (Peru), b 692; (Portugal), XIX, a 554; (Prussia), XX, a 24; (Russia), XXI, b 78, b 95; (Saxony), a 375; (South Australia), XXII, a 300; (Spain), a b 319; United States, XXIII, a 795, b 799, b 802, b 814, b 824, b 827, a 829, a 830, a b 833, a b 883; (Republican Party), XX, a 907, a 908; (Venezuela), XXIV, b 152
——, British, XVII, b 250, a 251, a b 252; (Consols), VI, b 261; (England), VIII, b 219, b 220–1; (Finance), IX, a 156, a 158, b 161, a b 162, b 163; (Halifax, Earl of), XI, b 344–5; (Price), XIX, a 741; division of (Scotland), XXI, a 541; management of (Banking), III, b 285, a 286; *Essay on* (Hamilton, R.), XI, b 371
National Gallery (Berlin), III, b 515; (Edinburgh), VII, a b 576
—— Gallery, London (Angerstein), II, b 27; (Cimabue), V, b 680; (Eastlake), VII, b 532; (Giorgione), X, b 542, a 543; (Gozzoli), XI, a 23; (Hilton, W.), a 733; (Hogarth), XII, b 51, a b 52; (Lippi), XIV, a b 691; (Michel Angelo), XVI, b 239; (Moroni), b 862; (Parmigiano), XVIII, a 323; (Piero), XIX, a b 91; (Pinturicchio), a 118; (Schools of Painting), XXI, a *b* 465, *a* 466; (Sebastiano), a b 646; (Teniers), XXIII, a 190; (Tissio), a 437; (Titian), a 443, a 444; (Turner), a 707, a b 708; (Velazquez), XXIV, b 144, a 145, a 146; (Veronese), b 188; (Verrocchio), a 190
—— Guard (France), IX, b 456; (Paris), XVIII, a 298, a b 300
National Intelligencer (American Journalism), XVII, a 887; (Seaton), XXI, b 914
—— Institute (Cuvier), VI, b 653, *a* b 654. See INSTITUTE OF FRANCE
Nationalism (Europe), VIII, b 630; (Political Economy), XIX, a *b* 402–3
Nationality, American constitutional view of (United States), XXIII, b 799–800; democratic opposition to (United States), a 806, a 809; secured (United States), b 829
Nationalization of Land, XIV, b 267–8
National Museum, Florence (Michel Angelo), XVI, a b 239, a 241
—— Museum, Washington (Meteor), XVI, a 118; (Patents), XVIII, b 873; (Smithsonian), XXII, a b 914, *a* b 915, a 916; (Societies), b 234
Nationalökonomie der Gegenwart und Zukunft (Political Economy), XIX, a 405
National Philanthropist (Garrison), X, a 77
—— Rath, council (Switzerland), XXII, 816, a 834
—— Religions, XX, a b 378, a 382
—— schools (Ireland), XIII, 247, a 248, a 277
—— Union, society (Germany), X, a b 457
—— workshops (Socialism), XXII, *b* 220
"Nation of shopkeepers" (Adams, Samuel), I, a 132
Nations (Ethnography), VIII, b 544–5; classification of (Semitic Languages), XXI, a 673
"Nations" in Universities, XXIII, a 889, a b 891, b 895, a 897, a 904; rise of (Upsala), b 916
"Nations," trading companies (Lübec), XV, a 35
Natisone, river (Italy), XIII, a 446
Native American party (Whigs), XXIV, a 895
—— forms, doctrine of (Scholasticism), XXI, b 441
—— States, statistics (India), XII, *a* 783
Nativity, rites of (Parsis), XVIII, a 331; (Polynesia), XIX, b 439; (Totemism), XXIII, b 499, b 501
—— of Jesus Christ, XIII, b 670, a b 671; (Christmas Day), V, *b* 611
Nativity, painting (Bassano), III, a 367; (Botticelli), IV, b 151; (Ostade), XVIII, a 62; (Piero), XIX, b 91
Nativity of population (United States), XXIII, a 874–5
Natrolite (Mineralogy) (Ill.), XVI, b 438, b 441
Natron, mineral (Kano), XIII, b 851; (Mineralogy), XVI, b 415; lakes (Egypt), VII, a 615; pits (Khairpur), XIV, a 58
Natter-Jack (Toad), XXIII, b 450
Nat-toung or Great Watershed (Toung-ngú), XXIII, b 517
NATURAL GAS, XVIII, b 894–9
  chemical analysis, a b 895
  coal and natural gas compared, a b 898
  explosibility, a b 899
  fuel, use as a, b 896–8
  furnaces, b 898
  illuminating quality of, a 895, a 896
  origin of, b 896
  permanence of supply, b 898–9
  wells, remarkable, b 894–5

—— (United States), XXIII, b 865–6; fuel (Pittsburgh), XIX, b 161; in lens manufacturing (Telescopic Work), XXIII, a 934
Natural History (Adanson), I, b 132–3; (Aldrovandi), a 421; (Aristotle), II, a 452, note, b 457, note; (Bacon), III, a b 182, b 185, a 186; (Buffon), IV, *a* b 398; (Damîrî)), VI, a 700; (Daubenton), a b 732; (Linnæus), XIV, a 678–81. See ANIMAL KINGDOM, VEGETABLE KINGDOM, ZOOLOGY
—— ——, Museums of (New York), XVII, a 479; (Paris), XVIII, a 287; (Jussieu), XIII, a 798
Natural History, Pliny's (Encyclopædia), VIII, b 174; (Ornithology), XVIII, a 7; (Pliny), XIX, b 235–7
Natural History, Shakespeare's knowledge of, XXI, a 806, works of 16th to 18th centuries on (Ornithology), XVIII, b 7–14; (Scaliger), XXI, a 378
Natural History of Man (Prichard), XIX, b 742
—— *of Selborne*, White (Ornithology), XVIII, b 13, note; (White), XXIV, a 581
Natural Law, XIV, b 355–6, a 357
—— philosophy (Bacon), III, a b 184; (Dynamics), VII, b 504. See Physics
Natural Philosophy (Mechanics), XV, a b 757
—— proof (Rhetoric), XX, a b 526
—— religion (Deism), VII, a 31–4; (Dogmatic), a b 290–1; (Hume), XII, a 369; (Rationalism), XX, b 391–2; (Wollaston), XXIV, b 663
—— religions. See Nature Religions
—— representation (Surveying), XXII, a 746
—— science (Physical Sciences), XIX, b 5; German Periodicals, XVIII, b 552
—— selection (Adaptation), I, b 133; (Anthropology), II, b 101; (Evolution), VIII, b 657, b 668, a 669; (Instinct), XIII, a *b* 164, b 165, b 166; (Killdeer), XIV, b 78; (Lark), a 316; (Lyell), XV, a 104; (Malthus), b 347; (Mammalia), b 351, a b 371; (Psychology), XX, a 78; (Variation and Selection), XXIV, a 85–90, b 91, b 92; (Zoology), b 840–2
—— steel (Iron), XIII, b 341
—— Theology, XXIII, a 281, a 284, a 295; (Apologetics), II, b 166; (Paley), XVIII, a b 186, a 187; German (Pessimism), b 700
Natural Theology and Morals (Kant), XIII, a 857, a 859
Naturalism in art (Caravaggio), V, a 74; mediæval (Renaissance), XX, a b 395
Naturalist's Dredge (Ill.), VII, a 397–400
Naturalization (Acclimatization), I, *b* 80, b 81; (Alien), b 506, *a b* 507; (Allegiance), b 511; (Belgium), III, b 446; (Domicile), VII, b 304–5, a 306; American doctrine (United States), XXIII, a 807; British (Denizen), VII, a 70; (Real Estate), XX, a b 319; (Scotland), XXI, b 532
Nature (Aristotle), II, *b* 458, a 459; (Baader), III, b 151; (Erigena), VIII, a b 463; (Hegel), XI, a b 552, a b 553; (Iamblichus), XII, a 638; (Jacobi), XIII, b 547; (Kant), a b 864; (Leibnitz), XIV, a 422; (Lotze), XV, b 14; (Metaphysic), XVI, a 95, a b 102, a b 106
Nature, poem (Parmenides), XVIII, a 321–2
—— in relation to Art, II, a 556–7; (Fine Arts), IX, a 170; in relation to disease (Medicine), XV, b 810, b 818, b 820; (Pathology), XVIII, a 367–8
Nature, Laws of (Cumberland), VI, b 618, b 619
Nature, moral influence of (Shakespeare), XXI, a 779–80
—— Religions, XX, a b 378, a b 379–80, a 382; (Brahmanism), IV, b 182–3; (India), XII, a 820; (Sacrifice), XXI, a 141–3
Naturgeschichte, Bloch (Ichthyology), XII, a 669
Naturphilosophen, biologists (Zoology), XXIV, *b* 840, b 846, a b 859
Naturphilosophie (Morphology), XVI, a b 865–6, a 868; (Oken), XVII, b 771, a b 772; (Schelling), XXI, *a b* 407, a b 408, *a* b 409; (Tiedemann), XXIII, b 408
Nátya, entertainment (Drama), VII, a 343
Nauclerus, fish (Pilot-Fish), XIX, b 105
Naucratis, colony (Greece), XI, a 86; ruins of (Weights and Measures), XXIV, a 508, b 513, *a* b 515, b 516

Naucydes of Argos, sculptor (Archæology), II, b 312
NAUDÉ, Gabriel, librarian, XVII, a 255; (Bibliography), III, a *b* 572, b 573; (Cardan), V, a 82; (France), IX, b 505, a 581
Naudin, botanist (Hybridism), XII, *a* 442; (Variation and Selection), XXIV, a 84
NAUMACHIA, spectacle, XVII, a b 255; (Games), X, a 60; (Rome), XX, b 850
Naumann, A., chemist (Iodine), XIII, a 209
——, Carl Friedrich, mineralogist (Crystallography), VI, *a b* 593; (Dyeing), VII, a 497; (Mineralogy), XVI, a 364, a b 365, a 376
——, Johann Andreas, naturalist (Ornithology), XVIII, b 12, a 21, a 25
——, Johann Friedrich, naturalist (Bustard), IV, a 515; (Ornithology), XVIII, b 12
——, Johann Gottlieb, musician (Himmel), XI, b 746
Naumannite (Mineralogy), XVI, a 408
NAUMBURG, town, XVII, b 255
Naupactus, town (Lepanto), XIV, a 468; (Messene), XVI, b 57; (Messenia), a 58
Nauplia, gulf (Greece), XI, b 74
NAUPLIA, town, XVII, b 255; (Greece), XI, a b 77, a 80
Nauplius (Arthropoda), II, a b 567; (Crustacea) (Ill.), VI, a 570, note, a 571, a b 575, note, *a b* 576, b 579
Naûrah, water wheels (Hamah), XI, b 358
Nauroz, feast (Shi'ites), XXII, a 699, note
Naushirawan, king, Persia (Chess), V, b 520
Nautical Almanac, I, a 521; (Astronomy), II, a 662; (Comet), VI, b 163, *a* 165, b 169, a 170; (Geography), X, b 167, b 177; (Hansen), XI, a 404; (Maskelyne), XV, b 615, a 616; (Mechanics), b 683; (Navigation), XVII, a 265, *a b* 267, *a b* 268, a 269
—— Maps, XV, b 525-7
—— observations (Dialling), VII, a 138
NAUTICAL SURVEYING, XXII, a b 750
—— terms, Glossary (Seamanship), XXI, a 632-5
Nautilidæ, family (Mollusca), XVI, b 693-4
Nautilus, genus (Cuttle-Fish), VI, *b* 648, a b 649; (Mollusca), XVI, a 694, a 696-709; paper (Cuttle-Fish) (Ill.), VI, a 651, a b 652, a 653; pearly (Mollusca), XVI, a 693, a 696-710; Pompilius (Mollusca) (Ill.), b 692, a 704
Nauvoo, town (Mormons), XVI, a 853
Nava Cerrada pass (Segovia), XXI, b 653, a 654; (Spain), XXII, b 308
Navagiero, Andrea, diplomatist (Boscan), IV, a 59
Navajos, tribes (Indians), XII, a b 873
Naval Academy, U. S. (Navy), XVII, *b* 310
—— and military Societies, XXII, a 239
Navalapituja, town (Ceylon), V, b 319
Naval Architects, Institution of (Shipbuilding), XXI, a b 846, a b 853, b 854
—— architectural school, Portsmouth (Dockyards), VII, a 273
——arsenal (Toulon), XXIII, *b* 514
—— Asylum, U. S. (Navy), XVII, b 310
—— boilers (Steam-Engine), XXII, b 521
—— College, Royal (Dockyards), VII, a 273, note; (Greenwich), XI, *b* 155
—— construction (Shipbuilding), XXI, a 846-64; Courts-martial, VI, a 461; forces (Marines), XV, b 551-3; guns (Gunnery), XI, b 274-6, a b 277, *a* 281; harbor (Rochefort), XX, b 627-8
—— Hospitals, XII, b 319, a 320; knighthood (Navy), XVII, a 307; manufactures (Lorient), XV, a b 6; Observatories, XVII, *b* 733, a 734, a b 735, a 736
—— organization of Athens (Pericles), XVIII, a 541; poetry (Falconer), IX, a 6-7; Prize Acts, XIX, *b* 786, *a b* 787
—— schools (Navigation), XVII, b 269; (Paris), XVIII, b 286
—— Signals, XXII, b 54-5; statistics, comparative national (Navy), XVII, a 300; stores (Contraband), VI, a b 285
—— strategy and tactics (War), XXIV, b 384-6; changes in (Blake), III, b 698
—— warfare (International Law), XIII, *b* 201-2
Navan, town (Meath), XV, *b* 675
Navang Lobsang, lama (Lhasa), XIV, *a* b 502
NAVARINO, town and bay, XVII, a 256; battle of, 1827 (Codrington), VI, a 98; (France), IX, b 545; (Greece), XI, a 112; (Ibrahim Pasha), XII, a 645; (Russia), XXI, a 110; (Turkey), XXIII, a 691
NAVARRA or Navarre, province, XVII, a b 256; (Spain), XXII, b 312, b 314, a 315; Wine, XXIV, a 640
Navarre, House of (Capet), V, a 50
——, kingdom (Henry II.), XI, b 599; (John II., Aragon), XIII, b 726; (Spain), XXII, b 326-7, a 328, b 330, *a* b 331, b 338-40, a 341, a *b* 342
Navarrese-Aragonese dialect (Spain), XXII, a 365, b 366
Navarrete or Najera, battle, 1367 (Pedro I.), XVIII, b 461; (Spain), XXII, a 335
NAVARRETE, Juan Fernandez, painter, XVII, b 256
NAVARRETE, Martin Fernandez de, historian, XVII, b 256-7
Navassa island (Hayti), XI, b 485
Navas de Tolosa, battle of, 1212 and 1808 (Bailen), III, b 208
Naváyátas, sailors (Kanara), XIII, a 844
Nave in Architecture, II, b 411
Naver, loch and river (Sutherland), XXII, a b 764
Navesink Highlands (New Jersey), XVII, a 406
Navia river (Lugo), XV, a 62
Navicula cuspidata (Diatomaceæ) (Ill.), VII, a 147
Navicular bone (Horse), XII, a 181
Navidad, Fort La (Columbus), VI, a *b* 155
Navier's theory (Elasticity), VII, b 699
Navigating officer (Navy), XVII, b 301
NAVIGATION, XVII, 257-85
- HISTORY, a 257-70
  - astronomical tables, b 266-8
  - charts, a b 269
  - commissioners of longitude, b 264-5
  - Cortes, Martin, a 259-60
  - Davis, John, b 260-1
  - degree, measurement of, a 263
  - education, b 269
  - eighteenth century, practice in, a b 265
  - Frisius, a b 258
  - Greenwich observatory, b 263-4
  - Halley's researches, a b 264
  - instruments, primitive, b 257-9
  - list of writers, a b 270
  - longitude determination of, a b 263-5
  - lunar tables, b 266, b 267-8
  - Maskelyne, b 266-7, a 268
  - Mercator's charts, a 260
  - meridional parts, b 261-2
  - nautical almanacs, a b 267, a 268-9
  - Norwood's degree, a 263
  - Prince Henry, the navigator's time, a 257-8
  - quadrant and sextant, b 262, a b 264
  - *Seamans's Secrets*, b 260-1
  - sixteenth century authors, a 255-60
  - soundings, a 263
  - tides, a 263
  - timekeepers, b 265-6, b 269-70
  - treatises, 18th century, a b 265
  - verniers, b 260-1
  - Wright, Edward, a b 261
- PRACTICAL NAVIGATION, b 270-85
  - admiralty sailing rules, b 285
  - artificial horizons, b 280-1
  - chronometers, rating, a 281-2
  - clearing directions, b 270

NAVIGATION, *continued*
- PRACTICAL NAVIGATION
  - coast storms, a b 284
  - course and distance to destination, b 272-3
  - cross-bearing of the sun, b 277-9
  - double altitudes and observations, a 277-8
  - ex-meridian altitudes, a 277
  - graphic method of shaping course, b 284-5
  - great circle sailing, a 273-5
  - log, a 271-2
  - lunar observations, b 279-80
  - meridian altitudes, b 275-7
  - observations, a 275-81
  - reckoning from log, a b 272
  - soundings, a 275
  - statistics of wrecks and speed, a b 285
  - tides, b 282
  - variation, compass, a b 282
  - winds and currents, b 282-4

—— (Log), XIV, a 776-8; (Magnetism), XV, b 252-4; (Maldive Islands), a 334; (Map), b 525-9; (Maury, M. F.), b 649; (Napier, J.), XVII, b 185; (Phocæa), XVIII, a 812; (Phœnicia), a 818; (Phosphorus), b 830
——, aërial (Aëronautics), I, a 167, a b 182
——, American, in civil war (United States), XXIII, b 822, b 825; rise of (United States), a b 807, a b 808, note, a 809; statistics (United States), b 883-4
——, ancient Greek (Ptolemy), XX, a 100
—— charts, Mercator's (Globe), X, a 608
——, electric (Traction), XXIII, a 528
Navigationi e Viaggi (Ramusio), XX, b 281, a b 282-3
Navigation improvements (River Engineering), XX, a 588-96
——, instruments of (Gilbert, W.), b 528
NAVIGATION LAWS, XVII, a 285-7; (Barbados), III, *b* 310, b 311; (Canada), IV, b 686-7; (Collingwood), VI, a 131; (Holland), XII, a b 83; (Ireland), XIII, b 235, a 239, a 274; (Otis), XVIII, a 71; (Peel), b 467; colonial (United States), XXIII, b 780-1, b 784, a b 785, a 786; Scotch (Borough), IV, b 56-7
——, progress of (Geography), X, b 162, a b 167-8
——, river (Argentine Republic), II, b 432; (Danube), VI, b 721-2; (Dnieper), VII, a 266; (Elbe), b 717; (India), XII, b 794-5; (Japan), XIII, b 581; (Rhone), XX, a b 543

Navigation, Sawaiori (Polynesia), XIX, a b 437, a 439
—— schools (Belgium), III, b 449; (Holland), XII, b 69, a 70
—— warnings (Signal Service), XXII, b 904, a 905
NAVIGATORS' ISLANDS, XVII, a b 287
Navigator's projections (Geography), X, b 186
Navigium seu Vota (Lucian), XV, b 46
Naviglio Grande, canal, Milan (Hydromechanics) (Ill.), XII, b 501
Naville, E., archæologist (Rameses), XX, a 278
Navvies (Dietetics), VII, a 176, a 185
NAVY, XVII, a 287-310
  barbette ships, b 294
  civil officers, a b 302
  commission officers, b 300-1
  comparative view, b 299-300
  comparative view of personnel, b 307-9
  cost, a 299, a b 307
  crew, a 304-5
  Cromwellian navy, a b 290
  cruising iron-clads, b 294-5
  Declaration of Paris, b 298-9
  designs, report on armor, b 295-6
  discipline, a 305-6
  Georges, The Four, b 291-2
  guns, a b 299
  hygiene, a 306
  impressment, a 304-5
  iron-clads, a 292-5, a b 296
  list of British navy, 296-7
  mail contracts, a b 298
  materials of construction, b 295, b 297
  mercantile marine, b 297-9
  military officers, b 300-4
  pay and rewards, a 306-7
  Plantagenet period, a 287-9
  prize money, a 307
  rams, a 293
  regulations of service, a b 303
  reserves, a 305
  Saxon period, a b 287
  staff-officers, a 302-3
  steam war ships, rise of, a 292
  Stuart period, b 289-91
  torpedoes, a 293
  training, b 305-6
  Tudor period, a b 289
  turret ships, b 293-4
  unarmored cruisers, a b 295, a 297
  uniform, b 303-4
  United States, b 309-10
  warrant officers, b 301-2
  works on, a 309
—— (Alfred the Great), I, a b 447, a 448; (Austria), III, a 108; (Brazil), IV, b 213-4; (Chili), V, b 541; (Cochin China), VI, b 88; (Denmark), VII, b 72; (Europe), VIII, a 620; (Germany), X, b 420-1; (Greece), XI, b 77, b 111; (Holland), XII, b 68; (Italy), XIII, b 468; (Norway), XVII, b 596, a 597; (Portugal), XIX, b 554; (Russia), XXI, a 79; (Menshikoff), XVI, b 17; (Spain), XXII, a 318; (Sweden), b 781; (Turkey), XXIII, b 697
——, Athenian (Demosthenes), VII, a 61; (Finance), IX, b 150, a 151
—— banks (Savings Banks), XXI, a 345
——, British (Anchor), II, 6; (Court-Martial), VI, b 459, a 461; (England), VIII, b 222-3, a 324-5; (Flag), IX, a 244; (Hood, Lord), XII, b 149, a 150; (Marines), XV, b 551-3; (Pepys), XVIII, b 530, a b 531; (Precedence), XIX, a 687; (Savings Banks), XXI, a 345; (Seamen Laws), a 635; (Shipbuilding), a 859-61; Scotch (Scotland), b 518
—— of Dionysius (Syracuse), XXII, a 855
——, French, XVII, a b 292; (Admiral), I, a 142, b 144; (Colbert), VI, b 111; (France), IX, b 456-7; (Gambier), X, a 55; (Paris), XVIII, 283
——, German, XVII, b 299-300; (Germany), X, b 421-2
Navy List (Navy), XVII, a b 303
Navy yards (Brooklyn), IV, b 334; (Dockyards), VII, b 269-77; (Gosport), X, b 749; (Portsmouth), XIX, b 550; (Sydney), XXII, b 847
Nawáb, title (India), XII, a 835; of Bengal (India), a b 840-1; of Oudh (India), a b 841, b 848
Nawákhila, sect (Medina), XV, a 827
NAWÁNAGAR or Nawanuggur, state and town, XVII, a 311
NAWAWI, saint, XVII, a 311; (Tabarí), XXIII, b 8
Na-weng, system of rivers (Prome), XIX, b 829
NAXOS, colony, XVII, a b 311; (Greece), XI, b 85; (Numismatics), XVII, b 655; (Sicily), XXII, b 20, b 23
NAXOS, island, XVII, a 311; (Emery), VIII, a 157; (Greece), XI, a 80, a 89, b 90; (Philetas), XVIII, a 756; (Pisistratus), XIX, a b 140
Nav, musical instrument (Transverse Flute), XXIII, b 552
NAYÁGARH or Nyagur, state, XVII, b 311
Nayan Khan (Kublai Khan), XIV, a 152
NAYLER or Naylor, James, fanatic, XVII, b 311
NAZARENES, sect, XVII, b 311-2; (Ebionites), VII, b 535
NAZARETH, town, XVII, a 312; (Galilee), X, a 26; (Jesus Christ), XIII, a 672, b 674; capture of, 1187 (Egypt), VII, b 653
—— river (Ogoway), XVII, a 754
NAZARITE or Nazirite, devotee, XVII, a b 312; (Israel), XIII, b 417; (Monachism), XVI, b 724; his vow (Taboo), XXIII, b 22
Nazaroff, P., explorer (Ural Mountains), XXIV, a 9 note
Nazzari, Francesco, cardinal (Periodicals), XVIII, a 553
N'dar, towns (St. Louis), XXI, a 192
Nea, river (Norway), XVII, b 589
NEAL, Daniel, historian, XVII, b 312-3; (Boston), IV, a 68
——, Joseph, humorist (American Literature), I, b 638
NEALE, John Mason, historian and hymnologist, XVII, a 313; (Greek Church), XI, a 139, a b 142; (Hymns), XII, b 614, a b 615, b 616, b 617, a b 618, b 619, a 620, b 630
Nealces, painter (Archæology), II, b 320
NEANDER, Johann August Wilhelm, church historian, XVII, a 313-4; (Chrysostom), V, b 661; (Church), a 664; (Church History), b 669; (Jesus Christ), XIII, b 682, b 683; (Julian), a b 779
NEANDER, Joachim, poet, XVII, a b 314; (Hymns), XII, a 622
Neandria, ancient town (Troad), XXIII, b 617
Neap Tide, XXIII, b 375, a 376, a 377, b 386, b 393; (Mechanics), XV, b 694
Neapolis, ancient city (Naples), XVII, b 197-8; (Numismatics), a 653; (Rome), XX, a 764
——, ancient towns (Kava), XIV, b 20; (Leptis), b 470; (Shechem), XXI, a 820
Neapolitan dialects (Italy), XIII, a 505-6; Earthquake, VII, b 527, b 528; hogs (Agriculture), I, b 355; school of music (Durante), VII, b 477; Wines, XXIV, b 642
NEARCHUS, admiral, XVII, b 314-5; (Alexander the Great), I, b 428; general (Geography), X, b 157; (Ormus), XVII, b 880
Nearctic region (Birds), III, b 650-3; (Distribution), VII, a 234, b 238-9; (Ichthyology), XII, b 714
Neate, Charles, statesman (Sainte-Beuve), XXI, b 170
NEATH, town, XVII, a b 315; (Glamorgan), X, a b 565; vale of (Coal), VI, a 48
Neats-foot oil (Oils), XVII, b 760, a 765, b 768
Neb river (Man), XV, a 458
Nebaioth, tribe (Ishmael), XIII, b 396; (Nabatæans), XVII, b 166
Nebalia, genus (Crustacea) (Ill.), VI, a b 575, b 578 note, b 586, a 587
Nebenius, Carl Friedrich, economist (Political Economy), XIX, a 401
Nebiim, enthusiasts (Israel), XIII, a b 413, a 414, b 417; (Prophet), XIX, b 836, a b 837 note
Nebi Samwil, mount (Palestine), XVIII, b 176
Nebka, king (Egypt), VII, b 634
Nebo, Mount (Palestine), XVIII, a 177
——, Mount (Utah), XXIV, b 24
NEBRASKA (Plate II), XVII, a 315-9
  climate, a b 316
  geology, a 317-8
  history, b 318-9
  natural history, a 317
  political and industrial affairs, a b 318
  surface, b 315-6
  water system, b 316-7
—— (United States), XXIII, a 830, a 831; (Universities), a 913, a b 955; statistics (United States), b 853, a b 855, a 856, a b 857, a 860, b 862, a 863, a b 873
—— City, XVII, b 318
Nebrissa, town (Lebrija), XIV, b 396
Nebrissensis, Elio Antonio, humanist (Lebrija), XIV, b 396
Nebrodian mountains (Sicily), XXII, a 35
Nebti or Nephthys, goddess (Egypt), VII, b 621
NEBUCHADNEZZAR, king, XVII, a 319; (Babylon), III, b 158; (Babylonia), a b 163; (Daniel), VI, b 707, a 708, b 710; (Israel), XIII, b 426; (Jeremiah), b 637, a 638; (Judith), b 775; (Kurdistan), XIV, a 160 note; (Persia), XVIII, b 575; (Phœnicia), b 821; (Theism), XXIII, b 256
——, pretenders (Persia), XVIII, b 580
Nebulæ (Astronomy), II, a 718-9; orders of, b 718; spectra of, a 719; variable, a 719; in Andromeda, b 718; in Orion (Plate XXX), a 718
—— (Herschel), XI, b 683, a 684, b 685-6; (Light), XIV, a 583; (Rosse), XX, a 879; spectra of (Geology), X, a 192
NEBULAR THEORY, XVII, a 319-21; (Geology), X, a b 191, a 192; (Kant), XIII, b 856; (Laplace), XIV, a 302; (Tides), XXIII, a b 406
Necessarium (Abbey), I, a 19, a 20, a 23
Necessary judgments (Analytical Judgments), I, a 700; truths (Belief), III, a 460; (Cousin), VI, a b 466, a 468
Necessitarianism (Collins), VI, b 132; Spinoza on (Cartesianism), V, b 138
Necherophes or Necherochis, king (Egypt), VII, b 634
Nechin-Gangra mountains (Tibet), XXIII, a 362
NECHO or Neku, king, Egypt, XVII, a 321; (Egypt), VII, b 643-4; (Libya), XIV, a 554; (Philistines), XVIII, a 770, note
—— or Neku II., king (Egypt), VII, a 644
Nechtan, king (Scotland), XXI, b 498
Neçib, governor (Israel), XIII, b 412, note, a 413

Neckam, Alexander, abbot (Phædrus , XVIII, b 740
Neckar river (Germany), X, *b* 402, a b 404, b 405, b 411; (Heidelberg), XI, *b* 555; (Würtemberg), XXIV, *b* 735, a b 736, *a* 737
NECKER, Jacques, financier, XVII, a 321-2; (Desmoulins), VII, a 113; (France), IX, b 523, *a* b 524, a 525, a b 526, a b 527, b 529; (Mirabeau), XVI, b 518, a b 519; (Stael), XXII, b 456
Neckham, Alexander, poet (Garlic), X, a 73; (Galangal), a 17 note
Necklace of Harmonia, XI, a 430
——, ship's, defined (Seamanship), XXI, a 634
Necks, in rocks (Geology), X, a b 277
Necrology of Apis, II, b 152
Necromancy (Dee, John), VII, b 21; (Magic), XV, a 200, b 202-3
Necrophaga, beetles (Coleoptera) (Ill.), VI, a b 118
Necropolis (Sardis), XXI, b 325; Esquiline (Rome), XX, a 830, note
NECROSIS, disease, XVII, a 322; (Matches), XV, a 632; (Surgery), XXII, b 719; (Whitlow), XXIV, a 586; cartilaginous (Surgery), XXII, b 720-1; syphilitic (Pathology), XVIII, a 415; of teeth (Dentistry), VII, a 85; of tissue (Surgery), XXII, a 717-8
Nectanebes, kings (Egypt), VII, a 645
Nectanebus, king of Egypt, myth (Romance), XX, a 656
NECTAR AND AMBROSIA, XVII, a b 322
—— in flowers (Honey), XII, b 139-40; (Physiology), XIX, b 60-1
Nectaries (Botany) (Ill.), IV, a 81, b 116, b 121, b 126
Nectarina, genus (Wasps), XXIV, b 413
NECTARINE, fruit, XVII, b 322; (Horticulture), XII, b 217, a 283-5; (Peach), XVIII, a b 453
Nectariniidæ, family (Sun-Bird), XXII, *a* b 686
Nectarius of Constantinople, patriarch (Penance), XVIII, a 497
Nectocalyx (Hydrozoa)(Ill.), XII, a 583, a b 598, a 599
Nectogale, genus (Mammalia) (Ill.), XV, *a* b 407
Nederlant's See-Rechten (Sea Laws), XXI, b 611
Nedham, Marchmont, journalist (Newspapers), XVII, b 424-5
Nedím, poet (Turkey), XXIII, b 698
Nedjed, region. See Nejd
Nedjef, inland sea (Babylonia), III, b 159
Nedorosl (Russia), XXI, b 114
Needham, John Tuberville, naturalist (Bee), III, a 418
——, Walter, physiologist (Embryology), VIII, b 151
Needle, magnetic (Aurora), III, a 83-4; (Compass), VI, b 200-3; (Galvanometer), X, b 45, a 47; (Magnetism), XV, b 220, a b 221, b 228; rupture of (Magnetism), a b 259
——, knitting (Hosiery), XII, b 312-3
——, saw-gin (Cotton), VI, a 429
NEEDLE, sewing, XVII, b 322-3; (Sewing Machines), XXI, a b 918, *a b* 919
Needle-gun (Army), II, *a* 489; (Dreyse), VII, a 406; (Gunmaking), XI, a b 248, a 250; moral effect of (Battle), III, a 385
Needle lubricator (Lubricants), XV, b 37
Needle-ore (Mineralogy), XVI, b 411
Needlepoint Lace (Ill.), XIV, *b* 184, a 186-8
Needlestone (Mineralogy), XVI, a 385
Needle weir (River Engineering), XX, a b 589
Neepigon basin (Canada), IV, a 686
NEER, Van der, Aernaut, painter, XVII, a 323-4
NEER, Eglon, painter, XVII, a 324
Neerwinden, battle of, 1793 (Austria), III, b 113; (France), IX, a 533
NEES VON ESENBECK, Christian Gottfried, botanist, XVII, a b 324
——, Theodore, botanist, XVII, b 324
Ne exeat regno, writ (Prerogative), XIX, a 693; (Writ), XXIV, *a* b 732
Nef, casket (Plate), XIX, b 196
Nefer, musical instrument (Lyre), XV, a 115
Neferhotep, god (Chons), V, b 595
Nef'í of Erzerúm, poet (Turkey), XXIII, b 698
Nefood, ridges (Arabia), II, a 208
NEGAPATAM, town, XVII, b 324; (Tanjore), XXIII, a 52
Negative Electricity, VIII, b 16-17
—— Magnetism, XV, b 227
—— Prescription, XIX, a 726
—— print (Photography), XVIII, b 837, a 843
Negative Quantities, Essay on (Kant), XIII, a 857, b 858
—— values (Insurance), XIII, a 183
Negeb, district (Idumea), XII, a 738; (Palestine), XVIII, a b 177
Neger-Englisch, language (Guiana), XI, a 224, note
NEGLIGENCE, in law, XVII, b 324-5; (Damages), VI, a b 695; (Diligence), VII, a 209; (Jury), XIII, a b 796; (Labor), XIV, b 174-5; (Partnership), XVIII, b 336; (Tort), XXIII, b 483-4
Negoi mountain (Transylvania), XXIII, a 555
Negombo, lake and town (Ceylon), V, *a* 313, b 316
Negotiable obligations (Roman Law), XX, b 718
Negra Cordillera, mountains (Peru), XVIII, a 684, b 685
Negretti and Zambra's Thermometers (Ill.), XXIII, a b 311, b 312, a 313
Negri Sambilan, districts (Malay Peninsula), XV, a 325
Negrito race (Andaman Islands), II, a 12-3; (Indian Archipelago), XII, a 857; (Malay Peninsula), XV, b 325; (Philippine Islands), XVIII, b 766
Negro river. See Rio Negro
NEGRO, race, XVII, b 325-9
  American distribution, a 329
  bibliography, a b 329
  domain, b 325-6
  ethnological groups, b 327-8
  hybrids, b 328-9
  languages, a b 327
  mental characteristics, b 326-7
  physical type, a b 326
  Soudan groups, b 327-8
  South African or Bantu groups, a b 328
—— (Africa), I, b 235, a b 236; (Algeria), b 497; (America), b 617; (Argentine Republic), II, b 434, b 435; (Fetichism), IX, a 104; (Fezzan), a b 114; (Funeral Rites), *a* b 724, a 725; (Hayti), XI, b 486; (Houssa), XII, b 331-2; (Longevity), XIV, b 869; (Mesopotamia), XVI, b 56; (Missions), a 540; (New Orleans), XVII, b 415; (Nubia), b 626-7; (Soudan), XXII, b 291, a 292; (United States), XXIII, a b 875; (West Indies), XXIV, a 538, a 539, a 540; (Yaws), b 768, a b 769; (Yellow Fever), b 770, *a* 772
——, brain of (Anatomy), I, a 773; obesity (Pathology), XVIII, a 398; speech (Anthropology), II, *a* 106
—— insurrections (Jamaica), XIII, b 560, a 561
—— Religions, XX, a 375
—— Slavery, XXII, b 906-10
—— suffrage (United States), XXIII, *a* b 830, a *b* 832, a 833
"Negrohead" (India-Rubber), XII, b 877, b 879
Negroid races (Africa), I, a 236; (Anthropology), II, b 100; (Asia), a b 609; (Negro), XVII, b 325, a 326, note, b 327. See Negrito
Negroland. See SOUDAN
Negropont, island (Eubœa), VIII, b 569, a b 570
Negros, island (Philippine Islands), XVIII, a 763, a b 766
Negus, ruler (Abyssinia), I, *b* 64, *a* 65
Neháwend, battle, 641 (Mohammedanism), XVI, b 585, b 626; (Persia), XVIII, a 627
NEHEMIAH, governor, XVII, b 329; (Bible), III, a *b* 549; (Canon), V, b 3-4; (Isaiah), XIII, b 390; (Israel), b 428; (Pentateuch), XVIII, b 524; (Weights and Measures), XXIV, *a* 514
——, *Book of*, XVII, b 329; (Artaxerxes), II, b 560; (Chronicles), V, b 613; (Ezra), VIII, a 728; (Tabernacles, Feast of), XXIII, a b 10
Nehra, Madame de (Mirabeau), XVI, a b 517
Nehring, Ladislaus, philologist (Poland), XIX, a 317
Nehrungen, coast lines (Germany), X, a 402
Neiba river (Hayti), XI, *a* 486
Neidaham, poems (Tamils), XXIII, b 48
Neil, William, mathematician (Infinitesimal Calculus), XIII, a 8
Neilgherry Hills. See NILGIRI HILLS
Neira, island (Banda Islands), III, *b* 267, a 268
NEISSE, town, XVII, b 329; (Silesia), XXII, a 59; river (Germany), X, b 403, a 404
Neit, god (Celtic Literature), V, *b* 260, b 279
Neith or Nit, goddess (Egypt), VII, b 622, b 666
Neivinskiy Zavod, town (Neviansk), XVII, a 378
Nejd, district (Arabia), II, *a* 207, a 208, b 209, *a b* 211, *a* b 212, *a* b 213, *b* 217, *b* 218, *a* b 219, a b 220, *b* 221, a *b* 227, *a* b 228, a b 229; (Mesopotamia), XVI, b 56; (Mohammedanism), a 569; (Oneiza), XVII, *b* 795, *a* 796; horses (Arabia), II, a b 210
Nejran, district and town (Arabia), II, a 221, a 224, a 228; (Yemen), XXIV, b 778
Nekht-har-heb or Nectanebes I., king (Egypt), VII, a 645
Nekht-Nebf II., king (Egypt), VII, a 645
Nekrasoff, Nikolai, poet (Russia), XXI, a 117
Neku, king. See NECHO
NELEUS, myth, XVII, b 329; (Nestor), XVII, a 363; (Pelias), XVIII, a 485
——, philosopher (Aristotle), II, a 450
Nelli, Ottaviano, painter (Schools of Painting), XXI, a 453, b 462
NELLORE, district and town, XVII, a 330
Nelly, weight (Weights and Measures), XXIV, b 518
NELSON, port, XVII, a b 330
NELSON, Horatio, viscount, admiral, XVII, b 330-3
  battle of the Nile, b 331
  commodore in the Mediterranean, b 330-1
  Danish expedition, a 332
  early American service, b 330
  Trafalgar battle, b 333
  treachery at Naples, b 331-2
  Villeneuve opposes, b 332-3
—— (Canary Islands), IV, b 705; (Cirillo), V, *b* 692; (Collingwood), VI, a b 131, a 132; (Hamilton, Sir W.), XI, a 376; (London), XIV, a 832; Column (London), b 849; (Metal-Work), XVI, b 84; Pillar (Dublin), VII, b 428
Nelson's process (Gelatin), X, b 119

Nemalite (Mineralogy), XVI, a 404
Nemanya, Stephen, king (Servia), XXI, a 721
Nemathelminths, order (Nematoidea), XVII, b 333; nerves of (Physiology), XIX, b 35
Nematoblasts (Reproduction) (Ill.), XX, b 424, a 425
Nematocera, group (Diptera), VII, b 222-3; (Insects), XIII, b 156, a 157
Nematocyst (Hydrozoa) (Ill.), XII, b 581, *b* 582
Nematodes. See NEMATOIDEA
Nematogenys, genus (Ichthyology), XII, a 715, a 731
NEMATOIDEA, worms (Ill.), XVII, b 333-5; (Animal Kingdom), II, b 46, *a* 47, a b 49; (Galls), X, a b 42; (Parasitism), XVIII, b 263, a b 264, b 265, a b 275; (Sagitta), XXI, *b* 156; (Veterinary Science), XXIV, a b 222, a 223; (Zoology), a 852
Nematophora, phylum (Zoology), XXIV, a 851
Nematophors, processes (Hydrozoa), XII, b 582
Nematus, insect (Saw-Flies), XXI, a b 358; (Gooseberry), X, b 693
Nemausus, city (Nimes), XVII, a 524; (Numismatics), a 652
Nemcova, Bozena, authoress (Slavs), XXII, a 162
Nemean Games, X, a 59; (Greece), XI, b 88
Nemed, chief (Ireland), XIII, a b 249-50
Nemedians, race (Celtic Literature), V, a 260
Nemerteans. See NEMERTINES
Nemertes, nymph and genus (Nemertines), XVII, a b 335, note
NEMERTINES or Nemerteans, worms (Ill.), XVII, a 335-40
  anatomy, a 336-40
  brain lobes and cords, b 337-8
  circulatory system, b 339-40
  classification, b 335-6
  cutaneous system, a 337
  development, a b 340
  digestive system, a b 339
  general character and place, a b 335
  generative system, a 340
  literature, b 340
  muscular system, a b 337
  nephridia, a 340
  nervous system, b 337-9
  proboscis and sheath, a 336-7
  sense organs, a 339
—— (Annelida), II, b 63; (Mollusca), XVI, a b 676; (Parasitism), XVIII, b 263; (Vertebrata) (Ill.), XXIV, b 198, *a* 199, b 201
NEMESIANUS, Marcus Aurelius Olympius, poet, XVII, b 340-1; (Calpurnius), IV, *b* 630, a 631; (Hunting), XII, a 409
NEMESIS, goddess, XVII, a 341; (Helena), XI, *a* 562
——, courtesan (Tibullus), XXIII, a 371, *a* 372
Nemesis, painting (Dürer), VII, b 480
Nemesis and Murderer, painting (Rethel), XX, a 502
NEMESIUS, bishop, XVII, a 341; (Alchemy), I, a 408
Nemetacum, town (Arras), II, a 550
Nemi, lake (Latium), XIV, a 344
Nemocera. See Nematocera
Nemours. See DUPONT DE NEMOURS
——. See Medici, Giuliano de'
Nemrood. See Nimrúd
Nemthur, town (Patrick, St.), XVIII, b 421, note
Nen, river (Huntingdon), XII, *b* 412
NENAGH, town, XVII, a 341
Nencia da Barberino (Italy), XIII, a 518; (Medici), XV, a 797
Nene, river (Cambridge), IV, b 643, b 644; (Lincoln), XIV, a 661; (Northampton), XVII, a 569, a 570; (Peterborough), XVIII, a 713
Nengone or Mare island (Loyalty Islands), XV, *b* 32
NENNIUS, historian, XVII, a b 341; (Celtic Literature), V, b 273; (Romance), XX, a b 658, note, a 659
Neobalæna, genus (Mammalia), XV, b 376, b 398
Neocastro (Navarino), XVII, a 256
Neo-Catholicism of France (Ozanam), XVIII, b 115, a 116
Neocomian rocks (Geology), X, *a* b 317, b 318, a 319
Neodamodes, class (Helots), XI, a 570
Neodrepaninæ, genus (Sun-Bird), XXII, b 686
Neo-Druidism (Celtic Literature), V, a b 276, a 285
"Neo-grammarians" (Philology), XVIII, a 796
Neo-Hellenic language (Greece), XI, b 132
Neo-Latin dialects (Italy), XIII, a 502-3, b 504-7. See ROMANCE LANGUAGES
Neolithic age (Archæology), II, b 295-6, b 298; (Horse), XII, b 178-9; man (Cattle), V, *a* 213, a 214; (Cave), b 233-4; (Iberians), XII, b 640; (Russia), XXI, a 86
Neomeniæ, order (Mollusca) (Ill.), XVI, b 663, a b 664
Neomeris, genus (Mammalia), XV, b 402; (Porpoise), XIX, b 536-7
Neonomianism, doctrine (Presbyterianism), XIX, b 704
Neoparaffins (Chemistry), V, b 483, a 484
Neophroninæ, sub-family (Vulture), XXIV, b 322
NEOPHYTE, XVII, b 341
NEOPLATONISM, system of philosophy, XVII, b 341-8
  Athenian school, a 347
  Christian conquest, b 346-7, a 348
  Iamblichus, school of, b 346
  literature, b 348
  mediævalism, b 348
NEOPLATONISM, *continued*
  mystical character of, b 343-4
  origin, a b 344
  Plotinus, a 345-6
  Porphyry, a b 346
  relations to old philosophies, b 341
  religions, attitude toward, b 342-3
  political character of, a b 343
  theology, influence on, b 347-8
—— (Alexandrian School), I, a 440, b 441, a 442; (Ammonius), b 651; (Ammonius Saccas), a 652; (Apparitions), II, b 177; (Eclectic), VII, a 548; (Ethics), VIII, b 517-8; (Evolution), a 659, b 663; (Ficino, M.), IX, b 121; (Hosea), XII, b 310; (Hypatia), a 631; (Iamblichus), a 637-8; (Longinus), XIV, a 875; (Magic), XV, b 203-4; (Manichæism), *a b* 489, b 492, a 494; (Metaphysic), XVI, a 87, a 105; (Millennium), b 328; (Mohammedanism), b 615, note, a b 616; (Monachism), b 724; (Mysteries), XVII, b 135-6; (Mysticism), b 137-8; (Origen), *a* 866; (Peripatetics), XVIII, a 558; (Pessimism), b 698; (Plato), XIX, a 223; (Simplicius), XXII, a 93
NEOPTOLEMUS, hero, XVII, b 348-9; (Andromache), II, b 21
Neo-Punic inscriptions (Semitic Languages), XXI, a 679
Neo-Pythagoreans (Pythagoras), XX, b 145, note
Neosho river (Kansas), XIII, *a* 852
Neosorex, genus (Mammalia), XV, *a* 407
Neo-Sumirian language (Ural-Altaic), XXIV, a 7
Neo-Syriac dialects (Semitic Languages), XXI, b 681
Neoterics, school (Medicine), XV, a 817
Neotoma, genus (Mouse), XVII, a 12
Neotropical region (Birds), III, a 644-50; (Coleoptera), VI, a 117; (Distribution), VII, *a* 234, a 237-8
NEPAL or Nepaul, state (Map), XVII, a 349-54
  agricultural pursuits, b 351-2
  area and boundaries, a 349
  army, b 351
  Bahádur family, a b 354
  calendar, a 353
  climate, a 351
  coinage, a b 352
  diseases, a b 351
  government, b 352-3
  history, a 353-4
  industrial features, a 352
  natural history, a 349-50
  orography, a b 349
  races and manners, a b 350, a b 351
  rivers, b 349
  valley of Nepāl, b 350-1
—— (China), V, a 565; (Goat), X, a 633; (Hastings, Lord), XI, b 461-2; (Himalaya), a 735; (Oudh), XVIII, b 74, a b 76; (Saturn), XXI, b 336 note; acquisition in (India), XII, b 844; avifauna (Birds), III, a 660; Pine, XIX, *a* b 114; revolt in (Tibet), XXIII, a 367; valley (Lhasa), XIV, a b 497, a 498
Nepean, island (Norfolk Island), XVII, a 551
Nepeña, river (Peru ,XVIII, a 684
Nepenthes, plant (Botany) (Ill.), IV, a 101, a 103; (Insectivorous Plants) (Ill.), XIII, *b* 140, b 142, a b 145, a 146
Nepeta, plant (Horticulture), XII, a 259
Nepete, town (Rome), XX, b 758, a b 759, b 760, b 761
Nephalists, total abstainers (Liquor Laws), XIV, b 694-5
Nepheline, mineral (Geology), X, a 203; (Mineralogy) (Ill.), XVI, a 430
Nephelis, genus (Leech) (Ill.), XIV, a 401, b 402, a 403, a b 405
Nephila, genus (Arachnida), II, a 260
Nephin, mountain (Mayo), XV, a 657
Nephridia, organs (Mollusca) (Ill.), XVI, a 656, a 657, a b 658, a 659, b 665, a 666, b 698, a b 702, a b 704, b 710, b 717, b 718; (Nemertines), XVII, a 340; (Polyzoa), XIX, b 448, b 452, a 453, b 455; (Rotifera) (Ill.), XXI, a 9, a 11; (Worm) (Ill.), XXIV, a b 714-5, b 716, b 718, note, a 719
Nephrite, mineral (Jade), XIII, b 549-51; (Mineralogy), XVI, b 435
Nephritis (Bright's Disease), IV, *a* 312; (Scarlet Fever), XXI, a 394
Nephrodium, fern (Tree-fern), XXIII, a 568; (Ferns) (Ill.), IX, *b* 89, *a* b 91
Nephroma (Lichens), XIV, a 557, b 559, a 565
Nephthys, goddess (Egypt), VII, a 620, a b 621
Nepisiguit, river (New Brunswick), XVII, b 382
Nepoko, river (Zaire), XXIV, b 802
Nepomuk, St. John. See JOHN of Nepomuk
NEPOS, Cornelius, historian, XVII, b 354
NEPOS, Julius, emperor, XVII, *b* 354; (Odoacer), a b 747
——, bishop (Millennium), XVI, b 328
Nepotism (Alexander VII. and VIII.), I, b 433; (Farnese), IX, a 33; (Innocent XII.), XIII, b 92; (Italy), a 491; (Nicholas III.), XVII, b 497; (Popedom), XIX, b 520, a 525; first political papal (Sixtus IV.), XXII, b 111
NEPTUNE, god, XVII, a 355; (Amphitrite), I, b 681; (Amymone), b 686
——, planet (Astronomy), II, b 711-2; (Leverrier), XIV, b 486; sub-system of (Tides), XXIII, *b* 405

Neptune and Amphitrite, painting (Gossart), X, a 750
Neptune Français, treatise (Chazelles), V, a 394
Neptune's Staircase (Canal), IV, a 696
Neptunist geological theory (Lyell), XV, a 103; (Werner), XXIV, a 530
Nequinum, colony (Umbria), XXIII, b 771
Nera, river (Italy), XIII, a 448
NÉRAC, town, XVII, a 355
Neránkot, town (Hyderabad), XII, a 446
NERBUDDA or Narbadá, river, XVII, a 355; (Bombay), IV, b 20; (Central Provinces), V, a *b* 297; (Gwalior), XI, b 308; (Hoshangábád), XII, *b* 311, a 312; (India), a 772, b 794; (Indore), *a* 886; (Jabalpur), XIII, b 538; (Narsinhpur), XVII, b 240
Nereidæ, family (Annelida) (Ill.), II, b 58, a 59, *a* 60, b 63, a 64
Nereid monument (Archæology), II, b 316, b 318
Nereids, sea nymphs (Nereus), XVII, b 355
NEREUS, myth, XVII, a b 355
Nergal-sharezer, king (Babylonia), III, a 163
Nergisi, author (Turkey), XXIII, a 699
Neri, Antonio, chemist (Glass), X, a 583, b 595
NERI, Philip, saint, XVII, b 355-7; (Baronius), III, a 336; (Music), XVII, a b 92; (Palestrina), XVIII, b 185
Neri, party (Florence), IX, b 292-3; (Italy), XIII, a 486, b 512
Neries river (Gambia), X, a 54
Nerio or Neriene, goddess (Mars), XV, b 577
Neritídæ, family (Mollusca), XVI, b 672; (Snail), XXII, b 197, a 198
Nero, Bernardo del, conspirator (Savonarola), XXI, b 352
——, Claudius, consul (Hannibal), XI, a 397; (Hasdrubal), a *b* 455
NERO, Lucius Domitius Claudius, emperor, XVII, a 357-61
  accession of, b 357-8
  Agrippina as empress-mother, a b 358
  burning of Rome, a 359
  Claudius' reign, a b 357
  conspiracies, b 359, a b 360
  descent of, a 357
  Galba's march, b 360
  Golden House, a b 359
  Grecian visit, b 359-60
  Poppæa's ascendency, b 358-9
  Seneca's management, b 357-8
—— (Acclamation), I, a 80; (Antichrist), II, *b* 110, *a* b 111; (Bagpipe), III, b 203; (Carriage), V, b 118; (Cornutus), VI, b 375; (Games), X, a 59; (Leek), XIV, a 410; (Lucan), XV, a 38; (Persius), XVIII, b 674, b 675, a 676; (Otho), b 63; (Petronius), b 734; (Revelation), XX, b 513-4; (Rome), b 790, *a* 791, b 793, a 829; (Seneca), XXI, b 690, *a* 691; Golden House of (Rome), XX, a 850; his house at Olympia, XVII, a 790; literary age of (Latin), XIV, a b 337; (Roman Literature), XX, a b 745
——, pretender (Persia), XVIII, a 614
Neroberg grape (Wine), XXIV, b 634
Nerone, mountain (Italy), XIII, a 447
Neroni, Bartolommeo, painter (Sodoma), XXII, b 258
Nerophis, genus (Pipe-Fishes), XIX, a 121
Neroulos or Nerulos, Jacobos Rizos, poet (Drama), VII, b 362; (Greece), XI, a 135
NERTCHINSK, town and mine, XVII, a 361; district, a b 361; (Siberia), XXII, a 7, a 9, b 10, b 13, a 14, *a* 15; (Transbaikalia), XXIII, a *b* 542, *a* 543
Nerthus or Isis, goddess (Germany), X, a 426
Neruda, Jan, poet (Slavs), XXII, a 162
Nerulos. See Neroulos
NERVA, Marcus Cocceius, emperor, XVII, b 361-2; (Rome), XX, a b 791; (Trajan), XXIII, a b 534, a 536
Nerve basis of Associated ideas, II, a 640, a b 641
Nerve-cells (Histology) (Ill.), XII, b 11-2; (Hydrozoa), b 584-5, a 593; (Nutrition), XVII, b 688; (Physiology) (Ill.), XIX, b 31-2; differentiation of (Physiology), b 18-9
—— -centres (Physiology), XIX, b 32-5; (Sleep), XXII, a b 166
—— currents (Physiology), XIX, a 30-1; depressor (Vascular System), XXIV, b 111-2; fibres (Histology), XII, b 11-2; (Mollusca), XVI, a 666; (Physiology), XIX, b 31, a 32; force (Physiology), b 26-7; discharges of (Pathology), XVIII, a 400
—— ganglia (Mollusca) (Ill.), XVI, a b 666, a 683, b 689, b 718, b 719; impulses (Physiology), XIX, b 12, b 21, a b 23; irritation of (Touch), XXIII, b 512; repair (Pathology) (Ill.), XVIII, a 373
Nerves (Anatomy) (Plates XVII, XVIII), I, b 753-76; (Mammalia), XV, b 369; central organs of (Physiology), XIX, b 31-50; classification of (Physiology), a 31; chemical constitution of (Physiology), a b 27, a 32; functional indifference of (Lewes), XIV, a 491; influence on glands (Physiology), XIX, a 35. See Nervous System
——, intestinal (Digestive Organs), VII, a 198
—— of eyeball (Anatomy), I, a b 779, *a* 780, a 781; of joints (Pathology), XVIII, a 407; of retina (Anatomy), I, a b 780-1; of tongue (Anatomy), a b 787; (Taste), XXIII, b 85; of touch (Anatomy), I, b 788; (Touch) (Ill.), XXIII, a 508-13; olfactory (Smell), XXII, b 176
——, reflex action of (Physiology) (Ill.), XIX, b 32-4; sensory and motor (Bell, Sir Charles), III, b 466-7; stimulation of, measured (Weber's Law), XXIV, b 497; structure of (Physiology), XIX, a 27; terminal organs of (Physiology), b 31
Nervii, tribes (Cæsar), IV, a 565
Nervous disease (Dietetics), VII, a 180; (Insanity), XIII, a b 102-3, a 106, a 107, b 114-5; (Pathology), XVIII, b 399-402; effects on circulation (Vascular System), XXIV, a 120; origin of (Throat Diseases), XXIII, a b 341, a 342; phenomena (Magnetism, Animal), XV, b 284-5; regulation of bodily heat (Pathology), XVIII, a b 403, b 404, note, a b 405, a 406, a b 407
—— system (Actinozoa), I, a 120, a 122; (Amphibia), a 673-4; (Annelida), II, a 60, a b 62, a b 63; (Ant), a 85; (Arachnida), a 239, a 241, b 242, a 244, b 246, a b 250, b 254, b 258; (Crustacea) (Ill.), VI, b 561-2; (Cuttle-Fish), b 650-1; (Echinodermata), VII, a 546, b 548, a 550, b 554, b 555; (Horse), XII, b 184; (Hydrozoa), b 584-5, a 593; (Ichthyology) (Ill.), b 671, b 687-9; (Insects), XIII, a 151; (Leech), XIV, b 401-2; (Mollusca), XVI, a b 659, a 666, a b 667, a 668, a b 704, a 705, b 710, b 718, b 719; (Myriapoda), XVII, b 123; (Nematoidea), b 333; (Nemertines) (Ill.), b 337-9, b 340; (Oyster), XVIII, a 110; (Planarians), XIX, b 182-3; (Polyzoa), a 447, a 448; (Reptiles), XX, a 473-4, a b 478; (Rotifera), XXI, a 11; (Trematoda), XXIII, b 571; (Tunicata), a 651, b 652, a 653, a 658; (Vertebrata) (Ill), XXIV, a 196-7, a 200-1; (Worm), b 713
—— system, human (Anatomy) (Plates XVII, XVIII) (Ill.), I, a 703, b 715, b 753-76; (Hysteria), XII, a b 635; (Lewes, G. H.), XIV, b 491; (Nutrition), XVII, b 700-1, b 705; (Pellagra), XVIII, b 487; (Physiology) (Ill.), XIX, a 26-50; (Respiration), XX, a 494-5; (Vascular System), XXIV, b 111-2; in inflammation (Pathology), XVIII, b 408-9
—— tissue (Histology), XII, *b* 6, b 11-2
Nervures (Dragon-Fly), VII, b 334; (Hymenoptera), XII, b 605-6, b 610, *a* 611
Nervus vagus (Anatomy), I, a 775; (Ichthyology), XII, a 689
Neryosangh, priest (Zend-Avesta), XXIV, a 816
NÉSHÁPUR or Nisbápúr, city, XVII, b 527-8
Neski, Arabic writing (Inscriptions), XIII, b 124
Nesodon, fossils (Mammalia), XV, a 432
Nesokia, genus (Mammalia), XV, a 424; (Mouse), XVII, b 11
Nesomys, genus (Mouse), XVII, a 12
Ness, Loch (Lake), XIV, a 218, *b* 219, *a* 220; (Scotland), XXI, b 548; river (Inverness), XIII, b 205
NESSELRODE, Charles Robert, count, statesman, XVII, b 362-3; (Persia), XVIII, b 662
Nessler's reagent (Mercury), XVI, a 39; (Nitrogen), XVII, *a* 534
Nest. See Nests and Nidification
Nesta Ap Tudor, mistress (Ireland), XIII, a 265
Neste, river (Pyrénées), XX, a b 133
NESTOR, bird, XVII, b 363-4; (Birds), III, a 644
NESTOR, chronicler, XVII, a b 363; (Poland), XIX, a b 297, note; *Chronicle of*, (Russia), XXI, *a* b 96, *a* 97
NESTOR, hero, XVII, a 363
Nestorian Church. See NESTORIUS
—— inscription (Se-Gan-Foo), XXI, a 653, note
—— literature (Syriac Literature), XXII, b 884-8, b 890-2, a 893-4, b 896-7, a 900-1
Nestoridæ, family of birds, XVII, b 363; (Parrot), XVIII, a 329
NESTORIUS AND NESTORIANS, XVII, a 364-7
  Aramæan branch, a b 366
  Cyrillian dissension, b 364-5
  Ephesian Council, a b 365
  exile, b 365
  imperial suppression of, a b 365
  Marian controversy in Constantinople, b 364
  modern Nestorians, a 366-7
  patriarchate, accession to the, a b 364
  Persian branch, b 366-7
  statistics, a b 367
  theological issue, b 365-6
—— (Arabian Philosophy), II, *b* 233-4; (Cyril), VI, a b 663; (Greek Church), XI, *b* 138; (Hang Chow Foo), b 393; (Heresy), b 658; (Jesus Christ), XIII, a 682; (Justinian I.), a b 805, a 806; (Liturgies), XIV, b 713; (Missions), XVI, a 536, b 540; (Nisibis), XVII, a 528; (Persia), XVIII, a 622, a 623, b 638, b 639; (Socotro), XXII, a 241; (Syriac Literature), a 869, *a* b 870, b 873, a b 878, b 879; (Theodoret), XXIII, b 275; (Zeno), XXIV, b 816-7

Nests (Ant), II, b 86, *b* 87, a b 88; (Arachnida), b 261; (Humble-Bee), XII, *b* 356; (Hymenoptera), a b 611; (Mole), XVI, a 631; (Mollusca), b 709, a 710; (Stickleback), XXII, a *b* 575; (Wasp), XXIV, a *b* 412, *b* 413, *a* b 414

——, Birds'. See Nidification

——, edible (Algæ), I, a 449; (Birds), III, a 669; (Swift), XXII, a 799

NET (Ill.), XVII, b 367–9; (Fisheries), IX, *b* 214, a b 215, a b 216; hair- (Costume), VI, b 404; Torpedo-, XXIII, a 480

Nethe, river (Belgium), III, a 445

Netherfield, parish (Sussex), XXII, *b* 761

Netherlands, country (Alva), I, a 570; (Belgium), III, a 455; (Briel), IV, a 310; (Charles V.), V, b 358, a 360; (Corn Laws), VI, a 366; (Egmont), VII, b 606; (Farnese, A.), IX, a b 34; (Fortifications), b 407–8; (Holland), XII, a 61–101; (Inquisition), XIII, a 101; (John, Don), a *b* 728; (Joseph II.), b 760; (Philip II.), XVIII, b 758, a b 759, a 760; (Pisciculture), XIX, a 138; (Police), b 356–7; (Presbyterianism), b 715–6; (Prison Discipline), a 781; (Reformation), XX, a 319; (Renaissance), a b 404; (Rubens), XXI, b 48, b 49, a b 50, a 51; (Schiller), b 413; (Temple, Sir W.), XXIII, b 187–8; (Universities), b 905–6; (Weights and Measures), XXIV, b 517; block-printing in (Typography), XXIII, b 726, a 727. See HOLLAND

Netherlands, History of the United (Motley), XVII, a 9; (Piracy), XIX, b 126

Nethersale, John, lawyer (Libraries), XIV, a 516

Nethertrees embankment (Water-Supply) (Ill.), XXIV, a 428

Nethinim, temple-servants (Levites), XIV, *a* 488

Néthou, Mont (France), IX, b 445; (Pyrenees), XX, a 131

Netley hospital (Army), II, a 511

Neto river (Calabria), IV, b 577

Nets. See NET

Netscher, Constantine, painter, XVII, a 369

NETSCHER, Gaspar, painter, XVII, a 369

——, Theodore, painter, XVII, a 369

Nettesheim, Henry Cornelius von, cabalist (Agrippa), I, b 371

Nettium, sub-genus (Teal), XXIII, b 112–3

NETTLE, plant, XVII, a b 369; (Botany) (Ill.), IV, a 80, a 81, b 90, a b 117; (Mimicry), XVI, a 355; -fibre (Fibres, Textile), IX, a 116

Nettlefold's bolt (Lock) (Ill.), XIV, b 754–5

NETTLERASH, disease, XVII, b 369; (Skin Diseases), XXII, a 130

NETTLE TREE, XVII, b 369 70; (Hackberry), XI, a 322

Net-yu, mountain (Tobolsk), XXIII, a 457

Neubauer, chemist (Wine), XXIV, a 634, a 635

——, orientalist (Syriac Literature), XXII, a 883

Neuber, Frederica Caroline, actress (Drama), VII, a 381; (Germany), X, b 476; (Lessing), XIV, *a* 479

NEU-BRANDENBURG, town, XVII, a 370

NEUBURG, town, XVII, a 370

——, family (Palatinate), XVIII, b 171

NEUCHATEL, canton, XVII, a b 370; (Switzerland, XXII, *a* b 816, a b 817, *a* 818, a 819, a 825 note, b 826, a 828, b 830, b 832, *a* 833, a 834

NEUCHATEL, Lake of, XVII, b 370–1; (Lake), XIV, a 219, a *b* 221; (Lake Dwellings), *a* 224, a 225; (Switzerland), XXII, a 815

NEUCHATEL, town, XVII, b 370; (Jura), XIII, *a* b 791, a 792; (Observatory), XVII, a 734; (Switzerland), XXII, b 816

Neu-che or Nyûché, Tatars (China), V, b 545, b 561

Neudietendorf, village. See Gnadenthal

Neudorf, town. See IGLO

Neuenheim, town (Heidelberg), XI, b 555, b 556

Neufchâtel. See NEUCHATEL

Neufville, Maria Jacoba de, novelist (Holland), XII, b 100–1

NEUHAUSEL, town, XVII, a 371

NEUHOF, Theodore, Baron von, king, XVII, a b 371

NEUILLY-SUR-SEINE, town, XVII, b 371; bridge (Bridges), IV, a 279, a 308

NEUMANN, Carl Friedrich, orientalist, XVII, b 371–2; (Hwen T'sang), XII, a 434

——, Christopher Augustus, bibliographer, III, a 569

——, Franz Ernst, physicist (Crystallography), VI, a 598; (Electricity), VIII, a 11, a 12, a b 72

——, J., physicist (Magnetism), XV, b 250

——, J. B., philologist (Sumatra), XXII, a 674, note

Neumark or Mittlemark, duchy (Prussia), XX, b 6, a b 7, *b* 8, a b 9

NEU-MUNSTER, town, XVII, a 372

NEUN-KIRCHEN, town, XVII, a b 372

Neuquen, river (Patagonia), XVIII, a 358

Neural arch (Anatomy), I, b 719, a b 728, *a* 729; (Mammalia), XV, b 359; (Skeleton), XXII, *b* 119; axis (Reptiles), XX, a b 473; foramina, cranial (Skeleton), XXII, b 123

NEURALGIA, XVII, b 372–4; (Acupuncture), I, b 123; (Gelsemium), X, b 121; (Malaria), XV, b 320; (Pathology), XVIII, b 399; Chinese cure of (Surgery), XXII, a 708; periodicity of (Pathology), XVIII, a 405; remedy for (Peppermint), a 529

Neuri, people (Scythia), XXI, b 602; (Slavs), XXII, b 154

Neurilemma (Anatomy), I, b 754

Neurine (Chemistry), V, b 508; (Nitrogen), XVII, b 533

Neuritis, disease (Ophthalmology), XVII, b 806

Neuroglia, tissue (Anatomy), I, a 745, b 754, b 755, a 766, *b* 770; (Insanity), XIII, b 105; (Physiology), XIX, b 31, a 32, b 39

Neuro-hypnotism (Magnetism, Animal), XV, *b* 279, b 280–5

Neurokeratin (Physiology), XIX, *b* 27

Neurology. See Nerves and Nervous System

Neuroptera, order of insects (Angling), II, a 35; (Insects), XIII, b 153, a 154, a b 158

Neurosis, disease (Pathology), XVIII, b 400; (Skin Diseases), XXII, b 131

Neuroterus, insect (Galls), X, b 40, note, b 42

Neurotics (Poisons), XIX, a 290–1

NEU-RUPPIN, town, XVII, b 373–4

NEU-SANDEC, town, XVII, a 374

NEUSATZ, town, XVII, a 374

Neusiedler See, lake (Austria), III, b 101; (Hungary), XII, b 376

NEUSOHL, town, XVII, a 374

NEUSS, town, XVII, a b 374; siege of, 1474 (Charles the Bold), V, b 368

NEUSTADT, Austria, XVII, b 374

NEUSTADT, Silesia, XVII, b 374

—— district (Saxe Weimar), XXI, *b* 364, *a* 365

NEUSTADT-AN-DER-HAARDT, town, XVII, b 374–5

NEUSTADT EBERSWALDE, town, XVII, a 375

——, Harzburg (Harzberg), XI, a 454

——, Würtemburg, town (Lime), XIV, a 655

NEU-STETTIN, town, XVII, a 375

NEU-STRELITZ, town, XVII, a b 375

Neustria, kingdom of the Franks (France), IX, a b 468; (Germany), X, b 428; (Normandy), XVII, a 552

Neuter gender (Greece), XI, a 115

Neuters or workers (Ant), II, b 84–5, b 86, b 87, a b 88; (Insects), XIII, b 152

NEU-TITSCHEIN, town, XVII, b 375

NEUTRA, town, XVIII, b 375

Neutral bodies (Electricity), VIII, a 17

Neutrality (Blockade), III, b 725; (Declaration of Paris), VII, b 20–1; (Geneva Convention), X, b 136; (International Law), XIII, b 201–2; (Napoleon I.), XVII, a 219; (Prize), XIX, a 787; (Search Right), XXI, *b* 638

——, armed (Denmark), VII, b 76; (Spain), XXII, b 354; (France), IX, b 523–4

——, Jeffersonian (United States), XXIII, a 807; maritime (Clarendon), V, b 706–7; proclamation, Washington's (United States), XXIII, b 803

Neutral oil (Petroleum), XVIII, b 891

—— property (Prize), XIX, a 786; rights (Contraband), VI, a b 285–7; (Jay, John), XIII, a 623; (Jefferson), b 626, b 627

Neutrals, vowels (Ural-Altaic), XXIV, a 7

Neutral ships (Navy), XVII, b 298; (Passport), XVIII, b 349

NEURVIED, town, XVII, b 375

NEVA, river, XVII, b 375–6; (Baltic), III, a 254, a 256; (Ladoga), XIV, b 199, *a* 200; (St. Petersburg), XXI, *b* 199, a *b* 200, a *b* 204

NEVADA, State (Plate III), XVII, b 376–8; (California), IV, b 625; (Camel), b 651; (Lead), XIV, a 875; (Mining), XVI, *a b* 492; history (United States), XXIII, b 828, b 830; statistics (United States), b 853, a 855, a *b* 862, b 867, a b 868, b 870

—— Cordillera (Peru), XVIII, b 685

—— de Toluca, volcano (Toluca), XXIII, a 465

—— de Sorata, mountain (Andes), II, a 17

Neváyí, pseudonym (Turkey), XXIII, a 698

Névé, snow formation (Glacier), X, b 559–60

Nevelskoi, navigator (Saghalin), XXI, a 156

Nevern river (Pembroke), XVIII, a 492

NEVERS, city, XVII, a 378; (Nièvre), *a* 509; ware (Pottery and Porcelain) (Ill.), XIX, b 647, a b 649

——, Philippe Julien Mancini Mazarine, duc de (Racine), XX, *a* 214

Never too Late to Mend, novel (Reade), XX, b 315

Nevesinje, village (Herzegovina), XI, b 693

Nevè y Yevenes, Canon Justino (Murillo), XVII, a b 62

NEVIANSK, town, XVII, a b 378

Nevill, Thomas, rebel (London), XIV, a 856

Neville's cross, battle of, 1346 (Scotland), XXI, b 509 note, b 511

NEVIS, island, XVII, b 378; (St. Christopher), XXI, b 168

——, Ben. See Ben Nevis

——, Loch (Scotland), XXI, a 545

Nevka, rivers (Neva), XVII, a 376

Nevo, lake (Ladoga), XIV, b 199

Nevskiy Prospekt, street (St. Petersburg), XXI, a b 201
New, river (Amwell), I, b 686; (Hertford), XI, b 688
——, river (West Virginia), XXIV, a 546
——, river (United States), XXIII, *b* 844, a b 845
——, Charles, explorer (Kilimanjâro), XIV, *b* 75, a 76
New Academy (Manutius), XV, b 520
NEW ALBANY, town, XVII, b 378
Newall's, R. S., observatory, XVII, a 731
New Almaden mines (California), IV, b 622; (Mercury), XVI, b 36, a 37; (Mining), b 492; (United States), XXIII, *a* 869
New Amsterdam, island (St. Paul), XXI, *b* 198, a 199
——, town (Guiana), XI, a 223
——, town (United States), XXIII, a 778, b 780
New Archangel, town (Alaska), I, *b* 393, a 394
NEWARK upon Trent, XVII, b 378-9; (Nottingham), XVII, a *b* 613
NEWARK, New Jersey, city (Plan), XVII, a 379-80
NEWARK, Ohio, town, XVII, b 380
NEWARK, David Leslie, lord, general, XVII, b 380-1; (Cromwell), VI, a b 531; (Montrose), XVI, a 823; (Scotland), XXI, a 536
—— castle (Selkirk), XXI, b 670
—— dyke Bridge (Ill.), IV, b 303, a 304, a 305
Newārs, tribe (Nepāl), XVII, *a b* 350, *b* 351, a b 352
New Atlantis (Bacon), III, a 182
New Bath Guide (Anstey), II, b 83
Newbattle, town (Edinburgh), VII, *a b* 571
NEW BEDFORD, town, XVII, a 381; (Massachusetts), XV, a 618
NEW BERNE or Newbern, N. C., XVII, a b 381
Newberry, James, merchant (India), XII, a 837
——, John Strong, geologist (Geology), X, a 306, a 330, a 333; (Ichthyology), XII, b 724; (Petroleum), XVIII, b 728; (Sanitary Commission), XXI, a 904; (Surveys), XXII, *a* b 936, b 938; (Zoology), XXIV, a 925
Newberyite (Mineralogy), XVI, a 421
New Beverly, town (Burlington, N. J.), IV, b 491
Newbold, Captain, philologist (Gipsies), X, a 546, a 551, a 552
Newbridge, town (Pontypridd), XIX, b 474
NEW BRIGHTON, N. Y., XVII, b 381
NEW BRITAIN, island, XVII, b 381-2; (Taboo), XXIII, a 22
NEW BRITAIN, Conn., town, XVII, b 381
NEW BRUNSWICK, province (Plate IV), XVII, a 382-4
  area and boundaries, a 382
NEW BRUNSWICK, *continued*
  climate, a 383
  education, a b 384
  geology, b 382-3
  history, b 384
  industrial features, a b 383
  mountains and rivers, a b 382
  people and their organization, b 383-4
  roads, b 383
—— (Coal), VI, a 57; meteorology (Canada), IV, 680-1; trade of (Canada), IV, b 689
NEW BRUNSWICK, city, New Jersey, XVII, b 384
NEWBURG, town, New York, XVII, b 384
NEWBURY, town, XVII, a 385
NEWBURYPORT, town, Massachusetts, XVII, a b 385
NEW CALEDONIA, island (Plate IV), XVII, b 385-6; (Nickel), a *b* 501; (France), IX, b 465; (Melanesia), XV, a 844; (Mining), XVI, b 494
New Carthage, city (Spain), XXII, a b 320, *b* 322
NEWCASTLE or Newcastle-upon-Tyne, town (Plan), XVII, b 386-9; (Libraries), XIV, b 520, b 545; (Newspapers), XVII, a 432; (Plague), XIX, a 175; High Level bridge (Bridges) (Plate XIX) (Ill.), IV, b 303, 304
——, diocese (Northumberland), XVII, b 580
NEWCASTLE, town, New South Wales, XVII, a 389; (New South Wales), a 418, b 419
NEWCASTLE, Penna., borough, XVII, a b 389
NEWCASTLE, dukes of, XVII, b 389-90
——, Henry Cavendish, duke of, XVII, b 389
——, John Holles, duke of, XVII, b 389
NEWCASTLE, Margaret Lucas, duchess of, XVII, a 390
NEWCASTLE, Thomas Pelham Holles, duke of, XVII, b 389, a b 390; (Burke), IV, a b 483; (Bute), a 518; (Chatham), V, *b* 382
NEWCASTLE, William Cavendish, duke of, XVII, *b* 389-90
NEWCASTLE-UNDER-LYME, town, XVII, b 389; (Stafford), XXII, *a* 460
Newcastle-upon-Tyne, town. See NEWCASTLE
New Church, The (Swedenborg), XXII, a *b* 797, a b 798
NEW-CHWANG, city, XVII, b 390-1; (China), V, b 557
New College, Oxford (Glass), X, a 600; (Oxford), XVIII, a 101
Newcomb, Simon, astronomer (Astronomy), II, b 696, a 697, a 707; (Measurement), XV, *a b* 671, a 672; (Nebular Theory), XVII, a 321; (Parallax), XVIII, b 250, a 254, a 256, a 257; (Sun), XXII, b 682; (Telescope), XXIII, a 165, b 169; (Telescopic Work), a 933, a 935, a 936; (Tides), b 402; (Wave Theory), XXIV, b 484, note, *a* 485
NEWCOMEN, Thomas, inventor, XVII, a 391; (Steam-Engine), XXII, *b* 491, a *b* 492, a 493, b 536; (Watt), XXIV, a b 434, b 435
Newcomes, The, novel (Thackeray), XXIII, a b 234, a 235
New Connection (Methodism), XVI, a *b* 197, b 198, b 200
New Cratylus (Donaldson), VII, *a* 310
New Dongola, town (Egypt), VII, a b 663
Newe Attractive (Magnetism), XV, *a* b 222, notes, a 224
New Edinburgh, village (Ottawa), XVIII, b 71
Newell, William A., senator (Lifeboat), XIV, a 577
NEW ENGLAND, XVII, a 391; (American Literature), I, b 630; (Mather), XV, b 638; (Schools), XXI, a 908-10; (Slavery), XXII, b 906, a 907, a 908; commerce, 1807-10 (United States), XXIII, *b* 807, b 808, b 809; council of (Maine), XV, b 303; early communities of (Land), XIV, a 266; founders of (Independents), XII, a b 764-5; name acquired (Smith), XXII, a 186; origin of (United States), XXIII, b 777, *a* 779, *a b* 780, a b 781, b 783; topography of (United States), a b 842-3, b 845
New England Almanac (Thomas), XXIII, b 939
New England Historical and Genealogical Society, X, b 130
—— or Red Pine, XIX, a 113
New England Tale, A (Sedgwick, C. M.), XXI, a 915
New English Canaan, Joselyn, (Humming-Bird), XII, a 371
Newenham, Thomas, statistician (Ireland), XIII, b 235, b 248
New Ephesus, town (Scala Nova), XXI, a 377
New Forest, IX, a 351; (Hampshire), XI, a 385, a 386; community (Shakespeare), XXI, b 773, note
NEWFOUNDLAND, island (Plate V), XVII, a 391-5
  authorities, b 395
  climate, a b 392
  coast and area, a b 391
  fisheries, a 393-4
  geology, a b 392
  history, a b 395
  land industries, a 394
  mountains and hills, b 391
  natural history, a 393
  political features, a b 394
  roads and railways, b 394-5
  water systems, b 391-2
—— (Cabot), IV, a 553; (Canada), IV, *a* b 676, a 680; (Gilbert, H.), X, a 528; banks (Atlantic Ocean), III, a 17; coins (Mint), XVI, a 505; Dog (Ill.), VII, *b* 283-4; fisheries (Cod), VI, a 95; (Seal), XXI, *b* 608, a 609, a 610; law of (Patents), XVIII, b 362
New France (Canada), V, b 675; (Michigan), XVI, a 249
Newgate (London), XIV, a 851, *a* 852, b 861; market (London), a 837, a 838; prison (London), a 844; (Prison Discipline), XIX, b 768
New Glasgow, town (Nova Scotia), XVII, a 618
NEW GRANADA, viceroyalty, XVII, b 395-6; (Ecuador), VII, *a* 563; independence of (Bolivar), IV, b 8, *a* 9; insurrections in (America), I, a 623, a 625; races (Indians), XII, b 868
NEW GUINEA or Papua, Island (Plate VI), XVII, a 394-9
  area, a 396
  authorities, b 399
  climate, b 396
  geology, b 396
  history, a 399
  industries, a 399
  manners, a 398-9
  natural history, b 396-7
  physical features, a b 396
  population, a 397-8
  religion, a b 398
—— (Asia), II, b 600; (Distribution), VII, b 232, *a* 237; (Ichthyology), XII, a 713; (Indian Archipelago), *b* 856, a 857; (Lake Dwellings), XIV, b 223; (Melanesia), XV, b 843-4; (Taboo), XXIII, a 22; explorations in (Geography), X, a 166, b 167
NEW HAMPSHIRE, state (Plate VII), XVII, a 400-3
  area and boundaries, a 400
  finances, a 402
  geology, b 400-1
  government, b 402-3
  history, a b 403
  natural history, b 400
  physical features, a b 400
  population and industries, 401-2
  religion and education, a b 402
—— (Divorce), VII, a 264, a 265; (Slavery), XXII, a 908, b 909; (Universities), XXIII, a 913, a b 955; colony (United States), b 777, b 778, b 785; history (United States), b 796, b 800, a 803, a 822; statistics (United States), *b* 853, *a* 855, a 872, b 878; topography (United States), b 842, *a* 843
New Hampshire Gazette (Newspapers), XVII, *a* 445
New Harmony, community (Owen, Robert), XVIII, b 91
NEW HAVEN, city, Conn. (Plan), XVII, b 403-5 (Libraries), XIV, a 534, b 553; (Schools), XXI, a b 908, *a* 909

NEWHAVEN, Sussex, port XVII, b 403; (London), XIV, a 839; (Sussex), XXII, a 761, a 763
NEW-HEBRIDES and SANTA CRUZ, XVII, a 405-6; (Zosterops), XXIV, b 863
New Helvetia, California (Sutter), XXII, a 941
New Holland or AUSTRALIA, III, b 89, a 90
New Idria (California), IV, b 622
Newington, suburb (London), XIV, b 829, b 848; (Surrey), XXII, *b* 729
—— Butts, parish (Shakespeare), XXI, b 796, a 797
New Inn (Gloucester), X, b 616; (Inns of Court), XIII, b 93, b 96
New Inn, comedy (Jonson), XIII, b 753-4
NEW IRELAND, island, XVII, b 381-2
Newjanskite (Mineralogy) (Ill.), XVI, b 398-a 399
NEW JERSEY, State (Plate VIII), XVII, a 406-9
  area and boundaries, a 406
  authorities, b 407
  commerce and industry, a 407
  education, b 407-9
  finance, a 408
  geology, b 406-7
  history, a 408-9
  physical features, a b 406
  political order, a b 407
——, colony (Penn), XVIII, b 504, a b 505, a 507; (Quakers), XX, b 158; (United States), XXIII, a *b* 778, a 779, b 780
——, state (Newspapers), XVII, b 445; (Prerogative), XIX, a 694; (Reformatories), XX, b 898, a 899, b 900, a b 901; (Universities) XXIII, a 913, a b 955, b 962; (Workingmen), XXIV, a b 918, a 919, a b 920; fishery (Oyster), XVIII, a 113, a 114; history (United States), XXIII, a 794, a 796, a b 800, a 822; statistics (United States), b 853, b 855, a b 860, *b* 863, a 866, a b 867, a 878; topography (United States), *a* b 843, *a* 844, b 845
—— magnetite (Iron), XIII, b 293
New Jerusalem (Hymns), XII, b 617, a 621, a b 626; (Millennium), XVI, b 328-9
—— Church (Swedenborg), XXII, a b 798
Newland Oak, XVII, b 709
New Lanark, district (Communism), VI, a b 190; (Cotton), a b 445; (Owen, Robert), XVIII, a b 90, a b 91; (Scotland), XXI, a 558
New Lebanon, village (Shakers), XXI, *b* 773, note
NEW LONDON, city, Connecticut, XVII, a b 409; (Seal), XXI, a b 610; (Winthrop), XXIV, b 904
New Lots, town (Long Island), XIV, b 876
New Luce, town (Wigtown), XXIV, a b 594
Newman, Edward, naturalist (Ornithology), XVIII, a 35
——, John Henry, cardinal (Christianity), V, a 600; (Chrysostom), b 661, a 662; (Hymns), XII, b 630; (Keble), XIV, *a* b 27; (Liguori), b 643; (Neri), XVII, a 357; (Pusey), XX, a b 123, a 124; (Robertson), b 613; (Vatican Council), XXIV, b 123; (Whately), *a* 559
——, mathematician (Tables), XXIII, b 18
Newman's gauge (Tides), XXIII, a 395; lamp (Oxyhydrogen Flame), XVIII, a 109
Newmarch, William, economist (Political Economy), XIX, a 411
NEWMARKET, town, XVII, b 409; (Cambridge, County), IV, b 644; races (Horse), XII, *a b* 204, a 205, *a b* 206, a 207
NEW MEXICO (Plate IX), XVII, b 409-12
  agriculture, a b 411
  climate, a 411
  formation of, b 409
  history, b 411-2
  mineral wealth, b 410-1
  physical features, b 409-10
  political features, b 411
——, acquisition of (United States), XXIII, *a* b 816; statistics (United States), *b* 853, a 857, a 861, a 862, b 864, b 868, b 870
NEW MILLS, town, XVII, a b 412
New Museum (Oxford), XVIII, b 98-9
New Netherland, colony (New York), XVII, a b 466, a 894; (United States), XXIII, a 778
New Norcia, mission station (Western Australia), XXIV, b 536-7
NEW ORLEANS, city (Plans), XVII, b 412-5
  architectural features, a b 415
  climate, b 415
  commercial importance of, b 412-3, b 414-5
  history, a 413-4
  people, characteristics of, a b 415
  situation of, b 412
—— (Cotton), VI, *b* 428; (Jackson, A.), XIII, b 543; (Mississippi), XVI, a 543, a 547; (Monroe), b 787; (United States) XXIII, *a* 856; battle of, 1815, a 809; capture of, 1862, b 825; epidemic of 1878 (Yellow Fever), XXIV, a b 771; foreign trade (United States), XXIII, b 880, a 881
NEW PLYMOUTH, port, XVII, b 415-6; (New Zealand), XVII, a b 483
New Pomerania, island (Taboo), XXIII, a 22
NEWPORT, Isle of Wight, XVII, a 416; (Hampshire), XI, *b* 385; (Wight), XXIV, a *b* 593
NEWPORT, Kentucky, XVII, b 416
NEWPORT, Monmouthshire, XVII, a b 416
——, town, Pembroke, XVIII, b 492, b 493
NEWPORT, Rhode Island (Plan), XVII, b 416-7; (Channing), V, b 341; (New York), XVII, a 473; (Rhode Island), XX, *a* 539; (Schools), XXI, a 908; (United States), XXIII, a b 792
——, Christopher, colonist (United States), XXIII, a 777
——, George, naturalist (Bee), III, b 420; (Insects), XIII, a 151, b 160
—— Market (London), XIV, *b* 837
—— -Pagnell, town (Buckingham), IV, b 373, a 374
—— puddling furnace (Iron), XIII, a 330
New-Providence, island (Bahamas), III, b 203, a b 204-6
New Red rock (Westmorland), XXIV, a 542, *a* 544
NEW ROSS, town, XVII, b 417; (Wexford), XXIV, *a b* 550
New Rush, town (Kimberley), XIV, b 79
NEWRY, town, XVII, b 417; (Armagh), II, *a* 479
News agencies (American Journalism), XVII, a 885; (New York), a b 474; (Newspapers), b 423-4, a b 428, a 440, b 446
New Sallee, town (Rabát), XX, b 198
"News-books" (Pamphlets), XVIII, b 208
New School, Presbyterianism, XIX, a b 720
New Scotland, district (Transvaal), XXIII, a 551
New Shoreham, borough (Sussex), XXII, *a* 762
——, town (Rhode Island), XX, a 538 note
New Siberia, islands (Geography), X, b 170, b 172; (Siberia), XXII, a 10
New Side (Presbyterianism), XIX, *a* b 718, b 719-20
News letters (Newspapers), XVII, a 424, *a* 434, a 436, a b 439, b 444
NEW SOUTH SHETLAND, islands, XVII, a 418
NEW SOUTH WALES, colony (Plate X), XVII, 418-22
  agriculture, a 420
  area and boundaries, a 418
  coast and surface, a b 418
  climate, b 418-9
  education, a 422
  fauna, b 420-1
  fisheries, a 421
  flora, a b 429
  geology, a b 419
  history, a b 422
  industrial elements, a b 421
  minerals, b 419-20
  natural history, a b 420
  political organization, b 421-2
—— (Australia), III, a b 99, a 100; (Coal), VI, b 56, b 73; (Gold), X, a *b* 662; (Labor), XIV, b 171; Mining (Sketch-Map), XVI, b 493-4; (Prison Discipline), XIX, a 771
New Spain, vice-royalty (Mexico), XVI, a 228
New Spain, A. von Humboldt's (Mexico), XVI, a 223
NEWSPAPERS, XVII, a 422-49
  Africa, South, a 444
  America, British and Central, b 448-9
  Australasia, a 449
  Austria-Hungary, b 440
  Balkan States and Turkey, a 443
  Belgium and Holland, a b 441
  China, a 444
  comparative statistics, a b 449
  FRANCE, b 434-9
    advertising, b 437-8
    authorities, a 439
    censorship, a b 437, a 438
    cheap journals, age of, a 437
    Constitutionnel, a 437
    Débats, Journal des, b 436-7
    Gazette de France, b 434-5
    Journal de Paris, a 436
    liberty, legal, b 438-9
    Mercure de France, a *b* 435-6
    Moniteur Universel, b 435, b 436
    Nouvelles à la main, a 436
    political classification, Parisian, b 438
    religious press, b 437
    republic of 1848-51, a 438
    Revolution period, a b 436
    Sand, George, b 437
    second empire, a b 438
    statistical table, b 438
  Germany, a 439-40
  Greece, a 443
  India, b 443-4
  Italy, a b 442
  origin of, a 422-3
  Russia and Finland, b 441-2
  Scandinavian, b 440-1
  South America, a 449
  Spain and Portugal, b 442-3
  Switzerland, a 443
  UNITED KINGDOM, a 424-34
    authorities, b 434
    Chronicle, London Morning, b 427-8
    daily, first London, a 426
    Defoe, a b 426
    evening papers, London, b 429-30
    Intelligencers, a b 425
    Ireland, a 434
    Isle of Man and Channel Islands, b 434
    legislation, b 434
    licenses, b 425-6
    Lloyd, Edward, a 426
    London Gazette, b 425
    Mercuries, b 424-5
    Morning Advertiser, b 429

NEWSPAPERS, *continued*
  UNITED KINGDOM
    news agencies, Reuter, b 423-4
    news letters, a b 424
    periodical issues, rise of, b 424
    Post, London Morning, a 428
    prosecutions, a b 427, a 428, b 430
    provincial press, a 432-3
    Public Advertiser, London, b 427
    recent London morning dailies, b 429
    Scotland, a 433-4
    Stamp-tax, b 426, b 430-2
    tables, classified, b 431
    Times, London, a 428 9
    Walpoles, time of the, a 427
    weeklies, London, a b 430
  UNITED STATES, a 444-7
    Associated Press, b 446
    authorities, b 447
    cheap journals, b 446-7
    illustrated papers, a 447
    Massachusetts, a 444-5
    Middle States, a *b* 445
    New England, recent, a 445
    New York dailies, b 445-6
    Revolutionary period, a 445
    Southern States, b 445
    statistics, a b 447, a b 448
    Western States, a 447. See Journalism

—— (Advertisement), I, a b 161; (Brazil), IV, b 214; (Contempt of Court), VI, b 283; (Copyright), b 320, b 324; (Feuilleton), IX, b 109; (France), a 461; (Germany), X, b 424; (Japan), XIII, b 589, a 598; (London), XIV, b 842; (Milton), XVI, b 344-5; (Post-Office), XIX, a 587; (Press Laws), b 730, b 732, a b 733; (Reporting), XX, a 416-9; (Shorthand), XXI, b 877; development of (United States), XXIII, a 814; evening (Typography), a 748; German (Hartmann), XI, b 446; illustrated (Typography), XXIII, b 754; India (Hindustani Literature), XI, a b 759; Italian (Press Laws), XIX, a 733; printing (Typography), XXIII, a b 754. a 756, b 757; stereotyping (Typography), b 748
New Sparta, state (Margarita), XV, b 544, a 545
New Stewart, town (Wigtown), XXIV, a b 594, a 595
New Style (Calendar), IV, b 595, a 596, *a* 601
New Testament (Bible), III, b 554-6, a 558-61; canon (Bible), a b 557; (Canon), V, 7-11; editions, *Greek* (Alford), I, a 446; (Bengel), III, b 493-4; (Bible), b 560; (Erasmus), VIII, a 458; (Griesbach), XI, b 173-4; (Lachmann), XIV, a 194; (Mill, J.), XVI, a b 320; (Stephens), XXII, b 561, *a* 562; (Tischendorf), XXIII, a b 436; (Tregelles), b 568; (Wetstein), XXIV, b 548-9
——, English. See ENGLISH BIBLE
——, translations, German, X, b 472; (Luther), XV, b 77; Gothic, X, b 757; (Bible), III, b 559; (Castiglione), V, b 170; Icelandic, XII, b 662; (Scandinavian Languages), XXI, a 385; Latin (Bible), III, b 559, a 560; (Beza), *b* 538; (Jerome), XIII, b 641; (Trent, Council of), XXIII, b 580; Mongolian (Schiefner), XXI, b 411; Oriental (Martyn), XV, a 594; Provençal, XIX, a 902; Syriac, XXII, a 864-6; (Bible), III, b 559
—— Apocrypha, II, b 161-2
—— discipline (Penance), XVIII. a 496
—— doctrine and theology (Angel), II, b 26-7; (Creeds), VI, b 494; (Devil), VII, a 118-9; (Dogmatic), a 291; (Elder), a 719; (Gnosticism), X, a b 625-6; (Heresy), XI, a b 655; (Hermeneutics), a 664, b 665; (Hymns), XII, a 613; (Presbyter), XIX, b 695-6; (Theism), XXIII, b 258; (Theology), b 295. See GOSPELS, JESUS CHRIST, PAUL, PETER, and names of particular books
New Timon, satire (Derby), VII, b 96; (Lytton), XV, a 124. note
Newton, burgh (Ayr), III, b 142, *a* 143
NEWTON, town, Massachusetts, XVII, b 419
——, Alfred, ornithologist (Ornithology), XVIII, b 47-8; (Parrot), a b 329. See List of Contributors
——, Benjamin Wills, divine (Plymouth Brethren), XIX, a b 250
——, Charles Thomas, archæologist (Archæology), II, a 306, a 307, a 315; (Architecture), a b 361, note, a 362, b 400; (Halicarnassus), XI, a 343; (Panizzi), XVIII, b 216; (Theseus), XXIII, a 317 note
——, H. A., physicist (Aurora), III, *a b* 81, b 86
NEWTON, Sir Isaac, XVII, a 449-60
  authorities, b 460
  Bernoulli's problems, a b 458
  chemical studies, b 460
  chronological and theological studies, b 459-60
  color experiments, b 451-2
  controversies, b 452-5, b 459 note
  death, b 460
NEWTON, *continued*
  fellow and professor at Cambridge, b 450-1
  Flamsteed's help, a b 454
  fluxions, a 458
  government patronage, b 457, a 459
  gravity, a 453-4
  Hooke's controversy, b 454-5
  insomnia, attack of, b 456-7
  king violates university charter, a 456
  longitude, b 459
  parentage and education, b 449-50
  parliament, in, a b 457
  pecuniary anxiety, a 453
  Principia, production of, a b 454, a b 456, a b 459
  Royal Society, a 451, a 453, a b 454, b 458
  telescope, improvements in, a b 451
  university election dispute, b 452-3

—— (Abauzit), I, b 14-5; (Acoustics), b 96, *a* 97; (Algebra), a 451, b 454, b 487; (Astronomy), II, b 660, a 663, b 665, a 682, b 693, note; (Attraction), III, a b 56; (Axioms), a 139, *a* 140; (Brewster), IV, a 247; (Capillary Action), V, b 50-1, b 58; (Chemistry), b 399-400; (Chronology), a 625; (Clarke), b 708, a b 709, a 710; (Crystallography), VI, b 594-5; (Curve), a 634, a b 638; (Earth), VII, b 516, b 518-9; (Electricity), VIII, b 5, a 55; (Energy), b 188; (Equation), b 443, a b 444; (Eye), *a* b 721; (Flamsteed), IX, a 253; (Geology), X, b 192; (Goethe), b 653; (Grantham), XI, *b* 46; (Gravitation), a 63; (Gunnery), a 264; (Hydromechanics), XII, b 452-3; (Infinitesimal Calculus), XIII, b 9-12, a 13, a 20. b 29; (Light), XIV, b 583-4, b 587, a 594-5, a *b* 596, b 597, b 601. note, *b* 602, a 610, *a* 611, b 615; (Magnetism), XV, b 237; (May), b 654; (Mechanics), b 754-5; (Medicine), a b 821
—— (Milton), XVI, b 351; (Mint), b 507; (Money), a 762; (Moon), b 826; (Radiation), XX, a b 221; (Royal Society), XXI, b 44; (Sextant), a 761; (Squaring the Circle), XXII, a 453; (Telescope), XXIII, b 148; (Thermometer), b 308; (Tides), a b 377, b 378, b 380, b 386; (Tonnage), a 472; (Trigonometry), b 597; (Variations), XXIV, a 93; (Whiston), a 579; his law of cooling (Pyrometer), XX, a 135; (Radiation), *a* 223; his laws of motion (Mechanics), XV, a 683-5, b 708-9, a 723-6; his diffusion rings (Light), XIV, b 613-4, b 616; (Wave Theory), XXIV, b 450-1, b 455, a 456, b 458; his scale, colors of (Wave Theory), a b 449, a 450, a 476; his scholium (Mechanics), XV, b 723, a 736
NEWTON, John, divine, XVII, b 460-1; (Hymns), XII, *b* 629; (Tables), XXIII, b 14
——, William, geographer (Globe), X, b 610, a 611
NEWTON ABBOT, XVII, a b 461
NEWTON BUSHEL, town, XVII, a b 461
Newtonian globe (Globe), X, a 611; Telescope (Ill.), XXIII, a 158; theory (Lagrange), XIV, a 211
NEWTON-LE-WILLOWS or Newton in Makerfield, town, XVII, b 461
NEWTOWN, district, New South Wales, XVII, b 461
NEWTOWN, town, XVII, b 461
——. See CAMBRIDGE, Mass.
—— (Long Island), XIV, b 876; (Leech), b 402
NEWTOWNARDS, town, XVII, b 461-2; (Down), VII, a 331, *a* 332
Newtown-Limavady, town (Londonderry), XIV, a 863
Newtown Pery, town (Limerick), XIV, a b 656
Newtown Stuart, town (Tyrone), XXIII, b 759, *a* b 760
Newts or Urodela (Amphibia), I, a 658, a 659; (Triton), XXIII, a 614, note
Newtyle, town (Forfar), IX, *b* 362, a 363
New Ulm, town (Ulm), XXIII, a 768
New Utrecht, town (Long Island), XIV, b 876, a 877
New Way to Pay Old Debts (Massinger), XV, b 625
New Würtemberg, districts (Würtemberg), XXIV, *b* 738
New Year Island (Kotzebue), XIV, a 146
NEW YEAR'S DAY, XVII, a b 462; (Lhasa), XIV, b 500-1
NEW YORK, State (Plate XI), XVII, a 462-9
  boundaries, a 462
  climate, a b 463
  Dutch history, a b 466
  education and charities, a b 468
  English colonial history, b 466-7
  fauna and flora, b 463-4
  financial features, b 468-9
  geology, a 464-5
  independent history, b 467
  Indian history, b 465-6
  industrial organization, a b 469
  mineral wealth, b 465
  physical features, a 462-3
  political institutions, a b 468-9
  population, b 469
  revolutionary war, b 467
  settlement, progress of, b 467-8
  topography, a 462

—— (Banking), III, a b 293; (Dairy), VI, a b 679, a 681; (Hamilton, A.), XI, a 369; (Insurance), XIII, b 174, a b 189; (Jay, J.), *b* 622, a

- NEW YORK, *continued* 623; (Oyster), XVIII, a 113, a 114; (Peppermint), b 529; (Petroleum), a 888; (Reformatories), XX, *b* 898, *a* b 899, *a b* 900, a b 901, a *b* 902, a b 903; (Slavery), XXII, a 908, a 909; (Universities), XXIII, a 913, a b 955-6, a 961, b 962; (Wine), XXIV, a 644; (Workingmen), a b 918, *a* 919, *a* 920
- ——, colony (Post-Office), XIX, a 581; (United States), XXIII, a *b* 778, b 779, *b* 780, b 785, a 786
- —— claims (New Hampshire), XVII, a 403; Geology of, X, a 301, a 306; history of (United States), XXIII, a b 794, *a* b 796, b 800, a 801, b 805, a b 814, a b 815, a 820, a 822, a 831, *b* 833, a 834
- *New York, History of* (American Literature), I, a 636
- ——, law of (Code), VI, b 96; (Misdemeanor), XVI, b 525; (Pardon), XVIII, a 277; (Partnership), b 337; (Treason), XXIII, b 563; (Trust), b 637; (Theatre), a 248; Revolutionary war in (United States), b 790, a 791, *a* b 792; statistics (United States), b 853, a b 855, a b 856, *b* 857, b 858, b 863, a 865, *a* b 866, *a* b 867, *b* 870, *a* 872, b 877, *a* b 878; system of Taxation, b 925; topography of (United States), a b 843, b 845, a 846
- NEW YORK, city (Plates XII, XIII) (Plans), XVII, a b 463, b 469–79, a 893–900
  - authorities, b 479
  - calamities, b 894–5
  - commerce and manufactures, a b 477, a b 895, a 898-900
  - communication, means of, b 478–9, b 895
  - courts and protective departments, b 476–7, b 900
  - educational provisions, b 473–4, b 896–7, b 897–8
  - emigration, b 473
  - government and administration, a 475–6
  - harbor, b 471, b 477, b 893-5
  - history, b 471, b 893–5
  - libraries, a 897, a 898
  - parks, museums, and institutes, b 478–9
  - population, b 471–2
  - press, a b 474
  - public buildings, a 896–7
  - religions and charities, a 474–5, b 896
  - social life, b 472–3
  - streets, b 470-1
  - taxation, b 476
  - topographical features, a 470–1, a b 893
  - vital statistics, a 477
  - works of public utility, a b 478, b 895–6
- —— (Aqueduct), II, b 194–5, b 200; (Fire), IX, a 207; (Foundling Hospitals), a 427; (Hospital), XII, a 321; (Libraries), XIV, b 534, b 535; (Newspapers), XVII, b 445-6; (Police), XIX, a b 354; (Stock Exchange), XXII, a 586; (Tramway), XXIII, b 537–8; commerce of (Leather), XIV, a *b* 391, foreign trade of (United States), XXIII, b 880, a 881; harbor of (United States), 840
- —— Academy of Sciences (Societies), XXII, a 235
- —— *City Ring* (Tilden), XXIII, b 413 note
- —— elevated roads (Railways) (Ill.), XX, b 249-50
- *New York Herald* (Livingstone), XIV, b 728
- New York Historical Society (Globe), X, b 608
- *New York Mirror* (Willis), XXIV, b 619, *b* 900
- —— *Sun* (American Journalism), XVII, a 884, a 891
- —— *Times*, newspaper (Tweed), XXIII, b 949
- —— *Tribune* (Greeley), XI, b 143–5; (Taylor), XXIII, a b 97
- New York Yacht club (Yachting), XXIV, a b 759
- NEW ZEALAND, islands (Plate XIV), XVII, a 479–84
  - aborigines, a b 484
  - climate, a b 480
  - coast line, a 480
  - colonial area, a 479
  - education, b 483–4
  - fauna and flora, a b 482
  - fisheries, b 482–3
  - geology, b 480–1
  - history, b 484
  - industrial features, b 482–3
  - mineral wealth, b 481
  - physical features, a 479–80
  - political features, b 483, a 484
  - soils, b 481
  - timber trees, a b 482
  - water systems, b 479–80
- —— (Acclimatization), I, b 80; (Birds), III, a 634; (Coal), VI, b 56; (Forests), IX, b 358; (Funeral Rites), b 724; (Geysers), X, b 498–9; (Ichthyology), XII, b 671, a 715, a 720; (Jade), XIII, a 550; (Libraries), XIV, b 552; (Mining), XVI, a 494; (Mythology), XVII, a b 156, b 163, a b 164; (Post-Office), XIX, b 594; (Railway), XX, a 264; (Reptiles), a b 486; (Savings Banks), XXI, b 345; (Swine), XXII, b 811; (Universities), XXIII, b 912; (Taboo), *a b* 21, a 23; (Tasman), a b 78; (Wakefield), XXIV, *a* 340; Birds of, III, b 643–4; (Ornithology), XVIII, a 20; (Orthonyx), a b 56; (Owl), a 93 note; (Zosterops), XXIV, b 863; earthquakes (Geology), X, b 226; extinct fauna (Dinornis), VII, b 212; fauna (Distribution), *a* 237, b 239, *a* 242, *a* b 243; (Mammalia), XV, b 418; flax (Phormium), XVIII, b 824–5; flora (Distribution), VII, *b* 251; law of (Patents), XVIII, b 362; life-Insurance, XIII, a 190
- Nexal contract (Roman Law), XX, a 693, a 695, a 696, b 701, a 703, a 711–2; in jus gentium (Roman Law), b 718
- Nexi liberatio, process (Roman Law), XX, a 712
- Nexus Gothanus, duchies (Saxony), XXI, a 372
- NEY, Michel, marshal, XVII, b 484–5; (Austria), III, b 115, b 117; (Broglie), IV, b 324; (France), IX, a 543, a 544, a 545; (Jomini), XIII, *b* 746; (Lons-Le-Saulnier), XIV, b 879; (Masséna), XV, *a* 624; (Wellington), XXIV, a 525
- *Nezikim* (Mishnah), XVI, b 528
- Nez-Percés, tribes (Indians), XII, a 866, b 873
- Ngai Camphor, IV, b 672
- Ngami, lake (Africa), I, b 221, a b 229
- Ngapee, food (Burmah, British), IV, b 500
- —— -Khorsum dialect (Tibet), XXIII, b 368
- Ngatik or Nutik, island (Caroline Islands), V, b 111
- Nghiri Muinda or Loij, river (Zaire), XXIV, b 802
- Ngoko language (Java), XIII, *b* 618
- Ngoli islands (Caroline Islands), V, a 111
- Ngornu, town (Bornu), IV, a 55. See ANGORNO
- Ngqika, chief (Kaffraria), XIII, b 826, a 827
- Ngunie, river (Ogoway), XVII, *a* 754
- Nguyen Dzo, general (Tong-King), XXIII, b 468–9
- NIAGARA, river and falls (Map), XVII, b 485–6; (Canada), IV, a 679; (Geology), X, a b 245; (New York), XVII, b 462, a 465; (St. Lawrence), XXI, a b 189, a 191; suspension Bridge (Plate XIX), IV, b 304-5, a 308
- NIAGARA FALLS, village, XVII, a b 486
- —— formation, rocks (Geology), X, a 301
- *Nial, Saga of* (Iceland), XII, a 660
- Niall, king (Celtic Literature), V, b 267; (Ireland), XIII, b 251, a 252, b 255
- —— Glundub, king (Ireland), XIII, a 258
- NIAM-NIAM, Negro tribe, XVII, b 486–7; (Negro), a 327 note, a 328
- Nias islands (Sumatra), XXII, b 671, *b* 672, a b 674
- *Nibenlungen, Ring des*, operas (Wagner), XXIV, a 335, *b* 336, *a* 337
- NIBELUNGENLIED, romance, XVII, b 487–90
  - bibliographical history, b 489-90
  - Lied story, a 488–9
  - Norse tradition, b 487–8
  - style and form, a b 489
- —— (Germany), X, a 464, a 467, *b* 469; (Mermaids), XVI, b 44; (Poetry), XIX, b 280, a b 281
- NICÆA or Nice, Asia Minor, town, XVII, a 490; (Greece), XI, a 105, a 106, *a* 107
- ——, Council of. See Council of Nicæa
- ——, lake of (Asia Minor), II, b 619
- ——, town, India, XII, a b 826; (Gujrat), XI, b 242
- NICANDER, poet, XVII, a 490
- Nicander of Colophon (Alexandrian School), I, b 440; (Dictionary), VII, a 158
- ——, Karl August, poet (Sweden), XXII, b 795
- Nicanor, general (Israel), XIII, b 432; (Phocion), XVIII, b 813
- NICARAGUA, state (Plate III, Vol. XI), XVII, a 490–3
  - area and frontiers, a b 490
  - authorities, a b 493
  - geographical features, b 490–1
  - geology and climate, b 491
  - history, b 492–3
  - Mosquito reserve, a 493
  - natural products, b 491–2
  - people and organization, a b 492
  - prehistoric remains, a 492
- —— (Indians), XII, a b 868; (India-Rubber), b 878–9; (Libraries), XIV, b 554; (Walker, W.), XXIV, a b 881; Canal (Map), IV, a 701; lake, b 701; XVII, b 490, a 491, note; (Granada), XI, a 42
- Nicarchides, general (Persepolis), XVIII, a 571, note
- NICASTRO, city, XVII, b 493
- Niccoli, Niccolo de, bibliographer (Libraries), XIV, a 514
- Niccolini, Giambattista, poet (Italy), XIII, a 524
- ——, Jacopo, monk (Savonarola), XXI, a 354
- Niccolo da Foligno, painter (Gualdo Tadino), XI, b 205; (Schools of Painting), XXI, a 453
- Niccolo di Pietro della Magna, monk (Glass), X, b 597, note
- Nice, city, Asia Minor. See NICÆA
- NICE, city, France (Plan), XVII, b 393–5; (Observatory), b 732; arrondissement (Alpes), I, *b* 527
- Nicene Council. See Council of Nicæa
- —— Creed, VI, a b 495–6; (Dogmatic), VII, *b* 294; (Eusebius), VIII, a b 633; (Heresy), XI, a 658; (Hosius), XII, a 314; (Jesus Christ), XIII, b 681, a 682
- Niceno - Constantinopolitan creed (Trent, Council of), XXIII, a 580
- Nicephorium, town (Mesopotamia), XVI, b 52
- NICEPHORUS I., emperor, XVII, a 495; (Chess), V, a 521; (Greece), XI, b 103; (Michael), XVI, b 234, note; (Mohammedanism), *a* 605
- NICEPHORUS II., Phocas, emperor, XVII, a b 95; (Greece), XI, a b 103; (John I.), XIII, b 723

NICEPHORUS III., Botaniates, emperor, XVII, b 495-6
——, Bryennius, general (Nicephorus III.), XVII, b 495
——, Bryennius, historian (Anna Comnena), II, a 54; (Byzantine Historians), IV, a 545
NICEPHORUS Callisti, historian, XVII, a 495; (Church History), V, a 668; (Greece), XI, b 131
——, Gregoras, historian (Byzantine Historians), IV, a b 545; (Greece), XI, b 129
NICEPHORUS, Patriarcha, historian, XVII, a 496; (Byzantine Historians), IV, a 546; his *Stichometry* (Canon), V, b 6, b 13
Nicetas of Syracuse, philosopher (Astronomy), II, a 653
—— Acominatus or Choniates, historian (Archæology), II, a 301; (Byzantine Historians), IV, a 545
—— Eugenianus, poet (Greece), XI, a 130; (Romance), XX, a 652
Nicheren, sect (Pilgrimage), XIX, b 101
Nichol, John, author (Drama), VII, b 379. See List of Contributors
NICHOLAS I., czar, XVII, a 498-9; (Comte), VI, a 208, b 211; (Constantine Pavlovich), b 269; (France), IX, a 549; (Metternich), XVI, b 210; (Owen), XVIII, a 91; (Russia), XXI, a b 110; (Turkey), XXIII, b 692
NICHOLAS I., pope, XVII, b 496-7; (Hincmar), XI, a 747; (Methodius), XVI, a 202; (Photius), XVIII, a 833; (Popedom), XIX, a 511, a 524
NICHOLAS II., pope, XVII, a 497; (Popedom), XIX, a 513, b 524; (Rome), XX, b 808
NICHOLAS III., pope, XVII, a b 497; (Charles of Anjou), V, b 366; (Italy), XIII, a 486; (Rome), XX, a b 815
NICHOLAS IV., pope, XVII, b 497; (Bacon), III, a 190; (Voragine), XXIV, a 317
NICHOLAS V., antipope XVII, a 498; (John XXII., Pope), XIII, a 723; (Rome), XX, *a* 817
NICHOLAS V., pope, XVII, b 497-8; (Amadeus), I, b 571; (Italy), XIII, b 490, a 491; (Medici), XV, b 795; (Popedom), XIX, b 517, a 518, b 524; (Reformation), XX, b 335, a 336; (Rome), a b 823; (Typography), XXIII, a 727; (Valla), XXIV, b 48-9
——, prince (Montenegro), XVI, *b* 807
NICHOLAS of Basel, mystic, XVII, a b 499-500; (Mysticism), b 140
NICHOLAS, ST., of Myra, XVII, a b 496; (Ostiaks), XVIII, a 65; (Poseidon), XIX, b 574
Nicholas Nickleby (Dickens), VII, a 150, a 151, *a b* 152, b 153
Nicholls, Richard, governor (New Jersey), XVII, a b 408; (New York), a 467
Nichols, George, statesman (Taylor, J.), XXIII, a 927
NICHOLS, John, printer, XVII, a 500; (Farmer, R.), IX, b 32
——, William R., physicist (Ice), XII, b 646 note
——, W. S., statistician (Insurance), XIII, b 189
Nicholson, mechanician, (Building), IV, b 433, b 434, *a* b 447
——, H. C., electrician (Telegraph), XXIII, a 930; his condenser and doubler (Electricity), VIII, b 95
——, J. S., economist (Political Economy), XIX, b 382, b 383 note, a 389
——, William, inventor (Typography), XXIII, b 751
NICHOLSON, William, painter, XVII, b 500
NICHOLSON, William, physicist, XVII, a b 500; (Chemistry), V, a 404
Nicholson File Company (File), IX, a 141
Nicholson's blue (Coal Tar Colors), XVIII, a 904; (Dyeing), VII, b 499
—— Hydrometer, XII, a 568, b 569-70
Nicias, painter (Archæology), II, b 315, a 318
NICIAS of Athens, statesman, XVII, b 500; (Cleon), V, a b 721; (Greece), XI, *a* 92; (Syracuse), XXII, *b* 853, *a* 854; peace of, 421 B.C. (Greece), XI, b 91-2
NICKEL, metal, XVII, b 500-2; (Chemistry), V, a 463-4; (Cobalt), VI, b 75, *a b* 76, *a* 77; (France), IX, b 461; (Iron), XIII, b 290; (Mineralogy), XVI, a 392, b 406-7, a b 409, a 416, a b 421; (Mining), a b 489, a 491, b 494; (New Caledonia), XVII, b 385; (Numismatics), a b 679; (Ural Mountains), XXIV, a 10; (Wöhler), b 660; action of light on (Photography), XVIII, a 853; alloy (Money), XVI, b 749; analysis (Blowpipe), III, a 729; cyanide (Prussic Acid), XX, b 28; gymnite (Mineralogy), XVI, a 432; meteoric (Iron), XIII, a 291; (Metal-Work), XVI, a 77 note; (Meteor), a 117, a 118
Nickelite (Mineralogy), XVI, a 409
Nickelochre (Mineralogy), XVI, b 421; oxides (Iron), XIII, b 286
Nickel-plating (Electro-Metallurgy), VIII, a 110; (Typography), XXIII, b 749
Nickel silver (Copper), VI, b 311, a 312; (German Silver), X, b 401
Nickel-tungsten-Iron, XIII, a 362
Niclot, Obotrite, prince (Schwerin), XXI, b 485
NICOBARS, islands, XVII, a 502; (Asia), II, a 599; (Indian Archipelago), XII, b 854, a 855; Birds of, III, b 660; Pigeon, XIX, b 93
Nicocles, essay (Isocrates), XIII, b 402
Nicocreon of Cyprus (Anaxarchus), II, a 4
Nicol, Henry, philologist (English Language), VIII, b 357 note
NICOL, William, physicist, XVII, a b 502; his prism (Calc-Spar), IV, a 580; (Crystallography), VI, b 598; (Light), XIV, a 617-8
NICOLAI, Christoph Friedrich, author, XVII, b 502; (Apparitions), II, a 180; (Germany), X, a 478; (Periodicals), XVIII, a 552
——, Philip, divine (Hymns), XII, a 621
Nicolaitans, sect (Balaam), III, b 224 note; (Gnosticism), X, *a* 626
Nicolas. See Nicholas
——, Henry, sectary (Davidists), VI, b 742
—— of Hereford. See Hereford, Nicolas
NICOLAS, Sir Nicholas Harris, antiquary, XVII, b 502; (Baron), III, b 334; (Chaucer), V, *b* 389; (Chronology), a 625; (Gunpowder), XI, b 283; (Knighthood), XIV, *b* 123, a b 124, b 126; (Peerage), XVIII, b 474, b 475, b 479
NICOLAS de Cusa, cardinal, VI, a b 643; (Canon Law), V, a 17; (Mysticism), XVII, *b* 141; (Reformation), XX, a 336; (Scholasticism), XXI, b 448; (Typography), XXIII, a 731, a 734
Nicolaus de Lyra. See LYRA
—— de Salerno, physician (Pharmacopœia), XVIII, a 744
NICOLAUS of Damascus, historian, VI, a 696; (Cyrus, Elder), a 664; (Josephus), XIII, b 762; (Morphology), XVI, a 864; (Pelops), XVIII, a 491
Nicolas of Padua, poet (Roland), XX, a b 642
NICOLE, Pierre, divine, XVII, a b 503; (Arnauld), II, *a* 543; (France), IX, a 582, b 583; (Guyon), XI, b 306; (Racine), XX, a 211, b 212, b 215
Nicolet, Jean, explorer (Wisconsin), XXIV, a 652
——, M. H., naturalist (Arachnidá), II, a 242, a 263
Nicoletto, painter. See CASSANA
Nicoll, Robert, poet (Bruce), IV, a 354
Nicolo, stone (Onyx), XVII, a 798
Nicomachus, painter (Archæology), II, a 318
——, Flavianus and Dexter, editors (Livy), XIV, b 732
—— of Gerasa, mathematician (Boetius), III, *b* 744; (Romance), XX, b 650
NICOMEDES I.-III., kings, Bithynia, XVII, b 503; (Bithynia), III, a 689; (Galatia), X, b 18
NICOMEDIA, town, Asia Minor, XVII, b 503-4; (Bithynia), III, *a* 689
NICOPOLIS, city, Epirus, XVII, a 504; (Prevesa), XIX, b 738
NICOSIA, city, Cyprus, XVII, a b 504
NICOSIA, city, Italy, XVII, b 504
Nicostratus, comedian (Aristophanes), II, b 446
Nicot, Jean, diplomatist (Tobacco), XXIII, a 451
Nicothoe, entozoon (Parasitism), XVIII, a 264, b 265, a 266
Nicoya, gulf (Costa Rica), VI, b 397, a b 398
Nictitating membrane (Mammalia), XV, a 370
Nicuesa, Diego, explorer (Geography), X, a 163
Nida, basin (Crete), VI, a 504
——, river (Poland), XIX, b 318
Nidamental glands (Mollusca), XVI, a b 693, a 708
Nidaros, town (Throndhjem), XXIII, b 342
Niddrie colliery (Edinburgh), VII, *a* 571
Nider, Johannes, author (Typography), XXIII, a 724, b 737
Nidification (Birds), III, b 668-9; (Duck), VII, a 437; (Eagle), a b 510, note; (Flamingo), IX, a b 250; (Golden-Eve), X, b 674; (Grebe), XI, b 72; (Grosbeak), a 186; (Guacharo), a 202; (Heron), a 680; (Hoactzin), XII, b 31; (Hoopoe), a 159; (Hornbills), b 173-4; (Humming-Bird), a b 374; (Ibis), a 642, note; (Jacamar), XIII, b 541; (Jackdaw), b 542; (Killdeer), XIV, a b 78; (King-Bird), a 83; (Kingfisher), b 83; (Kinglet), a 85; (Lämmergeyer), b 244, note; (Lapwing), a 309; (Magpie), XV, a 287; (Mallemuck), a 337; (Martin), *a b* 588; (Mocking-Bird), XVI, b 564; (Nightingale), XVII, a 512; (Nuthatch), b 684; (Nutcracker), b 684; (Puffin), XX, a 107; (Redshank), *b* 330; (Sandpiper), XXI, b 272, a 273; (Stork), XXII, b 605, note, b 606; (Swallow), a 768; (Swift), b 798, a 799; (Thrush), XXIII, b 342; (Tree Creeper), a 568; (Weaver-Bird), XXIV, *a* 489, notes; (Woodpecker), a 686, note; (Wren), b 723-4. See Nests
Nidintubel, rebel (Persia), XVIII, b 580
Nidwald valley (Unterwalden), XXIII, *a b* 915
NIEBUHR, Barthold Georg, historian, XVII, b 504-6; (Agrarian Laws), I, a b 257, a 258; (Bonn), IV, a 31; (Bunsen), *b* 467, a 470; (Grote), XI, b 190, a 191; (History), XII, a 26; (Italy), XIII, a 454; (Lieber), XIV, b 567; (Persia), XVIII, a 576; (Rome), XX, b 751, note; (Thibaut), XXIII, a 321

NIEBUHR, Karsten, traveller, XVII, b 506–7; (Arabia), II, b 205, b 214, a 220, *a* 221, b 227, b 229; (Architecture), II, a 349; (Geography), X, a b 168; (Grotefend), XI, a 193; (Michaelis), XVI, b 236; (Yemen), XXIV, a 777
Niederhermsdorf (Hermsdorf), XI, a 672
Niederingelheim, town (Ingelheim), XIII, b 80
Niederrheinisches gebirge, mountains (Germany), X, a 403, a 412
Niederwyl Lake-dwellings, XIV, a b 224
Niel, Adolphe, marshal (Army), II, b 526
NIELLO, engraving, XVII, a 507–8; (Engraving), VIII, a b 391; (Inlaying), XIII, a 88
Niels of Soro, romancer (Hamlet), XI, b 379
Nielsen, Rasmus, philosopher (Denmark), VII, a 82
——, Tyge, printer (Norway), XVII, a 604
NIEMCEWICZ, Julian Ursin, poet, XVII, b 508; (Poland) XIX, a 315
Niemen or Memel, river (Baltic), III, a b 254; (Germany), X, a 402, a 404, b 411, b 413; (Poland), XIX, *a* 319, *a* 320; (Prussia), XX, *b* 24; (Russia), XXI, b 80; (Suwalki), XXII, b 765; (Vilna), XXIV, a *b* 251
Niemeyer, August Hermann, theologian (Education), VII, b 588, a 589
Nien-hao, periods (Chronology), V, b 623
Niepce, Isidore de, inventor (Photography), XVIII, a 836
NIEPCE, Joseph Nicéphore, inventor, XVII, b 508–9; (Daguerre), VI, a *b* 671; (Photography), XVIII, a b 835, a 836
——, de saint Victor, Claude Felix Abel, inventor, XVII, a 509; (Photography), XVIII, a 837, b 847, a 848
Niepce's methods of photoengraving and photo-relief (Photography), XVIII, a b 847
Nieremberg, Johann Eusebius, naturalist (Ornithology), XVIII, b 8, b 18
Nierembergia, genus (Horticulture), XII, a 259
Niethammer, Friedrich Immanuel, philosopher (Hegel), XI, *b* 548, a b 549
Nieue Land, discovery of (Polar Regions), XIX, a 329
Nieuport, battle of, 1600 (Holland), XII, a 81
Nieuwe Diep, harbor (Helder, XI, b 561
Nieuwentijt, Bernard, philosopher (Infinitesimal Calculus), XIII, a 13; (Paley), XVIII, b 186, note
Nieuwe Tijdinghen (Newspapers), XVII, a 441
Nieuweveld, mountains (Cape Colony), V, a 38
Nieuwland, Pieter, writer (Holland), XII, a 100
NIÈVRE, province, France, XVII, a b 509; river, a 509
NIEZHIN or Niejin, town, XVII, b 509
Niganthas, sect (Jains), XIII, b 553, a 554
Nigel of Ely, bishop (Gervase of Tilbury), X, b 493
NIGER, river, XVII, a 510–11; (Africa), I, a b 220, *a* 221, a 225, a b 227; (Baikie), III, a 208; (Ibn Batuta), XII, b 643; (Laing, A. G.), XIV, b 216; (Lander), b 272; (Park, M.), XVIII, b 303–4; (Timbuktu), XXIII, a 418; delta of (Calabar), IV, a 576
—— expeditions (Africa), I, a 221, a 226; (Geography), X, b 168
NIGER, C. Pescennius, general, XVII, b 511; (Rome), XX, b 794; (Severus), XXI, a b 732, b 733
——, Petrus or Peder Svart, historian (Sweden), XXII, a 792
—— oil (Oils), XVII, a 765, a 767
"Nigger," mechanical device (Saws), XXI, a 361
—— powder (Gunpowder), XI, a 285
Night, myths of (Lot), XV, a 10; (Mythology), XVII, a 155, b 156
Night, poem (Gilfillan), X, a 532
Night and Day, sculpture (Michel Angelo), XVI, b 242
Nightapes or douroucoulis (Ape) (Ill.), II, b 135
Night-blindness (Ophthalmology), XVII, a 807
—— -hawk (Goatsucker), X, a 635
—— -heron, XI, b 679, a 681
Nightingale island (Tristan da Cunha), XXIII, *b* 613, a 614
NIGHTINGALE, bird, XVII, b 511–2; (Birds), III, b 663, a 666, a 668; Virginia (Bunting), IV, b 470; (Grosbeak), XI, b 186
——, Florence, philanthropist (Hospital), XII, a 319, b 320
—— monument (Roubiliac), XXI, *a* b 15
Nightjar, bird (Goatsucker), X, a 634
Nightlights (Candle), IV, b 709
Nightmare (Demonology), VII, a b 55
Nightmare Abbey, novel (Peacock), XVIII, b 455, a 456
NIGHTSHADE, plant, XVII, b 512–3; (Botany) (Ill.), IV, a b 124; woody plant (Dulcamara), VII, a 449
Night-soil (Agriculture), I, a b 311; (Horticulture), XII, b 238; removal of (Paris), XVIII, b 285
Night Thoughts, Young's (Blake), III, a 700; (Hungary), XII, a 392; (Young), XXIV, a b 794
Night Watch (Rembrandt), XX, b 387
Nigori, consonantal change (Japan), XIII, b 594, a 595
Nigri Latini, colonies (Vlachs), XXIV, b 289
Nigritia. See SOUDAN
Nigrito race. See Negrito
Nigrosin (Ink), XIII, a 87
Nigua, insect (Flea), IX, a 263
Nihilianism, heresy (Lombard), XIV, a 822
Nihilism, revolutionary movement (Russia), XXI, b 110–1; (Socialism), XXII, b 228–9
Nihongi, record (Japan), XIII, b 596, a 597
NIIGATA, town, XVII, a 513; (Japan), XIII, b 580, a 583, a 586, a 587, *b* 589
Niihau island (Hawaiian Islands), XI, b 474, a 476
NIJAR, town, XVII, b 513
NIJNE-TAGHILSK, town, XVII, b 513; (Ural Mountains), XXIV, b 10
NIJNE-TCHIRSKAYA, village, XVII, b 513
NIJNI-LOMOFF, town, XVII, b 513–4; (Penza), XVIII, b 525
NIJNI-NOVGOROD, government, XVII, a b 514; (Russia), XXI, a 76, a 88, a 95, b 98, a b 104; (Volga), XXIV, b 298, *b* 300, a b 301
——, city (Plan), XVII, b 514–6; fair (Siberia), XXII, a 15
Nijrao valley (Hindú Kúsh), XI, b 748
Nika insurrection, 532 (Narses), XVII, a 239
Nikitin, poet (Russia), XXI, b 115
—— Rog, town (Nikopol), XVII, b 517
Nikko mountains (Japan), XIII, a 581, a 582; (Pilgrimage), XIX, b 101
NIKKO, town, XVII, a b 516
Nikolaides. George, archæologist (Troad), XXIII, a 616, a b 619
NIKOLAIEFF, town, XVII, b 516–7; Observatory, a 735
NIKOLAIEVSK, town, XVII, a 517
NIKOLAIEVSKAYA SLOBODA, village, XVII, b 517
Nikolaievskiy on the Amur, military post, XVII, b 517; (Maritime Province), XV, b 555, a 556; (Siberia), XXII, a 17
Nikolskoye, town (Oryekhoff-Zuyeff), XVIII, b 57
Nikon, patriarch (Russia), XXI, b 89–90, b 113
NIKOPOL, town, XVII, b 517
NIKOPOLI, city, XVII, b 517
Niksich, town (Herzegovina), XI, a 693, a 694; (Montenegro), XVI, b 805 note, a 807
NILE, river (Plate XV), XVII, b 517–22
  ancient knowledge of, a b 521
  Atbara, b 520
  Bahr al-Ghazal, b 519–20
  Bahr al-Jebel, a b 519
  Berber to cataracts, b 520–1
  Blue Nile, b 520
  eastern affluents, b 519–20
  modern explorations, b 521–2
  Ripon Falls to Albert Nyanza, b 518–9
  system of, a 521
  Victoria Nyanza lake, b 517–8
  White Nile, b 519–20
—— (Abyssinia), I, *a b* 62; (Africa), b 226–7, *b* 238; (Agatharchides), b 248; (Agriculture), b 259; (Crocodile), VI, a 525; (Damietta), b 699; (Egypt), VII, b 607 note, *b* 609, a 610, *a* b 611–3, b 617, *a* 618, *a* 621, a 623, b 630, b 634, a 637, b 664, a 666, a 667, a 671–9, a 681; (Famines), IX, b 23; (Hydromechanics), XII, b 530; (Ichthyology), a 711; (Irrigation), XIII, b 372, a b 377; (Meroe), XVI, b 45; (Mermaids), a 45, note; (Nubia), XVII, a *b* 625, *a b* 626; (Siluridæ), XXII, b 74, a *b* 75; basin (Negro), XVII, a 328; (Slavery), XXII, b 152; battle of the, 1798 (France), IX, a b 538
—— explorations (Bruce, James), IV, b 353; (Geography), X, a 166, b 168, *b* 173; (Ptolemy), XX, b 100–1; (Speke), XXII, b 405; lily (Horticulture), XII, b 273; quarries (Rome), XX, *b* 826, note; valley (Anthropology), II, a 103
Nilgai, antelope. See NILGHAU
NILGIRI HILLS or Neilgherry Hills, district, XVII, a b 522; (India), XII, a 772, a 777, a b 789; (Madras), XV, *b* 185, *b* 186, *a* b 187, *a* 188; (Mysore), XVII, b 130
NILGIRI, state, XVII, a 522
Nilometer (Egypt), VII, a b 612, b 668, a 679; (Nubia), XVII, a 626
Nilsson, Sven, naturalist (Cattle), V, a b 213, a 214; (Sweden), XXII, a 796
Niludar hills (Gilgit), X, b 532
NIMÁR, district, XVII, b 522
Nimbus, cloud (Meteorology), XVI, a 132
—— in art (Aureola), III, b 78
Nîmcha, class (Kâfiristán), XIII, a 830
NIMEGUEN or Nimwegen, city, XVII, b 522–3; (Guelderland), XI, a *b* 216, a 217; peace of, 1678 (Congress), VI, b 239; (Germany), X, b 450
NIMES or Nismes, city (Plan), XVII, a 523–4; Amphitheater at, I, b 680, a 681; Aqueduct of (Plate IV), II, a 192
Nimgiris, hills (Vizagatapam), XXIV, a 287
Nimo-Namling mountain (Tibet), XXIII, a 361
Nimphidia, poem (Drayton), VII, *b* 390
Nimravidæ, fossils (Mammalia), XV, b 441, note
NIMROD, hero, XVII, b 524–5
"Nimrod," pseudonym (Addison), I, b 135; (Hunting), XII, a 410. See APPERLEY
Nimroud or Nimrúd, city (Nineveh), XVII, a *b* 525; (Architecture), II, b 348–9; (Babel), III, a 155; (Babylon), b 158; lion-weights (Hieroglyphics), XI, a 722; palace (Microscope), XVI, b 268; (Pottery and Porcelain), XIX, a 622

Nimsquen, city (Plague), XIX, a 175
Nin, measure (Weights and Measures), XXIV, b 518
Nina or Nouna, missionary (Georgia), X, a 388, a 389
Ninchen-thangla mountains (Tibet), XXIII, b 362
Nine Lands, districts (Malay Peninsula), XV, a 325
Nine-pins, game (Skittles), XXII, b 132-3
"Nineteen Propositions," (Charles I., England), V, b 352
Nineteenth century, events in, A.D. (Chronology), V, a 651-60
Nineteenth Century, History of (Gervinus), X, a b 494
Ninety Mile Beach (Victoria), XXIV, b 232, b 233
NINEVEH, ruin (Plans), XVII, a 525-6; (Architecture), II, b 348; (Flag) (Ill.), IX, a b 241; (Libraries), XIV, a 509; (Nahum), XVII, b 171-2; (Numismatics), a 668; (Persia), XVIII, a 574, a b 575; ivories (Ivory) (Plate VII), XIII, b 532, a b 533; (Carving), V, b 146; marbles (Incense), XII, b 758; (Mural Decoration) (Ill.), XVII, b 40, a 41; siege of (Israel), XIII, b 425, note
Ninevite tablet (Zodiac), XXIV, b 833
NING-PO or Ning-Po-Foo, town, XVII, a b 526; (China), V, *b* 552, b 563, *b* 565
Ninguta, city (Manchuria), XV, *b* 473, *a* 474
Ning-yuen Foo, district (China), V, a b 555, a 556
Ninh-hai, port (Cochin-China), VI, a 86
NINIAN or Nynias, St., XVII, b 526; (Monachism), XVI, b 732; (Scotland), XXI, a b 496, b 498; (Wigtown), XXIV, *a* 595
Ninon de Lenclos. See LENCLOS
Ninsi or Nindsin, drug (Ginseng), X, a 540
Ninth century, events in, B.C. (Chronology), V, a 625; A.D. (Chronology), a 630
Ninus, king, Assyria (Nineveh), XVII, a 526 note; (Semiramis), XXI, b 671, *a* 672
NIOBE, myth, XVII, b 526-7; (Lydia), XV, a 100, a 101; (Manisa), b 497
Niobe and her Children (Archæology), II, a 315
NIOBIUM, element, XVII, a 527; (Chemistry), V, a 467-9
Niobrara, river (Nebraska), XVII, *a* b 317
Niörd, god (Æsir), I, a 190
NIORT, city, XVII, a b 527
Nipāl. See NEPAL
Niphigon, river and lake (St. Lawrence), XXI, b 186, a 187 note
Niphobolus, fern (Botany) (Ill.), IV, a 145
Niphus, Augustinus, theologian (Averroes), III, b 131
Nipple Cactus, IV, b 555
Nipples (Milk), XVI, a b 314; redundant (Monster), b 789
Nippoldt, physicist (Electricity), VIII, b 12, a 13, b 45-7, b 49
Nippon, islands (Japan), XIII, a 578
Nîrang (Parsis), XVIII, b 330, a 331
Nirukta, Etymology (Sanskrit), XXI, b 287
Nirvāna, doctrine of (Brahmanism), IV, a 189; (Buddhism), b 382 note, a 384, a 385, a b 388, note; (Ferid-Eddin-Athar), IX, b 78; (Jains), XIII, a 554; (Pessimism), XVIII, b 699; (Schopenhauer), XXI, b 478, a 479
Nisæa, city (Megara), XV, b 837
Nisaëtus, bird (Eagle), VII, a 511
Nisan, month (Calendar), IV, b 601, a 602; (Zodiac), XXIV, a 830
Nisard, Jean Marie Napoléon, author (France), IX, a 598
——, Marie Edouard Charles, critic (Scaliger), XXI, b 378, a 381
Nisbet, Alexander, author (Heraldry), XI, b 636
NISH or Nissa, city, XVII, b 527; (Servia), XXI, b 718, *a* 719, a 720
NISHÁPUR or Néshápur, city, XVII, b 527-8; (Jenghiz), XIII, a 633
Nishava, river (Nish), XVII, b 527; (Servia), XXI, b 718
Nisi, Decree, VII, a 21
NISIBIS, city, XVII, a b 528; (Mesopotamia), XVI, b 52-3; (Persia), XVIII, a b 615, a 619, a b 620, b 621, b 622, a b 624, a 626; battle of, 754 (Mohammedanism), XVI, a 601; battle of, 1839 (Turkey), XXIII, a 692
Nisibis, Hymns relating to (Syriac Literature), XXII, a 868
NISI PRIUS, law-term, XVII, b 528; (Assize), II, a 638; (Writ), XXIV, b 730
Nisir, mountain (Kurdistan), XIV, a 157 note
Nismes, town. See NIMES
Nissa, town. See NISH
Nisyros, island (Caria), V, a 91
Nitella, plant (Botany), IV, b 143, a 144
Nitendi, island (New Hebrides), XVII, b 405
Nith, river (Dumfries), VII, a 454, a 456; (Kirkcudbright), XIV, b 90; (Scotland), XXI, b 543, a 544, *a* 546, a 547
Nithard, J. E., statesman (Spain), XXII, *a* 347
Nitherohi, bay (Rio de Janeiro), XX, a 578
Nithsdale (Dumfries), VII, a 454, a 455, a 456
Nitikin, Athanasius, traveller (Russia), XXI, a 112
Nitocris, queen (Egypt), VII, b 636, a 670
Nitrate of Bismuth, III, a 687; of calcium (Lime), XIV, b 654; of Lead, XIV, b 378; of potash (Pyrotechny), XX, a 141; of Silver, XXII, a 77, b 78; (Vascular System), XXIV, b 112
—— of Soda (Agriculture), I, a b 314; (Gunpowder), XI, a 285; (Iquique), XIII, a 219; (Mining), XVI, b 493; (Peru), XVIII, a 688, b 692; (Sodium), XXII, b 253
Nitrates (Chemistry), V, a 443-4, b 455; (Explosives), VIII, a 706; (Guano), XI, a b 208; (Mercury), XVI, a 38, b 39; (Nitrogen), XVII, a 531-2, a 534; as plant food (Physiology), XIX, 56-57
Nitratine (Mineralogy), XVI, b 412
Nitre, mineral (Afghânistân), I, a 208; (Explosives), VIII, b 705; (Mineralogy), XVI, b 412
Nitrian desert (Egypt), VII, a 680; (Monachism), XVI, b 726
Nitric acid or Aqua fortis (Chemistry), V, b 442-4, a 446; (Explosives), VIII, b 705; (Iron), XIII, a b 285; (Metals), XVI, a 76; (Nitrogen), XVII, b 531-2; in Tobacco, XXIII, b 452-3; orange dye (Dyeing), VII, b 500; refining (Gold), X, b 666; tests for (Nitrogen), XVII, a 534; tests by (Oils), a 766
——anhydride (Chemistry), V, a 445
—— esters, nitro-bodies (Nitrogen), XVII, *b* 532
—— oxide (Chemistry), V, b 444; reactions, b 436-7
—— peroxide (Chemistry), V, a 445, a 446
Nitrides (Chemistry), V, b 414; (Nitrogen), XVII, a 529, a 531; (Wöhler), XXIV, a 661
Nitriles (Chemistry), V, *b* 481, a 491, b 501; amine (Chemistry), V, a b 499
Nitrite of amyl, drug (Pathology), XVIII, b 394
Nitrites (Chemistry), V, a b 445, a 497
Nitrobenzol (Aniline), II, *b* 43, *a* 44; (Perfumery), XVIII, b 536, a 537; (Coal Tar Colors), a b 901
Nitro-bodies, proper (Nitrogen), XVII, b 532
Nitrocalcite (Mineralogy), XVI, b 412
Nitro-cotton (Nitroglycerin), XVII, b 534
Nitroform (Chemistry), V, a 491
NITROGEN, element, XVII, b 528-34
  ammonia, a 529-31
    preparation of, a 530-1
  analysis, b 533-4
  carbon compounds, b 532-3
  gas, functions of elementary, b 528-9
  nitrates, a 531-2
  nitric acid, b 531-2
—— (Chemistry), V, a 441-6; (Guano), XI, a b 207, *a* 208; (Iron), XIII, a 296; (Manure), XV, b 513-6, a 519; in blast-furnace (Iron), XIII, b 289-90, b 318; expansion of (Heat), XI, a *b* 512; in food (Dietetics), VII, b 181-2; (Gelatin), X, *b* 118; in ocean (Sea Water), XXI, b 643-4; in plants (Physiology), XIX, a 62; plant absorption of (Physiology), b 52, b 55, b 56-7; quantitative analysis of (Chemistry), V, *a* 473-4; source of organic (Water), XXIV, a 420, a 421; spectrum of (Spectroscopy), XXII, a 389
NITROGLYCERIN, explosive, XVII, a 534-5; (Blasting), III, a *b* 702, *a* 703; (Dynamite), VII, b 504-5; (Glycerin), X, a b 623; (Mining), XVI, a 465, *b* 481
Nitromagnesite (Mineralogy), XVI, b 412
Nitro-propiolic acid (Indigo), XII, b 885
Nitroprussides (Chemistry), V, b 481
Nitrosyl-chloride (Chemistry), V, b 444
Nitrous acid (Chemistry), V, b 443, a b 445; anhydride (Chemistry), a 445; diethyline (Nitrogen), XVII, a 533
—— oxide gas (Anæsthesia), I, b 692-3; (Beddoes), III, b 414; (Chemistry), V, b 443, a b 444, a 446; (Davy), VI, a 744; (Poisons), XIX, b 291
—— vapors (Poisons), XIX, a 291
Nitsche, naturalist (Polyzoa), XIX, *a* 451, b 452, b 456
Nitschmann, David, bishop (Moravian Brethren), XVI, a b 838
Nitsuké, carvings (Japan), XIII, a 602
Nittany valley (Pennsylvania), XVIII, a b 509
Nituk or Dilvun, kingdom (Babylonia), III, a 159, b 160
Nitzsch, Christian Ludwig, zoologist (Humming-Bird) XII, b 371; (Ornithology), XVIII, b 22, a b 24-5, a b 26, note, a 30-1, notes, a 32, a b 33, note; (Owl), a 92
——, Gregor Wilhelm, philologist, XVII, a 535; (Homer), XII, a 120, a 125
NITZSCH, Karl Immanuel, theologian, XVII, a 535
——, Karl Ludwig, theologian, XVII, a 535
Niuè island (Polynesia), XIX, b 434, a 442
Nive, river (France), IX, b 457; (Pyrénées), XX, *b* 132
Nivelle river (Pyrénées), XX, *b* 132
NIVELLES, town, XVII, a b 535; (Belgium), III, a 449
Nivernais, district (Nevers), XVII, a 378
Niza, Marcos de, monk (New Mexico), XVII, b 411
Nizám, Territory of the (Hyderabad), XII, b 443-5; acquisition of (India), b 842, *a b* 843, a 844, b 848; military organization of (Army), II, *a* 517, a b 540

Nizám al-Mulk, vizier (Seljuks), XXI, *a* 667; (Omar Khayyám), XVII, a 793
—— Gedeed (Egypt), VII, b 663, a 664
NIZÁMI, poet, XVII, b 535–6; (Persia), XVIII, a 670
Nizams of Berar, III, a 504
Nizam-ul-Mulk, nawáb (India), XII, a 835, b 839
Njal, hero (Apparitions), II, b 178
Njala (Magnusson), XV, b 286
Njèmsi volcano (Africa), I, b 225
Njeommelsaska, waterfall (Sweden), XXII, a 775
Nkomo river(Gaboon), X,b 4
No or No-Amon, city (Egypt), VII, b 673
No, lake, (Nile), XVII,b 519
"Noa," converse of Taboo, XXIII, a 20, a b 21
Noachic laws (Proselyte), XIX, b 845
Noacolly, district (Noákhálí), XVII, b 537
NOAH, patriarch, XVII, b 536-7; (April), II, a 187; (Nakhichevan), XVII, b 174; Chaldean (Babylonia), III, b 160; Mexican (Mexico), XVI, b 217
Noah-prophecy (Apocalyptic Literature), II, *a* 154
Noah's ark (Ararat), II, a 271; (Baris), III, b 323
Noah's Ark (Fahlcrantz), VIII, a b 741
Noah's Hill (Kúrdistán), XIV, a 157, note
NOAILLES, family, XVII, a b 537
——, Adrien Maurice, duc de, XVII, a 537
——, Anne Jules de, general XVII, a537; (Gerona), X, b 490
——, Emmanuel MarieLouis, marquis de, XVII, b 537
——, Henri, comte d'Ayen, XVII, a 537
——, Jean Paul Francois, duc de, XVII, a 537
—— Louis, duc de, marshal, XVII, a 537; (France),IX, a 515
——, Louis Antoine de, cardinal XVII, a 537; (France), IX, b 514; (Jansenism), XIII, *a* 575
——, Louis Marie, vicomte de, XVII, b 537
——, Paul, duc de, XVII, b 537
——, Philippe, comte de, marshal, XVII, b 537
NOÁKHÁLI, district, XVII, b 537–8
Nob, sanctuary (David),VI,b 737, a 738; (Israel), XIII, a b 414
——, region (Nubia), XVII, a 625
Nobatæ, tribe (Nubia), XVII, a 625, a 627
Nobbs, George Hunn, pastor (Pitcairn), XIX, b 141
Nobel, Alfred, chemist(Blasting), III, a *b* 702, a 703; (Dynamite), VII, b 504; (Explosives), VIII, a b 708, a 709, a b 710, a 711; (Nitroglycerin), XVII, *b* 534
Nobert's test-plate (Microscope), XVI, a 274, a 277, a 281
NOBILI, Leopoldo, physicist, XVII, a 538; his multiplier (Electricity), VIII, a 13; his rings (Electricity), b 55; (Electrolysis), b 103
——, Roberto de, missionary (Caste), V, b 166; (Jesuits), XIII, a 662; (Missions), XVI, b 536
Nobiling, Karl,socialist (William I.), XXIV, a 614
NOBILITY, XVII, a 538–44
  Athens, a b 540
  civic aristocracies, b 541–2
  conclusions, b 544
  definitions, a b 538
  English transformations, a b 543
  Europe, western, b 542–3
  France and Poland, b 543
  gentry, b 538
  nobilitas nova, b 539–40
  patricians, a b 539
  Roman, b 538–40
  rural, a b 542
  Sparta, b 540–1
  tendencies, recent, b 543–4
  Venetian, a 542
—— (Baron), III, b 334; (Denmark), VII, b 75–6; (Normandy), XVII, b 553, b 555; (Norway), a b 602, a 603; (Persia), XVIII, b 618, a 621, a 623, b 627; Titles of, XXIII, a 446; Araucanian (America), I, b 615; Burmese (Burmah), IV, a *b* 494; distinguished from Peerage, XVIII, a 469, a 471–2; English (Burke), IV, b 484; (England), VIII, b 282; French (Louvois), XV, b 28; marshals of (Mohammedanism), XVI, a 614; mediæval orders (Knighthood), XIV, a b 121; Napoleonic, XVII, b 218; Roman feudal (Popedom), XIX, a 512; (Rome), XX, b 817, a b 818, b 823–4; mediæval (Rome), a 800, *a* b 802, a *b* 804, *a* 805, *a* *b* 807, *a* 808, a 809–10, *b* 812; "new" (Augustus), III, b 72; (Rome), XX, a b 774, a 775, *b* 779, note, a 783. See Aristocracy and Nobles
Noble, Andrew, engineer (Gunmaking), XI, a 260, *a* b 262; (Gunnery), b 265, b 281; (Gunpowder), a b 288, a 295; (Mining), XVI, a 465, a 481; his chronograph (Gunnery), XI, a b 265–6
——, William, musician (Music), XVII, a 96
—— abbeys (Monachism), XVI, b 739 note
—— comb (Wool), XXIV, b 695
Noble Gentleman (Beaumont and Fletcher), III, b 408
Noble Metals, XVI, b 75
Nobles, Aragonese (Spain), XXII, *a* b 336, b 337, *a* b 338
——, Aztec (Mexico), XVI, b 218
——, French, IX, b 468, *a* 469, b 470, a 521, b 529
——, German (Esthonia), VIII, a 496; (Peerage), XVIII, b 471; immediate (Germany), X, b 441–2; mediate, b 436, a b 437; Luther's *Address to*, XV, b 75, b 78; war of (Germany), X, b 446-7
——, Japanese, XIII, b 587, a b 588, a 589, a 591–3
——, Polish, XIX, a 300, a *b* 301, a *b* 302, *b* 303, *a* b 306, a b 309, b 310; (Presbyterianism), b 716; ruin of (Poland), a 321
——, Roman. See Nobility, Roman
——, Scotch, repressed by the Stuarts (Scotland), XXI, a b 514, a b 515, a 516, b 517, *a* 521
——, Swedish (Gustavus I. and II.), XI, a 298; (Gustavus III.), b 299; (Sweden), XXII, *b* 781, a *b* 784, a 786, a 789, *a* 790
Noblesse, French (Nobility), XVII, b 538
Noboa, Diego, president (Ecuador), VII, *a* 563
Nobrega, Manoel da, missionary (Brazil), IV, a 206
Noce, valley dialect (Italy), XIII, *b* 502
Nocera, Umbria, town, XVII, a 544
NOCERA INFERIORE, city, XVII, a 544
No Cross, No Crown, treatise (Penn), XVIII, b 503
Noctes Ambrosianæ (Wilson), XXIV, a b 624
—— *Atticæ* (Gellius), X, b 120–1
Noctilio, genus (Mammalia), XV, b 417–8
Noctiluca, genus (Histology) (Ill.), XII, a b 6; (Phosphorescence), XVIII, b 827; (Protozoa) (Ill.), XIX, b 860, a b 884, *b* 885, *b* 886
Noctuidæ, family (Butterflies and Moths) (Plate XXXI), IV, a b 531; (Insects), XIII, b 157
Nocturnos, society (Castro), V, b 175
Nocumento amovendo (Writ), XXIV, b 731
Nod, land of (Cain), IV, b 570
Nodal, Bartolomeo Garcia de, navigator (Tierra del Fuego), XXIII, a 411
—— conic defined (Surface), XXII, b 704
NODDY, sea-bird, XVII, a b 544; (Tern), XXIII, *b* 206
Node (Infinitesimal Calculus), XIII, a 28
——, new bone (Surgery), XXII, b 719
Nodes (Acoustics), I, b 103, a b 104, b 105, a 106; (Alchemy), I, b 407
—— of the Equator (Astronomy), II, a 674
——of Ranvier (Physiology) (Ill.), XIX, a 27
NODIER, Charles, author, XVII, b 544–5; (France), IX, a 594
Nodosaria (Foraminifera) (Ill.), IX, a 325, b 332
Noël, Alexander, or Natalis (Church History), V, b 668
NOETUS, divine, XVII, a 545
Nogai, Tatar chief (Mongols) XVI, a 773
Nogais, people (Tartars), XXIII, b 76
Nogoya, city. See NAGOYA
Noh, river (Jalãun), XIII, a 557
Nohlite (Mineralogy), XVI, b 446
Noil yarn (Silk), XXII, a 70
Noir, Mont (Jura), XIII, b 792
Noiré, Ludwig (Evolution), VIII, b 672-3
Noires, mountains (Finistere), IX, a 188
NOIRMOUTIER, island, XVII, a b 545; (Vendée), XXIV, a b 149
Noises defined (Ear), VII, b 512
Noizet, St. Paul Jean François Gaspard, general (Fortification), IX, a 395, b 409
Noja, town (Plague), XIX, a 177
Nokkára khaña trumpet house (Ispahán), XIII, b 404
NOLA, city, XVII, b 545; (Paulinus), XVIII, a b 445; (Rome), XX, a 761
Nolan, Frederick, inventor (Transverse Flute), XXIII, a 554
Nolan, rangefinder (Telemeter), XXIII, b 136
Nöldeke, Theodor, philologist (Hebrew Language and Literature), XI, a b 532, note, a 533, note; (Pentateuch), XVIII, a517, note, b 522; (Smallpox,) XXII, a 72, note; (Syriac Literature), b 865, notes, a 869, note, a 871, note, *a* 876, b 894; (Tabarí), XXIII, b 6, a 7 note; (Talmud), a 43; (Tobit), a b 456, note. See List of Contributors
NOLLEKENS, Joseph, sculptor, XVII, b 545–6; (Sculpture), XXI, a 587, note
NOLLE PROSEQUI, legal term, XVII, a 546
NOLLET, Jean Antoine, physicist, XVII, a 546; (Electricity), VIII, a 7
Nomada, insects (Hymenoptera), XII, a 611
Nomad tribes (Afghânistân), I, a 212; (Carthage), V, a b 140; (Funeral Rites), IX, a 724; (Kirghiz), XIV, a 96–8; (Kurdistan), b 157–8; (Persia), XVIII, b 638, a 639
Nomadic cultivation (India), XII, a 792
Nomansland, district (Cape Colony), V, b 37, b 42, *a* 43; (Kaffraria), XIII, b 826
Nomarchs (Greece), XI, *a* 77
Nomeidæ, family (Ichthyology), XII, a 716, b 728
Nomen arcarium (Roman Law), XX, a 718
Nomenclator Avium (Love-Bird), XV, a 30
Nomenclature of Geology, X, a b 289
—— of Iron, XIII, b 288
—— of natural history (Morphology), XVI, b 864
Nomen transcripticium, contract (Roman Law), XX, *a* 718
Nomentum, city (Latium), XIV, a 345
Nomes or provinces (Egypt), VII, a 608-9

Nominalism in philosophy (Abelard), I, a 38-9; (Abstraction), a b 59; (Averroes), III, b 130; (Berengarius), a 506; (Buridan), IV, *a* 481; (Logic), XIV, b 791-2, *a* 799, a b 802, a 809; (Metaphysic), XVI, b 87; (Norris), XVII, a 566; (Occam), XVII, b 738-9; (Peripatetics), XVIII, a 558; (Psychology), XX, b 80-1, a 83; (Roscellinus), a b 871; attributed to Aristotle, II, b 452, note; mediæval (Scholasticism), XXI, b 436-7, *a b* 438, a b 439, a 441, a b 442, a 443, a 446; revival of (Scholasticism), b 447-8; triumph of (Universities), XXIII, b 899
Nominal Wages, XXIV, a b 327, *a* 328, b 331, a b 332
Nominoe of Brittany, count (Vannes), XXIV, a 75
Nomistic Religions, XX, b 379, b 380, a 382
Nomocanons (Canon Law), V, a 16; (Syriac Literature), XXII, b 899; Nestorian (Syriac Literature), XXII, a 901
Nomokhan, officer (Tibet), XXIII, *b* 364
Nomophylaces, magistrates (Areopagus), II, a 426
Nomothetic. See Nomistic
Nomuka, island (Friendly Islands), IX, a 684
Non, cape (Morocco), XVI, b 857, note
Nonconformists, English (Alsop), I, a 561; (Ames, W.), b 645; (Baptists), III, a 306; (Baxter), b 393, a 394; (Binney), b 587; (Calamy), IV, b 578, a 579; (Conder), VI, a b 221; (England, Church of), VIII, b 337-9; (Henry, M.), XI, b 602; (Howe), XII, b 336; (Independents), b 764, a 766; (Owen, J.), XVIII, a b 89, a 90
——, Russian, XXI, a 90-1; (Tamboff), XXIII, a 46
NONCONFORMITY, legal aspect of, XVII, b 546-7. See Nonconformists
Non-contradiction (Hume), XII, a 366
Nones in Roman Calendar, IV, a b 590
Nonette, river (Oise), XVII, a 771
Non-forfeiture system (Insurance), XIII, b 185-6, b 189
Non-intercourse law, 1809 (United States), XXIII, b 807
Non-intervention, principle (Balance of Power), III, a 231, a b 234; (Diplomacy), VII, b 219; (International Law), XIII, b 198
Nonionina, shell-fish (Leeuwenhoek), XIV, b 411
Nonius, cosmographer. See NUÑEZ, Pedro
NONJURORS, English, XVII, a 547; (Collier, Jeremy), VI, b 130-1; (Convocation), a 292; (Hickes), XI, a 705
Non-luminous objects (Light), XIV, a 590
Nonna, mother of Gregory Nazianzus, XI, b 160
Nonni river (Manchuria), XV, b 473, *a* 474
NONNUS, poet, XVII, a 547; MS. of (Palæography), XVIII, a 169
—— of Antioch, bishop (Pelagia), XVIII, b 481
—— of Nisibis, archdeacon (Syriac Literature), XXII, a 890
Nonohan, mountain (Sabah), XXI, b 131
Non omittas, Writ, XXIV, a 732
NONPAREIL, bird, XVII, b 547
—— type (Typography), XXIII, b 743
Non Plus Ultra, sonata (Woelfl), XXIV, b 659
Non Possumus (Pius IX.), XIX, a 168
NONSUIT, legal term, XVII, b 547-8
Nontronite (Mineralogy), XVI, b 443
NOODT, Gerhard, jurist, XVII, a 548
Noort, Adam van, painter (Rubens), XXI, *a* 47
——, Oliver van, admiral (Geography), X, b 166
Nootka, island and sound (Vancouver Island), XXIV, a 64
Nopal, plant (Honduras), XII, a 135
Nopaleries, plantations (Cactus), IV, b 556
Noph, town (Memphis), XV, a 856
Nórag, machine (Egypt), VII, a 614
Norba, city (Latium), XIV, a 345
—— Cæsarea, town (Alcantara), I, b 405
Norbanus, Caius, consul (Rome), XX, *b* 779
Norbert, monk (Abbey), I, b 25
NORD, department, XVII, a b 548
Nordalbingia, district (Saxony), XXI, a b 367; (Schleswig-Holstein), b 433
Norden, Sir John, topographer (Agriculture), I, b 264-5; (England), VIII, a b 206; his map of Tudor, London, XIV, 857, a 858, note
Nordenfelt gun (Gunmaking) (Ill.), XI, a b 254, a b 255, a 256
Nordenflycht, Hedvig Charlotta, poet (Sweden), XXII, a 794
Nordenskiöld, Nils Adolf Erik, baron, navigator (Geography), X, a b 175; (Indians), XII, *b* 862; (Meteor), XVI, a 118; (Polar Regions), XIX, b 330, note, b 335, a b 336, a *b* 337, b 338; (Sierra Leone), XXII, a 51; (Spitzbergen), *b* 425; (Yakutsk), XXIV, a 762
—— bay (Nova Zembla), XVII, b 619
NORDERNEY, island, XVII, b 548; (Germany), X, a 402
Nord Fjord (Norway), XVII, b 590, a b 591
NORDHAUSEN, town, XVII, b 548-9
—— sulphuric acid (Chemistry), V, b 439; (Sulphur), XXII, a 670
Nordheimer, Isaac, orientalist (Turner, W. W.), XXIII, a 949
Nordhoff, Charles, journalist (Communism), VI, b 189, *a* b 193, a 194, a b 195
Nordisk Universitets Tidsekrift (Periodicals), XVIII, a 551
Nordland, district (Norway), XVII, b 590, a 592, b 593
NORDLINGEN, town, XVII, a 549
——, Heinrich von, mystic (Mysticism), XVII, b 140
Nore, river (Ireland), XIII, b 222, b 224; (Kilkenny), XIV, *a b* 76; (Queen's County), XX, b 177; (Waterford), XXIV, b 422, b 423
Noreen, Adolph, philologist (Scandinavian Languages) XXI, b 384, a 388 notes, a 389, note, a 391
Noreia, town. See NEUMARKT
NORFOLK, county (Plate XVI), XVII, a 549-51; (England), VIII, b 195; dukedom, XVII, b 550; (Sheffield), XXI, b 823, *a* b 824
NORFOLK, city, XVII, a 551
NORFOLK ISLAND (Plan), XVII, a b 551; (Zosterops), XXIV, b 863
——, duke of (Earl), VII, a 515; (Marshal), XV, a 581; (Surrey), XXII, b 730
——, Thomas Howard, duke of (Mary Stuart), XV, a b 606; (Wolsey), XXIV, b 669
——, Thomas Mowbray, duke of (England), VIII, b 287; (Lancaster), XIV, a 257
—— fishing (Angling), II, b 30-1
—— system (Agriculture), I, b 303
Norhachi, chief (Manchuria), XV, b 474-5
Noric Alps, I, a 547, b 552-3; (Austria), III, b 100
Norici, tribe (Archæology), II, a 293; (Austria), III, a 108; (Tyrol), XXIII, b 758-9
NORICUM, country, XVII, b 551
Normal, mathematical (Conic Sections), VI, b 242, b 244, a 248; (Curve), b 637-8; (Infinitesimal Calculus), XIII, b 27; equation of (Geometry), X, b 372-3
—— Glass, X, a 584
—— paths (Magic Square), XV, b 215-6
—— salts (Chemistry), V, b 421
—— School, Paris, XVIII, a 286; (Monge), XVI, a 766; (Volney), XXIV, b 302, note
—— schools (Belgium), III, a b 449; (Schools), XXI, b 910
—— section of curved surfaces (Geometry), X, *a* 378
Normals in spheres of projection (Mineralogy), XVI, b 366
—— of a Surface, XXII, b 705, b 706
Normal stress (Strength of Materials), XXII, b 623
—— Value, XXIV, b 55-6
Norman, Sir John, lord-mayor (Rowing), XXI, b 35
——, Robert, hydrographer (Geography), X, *b* 167; (Magnetism), XV, *a* 222, notes, b 223, a b 224, a 235
—— Architecture, II, b 372-3; (England), VIII, b 270-1
—— Arms and Armor, II, a 487
—— art, England (Sculpture), XXI, b 584
—— Castle (Ill.), V, a 172-3
—— Conquest of England, VIII, b 262, a 264, a 266-71; (France), IX, b 554; (Normandy), XVII, a b 556, a b 557; (Normans), b 560, a 562-5; (Northumberland), a 585; (William I.), XXIV, a b 607; effects of (Accent), I, b 78, a 79; (English Language), VIII, b 351-2; (Jury), XIII, b 793; (Land), XIV, b 264; (Municipality), XVII, a b 35; (Parliament), XVIII, a b 309; (Real Estate), XX, b 317-8
Norman Conquest of England (Thierry), XXIII, b 322
—— earls (York), XXIV, b 786
—— - English church (Liturgy), XIV, b 715
—— Helmet, XI, a 569
—— Horses, XII, a 185
—— house (Christchurch), V, 597
—— kings of England (Finance), IX, a 153; table of (William I.), XXIV, b 608
—— literature (Delarue), VII, b 38, a 39
NORMANBY, Constantine Henry Phipps, marquis of, author and statesman, XVII, b 551-2
NORMANDY, XVII, a 552-60
  anarchy time, b 557-8
  Angevine dukes, b 558-9
  Christian and heathen struggle, a b 554
  English conquest, effect of, b 557, a 559
  English Norman kings, a b 558
  French acquisition of, a b 559
  French alliance, b 554-6
  geography of, a b 552
  Henry V., reconquest by, b 559-60
  land and people, Norse times, b 553-4
  linguistic influences, b 555
  Richard the Fearless, b 554-5
  Richard the Good, b 555-6
  Robert, duke, a 556
  Scandinavian settlements, b 552-4
  wars with England, b 559
  William the Bastard, a 556-7
  William Longsword, a 554

—— (England), VIII, a 259, b 260, b 271-2; (Henry I., England), XI, *a b* 585; (Henry I., France), a 597; (Malmesbury), XV, a b 339; (William I.), XXIV, b 606, a b 607-8; (Wil-

Normandy, *continued*
liam II.), b 608–9; loss of (England), VIII, b 275; (John, England), XIII, b 724, a 725. See Norman Conquest
—— custom (Primogeniture), XIX, *a* 754, b 756
Normandy's apparatus (Distillation), VII, a b 229
NORMANS, race, XVII, a 560–5
  architecture, b 564–5
  character, a 560–2
  conquest of England and Sicily compared, b 560, a b 562
  development of the, a b 560
  languages, influence on, b 563–4
  Scotland, Wales and Ireland, a b 564
  Sicilian population, b 562–3
  versatility, effect of, a 565
—— (Costume), VI, a 412; (England), VIII, b 267, b 269, b 272; (Godwine), X, a b 641; (Greece), XI, a 106; (Italy), XIII, a b 481; (Malta), XV, a 345; (Messina), XVI, a 62; (Naples), XVII, a b 198; (Numismatics), b 672, b 675–6; (Palermo), XVIII, a b 173, b 174; (Scotland), XXI, a 503; (Sicily), XXII, a 29–32; (Tunis), XXIII, a 661. See Norman and NORMANDY
Norman Sculpture, XXI, b 584
Norman's Woe, reef (Gloucester), X, a 617
NORMANTON, town, XVII, a b 565
Norms, law of (Quaternions), XX, *a* 169
Norns, myths (Æsir), I, b190
Noronha, Antonio da, viceroy (Camoens), IV, b 660, b 661
——, Thomas de, poet (Portugal), XIX, b 571
Norrbotten, province (Sweden), XXII, a *b* 780
Norrenberg's polariscope (Mineralogy), XVI, a 389
Norris, Edwin, ethnologist (Celtic Literature), V, *b* 259, a 281, a 285; (Inscriptions), XIII, *b* 124
NORRIS, John, philosopher, XVII, b 565–6; (Locke), XIV, b 760, a 761; (Porson), XIX, *b* 537
——, Sir John (Ireland), XIII, a 271
——, William, manufacturer (Steam-Engine), XXII, b 923
—— basin (Yellowstone Park), XXIV, b 774
NORRISTOWN, town, XVII, b 566
NORRKOPING, town, XVII, b 566–7; (Sweden), XXII, b 774, a 780
Norrland, province (Sweden), XXII, a 774, a *b* 777, a *b* 779
Norrmalmen, suburb (Stockholm), XXII, b 587
Norse earls (Orkney), XVII, a b 873; family (Religions), XX, 372, b 373; Funeral Rites, IX, b 724–5; languages (Europe), VIII, a 615; (Scandinavian Languages), XXI, b 385–6; legends (Sea Serpent), *a* 639
Norsemen. See Northmen
Norse poetry (Nibelungenlied), XVII, b 487–9
Norse Popular Tales (Moe), XVI, a 566
Norse remains (Greenland), XI, *b* 152, *a* 153, note
Norsk-Norsk language (Scandinavian Languages), XXI, b 390
Nortes, winds. See Northers
North, Brownlow, bishop (North, Lord), XVII, b 567
——, Christopher. See WILSON, John
NORTH, Sir Dudley, economist, XVII, b 567–8; (Political Economy), XIX, a 371
NORTH, Frederick, earl of Guilford, premier, XVII, a b 567; (Almanac), I, b 520; (Burke), IV, b 485, *b* 486; (Fox, C. J.), IX, b 436, *b* 437; (George III.), X, *b* 381, *a* 382; (Junius), XIII, a b 785; (Minto), XVI, a 515; (Pitt), XIX, b 145, a 146, a b 147, a b 148, a 149; (Wedderburn), XXIV, a *b* 502; (Whig and Tory), b 570
NORTH, Roger, biographer, XVII, a b 568
NORTH, Sir Thomas, translator, XVII, b 568
NORTH ADAMS, Mass., XVII, b 568
—— African current (Atlantic Ocean), III, a 19
NORTHALLERTON, town, XVII, b 568
North America, I, a b 588, a 592–611, b 619–22, b 623–4, b 627–9; (Ichthyology), XII, a b 712, a b 714, a b 717; (Lakes), XIV, a b 218, a 222; fauna (Distribution), VII, a 234, b 238, a b 239, *a b* 240, *a* 243; flora (Distribution), *b* 249, *a* b 250
North America, Travels in (Hall, Basil), XI, a 347
North American, newspaper (Philadelphia), XVIII, a 754
—— Dictionaries, VII, b 167–8
—— Indians, XII, a 862–8, a 870–4
—— *Review* (American Journalism), XVII, b 892–3; (Everett), VIII, b 645, *a* 646; (Periodicals), XVIII, b 555; (Tudor), XXIII, a 948
NORTHAMPTON, county (Plate XVII), XVII, a 569–70; ore and Iron, XIII, a 293, a 294, a 314; town (Plan), XVII, b 570–1; assize of, 1176 (England), VIII, b 276; mortality table (Insurance), XIII, a 176, a 180, a 184
NORTHAMPTON, town, Mass., XVII, b 571
NORTHAMPTON, Henry Howard, earl of, XVII, b 571–2
NORTHAMPTON, Spencer Compton, earl of, XVII, a 572
North and South, novel (Gaskell), X, b 94, a b 95
Northanger Abbey, novel (Austen), III, *b* 88
North Anna, battle of, 1864 (United States), XXIII, b 827
—— Aran, island (Donegal), VII, a 313
—— Barrule, mountain (Man), XV, b 457
—— Berwick, town (Haddington), XI, b 323, a 324
NORTH BIERLEY, town, XVII, a 572
North British Railway, XX, a 233, a b 234, a 235
North Briton, journal (Wilkes), XXIV, b 598
Northbrook, Thomas George Baring, earl of (India), XII, b 850–1
NORTH CAROLINA (Plate XVIII), XVII, a 572–6
  area, a 572
  climate, b 572–3
  geographical features, a b 572
  geology, a b 573
  history, a 575–6
  mineral wealth, b 573–4
  political and industrial features, b 574–5
  soils and forests, a b 574
—— (Ruby), XXI, a 54; (Slavery), XXII, b 906, b 907, a b 908; (Tennessee), XXIII, b 194–5; (Universities), a 913, a b 956, b 960; colony (Tryon), b 946; (United States), b 777, b 778, b 785; history (United States), b 795, b 796, b 800, b 801, b 802, b 821, a b 823, note, b 828; statistics (United States), b 853, a 855, b 857, *a* b 859, *a b* 860, *a* 861, b 863, b 864, a b 867, b 868, a b 878; topography (United States), a 843, a b 844, b 845
Northcote, Spencer, archæologist (Catacombs), V, b 181, a 185, a 186
NORTHCOTE, James, painter, XVII, a b 576; (Hazlett), XI, b 491
——, Sir Stafford Henry, earl of Iddesleigh, statesman, *b.* 1818, *d.* 1887 (Finance), IX, a b 165, a 166; (Russell, J. S.), XXI, b 72
North-Eastern Railway, XX, a 233, b 234, a 235, a 252, 253
North-East Land, island (Spitzbergen), XXII, a 423, *a* 424
Northeast passage (Geography), X, a 164, a 165, *b* 169, b 170, a b 175; (Polar Regions), XIX, a 329, a 331, a b 337
Northern Antiquities (Mallet), XV, b 337; (Iceland), XII, a 658 note
Northern epic poetry, XIX, b 280–1
—— flora (Distribution), VII, *a* b 249–51
—— lights (Aurora Polaris), III, a 79
—— Pacific Railroad XIX, a 920–1; (United States), XXIII, a b 847; (Washington), XXIV, a 406, a 408; (Yellowstone Park), b 774
—— war, 1700–18 (Sweden), XXII, b 788–9
Northers or Nortes, winds (Meteorology), XVI, b 154; (Mexico), a 223
North Esk, river (Kincardine), XIV, *b* 80
NORTHFLEET, village, XVII, b 576
North Holland Canal, IV, a 696
Northington, Robert Henly, earl of (Camden), IV, a 650; (Windham), XXIV, a 630
North Logan Peak (United States), XXIII, a 847
—— London Railway, XX, a b 234, a 235, a 255
—— Mark, district (Salzwedel), XXI, b 253; rise of (Prussia), XX, a *b* 6
Northmavine, parish (Orkney), XVII, b 870, a 871, b 873
Northmen or Norsemen (Charlemagne), V, b 349; (Charles II. and III.), *a* 355; (France), IX, a b 472, a 473; (Geography), X, b 159; (Germany), b 431, *a* 432; (Holland), XII, b 73; (Normans), XVII, a b 560; (Norway), a 598; their discoveries (Geography), X, b 159; (Polar Regions), XIX, a 328; invasions of Ireland, XIII, a b 257; of Scotland, XXI, b 499–501. See NORMANS, Norse and NORWAY
Northmen, History of (Wheaton), XXIV, a 568 note, b 892
North Platte, river (Wyoming), XXIV, b 748
—— Polar Region, XIX, a 327–41
—— Riding, district (York), XXIV, b 783, a *b* 784, *a* b 785, *a* 786
—— river (Hudson River), XII, a b 345
NORTH SEA or German Ocean (Ill.), XVII, b 576–8; (Fisheries), IX, *a* b 216, a *b* 217, a 223; (Scotland), XXI, a 549; (Tides), XXIII, a 397, *a* b 398; coast (Germany), X, a 402, b 403; floor of (Geology), a 255; glacial (Geology), *b* 325
North Shields, town (Northumberland), XVII, a b 580; (Tynemouth), XXIII, a 718
—— Sydney, town (Nova Scotia), XVII, a 618
NORTHUMBERLAND, county (Plate XIX), XVII, a 578–82
  agriculture, b 580–1
  antiquities, b 581–2
  bibliography, a b 582
  climate, a 580
  geography, a b 578
  geology, b 578–9
  industries, b 581
  land, b 580
  natural products, b 579–80
  political organizations, b 580
—— (Coal), VI, a 47, b 49, b 60, b 72, a 73; (Domesday), VII, a b 303; duke of, XVII, b 580, a 581

- NORTHUMBERLAND or Northumbria, Kingdom of, XVII, b 582–5
  - authorities, b 585
  - Bernicia and Deira, b 582
  - church, rise of, a b 583–4
  - conquest, Norman, a 585
  - Danish settlements, a b 584
  - decline of, a 584
  - scope of the subject, b 582
  - summary, a b 585
- —— (Edmund I.), VII, b 580; (Edward I.), a b 591; (Edwin), b 599-600; (England), VIII, b 244, a b 245–6, a 255; (Ireland), XIII, b 258; (Lancashire), XIV, a 255; (Oswald), XVIII, b 67; (Primogeniture), XIX, b 753; (Scotland), XXI, b 497–8; (York), XXIV, b 786
- ——, Henry Algernon Percy, earl of (Boleyn), IV, b 5; (Percy), XVIII, a 534
- ——, Henry de Percy, earl of (Henry IV., England), XI, b 588; (Percy), XVIII, b 533
- ——, Hugh Smithson, duke of (Percy), XVIII, b 534; (Smithsonian Institution), XXII, b 913
- ——, John Dudley, duke of (Birmingham), III, a 682; (Edward VI.), VII, *a* 595; (England), VIII, b 303; (Grey, Lady J.), XI, *b* 172
- ——, John de Montague, earl of (Warwick), XXIV, *b* 402, a 403
- ——, Thomas Percy, earl of (Percy), XVIII, a b 534
- ——, Waltheof, earl of (Tottenham), XXIII, b 506
- Northumbria. See NORTHUMBERLAND, Kingdom of
- Northumbrian dialect (Iceland), XII, a 665
- NORWALK, Connecticut, town, XVII, b 588
- NORWALK, Ohio, town, XVII, b 588
- NORWAY (Plate XX), XVII, a 588-606
  - bibliography, b 603, b 606
  - GEOGRAPHY AND STATISTICS, a 588-97
    - army and navy, b 596-7
    - avifauna, b 595
    - boundaries and surface, a 588–9
    - changes, geological, a 592-3
    - coasts and island, a b 590
    - fish, b 595–6
    - fjords and islands, b 590–1, b 594
    - flora and fauna, b 594-6
    - geology, a 591–3
    - industrial features, a b 596
    - meteorology, a b 593-4
    - minerals, a 592
    - Norwegian sea, a 591
    - political institutes, a b 597
    - sea-bed, a 591
    - statistics, a b 596
    - temperature, a b 593, b 594
    - water systems, a 589–90
- NORWAY, *continued*
  - HISTORY, a 598–603
    - anarchy, period, a 602
    - bibliography, b 603
    - Birkebeiner kings, b 602-3
    - Erik and Hakon struggles, a b 600
    - Harold Fairhair and sons, b 599–600
    - immigrants, early, a 598
    - lendermenn abolished, a 603
    - Magnus Olafsen and descendents, b 601–2
    - Olaf Tryggvason, b 600-1
    - primitive divisions, b 598-9
    - Saint Olaf, a b 601
    - unions, Scandinavian, a b 603
    - Vestfjold kings, a 599–602
    - Vikings, a b 598
  - LITERATURE, b 603–6
    - bibliography, b 606
    - Danish period, b 603–4
    - 18th century, a b 604
    - history and science, recent, b 606
    - Ibsen and Björnson, b 605–6
    - minor poets, a b 605
    - novelists, and folk lore, recent, a b 606
    - Trefoil, the, b 604
    - Wergeland and Welhaven, a 604–5
- —— (Army), II, b 538; (Denmark), VII, a b 77; (Eider), b 684–5; (Filigree), IX, a 144; (Fisheries), a 234; (Forests), b 349, *a* 350, a b 351; (Greenland), XI, a 153; (Ice), XII, b 649; (Iceland), b 655, a b 661; (Insanity), XIII, a 105; (Lapland), XIV, a 306, b 307; (Libraries), b 531, b 551; (Mining), XVI, a 491; (National Debt), XVII, b 253; (Newspapers), a 441; (Numismatics), b 676; (Observatory), a 735; (Periodicals), XVIII, a 554; (Pisciculture), XIX, *a* 138; (Press Laws), a 733; (Prison Discipline), a 781; (Railway), XX, b 262; (Suicide), XXII, b 662, b 663; (Sweden), b 782, b 790; (Universities), XXIII, b 906; (Veto), XXIV, a 224, a 225; (Whale), b 557–8; architectural carving (Sculpture), XXI, b 584 note; coast, elevation of (Baltic Sea), III, b 255; fishery (Oyster), XVIII, b 111; invasion of (Charles XII.), V, b 365; isotherms of (Atlantic Ocean), III, b 20; law of (Patents), XVIII, a 363
- —— Pine, XIX, b 111, a 112
- —— rat (Mouse), XVII, b 11; (Rat), XX, a b 300
- —— spruce (Fir) (Ill.), IX, a b 193, a b 194–5
- Norwegian Channel (Sweden), XXII, a 776; Dictionaries, VII, b 161; expeditions (Polar Regions), XIX, a b 335; harrow (Agriculture), I, a 285, b 286, a 300, a 301
- *Norwegian Kings, Sagas of* (Snorro Sturluson), XXII, b 212
- —— language (Scandinavian Languages), XXI, a 382, *b* 383, b 385–6, a b 390
- —— learned Societies, XXII, a 236, b 237, b 238, a b 239, a 240
- Norwegians, people (America), I, b 619–20; (Hebrides), XI, *a* 542; (Ireland), XIII, a b 257. See Northmen
- NORWEGIAN SEA (Map), XVII, 606–8; (Norway), XVII, a 591, b 593
- Northwest Fur Company (Canada), IV, b 684; (Hudson's Bay Company), XII, a 347; (Washington), XXIV b 408
- —— passage (America), I, b 627; (Chateaubriand), V, a 368; (Franklin, Sir J.), IX, a b 633, a 634; (Frobisher), a 695; (Geography), X, b 164, a 170, *b* 174; (Gilbert, H.), b 527; (Hudson, H.), XII, a 346; (Parry), XVIII, b 330; (Polar Regions), XIX, a 328, *a* 329, b 333, a 334
- NORTHWESTERN PROVINCES, XVII, b 585–7; (India), XII, b 777, b 782, a *b* 783, a b 784, a b 785, a *b* 786, b 787, *b* 789, b 792, a 793, b 797, a 799, a 802, a b 806, b 810, b 811, b 814, a b 815; climate (America), I, a 598
- NORTHWEST TERRITORY, Canada, XVII, b 587
- North-West Territory, United States (Illinois), XII, a 742, a 744; (Indiana), a 854; (St. Clair), XXI, a 899; (United States), XXIII, b 801–2
- NORTON, Caroline Elizabeth, poet, XVII, a b 588; (Sheridan), XXI, b 834 note, b 836, a 837
- ——, Sir Fletcher, typical lawyer (Thurlow), XXIII, b 353
- ——, Roger, printer (Alleine), I, a 513
- NORWICH, city, England (Plan), XVII, b 608–10; (Grains of Paradise), XI, b 33; (Libraries), XIV, a 518, b 545; (Newspapers), XVII, a 432; (Wool), XXIV, a 698; epidemic (Vaccination), b 33
- —— pliocene beds (Geology), X, b 323
- NORWICH, city, Connecticut, XVII, a b 610
- NORTHWICH, town, XVII, b 587–8; (Cheshire), V, *b* 512, a 513
- NORWOOD, suburb of Adelaide, XVII, b 610
- NORWOOD, suburb of London, XVII, b 610; (London), XIV, a 836
- ——, Richard, navigator (Earth), VII, a 516; (Navigation), XVII, a 263
- Nosairians, Nosarii or Nusairieh, sect (Assassins), II, a 633; (Canaanites), IV, a 675; (Syria), XXII, *b* 862
- Nose (Anatomy), I, a 777, b 782; (Ape), II, b 137, a 139; (Mammalia), XV, b 411–2; (Physiognomy), XIX, b 7; (Surgery), XXII, b 707; structure of the (Smell), XXII, b 176, a 177. See Nostrils
- Nosean, mineral (Mineralogy), XVI, a 430
- Noseyyeb, negro poet (Arabia), II, b 230
- *Nosks*, books (Zend-Avesta), XXIV, b 814–5
- Nosology (Cullen), VI, b 614; (Medicine), XV, b 822; (Sydenham), XXII, a 845
- NOSSI-BÉ, island, XVII, b 610–1; (Madagascar), XV, a 169
- Nossi-Komba, island (Nossibë), XVII, b 619
- NOSTRADAMUS, astrologer, XVII, a 611
- Nostrils (Anatomy), I, a 724, a 734, a 777; (Ichthyology) (Ill.), XII, b 672–3; (Mammalia), XV, a 368
- Notables, assembly of (Calonne), IV, a 630; (France), IX, b 524
- Notacanthus, genus (Ichthyology), XII, a 723, b 729
- Notarikon (Hermeneutics), XI, a 665
- NOTARY Public, XVII, a b 611; Roman (Diplomatics), VII, b 220–1
- Notation, Algebraic, I, a b 458
- ——, arithmetical, II, b 461, b 462–3; Greek, a 461; Hebrew, b 460, Hindu, b 461; Roman, a 461, a 462; abridged (Plücker), XIX, a b 240
- ——, astronomical (Comet), VI, b 163
- ——, Chemical, V, b 408–10; Berzelius's, a b 403
- —— in Chess, V, a b 516; (D), VI, a 667
- ——, Musical, XVII, b 87–8, a 89; (Guido), XI, a 229; (Hucbald), XII, a 343; (Lute), XV, a 73; (Pianoforte), XIX, a 73
- —— of crystal-planes (Mineralogy), XVI, a b 365
- Notched gauge (Gauge), X, b 99–100
- Notches (Hydromechanics), XII, b 493–6
- Notching in framing (Building), IV, a 430, a 431
- Note, promissory (Bill), III, b 582
- Notes, advance and allotment (Seamen), XXI, a 636, *a* 638
- ——, musical. See Notation, Musical, Pitch and VOICE
- *Notes and Queries* (Periodicals), XVIII, b 548
- Noteus, animalcule (Rotifera) (Ill.), XXI, b 8, a 12
- Nothe, spur of land (Weymouth), XXIV, a 551
- *Nothebischöfe*, sobriquet (Luther), XV, a 82
- Nothocercus, genus of birds (Tinamou), XXIII, a 430
- Nothochlæna, ferns (Horticulture), XII, a b 277, *a* 278
- Nothomb, Adolphe, minister (Belgium), III, b 457
- Nothoprocta, genus of birds (Tinamou), XXIII, a 430

Nothura, genus of birds (Tinamou), XXIII, a 430
NOTICE, legal term, XVII, b 611-12
Notidanidæ, family (Ichthyology), XII, b 723; (Shark), XXI, b 815
Notion or Begriff (Hegel), XI, a 553
Notions (Logic), XIV, b 806-7, a b 808
"Notitiæ communes" (Herbert, Lord), XI, a 646
NOTKER, Balbulus, hymn writer, XVII, a 612; (Hymns), XII, *b* 617, *a* 618
NOTKER Labeo, author, XVII, a 612; (Germany), X, *b* 463, a 468
NOTO, city, XVII, a 612
Notochord (Anatomy), I, a b 728; (Ichthyology), XII, a 682, a 683, a 684; (Skeleton), XXII, a b 117-8; (Tunicata), XXIII, b 652, a 653; (Vertebrata) (Ill.), XXIV, *a* 193, a *b* 194, a 196, a 198, a b 199, a b 200, a 202, a 203
Notommata, animalcule (Rotifera), XXI, a 8, a *b* 11, a 12
Notopteridæ (Ichthyology), XII, b 711, b 732
Notopteris, genus (Mammalia), XV, a 414
Notornis (Birds), III, b 634, note, a 644; (Moor-Hen), XVI, a 835
Nototherium, fossil (Kangaroo), XIII, b 850; (Mammalia), XV, b 385
"Notour" Bankruptcy, III, *b* 296
Notre Dame Bay (Newfoundland), XVII, b 391, a 392, a 394
—— cathedral (Paris), XVIII, b 281, b 293, a 294, b 299, b 300; (Architecture), II, a 377, b 404, b 412; (Sculpture), XXI, a 589; school (Abelard), I, a 38; (Universities), XXIII, a b 870
—— de Fourvières, church (Lyons), XV, b 111, b 112
—— mountains (Quebec), XX, b 171
Notredame, Michel de. See NOSTRADAMUS
Nott, Eliphalet, educator, *b.* 1773, *d.* 1866 (Potter), XIX, a 924
——, Sir William, general (Ghazni), X, b 502
Nottawasaga river (St. Lawrence), XXI, b 187
NOTTINGHAM, county (Plate XXI) (Plan), XVII, a 612-15
  area and boundaries, a b 612
  bibliography, a 614
  geology and minerals, b 612-3
  history and antiquities, b 613-4
  industrial and political features, a b 613
——, town, XVII, a 614-5; (Brick), IV, b 250; (Libraries), XIV, b 520, b 545; (Luddites), XV, *a* b 59; (Newspapers), XVII, a 432; Arkwright's mill at, II, a 475; lace (Heathcoat), XI, a b 527
NOTTINGHAM, earls of, XVII, a b 615
——, Heneage Finch, earl of (Chancellor), V, a 337
Notting Hill, hamlet (London), XIV, *b* 827
Notts, county. See NOTTINGHAM
Nouailhers, painters (Enamel), VIII, a 169
Nouméa, town (New Caledonia), XVII, b 385
Noumena (Kant), XIII, b 859, b 861, a b 863
Nouna or Nina, missionary (Georgia), X, a 388, a 389
Noungdaugyi, kings (Burmah), IV, a 497, a 498
Nouns (Grammar), XI, b 36, b 38, a 39; (Hindūstānī), a b 750, *a b* 751, a 752; cases of (China), V, a 571-2; development of (Philology), XVIII, a 785; Dutch (Holland), XII, b 92-3; Græco-Italic (Greece), XI, a 116; Indo-Germanic inflexion of (Philology), XVIII, a 803; Latin (Priscian), XIX, a b 764; primitive (Greece), XI, a b 114
Noureddin or Núr el-Dín, ruler of Syria (Egypt), VII, b 652, *a* 653; (Templars), XXIII, *b* 176
Nourse, anatomist (Hunter, W.), XII, b 407
Noursoak peninsula (Greenland), XI, *a* 150
Nous, doctrine of the (Neoplatonism), XVII, a 345
Nouvelle Bourdeaux, town (Paraguay), XVIII, a 249
Nouvelle Héloise, novel (France), IX, *a* 522, b 586; (Rousseau), XXI, *a* b 31, *a* 33
—— *Revue* (Periodicals), XVIII, a 551
Nouvelles (Musset), XVII, a b 119
—— *à la Main* (Newspapers), XVII, a 436
—— *de la République des Lettres* (Bernard, J.), III, *a* 521
Novakovich, Stovan, educator (Servia), XXI, a 724
Novalis, poet. See HARDENBERG, Frederick von
Nova Litteraria Helvetica (Periodicals), XVIII, a 553
Novantæ, tribe (Kirkcudbright), XIV, *b* 100; (Patrick, St.), XVIII, b 421, note
NOVARA, city, XVII, b 615-6; battle of, 1849 (Italy), XIII, b 498, a 499; (Victor Emmanuel), XXIV, *b* 231
—— Expedition (Ethnography), VIII, a 550
Nova Roma, city. See CONSTANTINOPLE
NOVA SCOTIA, province (Plate IV), XVII, a 616-8
  area, a 616
  climate and vegetation, a 617
  geology, b 616-7
  history, a 618
  industries, a b 617
  people, organizations of the, b 617-8
  physical features, a b 616
—— (Canada), IV, b 676, b 677, a 678, a 680-1; (Haliburton), XI, *a* 342; (Iron), XIII, a 314; trade of (Canada), IV, 689
——, Baronets of, III, *b* 335
Novatians or Novatianists, sect (Montanism), XVI, b 803; (Socrates), XXII, a 253
NOVATIANUS, antipope, XVII a b 618; his Creed, VI, a b 495
NOVATION, legal term, XVII, b 618-9
Novatus, presbyter (Novatianus), XVII, b 618
Nova Via (Rome) (Plate VII) (Ill.), XX, b 844, note
NOVA ZEMBLA, island (Map), XVII, a 619-21; fishery (Seal), XXI, b 609, a 610; (Ural Mountains), XXIV, b 7, a 8
Novellæ Constitutiones (Justinian I.), XIII, b 803, a 804; (Litany), XIV, a 702; (Roman Law), XX, a *b* 731, a 732, b 733-4, a b 735; (Tribonian), XXIII, b 590
NOVELLO, Vincent, musician, XVII, a 621
Novels. See Fiction and ROMANCE
——, American, I, a 636-8; (Brown, C. B.), IV, a b 345; (Cooper, J. F.), VI, b 299-300; (Hawthorne), XI, b 479-81; (Paulding), XVIII, a b 443; (Winthrop), XXIV, b 905
——, Bohemian (Slavs), XXII, *a* b 162
——, Chinese, V, b 579
——, English (Austen), III, b 88-9; (Bronte), IV, a 329-30; (Dickens), VII, a 151-4; (Edgeworth), a 567-8; (English Literature), VIII, b 375-6, b 383-4; (Fielding), IX, a 127-9; (Gaskell), X, b 94-5; (Gore), a 697; (Hook, T.), XII, b 152; (Inchbald), a 761; (James, G P. R.), XIII, a 571; (Kingsley), XIV, a 90-1; (Lytton), XV, b 122-5; (Opie, A.), XVII, a b 809; (Peacock, T. L.), XVIII, b 455-6; (Radcliffe), XX, a 218; (Reade), b 315-6; (Richardson), b 558-9; (Scott), XXI, a 574-6; (Shelley), a 826; (Smith), XXII, b 183; (Smollett), a 194-5; (Thackeray), XXIII, b 232-5; (Trollope), b 622-3; (Warren), XXIV, a 394; (Wood), b 678
——, French (Balzac), III, b 262-3; (Dudevant), VII, a 439-41; (Dumas), b 450-1; (Gautier), X, a 106; (Girardin), b 554; (Gozlan), XI, a b 22; (Kock), XIV, b 135-6; (Le Sage), b 473-4; (Merimée), XVI, a 43; (Pigault-Lebrun), XIX, a 93; (Riccoboni), XX, a 553; (Sandeau), XXI, a 270; (Scudery), b 581-2; (Souvestre), XXII, b 305; (Sue), b 651
——, Greek, XI, a 129; (Romance), XX, a b 650
——, Irish (Carleton), V, a 95; (Griffin), XI, b 171; (Lever), XIV, b 485-6; (Lover), XV, b 31
Novels, Justinian's. See *Novellæ Constitutiones*
——, Polish, XIX, a 571, *b* 573
——, Portuguese, XIX, a 571, *b* 573
——, Provençal, XIX, a b 901
——, Russian (Bulgaria), IV, a 463; (Gogol), X, b 657; (Russia), XXI, b 115-6; (Tourguenieff), XXIII, a b 519
——, Scottish (Galt), X, b 43-4
——, Spanish (Cervantes), V, b 307-8; (Faber, C.), VIII, a b 730; (Spain), XXII, b 371-2, b 374, a 376; (Vega Carpio), XXIV, a 134
——, Swedish (Bremer), IV, *b* 229, a 230; (Sweden), XXII, a b 794, b 795, a b 796
Novelty (Patents), XVIII, b 359, a b 360, b 874
——, Bain's law of (Psychology), XX, b 73, note
NOVEMBER, month, XVII, a 621; (Calendar), IV, b 590, a *b* 591, b 597; calendar for British Horticulture, XII, a b 306; for American Horticulture, a b 308
—— Meteors, XVI, a 115-6
NOVERRE, Jean Georges, ballet-master, XVII, a b 621; (Pantomime), XVIII, a 220
Novesium, town. See NEUSS
NOVGOROD, government, XVII, b 621-2; (Russia), XXI, a 76, b 82, b 85, a 87, a 98; (Ural Mountains), XXIV, a 10
NOVGOROD, city, XVII, a 622-3; (Hanseatic League), XI, *a* b 402; (Perm), XVIII, a 562; (Russia), XXI, a 96, *b* 97, *a b* 98, *a* b 99, a 101, b 102, *a* 103, b 111; republic (St. Petersburg), *a* b 294
Novgorod-Syeversk, town (Tchernigoff), XXIII, a 103
Novi, battle of, 1799 (Austria), III, b 114
NOVIBAZAR, town, XVII, b 623
Novice (Buddhism), IV, *a* 389, b 390
Novikoff, Nicholas Ivanovitch, author (Russia), XXI, b 114
NOVI LIGURE, city, XVII, a b 623
Noviomagus Veromanduorum, town. See NOYON
NOVO-BAYAZET, town, XVII, b 623; (Transcaucasia), XXIII, b 547
NOVOGEORGIEVSK or Modlin, fortress, XVII, b 623; (Plock), XIX, a 239; (Warsaw), XXIV, b 397
NOVOGEORGIEVSK, town, XVII, b 623; (Poland), XIX, b 323
NOVOMOSKOVSK, town, XVII, b 623
Novo-Petrovsk, town (Caspian Sea), V, b 154, b 155
Novorossia, district (Odessa), XVII, a b 746
Novorossiysk, town (Tchernomorsk), XXIII, b 103
NOVOTCHERKASSK, city, XVII, a 624; (Don Cossacks), VII, a 309

- Novoye Myesto, town (Novogeorgievsk), XVII, b 623
- Novozybkoff, town (Tchernigoff), XXIII, a 103
- *Novum Organum* of Bacon, III, a *b* 182, a b 183, a 184, *b* 186, b 187; (Aphorism), II, a 151; (Logic), XIV, a b 800
- Nowairí, encyclopædist (Tabarí), XXIII, a 9
- Nowanuggur, state. See NAWÁNAGAR
- Nowell, Robert, benefactor (Spenser), XXII, b 407, note
- NOWGONG, district, XVII, a b 624
- Noxæ deditio, custom (Roman Law), XX, a 706
- NOY, William, attorney-general, XVII, b 624
- Noya, duke de, physicist (Electricity), VIII, b 8
- Noyades of Nantes (Carrier), V, b 122
- Noyes, John Humphrey, communist, *b.* 1811, *d.* 1886 (Communism), VI, a 189, a 195; (Oneida Community), XVII, b 794, *a* b 795
- NOYON, city, XVII, b 624-5
- Nozeman, Cornelius, naturalist (Ornithology), XVIII, a 13
- Nuaibeb mountains (Namaqualand), XVII, a 175
- Nuanetsi river (Transvaal), XXIII, a 550
- Núba language (Nubia), XVII, a b 627
- —— race (Africa), I, b 233; (Negro), XVII, b 327; (Soudan), XXII, a 292
- Nubeculæ (Astronomy), II, a 719
- Nubecularina, group (Protozoa) (Ill.), XIX, a b 869
- Nub-Gang-la, pass (Tibet), XXIII, b 363
- NUBIA, country (Plate XV), XVII, a 625-7
  - bibliography, b 627
  - boundaries, a b 625
  - climate and disease, a 626
  - geographical features, b 625-6
  - geology, a 626
  - history, b 626-7
  - language, a b 627
  - population, b 626-7
- —— (Africa), I, b 229, b 238, a b 239
- Nubian desert (Sahara), XXI, a 157, b 158
- —— Goat (Ill.), X, b 632, b 633
- Nubians, people (Africa), I, b 233; (Soudan), XXII, b 291 note. See Núba race
- Nuble, province (Chili), V, a b 535, b 536, a 540
- Nuchal plate in Sepia (Mollusca), XVI, a 701
- Nucifraga, genus (Crow), VI, a 546
- Nuck, Antony, anatomist (Anatomy), I, b 711
- Nucleated cell (Anatomy), I, a b 740, *a* 741
- Nucleo-idioplasma (Reproduction), XX, b 440-1
- Nucleolus (Anatomy), I, a b 740
- Nucleus, cell (Histology), XII, *a* 6, b 10, b 12-3, b 15; (Hydrozoa), a 588; (Protozoa) (Ill.), XIX, b 854-5
- ——, earth's (Geology), X, a 199-202
- —— hives (Bee), III, a b 429
- —— and nucleolus (Botany), IV, b 74; of the ovule (Botany) (Ill.), a b 132, *a* 133; of spermogones (Lichens), XIV, a b 558
- —— olivaris accessorius (Anatomy), I, a 765
- Nucule of cryptogams (Botany) (Ill.), IV, b 143-4
- Nuda, class (Amphibia), I, b 657
- ——, class (Mollusca), XVI, b 654, a 655
- ——, class (Protozoa) (Ill.), XIX, b 864, a 883
- Nuddea, district. See NADIYÁ
- Nudifloræ, series (Vegetable Kingdom), XXIV, a b 143
- Nudum jus Quiritium (Roman Law), XX, a b 717, a 733
- Nueces river (Texas), XXIII, b 220
- Nuevo Leon, state (Mexico), XVI, a 223, b 908, a b 912
- *Nugæ Antiquæ* (Harrington), XI, a 429
- Nugent, Christopher, physician (Burke), IV, a 483
- ——, George Grenville, lord (Ionian Islands), XIII, b 212
- NUGENT, Robert, earl, XVII, b 627
- Nuggets (Gold), X, a 660, a 661
- Nûh ibn Mansîr, emir of Bokhara (Avicenna), III, *a* 133
- Nui, island (Polynesia), XIX, a 434
- NUISANCE, law-term, XVII, b 627-8; (Abatement), I, b 12; (Highways), XI, *a* 725; (Tort), XXIII, b 483
- Nuisances (Public Health), XX, b 101, a 102, note, *a* 103
- *Nuit de Décembre* (Musset), XVII, a 119; *Venétienne* (Musset), a b 118
- Nuits, commune (Wine), XXIV, b 638
- NUKHA, town, XVII, a b 628
- Nuksán Pass (Hindú Kúsh), XI, *a b* 748
- Nullification (Calhoun), IV, a b 606; (Hayne), XI, a 485; (Madison), XV, b 184; (Protection), XIX, a 939; (Scott), XXI, a b 577, note; (Taylor, J.), XXIII, a b 927; (Turnbull), b 948; (United States), b 804, a 811, a 813; (Webster), XXIV, a 499
- Num, god (Egypt), VII, b 620
- Numa, lagoons (Japan), XIII, a 582
- NUMA POMPILIUS, king, XVII, b 628-9; (Calendar), IV, a 591; (Club), VI, b 38, a 39; (Vesta), XXIV, b 209
- *Numancia, La,* tragedy (Cervantes), V, b 305
- Nu 'mān ibn al-Mundhir, king of Hērtā (Syriac Literature), XXII, a 880, note
- Nu'mán Pasha, grand vizier (Turkey), XXIII, b 687
- NUMANTIA, town, XVII, b 628; (Celtiberia), V, a 258; fall of (Scipio), XXI, b 489; sieges of, 141, 133 B.C. (Spain), XXII, a 321
- Number (Arithmetic), II, a b 460; (Locke), XIV, a 766; (Mathematics), XV, *a* 636; (Pythagoras), XX, b 144-5; (Xenocrates), XXIV, b 754. See NUMBERS and NUMERALS
- ——, grammatical (China), V, a 571; (Greece), XI, a b 114
- ——, organ of (Phrenology), XVIII, a 860
- Numbering (Libraries), XIV, a 538
- —— machines (Stationery), XXII, b 478
- Number Nip, goblin (Reisengebirge), XX, a 567
- *Numbers, Book of* (Palestine), XVIII, a 180, a 182. See PENTATEUCH
- Numbers, complex (Variable), XXIV, b 76
- ——, compound, computation of (Arithmetic), II, b 468; concrete, a 468-71
- ——, index (Statistics), XXII, a b 483
- NUMBERS, Partition of, XVII, a b 629; theory of, b 629-39
  - bibliography, b 639
  - comparison of ordinary and complex theories, b 629-30
  - complex theories, b 636
  - congruences, b 638-9
  - ordinary theory, first part, b 630-4
  - ordinary theory, third part, a b 639
  - theory of forms, ordinary theory, second part, b 634-6
- ——, properties of (Algebra), I, a b 460; (Arithmetic), II, a 464; science of (Hume), XII, a b 367; (Mathematics), XV, a b 636; theory of (Galois), X, a 44; (Gauss), a 105; (Jacobi), XIII, b 548; (Legendre), XIV, a b 414; (Pythagoras), XX, b 144-5; (Smith, H. J. S.), XXII, b 182-3; (Tables), XXIII, a 20
- Numbi, river (Loango), XIV, b 748
- Numenius, genus (Curlew), VI, a b 628
- NUMENIUS, philosopher, XVII, b 639
- NUMERALS, XVII, b 639-42
  - abacus, a b 641, a 642
  - alphabetical systems, b 640-1
  - ancient oriental systems, a 640
  - authorities, a 642
  - decimal system, b 641-2
  - finger enumeration, b 639-40
  - Indo-Arabic system, b 641-2
  - periodicity systems, a 641
- —— (China), V, a b 572; Aztec (Mexico), XVI, b 220; development of (Anthropology), II, a 108; in Greek and Latin MSS. (Palæography), XVIII, b 169; palæotype symbols of (Speech-Sounds), XXII, a 401; Papuan (Melanesia), XV, a 844; Roman (Alphabet), I, a b 537; (Inscriptions), XIII, b 131-2
- Numeration (Arithmetic), II, a 463, note; modes of (Melanesia), XV, a 844; (New Caledonia), XVII, a 386; (New Guinea), b 398. See NUMERALS
- NUMERIANUS, M. Aurelius, emperor, XVII, b 642
- Numerical harmonic analysis (Tides), XXIII, a 390-1, b 396
- —— Hermeneutics, XI, a 665
- —— thermometry (Heat), XI, b 504 *sq.*
- Numida, genus (Guinea Fowl), XI, *b* 234
- NUMIDIA, country, XVII, b 642-3; (Juba I.), XIII, a 769; (Jugurtha), a 776-7; (Masinissa), XV, a b 615; (Numismatics), XVII, b 669; (Rome), XX, b 768, b 769, a 777. See MAURETANIA
- Numidian marble (Rome), XX, a 826
- Numidians, people (Hamilcar), XI, *b* 366-7
- NUMISMATICS, XVII, a 643-80
  - America, a b 677
  - arrangement of coins, b 645-6
  - art, modern, a b 673
  - art value of, a b 644-5
  - Belgium, Holland and Switzerland, b 674-5
  - bibliography, b 680
  - Byzantine and allied coins, a b 672
  - definitions, a 643, a b 645
  - France, b 673-4
  - Germany, a b 676
  - Great Britain, a b 674
  - GREEK COINS, a b 646-69
    - Achaia, a b 659
    - Ægina, a 659
    - Arcadia, a b 660
    - art of coins, a b 649
    - Asia Minor, b 661-5
    - Assyria and Arabia, a 668
    - Attica, b 658-9
    - Black Sea Coast, states, a 662
    - Bœotia, b 658
    - Britain, a b 652
    - Caria, b 664-5
    - Carthage, a b 669
    - classification, b 647-8
    - Corcyra, a 658
    - Corinth, b 659
    - Crete, b 650, b 660-1
    - Cyprus, b 665
    - Cyrene, a 669
    - Egypt, a 668-9
    - Elis, b 659-60
    - Ephesus, b 663-4
    - Epirus, a 658
    - Eubœa, Cyclades and Sporades, a b 661
    - Gaul, b 651-2
    - general character, b 646
    - Græco-Roman coins, a b 648
    - Illyria, a 658
    - interior states of Asia Minor, b 665-6
    - inscriptions, b 648-9
    - Ionia, a 650, b 663-4
    - Italy, b 652-4
    - Lycia, a 665

NUMISMATICS, *continued*
  GREEK COINS
    Macedonia, b 656–7
    Messene, b 660
    mode of coining, b 650–1
    monetary system, b 646–7
    municipal Græco-Italian coins, a 653–4, a b 665
    Mysia, b 662–3
    North Africa, a b 669
    Northern Greece, a b 658
    Palestine, b 667–8
    Pamphylia and Pisidia, a b 665
    Peloponnesus, a 659–60
    Phœnician, a b 667
    Rhodes, b 664–5
    schools of, b 649–50
    Sicily, a 654–6, b 675–6
    Siculo-Punic coins, a 656
    Spain, a b 651
    Syracuse, b 654–5
    Syria, a 666–7
    Tauric Chersonese, a 656
    Thessaly, b 657–8
    Thrace, a b 656
    types, a 647–8
  Iberian peninsula, b 673
  illustrative value of, a 643–4
  Italy, a 675–6
  mediæval Europe, a 646, b 672–3
  Netherlands, b 674
  ORIENTAL COINS, a 646, b 677–80
    Arabian, a 678–9
    China and Japan, a 680
    India, a 679–80
    Persian, b 677, a 679
  Renaissance, a 673
  ROMAN COINS, a 646, b 669–72
    art of coins, b 671–2
    gold and silver, a 670
    imperial, b 670–1
    inscriptions, b 671
    monetary system, b 669
    oldest money, b 669
    provincial, a b 671
    types, a b 670, b 671
  Russian and Crusaders, a 677
  Scandinavia, b 676
  Switzerland, a 675

—— (Akerman, J. Y.), I, b 386–7; (Archæology), II, b 390; (Eckhel), VII, b 557; (Hardouin), XI, b 424; (Lyons), XV, a 113; (Miletus), XVI, a 307, note; (Persia), XVIII, b 606, b 609 note, b 610, b 611 notes, b 612, a 613, a 615 note, b 616, b 617. See Coinage
Nummedal Laagen, river (Norway), XVII, b 589
Nummi scyphati (Numismatics), XVII, a 672, b 673
Nummulinida, group (Foraminifera) (Ill.), IX, a 334–8, b 339
Nummulinidea, order (Protozoa), XIX, b 871
Nummulites (Foraminifera) (Ill.), IX, a 334–8, b 340
Nummulitic limestone (Geology), X, a *b* 321
Nun, bird (Titmouse), XXIII b 446
—— river (Africa), I, b 227; (Niger), XVII, a 511
Nunatak, peak (Greenland), XI, a 149
Nun-buoys (Buoys), IV, b 474
Nuncio, papal (Ambassador), I, b 577; (Legate), XIV, a b 413
Nuncupatio, process (Roman Law), XX, b 717, b 720; in jus civile (Roman Law), a 709
NUNEATON, town, XVII, a b 680; (Warwick), XXIV, *b* 400
Nuñez, Rio (Senegambia), XXI, b 693, *a b* 694, a b 695
NUÑEZ, Pedro, cosmographer, XVII, a 681; (Navigation), a 259, b 267 note; (Portugal), XIX, b 572; (Vernier), XXIV, b 183
NUÑEZ CABEZA DE VACA, Alvaro, explorer, XVII, a 681; (Pueblo Indians), XX, a 887
Nungate, village (Haddington), XI, *a* b 324
Nunhead, village (London), XIV, a 836
Nuniyás, caste (India), XII, a 804
Nuns (Abbess), I, b 16; (Abbot), a 29; (Franciscans), IX, a b 616; (Monachism), XVI, a b 732; (Port Royal), XIX, a b 548; of Blassoni (Humiliati), XII, b 370
Nun's Isle (Montreal), XVI, a 820
Nuoljaure, lake (Lapland), XIV, a 305
Nuovo, monte (Geology), X, a 217, b 218, b 224; (Italy), XIII, b 452
Nupe or Nufe race (Soudan), XXII, a b 292
Nuphar, cell-surfaces (Histology), XII, a 16
——, genus (Water Lily), XXIV, b 423, a 424
Nura or Nuratyn-tau, mountains (Syr-Daria), XXII, a b 859
Nureff, river (Slavs), XXII, b 154
NUREMBERG, city (Plan), XVII, a 681–2; (Dürer), VII, b 478, a 479; (Libraries), XIV, b 548; (Numismatics), XVII, b 676; (Observatory), a 729; (Pencil), XVIII, b 500, a 501; (Saffron), XXI, a 154; (Universities), XXIII, a 901; diets of (Luther), XV, *b* 78; early printing at (Typography), XXIII, a 729; peace of, 1532 (Germany), X, b 447; (Luther), XV, a 84, a 85; schools (Sculpture), XXI, a 591, *a* b 592
—— process (Ultramarine), XXIII, a 769
Nurhags, monuments (Architecture) (Ill), II, a b 336; (Sardinia), XXI, b 324
Núr Mahál, empress (India), XII, a 834
Nurmanshahr, district (Kirmân), XIV, b 101, *a* 102
Nurmuds, rugs (Carpets), V, b 113
Nurnberg, city. See NUREMBERG
Nurse Hound, fish (Dog-Fish), VII, a 288
Nurse plants (Arboriculture), II, b 283
Nursery culture (Arboriculture), II, a 281–2; (Pine), XIX, a b 112
—— Tales, XXIII, b 32, b 33
"Nurses" or blastozooids (Tunicata), XXIII, b 654
Nursia, town (Sabines), XXI, a 138
Nursing (Hospitals), XII, a 319; (Typhus), XXIII, a 720
—— horses (Veterinary Science), XXIV, a b 217
Nusairieh, sect. See Nosairians
Nusa Keli, mountain (Ceram), V, b 299
Nusfjord (Geology), X, a 249
Nushtur, knife (Opium), XVII, a b 812
Nusi Allegretto, painter (Schools of Painting), XXI, a 453, b 462
Nusrati, poet (Hindustani Literature), XI, a 757
Nusseer Khan, ruler (Baluchistan), III, b 259, a 262
NUT, fruit, XVII, a 683–4; (Botany) (Ill.), IV, *a* 135, b 137; (Hornbeam), XII, a 172; (Horse-Chestnut), *a b* 210
——, goddess (Egypt), VII, b 619, *a* b 620–1
Nutation (Gyroscope), XI, a 315; solar (Astronomy), II, b 661, a 690; (Geology), X, *a* b 201; (Tides), XXIII, b 384–5
—— of plants (Physiology), XIX, *b* 65
NUTCRACKER, bird, XVII, b 684; (Crow), VI, a 546
NUTHATCH, bird, XVII, b 684–5
Nutkas or Nootkas, tribes (Indians), XII, *a* 866
NUTMEG, spice (Ill.), XVII, a 685–6; (Banda Island), III, *b* 267; (Botany) (Plate XII), IV, b 137, a 140, a 141; plantations (Singapore), XXII, a b 100
Nut oil (Oils), XVII, a *b* 761, *a b* 765, *b* 766, b 767
Nut-Pine, XIX, a 114
Nutria or Coypu, mammal (Fur), IX, b 735, b 736
NUTRITION (Ill.), XVII, a 686–706
  absorption of nutriment, a b 697
  alimentary canal (Ill.), a 687–9
  bile, a b 693, b 694–5
  chemical processes in tissues and organs, b 697–702
  diabetes, b 700–1
  digestion, function of, b 686–97
  digestive results in food, b 695–7
  energy transformation of, b 704–5
  enzymes or ferments, b 690–1
  excretory processes, a 702–4
  gastric juice, b 692–3, a b 694
  general considerations, a b 686
  glandular metabolism, b 698–9
NUTRITION, *continued*
  growth, decay, and death, b 705–6
  hunger and thirst, b 686
  intestinal secretion, b 693–4, b 695
  kidneys, a 702–4
  metabolism in adipose tissue, a b 699
    of blood, b 701–2
    in glands, b 698
    in hepatic tissue, b 699–701
    in muscles, a b 698
  movements of alimentary canal, a 689–90
  pancreatic juice, b 693, a b 695
  physical and chemical properties of secretions, a 694–7
  salivary secretion, a 691–2, a 694
  secretions of alimentary canal, a 690–7
  structure of organs (Ill.), a 687–9
  sweat, a b 704
  urea and its chemistry, b 702–3
  urine, a 703–4

—— (Bee), III, a 419; (Dietetics), VII, a 174–85; (Gelatin), X, a b 118; (Hydrocephalus), XII, b 447; (Ichthyology), b 691–3; (Lichens), XIV, a b 561; (Oat), XVII, a 716; (Physiology), XIX, a 41; (Protozoa), b 857–8, b 889; (Schizomycetes), XXI, b 423–4; (Scurvy), a b 599; (Sex), b 759; disorders of (Skin Diseases), XXII, a 129–30; of heart (Vascular System), XXIV, a 111; of nerves (Physiology), XIX, b 30; vegetable (Biology), III, b 597–8
Nutritive organs (Botany), IV, b 81, a 83–107
Nutt, pirate (Eliot), VIII, a 129
NUTTALL, Thomas, botanist, XVII, a 706; (Ornithology), XVIII, b 20; (Shepard), XXII, a 903
Nuwara Eliya, plain (Ceylon), V, b 312, b 313, a b 314, a 315, a 320
NUX VOMICA, drug (Ill.), XVII, b 706–7
Nuy-ko, privy council (China), V, b 580
Nuyt's Land (South Australia), XXII, a 300; (Western Australia), XXIV, *a* 537
Nwahlabo mountains (Tavoy), XXIII, a 91
Nyagur, state. See NAYÁGARH
Nyanya, sorcerer (Magic), XV, *b* 201
Nyanza, lake, XIV, b 217. See ALBERT NYANZA and Victoria Nyanza
Nyassa, lake (Africa), I, b 221, a b 222, b 224, b 225, a 229; (Ichthyology), XII, a 711; (Lake), XIV, b 217; (Livingstone), *b* 727; (Zaire), XXIV, b 801; (Zambesi), a *b* 804
—— slave-trade (Slavery), XXII, *b* 152
Nyâya (Brahmanism), IV, *b* 188; philosophy (Sanskrit), XXI, a b 305

Nyberg, Julia, poet (Sweden), XXII, a 795
Nyblæus, Axel, philosopher (Sweden), XXII, a 796
NYBORG, town, XVII, a 707
Nyctala, genus (Owl), XVIII, a 93
Nyctalops (Arachnida), II, b 253
Nyctea, genus (Owl), XVIII, a 93, note, a 94
Nycterentes (Mammalia), XV, a 445
Nycteribiidæ, group of insects (Diptera), VII, b 222, a 223
Nycteridæ, family of bats (Mammalia), XV, b 410, b 414
Nycteris, genus (Mammalia), XV, b 411, b 416
Nyctibius, genus (Birds), III, b 616; (Goatsucker), X, a 635
Nycticebus, genus (Lemur), XIV, b 443-4; (Mammalia), XV, b 415
Nycticorax, genus (Heron), XI, a 681
Nyctidromus, genus (Goatsucker), X, b 634
Nyctipithecinæ, group (Ape) (Ill.), II, a 135–6, a *b* 137, a 139, *a* 140, a 141, a 142, a 143, b 146
Nyctisaura, sub-order (Lizard), XIV, b 740
Nyctinomus, genus (Mammalia) (Ill.), XV, b 418
Nyctophilus, genus (Mammalia), XV, a 415
Nyctotherus, genus (Animal Kingdom), II, a 46; (Protozoa) (Ill.), XIX, b 886, a 888
Nye, Philip, divine (Independents), XII, b 764, a 765, a 766; (Presbyterianism), XIX, a 707, a 708
Nyegush, town (Montenegro), XVI, a 807
——, Peter Petrovitch, prince (Montenegro), XVI, b 807
Nyéki-Veres, poet (Hungary), XII, b 391
Nyevelt, Ph. J. van Zuylen van, count (Chess), V, a 522, a 524
Nyezhin, town (Niezhin), XVII, b 509; (Tchernigoff), XXIII, *a* 103
Ny Herrnhutstation (Greenland), XI, b 152
Nyima, Chkoikyi, lama (Tibet), XXIII, a 366
NYIREGYHAZA, town, XVII, a 707
NYKOPING, city, XVII, a 707
Nyl river (Transvaal), XXIII, *a* 550
Nyland, province (Finland), IX, a 189; (Russia), XXI, a 76
Nylander, botanist (Lichens), XIV, *b* 555, a 557, b 558, *b* 559, *b* 560, *a* b 561, a b 562, a 564-5, a 566
NYLGHAU or Nilgai, antelope, XVII, a b 707; (Antelope) (Ill.), II, b 90; (India), XII, b 780
Nymegen, town. See NIMEGUEN
NYMPH, myth, XVII, b 707-8; (Muses), b 81
Nymphæa, genus (Botany) (Ill.), IV, a 103, a 114, a 122, a 123, b 126, b 140; (Water Lily), XXIV, b 423, a 424
Nymphæaceæ, order (Botany), IV, a 114, b 140
Nymphæum, valley (Symrna), XXII, a 196
Nymphalidæ, family (Butterflies) (Plate XXVIII), IV, a b 527, b 529-30
Nymphon, genus (Arachnida), II, a 243
Nymphs' Hill (Athens), III, b 3
Nyoun-goo, town (Burmah), IV, a 495
Nyrén, astronomer (Parallax), XVIII, a b 256
Nyrup, Rasmus, philologist (Denmark), VII, a 79, b 80, b 82

O, letter, XVII, a 708
Oahu, island (Hawaiian Islands), XI, a 472, b 473, b 474, b 475
OAJACA, town, XVII, b 708
OAK, tree (Ill.), XVII, b 709-13
  ancient esteem for the, 709-10
  cultivation, b 710-1
  European timber trees, b 711-2, b 713
  evergreen oaks, a b 713
  industrial uses of the wood, a b 710
  North American varieties, a 712-3
  products of, and their uses, a b 711, b 713
  structure, distribution and habit, b 708-9
—— (America), I, b 601; (Arboriculture), II, *a b* 276, b 277, a b 281; (Botany) (Ill.), IV, b 76, a 77, a 86, a 89, *a b* 90, a b 91, b 98, a 106, a 108, *b* 134; (Copyhold), VI, a 316; (Cork), b 356-7; (Gloucester), X, b 614; (Greece), XI, b 79; (Michaux), XVI, b 237; (Parasitism), XVIII, b 270, note; (Troad), XXIII, b 615, a 617; forests (Russia), XXI, *a b* 84; (United States), XXIII, a 859, a 862; leaves for Silk-Worm, XXII, *b* 66; timber (Arboriculture), II, b 276, b 277
——, joiner's (Building), IV, *a b*, 435
—— apple (Galls), X, *b* 40, a 41, b 42
—— bark (Leather), XIV, b 381
Oakboy insurrection (Ireland), XIII, b 275
Oakes's *Reciprocals* (Tables), XXIII, b 12
Oak galls (Galls), X, *a b* 40, a 41, b 42
Oakham castle (Rutland), XXI, *a* 123
OAKLAND, city, XVII, b 713-4; (California), IV, b 625
Oak Manna, XV, b 500, a 501
—— of Bashan, XVII, b 713
Oaks' races (Epsom), VIII, b 440; (Horse), XII, *b* 188, *a b* 189, *b* 205, *b* 206, *a* 207
Oak spangles (Hymenoptera), XII, a 609
OAKUM, fibre, XVII, a 714
OAMARU, town, XVII, a 714
OAR-FISH (Ill.), XVII, a b 714
Oars (Shipbuilding), XXI, a b 863; ancient (Ship), b 843
OASES, XVII, b 714-5; (Africa), I, *a* 224, a 227; (Egypt), VII, a 680; (Gadames), X, *a* 6; (Sahara), XXI, *a b* 159; (Turkestan), XXIII, b 679-80
OAT, cereal (Ill.), XVII, a 715-6; (Agriculture), I, b 319-20, b 322, b 335, a 339; (Botany) (Ill.), IV, a 109, *a* 121, a b 137, a 143; (Corn-Trade), VI, a *b* 318; (Cumberland), a 617; (Horse), XII, a b 197; (Physiology), XIX, a b 56; cakes (Baking), III, b 216; crop (France), IX, *b* 458; (Ireland), XIII, a 227, a 228, a 229, b 230; (United States), XXIII, b 877, a b 878
OATES, Titus, impostor, XVII, a 716–7; (Charles II., of England), V, b 354
OATH, XVII, b 717-21
  administration of, b 719-20
  barbarous and Pagan development of, a b 718-9
  Christian influence on, a b 719
  criminal law, a b 721
  forms of, b 718-9
  modern forms, a 721-2
  profanity, a b 720
  savage forms, a b 718
  terms and definition, b 718
  utility of, b 721
—— (Affidavit), I, a 203; (Allegiance), b 511; (Amphictyons), a 678; (Conclave), VI, b 213; (Coronation), a 381; (Court-Martial), b 460; (Ordeal), XVII, a 843; (Styx), XXII, a 647; (Wager), XXIV, a 326; (Witness), a 658, note; against the pretender (Clan), V, b 699 note; Athenian judicial (Areopagus), II, b 425; Aztec (Mexico), XVI, b 218; Arabian (Mohammedanism), a 570, a 574; etcetera (Baxter), III, b 393; (Fuller, T.), IX, b 714; (Presbyterianism), XIX, b 706; Hindu (Caste), V, a 166; knightly, XIV, a 120-1; (Peacock), XVIII, a 454 note; Parliamentary, b 317; plebeian (Tribune), XXIII, a 592
Oatmeal (Dietetics), VII, b 176 note, a 179
Oaxaca, state (Mexico), XVI, a 223, b 908, b 909, a b 911
Ob or Obi, bay of (Tobolsk), XXIII, a 457; river (Ostiaks), XVIII, a 65; (Siberia), XXII, *a b* 9, a 10, *b* 14, a 18; (Tobolsk), XXIII, b 457; (Tomsk), *b* 466, a 467; (Tyumen), b 761; (Yeniseisk), XXIV, a *b* 779; as outlet of Caspian Sea, V, a 157, a 158
OBADIAH, prophet, XVII, b 721-2; (Carmelites), V, a 103
"Obah," village (Merv), XVI, b 47
Obaid. See Obeid or Obeyd
—— Alláh, governor (Hasan and Husein), XI, b 454; (Mohammedanism), XVI, b 590, a b 591, a b 592, b 594
—— Alláh, Mahdi (Egypt), VII, *b* 650; (Mohammedanism), XVI, b 609
OBAN, town, XVII, b 722-3; (Argyllshire), II, a *b* 439, b 440, a 441
Obay, editor of Koran (Mohammedanism), XVI, a b 627
Obbenites, sect (Mennonites), XVI, b 16
Obdorsk, mountains (Ural Mountains), XXIV, a 8; town (Siberia), XXII, a 14, b 16
Obedience (Abbot), I, a 29; of (Buddhism), IV, a 390; (Jesuits), XIII, b 656, b 657
Obedientiæ, cells (Abbey), I, b 27
Obeidh, town. See El-Obeid
Obeidullah, Sheikh (Kúrdistán), XIV, b 160–1
Obelerio, Antenore, doge (Venice), XXIV, b 153
OBELISK, XVII, a 723; of Augustus (Bandini), III, b 268; Bezig (Mythology), XVII, a 158; Theodosian (Organ), b 860
Obelisks (Architecture), II, a 337, *a* b 342; (Copan), VI, b 304; (Lhasa), XIV, b 498, b 501; Egyptian, VII, a 637, a 639, b 667, b 671, a 674, a 675; (Alexandria), I, b 437; (Dialling), VII, a 132; (Pyramid), XX, a 128, b 130; (Rome), b 826; sculptured (America), I, a 609
Obelisk tombs (Architecture), I, a 352
Ober, Frederick Albion, traveller (Yucatan), XXIV *a* 796, a b 797, b 798
Oberalp, pass (Alps), I, a *b* 550
OBERAMMERGAU, village, XVII, a b 723; passion-play (Drama), VII, b 358 note
Oberbergamtsbezirke (Prussia), XX, a 19
Ober-Beuthen, town, III, b 536
Oberer- or Grauer-bund (Grisons), XI, *b* 182; (Switzerland), XXII, *b* 827
Oberhalbstein valley (Grisons), XI, *a* 182
OBERHAUSEN, town, XVII, b 723
Ober Hohenberg, mountain (Würtemberg), XXIV, a 735
Oberherrschaft, barony (Schwarzburg - Rudolstadt), XXI, *b* 482
Oberhessen, province (Hesse-Darmstadt), XI, b 696, *a* 697
Oberingelheim, town (Ingelheim), XIII, b 80
Oberkirchenrath, council (Germany), X, *a* 422; (Prussia), XX, a 21
Oberland, district (Switzerland), XXII, *b* 815, a 818
——, town (Heligoland), XI, a b 563

Oberlandes-Gericht, court (Saxony), XXI, a 375
OBERLIN, village, XVII, b 723
OBERLIN, Jean Frédéric, philanthropist, XVII, b 723-4; (Kindergarten), XIV, b 81
OBERLIN, Jérémie Jacques, archæologist, XVII, a 724
Obermann, letters (Sénancour), XXI, *a b* 690
Obermeier, A. von, physician (Typhus), XXIII, a 723
Ober-Neunkirchen, town, XVII, a 372
Obernyik, Charles, dramatist (Hungary), XII, a 394
Obernzell, village (Passau), XVIII, a 347
OBERON, myth, XVII, a 724; (Romance), XX, b 664-5, *b* 669
Oberon, opera (Weber), XXIV, b 495, a b 496
——, poem by Wieland, XXIV, b 590; (Germany), X, a 479
Oberpräsident, official (Prussia), XX, a 23
Oberstein, town (Agate), I, *a* 248; (Onyx), XVII, b 798
Obesity, causes of (Pathology), XVIII, b 397-8. See CORPULENCE
Obeyd. See Obaid, Obeid
Obi, river. See Ob
Obizzo, two princes of Este, VIII, *a* 493
Object diving (Swimming), XXII, a 809
Object-glass (Microscope) (Ill.), XVI, a 268, a 272, b 273, a 275, a 278-81; (Magic Lantern), XV, b 212, a b 213; (Optics), XVII, b 827-9, b 831; adjusting (Telescope), XXIII, b 168-9; achromatic (Microscope), XVI, a b 275; (Telescope), XXIII, b 151-5; American (Telescopic Work), *a b* 934; construction of (Telescope), a b 158; photograpic (Telescopic Work), a 933, a 935 note; theory of (Wave Theory), XXIV, b 453-8, a b 459
Objective defined (Psychology), XX, a 43, a *b* 46; truth (Herbart), XI, a 643; Hume on (Scepticism), XXI, a 400, a 401
Objectivity of thought (Psychology), XX, b 87-8
Oblasts, Asiatic provinces (Russia), XXI, a b 76, note, a 78
Oblation, offering (Eucharist), VIII, a b 572; (Sacrifice), XXI, b 146-8
OBLIGATION, law-term, XVII, a b 724; (Law), XIV, a 356, b 361; (Roman Law), XX, b 710-3; in Justinian code (Roman Law), b 732-3
Oblique wave exposure (Harbors and Docks), XI, a 409, b 410
Obliviscence (Psychology), XX, a b 66, a 67, b 69
OBOE or Hautboy, musical instrument (Ill.), XVII, b 724-8
    clarinets, high and basset, a 727-8
OBOE, *continued*
    early varieties, b 726-7
    history of, a 725-7
    principle of construction b 724-5
    saxophone, a b 728

——, stop (Organ), XVII, a *b* 856, a 857
Obolus, coin (Numismatics), XVII, b 673; (Weights and Measures), XXIV, b 514, *a* b 516
Obongo, race (Bushmen), IV, b 513
Obotrites, race (Schwerin), XXI, b 485; (Schleswig-Holstein), b 433
Obradovitch, Dositei, patriot (Lomonósoff), XIV, b 826; (Servia), XXI, b 723, note
O'Brien, family (Clare), V, b 702
——, giant (Hunter), XII, b 403, note
——, Donald, king of Thomond (Ireland), XIII, a 265
——, Murrogh, earl (Clare), V, a b 702
——, Tordelbach, king (Ireland), XIII, *a* 261
O'BRIEN, William Smith, rebel, XVII, b 728; (Dublin), VII, a 434
Obschiy Syrt, mountains (Ufa), XXIII, a 764; (Ural Mountains), XXIV, b 8; (Uralsk), b 10
Observants, friars (Franciscans), IX, a 615-6
Observation mines (Torpedo), XXIII, b 477, a b 478
Observations, astronomical (Bessel), III, b 532; (Probability), XIX, a b 801, note; (Barometric), III, b 333-4; eclipse (Sun), XXII, b 684; hygrometric (Meteorology), XVI, a 124-5; maritime (Navigation), XVII, a b 275; Meteorological, XVI, b 122-3; magnetic dip, a 164; presentative form of (Tides), XXIII, b 389-91; reduction of (Tides), a b 394
Observations on the Conversion and Apostleship of St. Paul (Lyttelton), XV, b 122
—— *on Man* (Hartley), XI, *b* 445
Observator, journal (L'Estrange), XIV, *a* 483
Observatories, American, instruments in (Telescopic Work), XXIII, a b 934, a b 935
——, magnetic (Sabine), XXI, b 136
——, Meteorological, XVI, b 168, a 171-3, a 174-82, a 184, b 187; (India), XII, a 777
——, mountain (Telescopic Work), XXIII, 933 note
OBSERVATORY, XVII, a 728-37
    Africa, b 736-7
    Asia, a b 737
    Australia, b 737
    Austria-Hungary, b 733
    France, a b 732
    Germany, b 732-3
    Great Britain and Ireland, 730-2
    Greece, b 734
    history, b 728-9
OBSERVATORY, *continued*
    Holland and Belgium, a b 735
    index, 737
    instruments of observation, a 729
    Italy, a b 734
    Mexico and South America, b 736
    private British, a 731-2
    publications, a 730
    Russia, b 734
    Scandinavian Europe, a 735
    Spain and Portugal, a 734
    Switzerland, a 734
    United States, b 735-6

—— of Al-Mamun, I, a 519
——, Altona, XVII, b 732; (Hansen), XI, a 404
——, Arcetri, Florence, XVII, a 734; (Donati), VII, a 311
——, Berlin, XVII, b 732; (Micrometer), XVI, b 266
——, Bonn, XVII, b 732; (Micrometer), XVI, b 263
——, Brussels, XVII, b 735; (Belgium), III, a 450
——, Cambridge, England, IV, b 647; XVII, b 730
——, Cape of Good Hope, XVII, b 736; (Micrometer), XVI, b 253, b 256, a b 260, b 264, a 266; (Telescope), XXIII, a b 164; (Transit Circle), a 548 note
——, Carleton, Minnesota, XVII, a 736; (Telescopic Work), XXIII, a 934
——, Cassel (William IV.), XXIV, a 614
——, Christiania, XVII, a 735; (Hansteen), XI, b 404
——, Copenhagen, XVII, a 735; (Brahe), IV, a 181
——, Crawford's Dun Echt, XVII, a 731; (Telescope), XXIII, b 170
——, Dearborn, XVII, b 735; (Chicago), V, a 530, b 532
——, Dorpat, VII, *a* 320; XVII, b 734
——, Dublin (Micrometer), XVI, a 254; XVII, b 730
——, Dudley, XVII, b 735; (Mitchel), XVI, b 551
——, Edinburgh, VII, b 571, a 577: XVII, b 730
——, Göttingen, XVII, a 733; (Gauss), X, *b* 104
——, Greenwich, XI, b 155; XVII, a 730; (Bradley), IV, b 179; (Clocks), VI, a 15, b 16, a 17, b 19, a 26; (Flamsteed), IX, a 253; (Graduation), XI, b 25: (Meteorology), XVI, b 166, b 175, a 180, b 182, b 185, b 191; (Navigation), XVII, b 263-4, b 266; (Telescope) (Ill.), XXIII, a b 161, b 170; (Time), a 421; (Transit Circle), b 547, *a* 548, b 549
——, Hamburg, XI, a 361, b 362; XVII, a 733
——, Harvard (Cambridge), IV, b 647; (Micrometer), XVI, a 266; (Observatory), XVII, b 735; (Telescopic Work), XXIII, b 933, note, *a* 935, notes; (Winlock), XXIV, b 902
—— of Huen (Brahe), IV, a 181
——, Königsberg, XVII, a 733; (Bessel), III, b 532; (Micrometer), XVI, a b 260-1, b 262-3
——, Leipsic, XVII, a 733; (Telescope), XXIII, a 164
——, Lick, XVII, a 736; (San José, XXI, b 278; (Telescope) (Ill.), XXIII, b 155, b 165-6, note; (Telescopic Work), a b 934, *a b* 935
——, Madras, XVII, a 737; (Time), XXIII, b 421
——, Maragha, XV, a 533; (Mongols), XVI, b 768-9; (Time), XXIII, b 419
——, Melbourne, XVII, b 737; (Telescope), XXIII, a 160-1, a 164
——, Nertchinsk, XVII, a 361
——, Northampton, Mass. (Telescopic Work), XXIII, b 934, b 935
——, Nuremberg (Walther), XXIV, a 361
——, Oxford, XVII, a b 730; (Micrometer), XVI, b 257; (Photometry), XVIII, a b 856; (Telescope), XXIII, b 162-3
—— of Palermo, XVII, b 734; (Astronomy), II, b 662-3
——, Paris, XVII, a 732; (Arago), II, b 263, a b 264, b 265; (Leverrier), XIV, b 486, a 487; (Telescope), XXIII, b 161
——, Peking, XVII, a 737; XVIII, b 481
—— Prague, XVII, b 733; (Meteorology), XVI, b 175, 176, 186
——, Princeton, XVII, a 736; (Telescopic Work), XXIII, *a* b 935, note
——, Pulkova, XVII, b 734; (Micrometer), XVI, b 261; (St. Petersburg), XXI, a 203, a 204; (Telescope) (Ill.), XXIII, b 161, *b* 162, a b 165, a 166, b 169; (Transit Circle), a 548 note
——, Radcliffe, XVII, a 730; (Micrometer), XVI, b 263
—— of Sagres (Henry the Navigator), XI, b 599.
——, Samarkand, XVII, a 729; (Ulugh Beg), XXIII, b 769
——, Sydney, XVII, b 737; XXII, a 846
——, Toronto, XXIII, a b 476
——, Vienna, XVII, b 733; (Telescope) (Ill.), XXIII, b 161, a 163, a 164
——, Washington, XVII, a 736; (Micrometer), XVI, b 254, a 258; (Telescope), XXIII, b 161, a 165, a 166 note, b 169; (Time), a 422
——, Yale College, XVII, a 736; (Micrometer), XVI, b 264
Observer, London (Newspapers), XVII, a 430
Observing machines (Mechanics), XV, a 781-2
Obshchiy Syrt. See Obschiy
OBSIDIAN, volcanic glass, XVII, a 737-8; (Geology) (Ill.), X, b 205, a 209; (Mexico), XVI, b 221, b 224
Obsolescence, diseases of (Pathology), XVIII, b 391-2

Obstetrics (Anæsthetics), I, *a* b 693; (Auscultation), III, a 88; Hindu (Surgery), XXII, b 707. See Pregnancy
Obstruction defined (Trade Unions), XXIII, b 531
Obturator nerve (Anatomy), I, a 763
Obutöng, town (Calabar), IV, b 576
Obutu language (Gold Coast), X, a 673
Obwald, district. See UNTERWALDEN
Oca, vegetable (Horticulture), XII, b 297
Ocaña, port (Colombia), VI, a 139
OCCAM or Ockham, William of, schoolman, XVII, a 738-9; (Biel), III, b 576; (Buridan), IV, a 481; (Lollards), XIV, b 819, a 822; (Luther), XV, b 73, b 82-3; (Millennium), XVI, a 330; (Scholasticism), XXI, a 435, a 436, a b 448; (Theism), XXIII, a 260
Occasionalism, theory (Geulincx), X, a 497
Occipital bone (Anatomy) (Ill.), I, b 721, a 722, b 728-9; lobe (Anatomy), b 766, b 767, a 771
Occleve, Thomas, poet (Diplomatics), VII, a 221
Occlusion of gas (Gold), X, a 660
Occom, Samson, preacher (Wheelock), XXIV, *a* 893,
Occupations (Egypt), VII, a 625; of population (United States), XXIII, a b 874, a b 876, a b 879; self-destruction according to (Suicide), XXII, b 664-5; thrift of various (Savings Banks), XXI, a 344
Ocean (Geography), X, b 175, a 189; (Geology), b 250-6; barometrical pressures (Atmosphere), III, a 27; composition of (Geology), X, a 197-8; currents (Meteorology), XVI, b 142; (Rennell), XX, b 412; deflexion of (Geology), X, b 195-6; origin of (Geology), a 237. See Currents; fauna of (Distribution), VII, a 240, a b 244; fossils of (Geology), X, b 283, a b 284-5. See Marine Fossils; meteorology (Maury), XV, b 649; precipitation from (Water), XXIV, a 420; stability of (Tides), XXIII, b 384; temperature (Geography), X, a 189; circulation theory (Atlantic Ocean), III, b 20-4; Wave, XXIV, a 442. See Marine Sea
Oceana (Harrington), XI, a b 440
Oceanic Jade, XIII, a b 550
Oceanica. See POLYNESIA
Oceanidæ, family (Hydrozoa), XII, b 595
Oceanitidæ, family (Petrel), XVIII, a 725
Oceanography, chemical (Sea-water), XXI, a 641 note
Oceanus, god (Mythology), XVII, a b 161
Ocelli, eyes (Coleoptera), VI, b 114, a 116; (Crustacea), a b 563; (Hydrozoa), XII, b 595; (Hymenoptera), b 606, b 608; of medusa (Hydrozoa), a b 584; (Myriapoda), XVII, b 124
Ocello, Mama, of Peru (America), I, *a* 613, a 615
OCELOT, animal (Ill.), XVII, b 739-40; (Mammalia), XV, a 441
—— Sign in Zodiac, XXIV, a 832
Ocha, battle of (Ireland), XIII, b 255
Oche or Saint Elias, mountain (Eubœa), VIII, a 569
Ochetodon, genus (Mouse), XVII, a 12
Ochil Hills (Clackmannan), V, *a* 697; (Perth), XVIII, a b 678, a b 679
Ochiltree, James Stewart, lord (Cape Breton), V, a 37
OCHINO, Bernardino, reformer, XVII, a b 740; (Capuchins), V, b 71; (Socinus), XXII, b 241; (Valais), XXIV, a b 38
Ochran, mineral (Mineralogy), XVI, b 443
Ochre, pigment (Mining), XVI, a 489; (Pigments), XIX, *b* 95, a b 97
Ochrida lake (Macedonia), XV, a 138
Ochro (Fibres, Textile), IX, a 116
Ochroite earth (Lanthanum), XIV, b 291
Ochsenkopf, mountain (Fichtelgebirge), IX, b 121
Ochterlony, valley (Nilgiri Hills), XVII, *a* b 522
——, Sir David, general (Hastings), XI, b 461; (India), XII, a 770, b 844; (Nepāl), XVII, b 353-4
Ochus, river (Merv), XVI, b 47; (Oxus), XVIII, a 108
——. See ARTAXERXES and DARIUS
Ockals or Akals, class (Druses), VII, b 417, b 418, *a* 419
Ockenheim of Hainault, musician (Music), XVII, b 90; (Palestrina), XVIII, a 185
Ockham, William of, schoolman. See Occam
OCKLEY, Simon, orientalist, XVII, b 740-1
Ockloconee, river (Florida), IX, b 296
O'Clery, Michael, friar (Celtic Literature), V, a 267, a b 268
Ocmulgee river (Georgia), X, *a* b 391
Ocoa bay (Hayti), XI, b 485
Ocoee metamorphic rocks (Tennessee), XXIII, b 192
Oconee river (Georgia), X, *a* b 391
O'CONNELL, Daniel, statesman, XVII, a 741-2; (Appeal), II, b 182; (Chartism), V, b 375-6; (Derby), VII, b 96, a 97; (Grey), XI, b 171, a 172; (Ireland), XIII, a 277; (Peel), XVIII, b 464, b 465, a 466, a 467; monument to (Dublin), VII, b 428
O'Connor, Cathal Crovderg, king, Connaught (Ireland), XIII, b 265
——, Charles, philologist (Celtic Literature), V, b 283
O'CONNOR, Feargus Edward, chartist, XVII, b 742; (Chartism), V, *a* 376
—— Ruadri, king (Ireland), XIII, a 261
——, Tordelbach, king (Ireland), XIII, *a* 261
O'Connor's child (Campbell, Thomas), IV, a 668
O'Conor, Charles, lawyer, *b.* 1804, *d.* 1884 (Tammany Society), XXIII, b 920
Ocnerodrilus, genus (Worm) (Ill.), XXIV, *a* b 717
Ocriculum, town (Rome), XX, *b* 761
Octacnemidæ, family of Tunicata, XXIII, a 656
Octadrachms, Phœnician, money (Numismatics), XVII, *a* 667
Octahedron in Geometry, X, a 346
—— crystals (Mineralogy) (Ill.), XVI, b 360, *a* b 363, *a* 364, a 365, a 382
Octant. See Quadrant, Sextant
——, condensing (Lighthouse) (Ill.), XIV, a b 630
Octateuch (Palæography), XVIII, b 151, a 152; (Pentateuch), b 515
Octaves, intervals (Bells), III, b 465; (Pianoforte), XIX, a b 74, a b 75
Octave stop (Organ), XVII, a 855; string (Pianoforte), XIX, a 78
OCTAVIA, wife of Anthony, XVII, b 742-3; (Egypt), VII, a 648
——, wife of Nero, XVII, b 357, a b 358-9
Octavian. See AUGUSTUS CÆSAR and Pope JOHN XII.
—— library, Rome (Libraries), XIV, a 511
Octavians, committee (Scotland), XXI, *a* 531
Octavianus, cardinal (Victor IV.), XXIV, a 231
Octavien or *Florent et Lyon* (Romance), XX, b 669
"Octaving" (Pianoforte), XIX, b 82
Octavius or Octavianus, Caius. See AUGUSTUS
——, Cneius, consul (Rome), XX, a 779
Octavius, dialogue (Minucius Felix), XVI, b 515; (Tertullian), XXIII, a 213, a 215
OCTOBER, month, XVII, a 743; (Calendar), IV, *b* 590, a b 591, b 595; calendar, British (Horticulture), XII, b 305-6; United States (Horticulture), b 307-8
Octobothriidæ parasites (Trematoda), XXIII, a 573
Octocoralla, group (Actinozoa), I, *b* 120, *a* 121; (Corals), VI, a 341
Octodontidæ, family of rodents (Mammalia), XV, a 422, a 425
Octohedron. See Octahedron
Octopoda, sub-order (Mollusca), XVI, b 695-6; (Cuttle-Fish), VI, *b* 649, a b 650, a 651, *a* 653
Octopus, genus (Gelatin), X, b 117; (Mollusca) (Ill.), XVI, a 695, a 696, b 703, b 704, a 705
Octoroon, hybrid (Negro), XVII, a 329, note
Octroi, tax (France), IX, b 462; (Italy), XIII, b 474, a 476
Oculinidæ, family (Corals), VI, a 333, b 334, b 336, a 337
Oculo-motor nerves (Anatomy), I, b 773
O'Curry, Eugene, antiquary (Brehon Law), IV, b 225, b 226, a 227; (Celtic Literature), V, b 283, *a* 284
OCYDROME, bird, XVII, a b 743
Ocypoda, genus (Crustacea), VI, a 563, b 566, b 567, b 568, note, b 578
Odabá (Mohammedanism), XVI, a 588
Odænathus, king of Palmyra. See Odenathus
Odalisks, slaves (Harem), XI, *a* 428
Odal or Edhel tenures (Feudalism), IX, b 105; (Norway), XVII, a 603; (Primogeniture), XIX, a 755
Odawara, town (Japan), XIII, *b* 592
Odax lineatus, scale of (Ichthyology) (Ill.), XII, b 676
Odcombian Banquet (Coryatt), VI, a 393
ODDFELLOWS, society, XVII, b 743-4; (Friendly Societies), IX, *a* 687
Oddsson, Eirik, historian (Iceland), XII, b 660
Ode, the (Poetry), XIX, a 282-4; choral (Stesichorus), XXII, a 571; French (Poetry), XIX, a 284; Greek Church (Hymns), XII, b 614-5
Odeion or Odeum at Athens, III, a 6, a 10; (Archæology), II, b 309, a 314; (Greece), IX, a 91; (Pericles), XVIII, b 540; at Ephesus (Inscriptions), XIII, b 127
Odel, Anders, poet (Sweden), XXII, a 794
Odelsthing, lower house (Norway), XVII, b 597
Odenathus, prince (Commerce), VI, b 178; (Palmyra), XVIII, a b 205, note, a 206; (Persia), a 619; (Rome), XX, b 794, a 795
——, Septimius, senator (Palmyra), XVIII, b 204-5, note
Odenpä, plateau (Livonia), XIV, a 730
ODENSE, city, XVII, b 744; (Denmark), VII, a 73, b 75
Odenwald, district (Forests), IX, *a* 352; (Baden), III, b 193; (Germany), X, b 402
Ode on Babylon (Isaiah), XIII, a 392
—— *on Intimations of Immortality* (Poetry), XIX, a 283; (Wordsworth), XXIV, a 708
ODER, river, XVII, b 744-5; (Austria), III, b 101; (Baltic), b 254; (Germany), X, a 402, b 403, a 404, b 413; (Silesia), XXII, *a* b 58
Oderbruch, channel (Oder), XVII, a 745
Oder-Haff (Germany), X, a 402, a 404
Oderteich, lake (Hanover), XI, a 399

Odes (Collins), VI, b 133–4; (Gleim), X, b 604; (Gray, Thomas), XI, *b* 70; of Horace, XII, a *b* 163, *a b* 164, *a* b 165, *a* b 166, *a* 167, *b* 168–9; (Latin), XIV, a 335; (Keats), XIV, b 25; (Ronsard), XX, a b 864; (Pindar), XIX, a 108–10. See Lyric Poetry and Lyrics
—— *and Addresses* (Hood), XII, b 148
——, *Book of* (China), V, b 573, a 574, a b 575, a 577–8
——, irregular (Poetry), XIX, a 282–3; regular (Poetry), a 283–4
ODESSA, city, plan, XVII, a 745–6; (Moghileff), XVI, b 567; (Observatory), XVII, a 735; (Richelieu, A. E. du P.), XX, b 559; (Universities), XXIII, a 908
——, Jews in (Russia), XXI, *b* 87
Odessus, colony (Varna), XXIV, a 99
Ode to a Nightingale (Keats), XIV, b 24, b 25
—— *to Dejection* (Coleridge, S. T.), VI, b 123, a 124
—— *to the Cuckoo* (Bruce, M.), IV, b 353–4; (Logan), XIV, b 778, a 779
—— *to the West Wind* (Poetry), XIX, a 270
Odet, river (Finistere), IX, *a* 188
Odeum, building. See Odeion
Odic force. See Odylic force
Odiel, river (Huelva), XII, b 347
Odilienberg (Barr), III, b 336
Odillon-Barrot, Camille Hyacinthe, advocate, *b.* 1791, *d.* 1873 (France), IX, b 546, *b* 547
Odin or Woden, god (Æsir), I, *a b* 189, b 190; (Asgard), II, *a* 594; (Edda), VII, a b 564; (Germany), X, a 426; (Mythology), XVII, *b* 162
Odington, Walter, bishop (Music), XVII, a 89
Odinsey, city (Odense), XVII, b 744
Odio et atia, Writ, XXIV, b 730
Odling, William, chemist (Chemistry), V, a 404
Odo, king. See Eudes
—— of Bayeux, bishop and earl (Rochester), XX, b 629; (William II.), XXIV, b 608
—— of Canterbury, archbishop, V, b 28; (Edwy), VII, a 600
—— de Cerinton, monk (Fable), VIII, a 734
—— de St. Amand, grand master (Templars), XXIII, b 176, *a* 177
ODOACER or Odovakar, king of Italy, XVII, b 746–8; (Heruli), XI, b 691; (Italy), XIII, b 477–8; (Patrician), XVIII, b 421; (Ravenna), XX, b 309; (Rome), a b 799, note; (Sicily), XXII, a 28; (Theodoric), XXIII, a b 276
Odobænus, species (Mammalia), XV, a 450; (Walrus), XXIV, a 358
Odofredus, jurist (Bartolus), III, b 348
O'Dogherty, Sir Cahir, insurrectionist (Donegal), VII, b 314
Odolric of St. Martial, abbot (Interdict), XIII, a 194
Odon. See Eudes or Eudon
Odonata, group (Dragon-Fly), VII, b 333; (Insects), XIII, b 158
O'Donnel, Karl, general, XVII, a 748 note
O'Donnell, clan (Donegal), VII, a *b* 314; (Ireland), XIII, b 255, b 265, b 268, a b 271
O'DONNELL, Henry Joseph, count, XVII, a 748
——, Hugh Baldearg (Ireland), XIII, b 274
——, Hugh Roe or the Red, rebel (Ireland), XIII, a b 271
——, Karl, general, XVII, a 748 note
O'DONNELL, Leopold, duke of Tetuan, XVII, a b 748
O'Donoju, Don Juan, viceroy (Mexico), XVI, b 227, note, a 228
O'Donovan, John, antiquary (Celtic Literature), V, *b* 283, *a* 284
Odontala, plateau (Tibet), XXIII, a 363
Odontoblasts (Digestive Organs), VII, a 204, *a* b 205, a 206
Odontoceti, sub-order (Mammalia), XV, b 396, a 399–403; (Whale) (Ill.), XXIV, b 551, a 554–5
Odontography, Owen's (Ichthyology), XII, b 692, note
Odontolcæ, fossils (Ornithology), XVIII, b 40
Odontology. See DENTISTRY
Odontophore, organ (Mollusca) (Ill.), XVI, a 662, b 663, a 665
Odontophorinæ, sub-family (Birds), III, a 651; (Quail), XX, b 153
Odontopteryx, fossil (Birds) (Ill.), III, b 632; (Zoology), XXIV, b 926
Odontornithes, fossils (Birds), III, a 632; (Ornithology), XVIII, b 40; (Zoology), XXIV, b 925
Odontotormæ, fossils (Ornithology), XVIII, b 40
Odophone or gamut of odors (Perfumery), XVIII, b 536, a 537
Odor, butterflies (Mimicry), XVI, a 353, a 354; mephitic (Skunk), XXII, a b 134; of minerals (Mineralogy), XVI, b 394; of plants (Mignonette), XVI, a 302; Milk, a b 316; of rocks (Geology), X, a 205, a 207
ODORIC of Pordenone, friar, traveller, XVII, b 748–9; (China), V, a b 546; (Geography), X, a 160; (Lhasa), XIV, a 502; (Mandeville), XV, *a* b 481, *a* 482; (Mongols), XVI, b 769; (Tibet), XXIII, b 359
Odovakar, king. See ODOACER
O'Dowd, Cornelius, pseudonym (Lever), XIV, a 486
Odrysæ, tribe (Thrace), XXIII, b 339
Odylic or odic force (Magnetism, Animal), XV, *b* 279, b 280
Odynerus, genus (Wasp), XXIV, a 414
ODYSSEUS or Ulysses, hero, XVII, b 749–50; (Achilles), I, b 89; (Mythology), XVII, a 155; (Penelope), XVIII, a b 501
Odyssey, poem (Alcinous), I, a 415; (Apparitions), II, a 177, b 178, a 181; (Broome), IV, a b 335; (Cyclopes), VI, b 657; (Greece), XI, b 122, *a b* 123; (Harpies), *b* 438; (Homer), XII, b 111, a 112, b 113, *a* 114, a *b* 116, *a* 119, a 120, a b 122, *a b* 123, *a* b 124, *a* 125; (Livius Andronicus), XIV, a 729; (Penelope), XVIII, a 501; (Pluto), XIX, a 247; (Poetry), a 278, a b 279, a 280; (Pope), a b 500; (Scylla and Charybdis), XXI, a 601
Œcodoma, genus (Ant) (Ill.), II, *b* 87
ŒCOLAMPADIUS, John, reformer, XVII, a b 750; (Canon), V, b 14; (Luther), XV, b 84; (Presbyterianism), XIX, a 606; (Waldenses), XXIV, a b 345
Œconomicus of Xenophon, XXIV, a b 757; (Political Economy), XIX, b 362
Œconomos, Constantin, theologian (Greece), XI, b 132, a b 136
Œcophara Woodiella, insect (Manchester), XV, b 467
Œcumenical councils (Jesus Christ), XIII, *a* 682. See COUNCILS
—— Methodist Conference, XVI, a 201
Œdema, disease (Dropsy), VII, b 407
Œdemia, bird (Scoter), XXI, b 491–2
OEDENBURG, town, XVII, b 750
Œdicnemidæ, family (Birds), III, b 647
Œdicnemus, genus (Curlew), VI, b 628
Œdipe, tragedy (Voltaire), XXIV, *a* b 306, b 307
Œdipe à Colone, opera (Sacchini), XXI, *a* 139
ŒDIPUS, hero, XVII, b 750–1; (Tales), XXIII, b 33; (Thebes), XXIII, *a* 249
Œdipus Coloneus, play (Sophocles), XXII, *b* 285, b 286, b 287; *Roman d'* (Romance), XX, a 656; *Tyrannus* (Sophocles), XXII, a 285, a *b* 286, *a b* 287
Œdogonium, plant (Biology), III, a 598, b 600; (Botany), IV, a 145, b 147; cell division of (Histology), XII, b 15; cell-rows (Histology), a 16
OEHLENSCHLAGER, Adam Gottlob, poet, XVII, a 751–2; (Baggesen), III, *a* 199; (Denmark), VII, b 80–1; (Drama), b 383
Oeillets, Mademoiselle des, actress (Racine), XX, a 213
Œillette, pass (Chartreuse), V, b 376
OELS, town, XVII, a 752
Oelschläger, traveller. See OLEARIUS
Oenach or fair (Celtic Literature), V, a 277; (Ireland), XIII, a b 264
Œnanthe crocata (Botany) (Plate VII), IV, b 84
ŒNANTHIC ACID and ETHER XVII, a 752; (Wine), XXIV, b 634
Œnanthylic acid (Œnanthic Acid), XVII, a 752
Œnectra, moth (Butterflies), IV, a 531
Oengus, king (Ireland), XIII, b 255
Oeningen miocene beds (Geology), X, *b* 322–3
Œnipontum, town. See INNSBRUCK
Œnochoe, vessel (Pottery and Porcelain) (Ill.), XIX, b 625, b 633, b 635
Œnoe, myth (Pan), XVIII, a 211
ŒNOMAUS, king, XVII, a b 752
Œnone, myth (Paris), XVIII, a 301
Œnopium, myth (Scio), XXI, b 487
Œnothera, plant (Botany), IV, a 123, a 126, a 141; (Horticulture), XII, a 255, a 256, a 259
Œnotria, province (Lucania), XV, b 39; people of (Italy), XIII, a b 453
Oenus, river (Laconia), XIV, a b 194
Oera Linda, book (Frisians), IX, b 693
Oerlamm, people (Hottentots), XII, b 323
Oersted, Hans Christian, scientist (Denmark), VII, b 80; (Electricity), VIII, b 10, b 38, b 62–3; (Evolution), a b 667; (Faraday, M.), IX, *b* 27
Œrstedite (Mineralogy), XVI, b 444
Oertel, Abraham, geographer. See Ortelius
Oertling's balance (Ill.), III, a 228
OESEL, island, XVII, b 752
Oeser, Adam Friedrich, painter (Goethe), X, a b 644, a 649; (Winckelmann), XXIV, a 629
Œsophageal nerve (Anatomy), I, *a* 775
Œsophagus, gullet (Anatomy), I, *a* 793; (Digestive Organs), VII, a 194; (Mammalia) (Ill.), XV, *a* 365; (Nemertines), XVII, a 339; (Nutrition), b 687, a b 688, b 689; (Rotifera), XXI, a 11; (Throat Diseases), XXIII, b 341–2; (Tunicata), a 651, b 654; (Worm), XXIV, a b 715
Œsterley, critic (Gesta Romanorum), X, b 496
Ostlund's furnace (Iron), XIII, b 333
Œstridæ, family (Insects), XIII, a 149
Œta mountains (Greece), XI, *a* 74
Ofanto or Aufidus, river (Horace), XII, b 163; (Italy), XIII, b 449
Ofen, town. See BUDA and BUDAPEST
Ofeni, travelling merchants (Vladimir), XXIV, a 291

Offa, king, Mercia (Edmund), VII, b 580; (Egbert), a 603; (England), VIII, a 255; (Hereford), XI, b 653; (Numismatics), XVII, a 674; (St. Albans), XXI, b 164
Offa's dyke (Denbigh), VII, a 67, a 68
OFFENBACH, town, XVII, b 752
OFFENBACH, Jacques, composer, XVII, b 752-3
Offenses, criminal, classification of (England), VIII, a 227; in regal period (Roman Law), XX, b 692-3, a b 695
Offertorium (Missal), XVI, *a* 533
Office, arms of (Heraldry), XI, a b 614
—— premiums (Insurance), XIII, b 179-80, b 183
Officers, Austrian Army, II, a b 531; British Army, b 503-6, b 515-6; Naval, XVII, b 300-4; Prussian Army, II, b 523-4; Russian Army, b 532, a b 533, b 534
OFFICERS OF STATE, GREAT, XXII, b 475-7
Official Nobility, XVII, a b 539, a b 541, a b 542; privilege (Peerage), XVIII, b 471
Officier de Chasseurs à cheval (Gericault), X, a 399
Officine, L', Dorvault's (Pharmacopœia), XVIII, a 745
Offlets (Canal), IV, b 693
Offsets, propagation by (Horticulture), XII, b 240
Og, king (Bashan), III, b 353; (Israel), XIII, b 411, note
Ogam inscriptions (Celtic Literature), V, a 266, *b* 283; (Ireland), XIII, a 250, b 251, a 252; (Orkney), XVII, a 873; (Pembroke), XVIII, a 493
Ogarieff, poet (Russia), XXI, a 117
Ogbomosho, city (Yoruba), XXIV, a 792
Ogdai, Khan (China), V, a b 562; (Mongols), XVI, a 767, b 768, a 769
OGDEN, Utah, city, XVII, a b 753
——, Josiah, colonel (Newark), XVII, b 380
OGDENSBURG, New York, XVII, b 753
Ogdoad, divine powers (Basilides), III, *b* 363
Ogé, Vincent, insurrectionist (Slavery), XXII, b 148
Ogeechee river (Georgia), X, a 391
Ogee falls (Hydromechanics), XII, b 528, b 529
Ogee moulding (Architecture), II, a 412
Oghotai Khan (Jenghiz), XIII, a 632, b 633
Oghuz, eponym (Seljuks), XXI, a 666; (Turks), XXIII, b 702
Ogier the Dane (Romance), XX, b 666, a 667, *b* 668-9
Oginski, hetman (Slonim), XXII, a 171; family of (Siedlce), b 42
Ogive ribs (Architecture), II, a 412, b 415
Ogle, statistician (Suicide), XXII, b 662, b 663, *a b* 664, *a* 665
OGLETHORPE, James Edward, general, XVII, b 753; (Georgia), X, b 393-4; (Slavery), XXII, b 906, a 907
Oglio, river (Italy), XIII, b 445
Ogma, god (Celtic Literature), V, *b* 260
Ogmorhinus, genus (Mammalia), XV, b 450
Ogo, counts of (Gruyère), XI, b 200
OGOWAY or Ogowe, river, XVII, b 753-4; (Africa), I, a 222, a 225, b 227
Ogre, myth (Mythology), XVII, a b 165
Ogresses (Heraldry), XI, a 611
Ogston of Aberdeen, physician (Surgery), XXII, *a* 718, b 727
Ogulnian law (Claudius Cæcus), V, a 713; (Rome), XX, b 757
Ogun river (Yoruba), XXIV, *a* 792
Ogurs, people. See Uigurs
Ogwr or Ogonore river (Glamorgan), X, b 564
O'Gyalla Observatory, XVII, b 733
OGYGES, king, XVII, a b 754
O'Hara, Kane, dramatist (Drama), VII, a 379
O'Hara Family, Tales of the (Banim), III, b 271
O'Higgins, director (Chili), V, b 537
Ohio Company (Ohio), XVII, b 758, a 759; (United States), XXIII, b 782
—— river (Mississippi), XVI, a b 542; (West Virginia), XXIV, *a b* 546, a 547; valley of, settlements in (United States), XXIII, *a* 872
OHIO, State (Plate XXII), map, XVII, b 754-9
  area, b 754
  climate, a 757
  coal measures and iron ore, a 756
  education, a b 753
  geology, b 754-6
  government, b 757-8, b 758
  history, b 758-9
  physical features, b 754
  population and industries, a b 657
  soil and forests, b 756-7
——
—— (Prison Discipline), XIX, b 783; (Reformatories), XX, b 898, b 900, a b 901, *a* b 903; (Universities), XXIII, a b 913, a b 956; (Wine), XXIV, a 644; (Workingmen), a *b* 918, *a* 919, *a* 920; history of (United States), XXIII, a 795, a *b* 801, b 805, a 808, *b* 813, a 822, a 831; statistics (United States), *a* 853, a b 855, b 857, *b* 864, a 866, *b* 870, a 872, a *b* 878; topography (United States), b 845
Ohm, unit of measure (Telegraph), XXIII, *a* 124
OHM, Georg Simon, physicist, XVII, b 759; (Electricity), VIII, b 12-13, a 14
Ohm's law (Music), XVII, a 112; (Telephones), XXIII, b 930; applied to metallic conductors (Electricity), VIII, b 38-40; to electrolytes, a 44-8
Ohod, Mount (Medina), XV, a 827; battle, 625 A.D. (Mohammedanism), XVI, a b 579, a b 588
Oidium, mildew (Horticulture), XII, b 239; (Sulphur), XXII, a 669; (Vine), XXIV, a b 258; (Wine), a 637, a b 640, a 641, a 642
Oi-gawa, river (Japan), XIII, b 581
Oignon, river (Jura), XIII, a 792
Oigopsidæ, sub-section (Mollusca), XVI, b 695
Oikomonas, genus (Protozoa), XIX, b 880, a 881
Oikopleura, genus (Tunicata) (Ill.), XXIII, b 653, a 654
Oil, XVII, a 765, a b 766; Almond, I, b 523; XVII, b 770; Beech, III, b 434; of Bergamot, b 507; XVII, b 770; of Brazil Nuts, IV, b 216; XVII, a 765, b 767
—— Cameline. See Oil, Sesame
—— Camellia, IV, b 652; (Castor), V, a b 174; XVII, b 760, a b 761, b 764, a 765, a b 766; (Perfumery), XVIII, b 537; Cedar, V, b 248; (Microscope), XVI, b 275; XVII, b 770; Cedrat (Lemon), XIV, b 439; XVII, b 770; of Cinnamon or Cassia, V, b 686; XVII, b 770; for Clocks, VI, b 33-4; Cocoa-nut, b 94; (Ceylon), V, a 321. See Cocoa Butter; Cloves, VI, a 38; XVII, b 770; cotton-seed, a 765, a 766, a 767; (Lubricants), XV, b 36, b 37; (United States), XXIII, b 831; Dippel's, VII, b 222; (Dugong), b 446; (Fulmar), IX, a 717; (Galbanum), X, b 21; (Glycerin), *a* 622; (Gourd), XI, b 5; (Greenland), b 151, *b* 152, *a* 153; Ground Nut, *b* 196; XVII, a 765, a 766, a 767; (Guacharo), XI, a 202; Hemp, a b 579; b 760, a 761, b 765, a 766; (Hops), XII, a 161; (Italy), XIII, b 460, a 464, a 466; (Jasmine), b 605, *a* 606; (Juniper), *b* 784; Krummholtz (Pine), XIX, b 112-3
—— of Lavender, XIV, b 352, *a* b 353; XVII, b 770; of Lemon, XIV, a b 439; XVII, b 770; Linseed, XIV, b 683-4; XVII, b 760, a b 761, a 765, a b 766, a 767; (Mammalia), XV, a 395; (Menhaden), XVI, b 14; (Mustard), XVII, b 119, a 120, a 765; (Nettle Tree), a 370; Nut, *a b* 683, *a* 684; (Oils), a b 761, a b 765, b 766, b 767; (Nutmeg), b 685, b 770; (Olive), a b 784, a 785; (Oils), b 760, a 761, a 762, a 765, a b 766; (Opium), *a* b 811; (Orange), b 770, b 835; (Peppermint), XVIII, b 528, a 529; XVII, b 770; (Pimento), XIX, a 106; XVII, b 770; (Poppy), b 527; (Seal), XXI, b 608, b 609, a 610; Sesame, XVII, a 765, a 766, a 767; XXI, b 725; (Shark), b 812, a 814, b 815; Spermaceti, XVII, b 761; (Whale Oils), XXIV, a b 558; Tea, XVII, a 765, a 768; (Teak), XXIII, b 111, note; (Turpentine), b 711; XVII, a b 760, a b 770; (Walpurgis), XXIV, b 357; (Whale), a b 558. See specific names of oils
—— Beetles or Mêloe (Insects), XIII, b 153, b 155
—— bird (Birds), III, b 619, b 647; (Guacharo), XI, b 201
——, burning (Lamp), XIV, a b 245; (Lighthouse), a b 633; (Paraffin), XVIII, b 246
OIL-CAKE, XVII, b 759-60; (Linseed), XIV, *b* 683; cotton-seed (Oils), XVII, b 759, a 760
OIL CITY, Pennsylvania, XVII, a 760
Oil-cloth (Linoleum), XIV, a 682-3. See FLOOR CLOTH
—— colors (Pigments), XIX, b 94, a 95; (Schools of Painting), XXI, b 454, note, a 458, note
—— Creek (Petroleum), XVIII, a b 726, b 889
—— Filter, IX, b 149
——, fire-tests of (Paraffin), XVIII, b 243, a 244; (Petroleum), a b 892
—— -gas (Gas-Lighting), X, a b 91
—— -gilding (Carving and Gilding), V, b 148
—— -globules (Histology), XII, b 14
——, green (Paraffin), XVIII, a 247
—— -lamps, invention of (London), XIV, a 835
—— -painting (Bellini), III, a 472; (Mural Decoration), XVII, b 52; (Van Eyck), VIII, a 713
—— pipe lines (Steam-Engine), XXII, a 541
OILS, XVII, a 760-70
  adulterations, a 770
  animal oils and fats, a b 765, b 768-9
  chemical properties, a b 761
  classification of oils, b 764-5, b 770
  commerce, a b 766, a b 770
  essential oils, a 769-70
  extracting, b 761-4
  fixed oils, b 760-9
  grinding and heating, a b 762
  liquid vegetable oils, b 766-8
  physical characteristics, b 760-1
  pressing out vegetable oils, a 762-3
  refining, a b 764
  rendering, b 764
  solvents, extraction by, b 763-4
  terms, use of, a b 760
  testing, b 765-6
  vegetable fats, a b 765, a b 768

Oils (Adulteration), I, a 156; (Botany), IV, *a* 78; (Glycerin), X, *a* 622; (Lubricants), XV, a 36–8; (Painting), XVIII, b 142; essential (Distillation), VII, b 227, b 231; and fats (Soap), XXII, a 214; "light" (Coal Tar Colors), XVIII, a b 900; solvent (Varnish), XXIV, *b* 99, a 100; testing of (Lubricants), XV, a 37
Oil sand (Petroleum), XVIII, b 729
—— shales (Coal), VI, b 50; shales (Geology), X, a 213, b 275, a 307
Oil springs (Geology), X, a 241; (Petroleum), XVIII, a 726; (Zante), XXIV, b 805
—— -stones (Hone), XII, a b 138
—— thermometers (Heat), XI, b 504
—— of vitriol (Guano), XI, a 208; (Molecule), XVI, a b 645; (Sulphur), XXII, b 669–70; (Zinc), XXIV, a 824. See Sulphuric Acid
—— wells (India), XII, b 804–5; (Thayetmyo), XXIII, b 240; flowing (Petroleum), XVIII, b 885, a 888, note, b 889; machinery for (Petroleum) (Ill.), b 729–30
—— -yielding plants (Agriculture), I, a b 340
Oirad, tribe (Mongols), XVI, a 770, a 776
Oiron ware (Pottery and Porcelain) (Ill.), XIX, b 648, a 649, *a* 650
OISE, department, XVII, b 770–1
——, river, XVII, *a* 771; (France), IX, a 446, b 457, a 458; (Paris), XVIII, a 291; (Seine), XXI, *a* 655; (Seine-et-Oise), a b 656
Oiseaux-mouches (Humming-Bird), XII, a 371, *b* 372
Oisianic tales (Celtic Literature), V, b 267, a b 270. See Ossian
Ojeda, Alfonso da, explorer (Balboa), III, b 236; (Colombia), VI, b 140; (Columbus), a b 156; (Geography), X, *b* 162, a 163; (Venezuela), XXIV, b 152; (Vespucci), b 208
Oji Dictionary, VII, b 167
Ojibwas, tribes (Indians), XII, b 867, a 871, a 872
Ojo Caliente, springs (New Mexico), XVII, b 410
—— del Toro, mountain (Cuba), VI, a 601
Oka, river (Kaluga), XIII, b 839; (Moscow), XVI, a 883; (Nijni-Novgorod), XVII, *a b* 514, *a* b 515, *a* 516; (Orel), b 849, *a* 850; (Russia), XXI, *a* 80, b 82, b 85, a 86, *a* 87; (Ryazañ), *a b* 124; (Tamboff), XXIII, b 45; (Tula), b 642, a 643; (Volga), XXIV, b 298, a b 299, b 300, a *b* 301
Okad or Okaz, fair of (Arabia), II, a 224, b 230; (Mo'allakát), XVI, a 560
Okanagan river (United States), XXIII, b 848
Okanda river (Africa), I, b 227; (Ogoway), XVII, a 754
Okawa, river (Tokio), XXIII, a 461
'Okba ibn Náfi'el Fehri, soldier (Kairwan), XIII, a 834; (Mohammedanism), XVI, a 590; (Mosque), *a* 892; (Tunis), XXIII, b 660
Okeechobee, lake (Florida), IX, *b* 296; battle of, 1837 (Taylor, Z.), XXIII, a 928
O'Keefe, John, dramatist (Drama), VII, a 379
Okefinokee swamp (Georgia), X, b 390
O'Kelly, James, divine (Snethen), XXII, b 916
Okelmi hills (Senaar), XXI, b 689
OKEN, Lorenz, naturalist, XVII, a 771–3
  bibliographical, b 773
  develops his system, b 771–2
  Goethe controversy, a b 773
  homological methods of, b 772–3
  Jena, life at, a b 772
  Weimar to Munich, from, b 772
  youth and Göttingen, a b 771
—— (Embryology), VIII, a 152; (Evolution), a 667; (Morphology), XVI, b 865, a 866, a 868; (Ornithology), XVIII, a 19, b 27, note, a 31; (Tiedemann), XXIII, a 409
Okenite (Mineralogy), XVI, a 439
Okhota river (Siberia), XXII, a 10
Okhotsk Sea (Pacific Ocean), XVIII, a 120, b 124, a 125, a 126; (Siberia), XXII, b 10, a 13
——, town (Maritime Province), XV, *b* 555
Okhrida, lake (Albania), I, *a* 396
Okhta villages and river (St. Petersburg), XXI, a 202, *a* 204
Oki Islands (Japan), XIII, a 578, a 579, a 592
Okinakane river and district (Washington), XXIV, a b 407
Okinawa, island (Lew-Chew Islands), XIV, *b* 489, *a* 490; province (Japan), XIII, a 580
Okkodai, Khan (Carpini), V, b 116
Okota, tribe (Bushmen), IV, b 513
Okra, plant. See GUMBO
Okrugs, Asiatic territories (Russia), XXI, a b 76, note, a 78
Olaf, St., king of Norway (Æsir), I, a b 189; (Harold III.), XI, b 433; (Norway), XVII, a b 601
—— Cúarán, king (Ireland), XIII, a b 258, b 259
—— III., Kyrre, king (Norway), XVII, a 602
—— the Lap-King (Sweden), XXII, b 783
—— the Red, son of Sitric, Northumbrian king (Scotland), XXI, a *b* 501
——, son of Guthred (Ireland), XIII, b 258
—— Tryggveson, king of Norway (England), VIII, *b* 259; (Ireland), XIII, a 260; (Norway), XVII, b 600–1; *Life of* (Iceland), XII, b 664
—— the White, king (Ireland), XIII, a 258; (Scotland), XXI, a b 500
—— the White-Poet (Iceland), XII, b 661, b 664
Olaf's Saga, St. (Snorro Sturluson), XXII, b 212
Olafsson, Eggert, poet (Iceland), XII, b 656, b 658, a 663; (Scandinavian Languages), XXI, a 385
——, Stefan, poet (Iceland), XII, b 658
Olambo river (Gaboon River), X, b 5
Olancho, department (Honduras), XII, a b 134, b 135
OLAND or Oeland, island, XVII, b 773–4; (Sweden), XXII, b 775, b 776, *a* 778
OLAUS MAGNUS, historian, XVII, a 774; (Sea Serpent), XXI, a 639
OLBERS, Heinrich Wilhelm Matthias, astronomer, XVII, a b 774; (Astronomy), II, *b* 705, a 706; (Comet), VI, b 163, a 165, a 169, a b 171, b 173; (Observatory), XVII, b 732; (Zodiacal Light), XXIV, a 836, a 837
OLBIA or Borysthenes, city, XVII, b 774–5; (Greece), XI, a 86; (Nikolaieff), XVII, a 517
——, town (Pamphylia), XVIII, b 210
Olcinium, town. See DULCIGNO
Old age (Dietetics), VII, b 178; (Medical Jurisprudence), XV, b 788
Old and New Testament Connected (Prideaux), XIX, b 743
Old Bullion, pseudonym (United States), XXIII, b 836
OLDBURY, township, XVII, a 775; (Warwick), XXIV, b 399, a 400
Old Calabar river (Calabar), IV, *a* b 576
OLDCASTLE, Sir John, reformer, XVII, a b 775; (Drayton), VII, b 390; (England), VIII, a b 292; (Henry V., England), XI, a 589; (Lollards), XIV, a 821
OLD CATHOLICS, sect, XVII, b 775–8
  authorities, a 778
  growth of, a b 777
  position in Germany, b 777–8
  Roman Church, parties in, b 775
  separation of, a b 776
  Vatican Council, b 775–6
——, (Episcopacy), VIII, b 436; (Germany), X, a 422; (Liturgy), XIV, a 718; (Switzerland), XXII, b 834; (Vatican Council), XXIV, b 123
Old Curiosity Shop (Dickens), VII, a b 152
Olden, Charles S., governor United States), XXIII, a 822
OLDENBURG, grand-duchy, XVII, a 778–80
  Birkenfeld, a 779
  capital city, a 780
  duchy of, b 778–9
  history, b 779–80
  Lübeck, a 779
  people and their organization, a b 779
—— (Denmark), VII, b 77, a b 78; (Hanover), XI, b 398; (Schleswig-Holstein), XXI, *b* 433, a 434
——, town, XVII, a 780
——, Henry, author (Pâli), XVIII, b 187, a 189, a 190; (Spinoza), XXII, b 416, note
Old English, language, VIII, a b 246, b 350–2, 359, a 360; laws, a b 250; type (Typography), XXIII, a 738
"Old Father Live-forever" (St. Helena), XXI, b 179
Oldfield, Anne, actress (Cibber), V, b 672, a 673; (Farquhar, G.), IX, a 37
Old Fish Street Market (London), XIV, *a* 837, a 838
Old Folks at Home, song (Foster, S. C.), IX, b 419
Old German (German Language), X, *b* 462–4
OLDHAM, town, XVII, b 780–1; (Communism), VI, b 194–5
OLDHAM, John, satirist, XVII, a 781
Oldhamia, fossil (Geology), X, b 292
Oldham's coupling (Mechanics), XV, b 769
Oldhaven clay beds (Geology), X, b 320
Oldisleben, exclave (Saxe-Weimar), XXI, *b* 364
"Old Japan" ware (Japan), XIII, b 598
—— Jewry, district (London), XIV, b 848, a 856
—— man Cactus, IV, b 556
—— Man of Hoy, rock column (Scotland), XXI, b 549
"Old Man of the Mountains" (Assassin), II, a 632; (Templars), XXIII, a 177
Oldmixon, John, historian (Atterbury), III, b 50
Old Mortality, novel (Kilwinning), XIV, b 79
Oldney, island (Sutherland), XXII, b 763
"Old Nick" (St. Nicholas), XVII, b 496
Old Nikrasofka, village (Ismail), XIII, a 398
Old red sandstone (Geology), X, b 301, a b 302–6; (Scotland), XXI, b 543, a *b* 546, a 547, *b* 549
Old Red Sandstone (Miller, Hugh), XVI, b 331–2
Old School Presbyterianism, XIX, a b 720
—— Side Presbyterianism, XIX, a b 718, b 719–20
—— style (Calendar), IV, a 596, *a* 601
Old Testament (Apocrypha), II, a 159–61; (Bible), III, a 548–54, a 558, a 560; (Canon), V, b 3–7, b 10–2; (Christianity), b 598–9, b 601, *b* 603; (Devil), VII, b 117–8; (Elder), a 719; (Hermeneutics), XI, a 664

Old Testament, *continued* -5; (History), XII, a 22; (Hittites), *a* 28; (Honey), b 141; (Hosea), a 309; (Isaiah), XIII, b 388, a b 389, b 390, b 394; (Mohammedanism), XVI, a 622; (Palestine), XVIII, b 178, b 179, b 180, b 182, a 183; (Semitic Languages), XXI, *a* b 677, a *b* 678, a b 679; (Septuagint), b 699–702; (Valentinus), XXIV, *a* 45, a b 46; (Vow), a b 321; German translation (Mendelssohn), XVI, b 13; Greek versions of (Bible), III, a 559; Hebrew text (Morin), XVI, a 851; *Histoire Critique* (Simon), XXII, b 89 90; literature (Prophet), XIX, b 843–4; revelation (Angel), II, b 25-6; theology (Theism), XXIII, a 258; Syriac versions of, XXII, b 863–4, a b 865

OLDYS, William, bibliographer, XVII, a 781; (Bibliography), III, a 564, b 566 note, a 571

Olea, genus (Olive), XVII, a 783

OLEANDER, shrub (Ill.), XVII, a b 781; (Botany) (Ill.), IV, b 79, b 124; (Distribution), VII, b 250 note; (Galveston), X, b 49

OLEARIUS, Adam, traveller, XVII, b 781–2; (Dodo), VII, b 279; (Germany), X, b 475; (Persia), XVIII, b 648; (Russia), XXI, a 104

Oleaster, plant. See Olea

Olefiant gas (Alcohol), I, a 416; (Fuel), IX, a 709; (Liebig), XIV, b 569, a 570; (Natural Gas), XVIII, a 896

Olefine acids (Chemistry), V, b 494

Olefines, hydro-carbons (Chemistry), V, b 484–5; (Paraffin), XVIII, b 241, a 242

Oleg I., chief (Russia), XXI, b 96

—— II., chief (Russia), XXI, *b* 97

Oleins (Chemistry), V, a 497; (Oils), XVII, b 760, b 761, b 764, a 767, *a* 768

Olekma river (Transbaikalia), XXIII, b 541, a 542; (Yakutsk), XXIV, a 762

Oleography (Lithography), XIV, a 706

OLEOMARGARINE, XVII, a b 782; (Butter), IV, a 527

Oleo Resins, XX, b 487, a b 488

OLÉRON, island, XVII, b 782

—— laws (Admiralty), I, b 144; (Sea Laws), XXI, a 611–2; (Wreck), XXIV, a 722

Olette, spa (Pyrénées), XX, b 134

Olevian, Kaspar, reformer (Ursinus), XXIV, b 17

Olfaction (Homœopathy), XII, a 130, a 131

Olfactory nerves (Anatomy), I, b 722, b 758; organs (Ichthyology), XII, a b 689; (Reptiles), XX, a b 475; comparative view of (Smell), XXII, b 175–7; Nautilus (Mollusca), XVI, a b 705. See Osphradium; region (Anatomy), I, a b 777; (Skeleton), XXII, a *b* 123; sense-epithelium (Hydrozoa) (Ill.), XII, b 584, a 585

OLGA, St., princess, XVII, b 782; (Russia), XXI, b 96, a 97

Olgerd, chief (Lithuanians), XIV, b 708

Oliaras, island. See ANTIPAROS

Olibanum. See FRANKINCENSE

Olier, Jean Jacques, ecclesiastic (Fénelon), IX, a 64

Olifant or Lepalule river (Africa), I, a 228; mountains (Cape Colony), V, a b 38, *a* 40

Oligarchy (Bern), III, a b 519; (Government), XI, a b 11; (Greece), *a* b 85, a 87, b 91, b 92; (Nobility), XVII, a 541, a 542; (Zwingli), XXIV, b 872

Oligochæta, order (Animal Kingdom), II, b 46, *a* 47; (Annelida), b 58, b 61–2; (Worms), XXIV, *b* 712–9

Oligoclase (Mineralogy) (Ill.), XVI, b 380, b 436, a 438

Oligodontidæ, family (Snakes), XXII, a 203

Oligomyodæ, family (Birds), III, *b* 644, note, a 645; (Ornithology), XVIII, a 51

Oligoporus, genus (Echinodermata), VII, a 545, a 547

Oligorus, genus (Ichthyology), XII, a 713, a 727; (Murray Cod), XVII, a 68

Oligosporea, order (Protozoa), XIX, b 878

Olinda, town (Brazil), IV, b 205, *b* 206, a 207, b 212, b 215; (Pernambuco), XVIII, b 562, a 563

Oliphant, Caroline. See NAIRNE

——, Margaret O. W., novelist (Sheridan), XXI, a 837

Olisipo, town. See LISBON

Oliva, town (Canary Islands), IV, b 706

OLIVA, Fernan Perez de, author, XVII, b 782

OLIVARES, Gasparo de Guzman, Duque de, XVII, b 782–3; (Quevedo Villegas), XX, *b* 185; (Spain), XXII, b 345, *a* b 346; (Velazquez), XXIV, b 144, a b 145, a 146

Olivary body (Anatomy), I, a *b* 764, *a* 765

OLIVE, tree (Ill.), XVII, a 783–5
  characteristics, a b 783
  economic uses, a b 784
  history, b 784–5
  modern dissemination of, a b 785
  propagation of, b 783–4

—— (Algeria), I, a 498; (Athena), II, a 727; (Attica), III, a 52; (Botany), IV, a 78, b 85; (Corfu), VI, a 351; (France), IX, a 447, a 459; (Greece), XI, b 79; (Italy), XIII, a 452, a b 460; (Menton), XVI, a 33; (Oporto), XVII, b 818; (Spain), XXII, a b 314; (Zante), XXIV, *b* 805; sacred (Areopagus), II, a 426

Olive, L', sonnets (Bellay), III, *a* 470

—— crown (Games), X, b 58, a 59

Olivenite (Mineralogy) (Ill.), XVI, a 423

Olive oil (Gallipoli), X, a 39; (Lubricants), XV, b 36, b 37; (Malaga), b 318; (Oils), XVII, b 760, *a* 761, a 762, a 765, *a* b 766; (Olive), a b 784, a 785

Oliver, family, painters (Schools of Painting), XXI, *b* 460, *a* 464

——, paladin (Romance), XX, a 666, a *b* 667, *a* 668

Oliveros y Artus (Romance), XX, b 675

Oliver's, G., indigo-carmine test (Sugar), XXII, a 657 note

Olivers, Thomas, preacher (Hymns), XII, a 629

Oliver Twist, novel (Dickens), VII, b 151, *a b* 152, b 153

OLIVES, Mount of, XVII, b 785; (Israel), XIII, b 423; (Jerusalem), a b 647

Olivetan, Pierre Robert, theologian (Calvin), IV, b 632, b 635

OLIVETANS, monks, XVII, b 785

Olivieri library (Pesaro), XVIII, b 697

Olivine, mineral (Geology), X, a 203, b 207; (Mineralogy) (Ill.), XVI, a 386, b 427; (Mining), a 461; (Peridote), XVIII, b 544

Olkhon, island (Baikal), III, a 208; (Transbaikalia), XXIII, b 542

Olkin, town. See DULCIGNO

Olkusz, district (Poland), XIX, *b* 319, a 320; hills (Poland), XIX, a 318

Ollamah, title (Celtic Literature), V, *a b* 263, b 264, a 265, b 268, b 271; (Ireland), XIII, b 262, a 264

Ollantay, Inca drama (Peru), XVIII, a b 689, a 693

Ollivier, Abbé (Alexander VI.), I, a b 431, b 433

——, Emile, statesman (France), IX, b 551; (Prévost-Paradol), XIX, *b* 740

Ollomont, town (Gold), X, a 661

Ollulanus, genus (Nematoidea), XVII, b 334

Olmeques in Central America, I, b 618

OLMSTED, Denison, physicist, XVII, b 785

——, Frederick Law, engineer (Sanitary Commission), XXI, b 903–4

OLMUTZ, city, XVII, b 785; (Moravia), XVI, a 837; (Observatory), XVII, b 733; (Universities), XXIII, b 907; conference of, 1848 (Germany), X, *a* 456

Olnegmacht, kingdom (Ireland), XIII, b 249, b 250 note

Olney Hymns, XII, b 629; (Newton, J.), XVII, a 461

OLONETZ, government and town, XVII, a b 786; (Russia), XXI, a 76, b 80, a 81, b 85, a 87, a 88, b 93, a 94

Olopeen or Olopun, missionary (China), V, a 561; (Segan Foo), XXI, a 653 note

Oloron, Gave d', river (Pyrénées), XX, b 132

OLORON - SAINTE - MARIE, town, XVII, b 786; (Pyrénées), XX, *a* 133

Olorus, prince (Thucydides), XXIII, b 343

Olosenga, island (Polynesia), XIX, a 434

O'LOUGHLIN, Domnall, king (Ireland), XIII, b 260

——, Murtough, king (Ireland), XIII, *a* 261

Olsen, B. Magnússon, philologist (Scandinavian Languages), XXI, b 383, a 385

Olshausen, Justus, orientalist (Hebrew Language and Literature), XI, *b* 537; (Phœnicia), XVIII, a 823

——, ovariotomist (Surgery), XXII, b 726, a 727 note

Olten, town (Soleure), XXII, b 263

Olty, town (Transcaucasia), XXIII, a b 547

Olufsen, O. C., naturalist (Denmark), VII, b 80

Olüts, tribe (Calmucks), IV, b 629

OLYBRIUS, emperor, XVII, b 786

Olympeium, temple (Athens) III, a 3, a 4, b 9; (Syracuse), XXII, b 852, a 853, a 856

OLYMPIA, ruins (Plan), XVII, b 787–92
  accommodations for the people, b 791–2
  excavations begun, b 788, a 792
  historical importance of, b 787–8
  remains outside the Altis, b 788–90
  remains within the Altis, b 790–2
  temples for public worship, b 790–1
  topography, a 786–7
  votive edifices, a b 791
  water-supply, b 791–2

—— (Altar), I, b 561, *a* 562; (Elis), VIII, b 130, a 131; (Hera), XI, a 606; (Inscriptions), XIII, a b 127, b 128, a 129; (Pelops), XVIII, b 490; excavations at (Greece), XI, *b* 118, a 119; (Mosaic) (Ill.), XVI, b 877

—— city, Washington XXIV, b 406, a 408

Olympiads (Chronology), V, *a* b 617–8

Olympiads, chronicle (Phlegon), XVIII, b 811

OLYMPIAS of Macedon, queen, XVII, a b 792; (Cassander), V, a 159

Olympic games (Antioch), II, b 116; (Elis), VIII, b 130, *a* 131; (Games), X, *b* 57–9; (Greece), XI, a 85, b 101; (Horse), XII, a 203; (Numismatics), XVII, a *b* 654, a 655; (Olympia), b 787–8; new (Greece), XI, a 80

Olympic mountains (Washington), XXIV, b 406

Olympiodorus of Alexandria, neoplatonist (Ptolemy), XX, a 92

—— of Thebes, historian (Sozomen), XXII, *a* 306

Olympium. See Olympeium

Olympus, city, Lycia, XVII, b 792
OLYMPUS, mountains, XVII, *b* 792; in Cyprus, VI, *b* 659, *a* 660; of Elis (Olympia), XVII, a 787, b 792; of Thessaly, XXIII, b 319, b 320; (Greece), XI, *a* 74; Mysia (Asia Minor), II, b 617; (Bithynia), III, b 688
——, Phrygian musician, XVII, a 792
Olynthian league (Demosthenes), VII, b 61, a 62
OLYNTHUS, city, XVII, b 792-3; (Greece), XI, b 93; (Macedonian Empire), XV, b 139, b 140; (Numismatics), XVII, a 657
Olynthus, ideal form (Sponges), XXII, *b* 428, b 429
Olyreæ, family (Grasses), XI, b 48, a 49, a 52
Omagh, town (Tyrone), XXIII, *b* 759, *a* 760
OMAHA, city, XVII, a 793; (Nebraska), a b 318, a 319
Omahas, tribes (Indians), XII, *b* 872; (Totemism), XXIII, b 497, a 498, *a* b 499
O'Mahony, John, Fenian (Ireland), XIII, a b 277
Omalo, basin (Crete), VI, a 504
Oman, district (Arabia), II, a b 207, a 208, *a b* 211, a 212, *a b* 213, *a* 214, b 215, a b 217, *a b* 218, a *b* 219, *a b* 220, b 221, a b 227, *a* b 229; (Sohár), XXII, *a* 260
'Omar I., caliph (Abu-Bekr), I, a 60; (Amru-ben-el-Ass), a 683; (Arabia), II, a b 225; (Chronology), V, b 622; (Crusades), VI, a 550; (Mohammedanism), XVI, b 573, b 584, a 586, b 611, a 612
—— II., caliph (Mohammedanism), XVI, a b 597, a 613
——, sheikh (Bornu), IV, a b 55
——, Mosque of. See Mosque
—— al-Hadji or Alegni, chief (Senegal), XXI, a 693
—— ben Abû Rabî'ah, poet (Hamasah), XI, a 360
—— ben Shabba, historian, (Tabarí), XXIII, a 6, a 7
—— ibn Hafsún, emir (Spain), XXII, *b* 327, a 328
'OMAR KHAYYAM or Cheyam, astronomer and poet, XIV, a 793-4; (Calendar), IV, a 592; (Persia), XVIII, a 671
Omasum. See ABOMASUM
Omatako, mountain (Africa), I, a 225; (Hereroland), XI, b 654
Omaguas tribe (America), I, a 616
Omayyad dynasty (Abbasides), I, b 15; (Anatomy), a 706; (Arabia), II, a b 226; (Libraries), XIV, b 513; (Mohammedanism), XVI, b 569, b 577, b 585, a b 586, b 587, a 588-600; (Numismatics), XVII, *b* 678; (Spain), XXII, *a* b 325, a 327-30
Omberg, mountain (Sweden), XXII, a 775
Ombilin river. See Umbilin
Ombo, town (Tibet), XXIII, b 362, a 363
Ombotozu, mountain (Hereroland), XI, b 654
Ombres Chinois, puppets (Marionettes), XV, a 554
Ombrone, river (Italy), XIII, a 448
Omens (Divination), VII, a 255; (Magic), XV, *a b* 200, *a b* 201, *b* 202, *a b* 203; (Sacrifice), XXI, a 143; Russian (Poushkin), XIX, a 669. See AUGURS, Horoscope, Necromancy, Oneiromancy, Soothsayer
Omenta, peritoneal sacs (Digestive Organs), VII, b 194, a 195
Omentum, bloodvessels of (Anatomy), I, *a* 793
Omer of Thérouanne, bishop (St. Omer), XXI, b 197
Ometepec, mountain (Nicaragua), XVII, b 490, a b 491, b 492
Omichund, trader (Clive), VI, b 10, *b* 12
Omis, province (Japan), XIII, a 579, b 581-2
Ommatophoca, genus (Mammalia), XV, b 450
Ommelanden, district (Groningen), XI, b 184
Ommiad dynasty. See Omayyad
Omnibonus Leonicenus, editor (Typography), XXIII, a b 731
Omnibus, vehicle (Carriage), V, b 119; (London), XIV, b 832
—— bill (Clay, H.), V, a 715
—— steamers (Venice), XXIV, b 170
Omnicycle, vehicle (Tricycle) XXIII, a 594
Omnimeter, theodolite (Surveying) (Ill.), XXII, b 756-7
Omnis cellula e cellula, doctrine (Zoology), XXIV, b 855
Omnium Hæresium Refutatio (Hippolytus), XI, a 763
Omnivorous dentition (Mammalia), XV, a 357
Omoa, town (Honduras), XII, *a* 134, b 135
O'More, Lysaght, of Leix (Ireland), XIII, b 266
Omosternum, bone (Amphibia), I, *b* 668
O Mother dear, Jerusalem (Hymns), XII, a b 626
Omphale, goddess. See CYBELE
Omphalodes, plants (Horticulture), XII, a 255, b 259
Omphyma, genus (Corals), VI, b 338, *a* 339, b 340, a 341
Omra, vow (Mecca), XV, *b* 677, b 680, *a b* 681
Omri, king (Israel), XIII, b 416, note, a 417; (Moab), XVI, b 558; house of (Kings), XIV, b 87-8
OMSK, town, XVII, a 794
On, city (Egypt), VII, b 667
Onager, species (Ass), II, b 626; (Horse), XII, a 179
Onagraceæ, family (Botany), IV, *b* 125
Onango, river (Africa), I, b 227
Onas, tribe (Tierra del Fuego), XXIII, b 410
Onasias, painter (Archæology), II, b 313
Onatas of Ægina, sculptor (Archæology), II, b 306, a b 307
Onca, altar of (Thebes), XXIII, b 249
Onchestos, Amphictyony of, I, a 679
Onchidium, genus (Mollusca), XVI, a 688, a 719
Onchus, fossil (Ichthyology), XII, *a* b 705, a 706, b 723
Onchidiadæ or onchidiidæ, family (Mollusca), XVI, b 684; (Snail), XXII, *b* 197
Oncorhynchus, genus (Salmonidæ, XXI, a 232, b 234
Oncosin, mineral (Mineralogy), XVI, a 443
Ondaine, stream (Loire Department), XIV, b 816
Ondegardo, Polo de, judge (Peru), XVIII, a 691, b 692-3
On Divine Things (Jacobi), XIII, a 547, a 548
Ondo, state (Yoruba), XXIV, *a* 792
O'Neal, family (Down), VII, a 332
——, Owen, general (Cavan), V, b 230
ONEGA Lake, XVII, a 794; (Novgorod), b 621; lake and river (Russia), XXI, *a b* 80; river, XVII, b 794; town, b 794
Oneglia, town (Porto Maurizio), XIX, b 546
ONEIDA COMMUNITY, XVII, b 794-5; (Communism), VI, a b 189, a 194
—— lake (New York), XVII, b 462
—— ship canal (St. Lawrence), XXI, b 189
O'Neill, clan (Ireland), XIII, b 255, b 258, b 265, b 268, a 270, a b 271; (Tyrone), XXIII, a 760
——, Daniel, postmaster (Post-Office), XIX, a 580 note
——, Eliza, actress (Milman, H. H.), XVI, a 335
——, Hugh of Clandeboye (Belfast), III, b 441
——, Hugh, earl of Tyrone (Ireland), XIII, a b 271, a 272
——, H. E., traveller (Mozambique), XVII, a 14
——, Owen Roe (Ireland), XIII, a 273
—— or O'Neale, Sir Phelim (Charles I.), V, a 352
——, Shane, patriot (Ireland), XIII, a 270
Oneion, mountains (Corinth), VI, b 352
Oneiromancy (Divination), VII, a 255; (Dream), a 393; (Magic), XV, b 206
'ONEIZA, town, XVII, b 795-6
"One-one" correspondence (Geometry), X, b 350
Onesimus, slave (Philemon), XVIII. b 755
On Faraday's Lines of Force (Maxwell), XV, a b 653
Ongtong Java, islands (Solomon Islands), XXII, b 265 note, a 266
Oni, town. See ANI
Onias III., priest (Isaiah), XIII, a 389; (Israel), b 430, a 431
Onias's temple (Hebrews), XI, a 541
Onilàhy, river (Madagascar), XV, a b 169
Onimàinty, river (Madagascar), XV, *b* 169
Onin, tract of country (New Guinea), XVII, a 396
Oningar, race (Oland), XVII, a 774
Onion, plant (Botany), IV, a 88, b 96, a 103; (Horticulture), XII, a 297
——, Jewish city (Egypt), VII, a 667
Onitsha, town (Niger), XVII, b 510, *a* 511
Onkelos (Semitic Languages), XXI, *a* 680; (Targum), XXIII, a 69, note
Onoba, city (Phœnicia), XVIII, a 820
Onobrychis, genus (Sainfoin), XXI, b 163
Onocrotalus, genus (Pelican), XVIII, b 485
Onolzbach, town. See ANSBACH
ONOMACRITUS, poet, XVII, a 796
Onomasticon (Dictionary), VII, b 155, b 158; (Pollux), XIX, *a* 417
Onomastus, boxer (Smyrna), XXII, b 195
Onomatopœia (Philology), XVIII, b 781, a b 782
Onon, river (Transbaikalia), XXIII, a 542, *a* 543
Onondaga lake (Syracuse), XXII, *a* 857
—— literature (Dictionary), VII, a 168; (Zeisberger), XXIV, a 923
Onoporodon Acanthium, species (Thistle), XXIII, b 327
Onosma, plants (Horticulture), XII, b 259
Onrust, island (Batavia), III, b 373
Onsen-ga-také, mountain (Japan), XIII, a 581
Onslow, Arthur, speaker (Surrey), XXII, a 730
Ontario, lake (New York), XVII, b 462, a 465; (St. Lawrence), XXI, b 189, b 191
ONTARIO, province (Plate XXIII), XVII, a 796-8; (Canada), IV, a b 676, b 677, a 678, b 679, a 680-1, *a* 682, *a* 683, b 685, a 686, a 690
—— mine, Utah (United States), XXIII, a 868
—— Poplar, XIX, b 526
ONTENIENTE, town, XVII, a 798
On the Duties of Man (Mazzini), XV, a 662, a 663
On the Equilibrium of Elastic Solids (Maxwell), XV, a 653
On the Peace (Isocrates), XIII, a b 401
Ontogeny (Embryology), VIII, b 150; (Hydrozoa), XII, b 585-6; (Reproduction), XX, *b* 434
Ontology (Abstraction), I, a 59; (Anselm), II, b 82; (Cousin), VI, b 465-6; (Ethics), VIII, *a* 506, b 507; (Ferrier, J. F.), IX, b 97; (Herbart), XI, a b 642; (Metaphysic), XVI, a 85, a 98, a 104; (Philosophy), XVIII, a 808; (Xenocrates), XXIV, b 754
Onuba Æstuaria, town (Huelva), XII, a 348
Onulf, chief (Odoacer), XVII, b 747, a 748
Onuris or Anher, god (Egypt), VII, a 623

Onycha, shell (Incense), XII, a 757
Onychophora, order (Annelida), II, b 58, a 62
Onychoteuthidæ, family (Mollusca), XVI, b 695
Onychoteuthis, genus (Cuttle-Fish), VI, *b* 649, b 651, a 653; (Mollusca) (Ill.), XVI, a 696
ONYX, mineral, XVII, a b 798; (Agate), I, a 248; (Cameo), IV, a b 653; (Sardonyx), XXI, b 325; marble (Alabaster), I, b 389; (Mexico), XVI, b 909
—— - glass (Glass), X, b 578
Oodeypore, state. See UDAIPUR
Oogamous reproduction (Vegetable Kingdom), XXIV, a 137
Oogenesis (Reproduction) (Ill.), XX, a 425, a b 426
Oogentroost (Holland), XII, b 98; (Huygens, C.), a 433
Oogonia, organs (Reproduction), XX, b 437
Oojein, town. See UJJAIN
Ookeip mine (Cape Colony), V, b 38; (Namaqualand), XVII, b 174-5
Oolite rocks (Coal), VI, a b 52; (Corals), b 336, a b 337, a 343; (Geology), X, b 204, a 207, a 314-7; (Huntingdon), XII, b 412-3; (Mineralogy), XVI, a 414; (Scotland), XXI, *a* 544; (York), XXIV, *a* 784; fauna (Distribution), VII, b 245-6, *b* 247, a 248; stones for masonry (Building), IV, a 420
Oology (Birds), III, a 670; (Ornithology), XVIII, a 36
Oolong Tea, XXIII, a 106
Oomarkote, town. See UMARKOT
Oomycetes, sub-class (Vegetable Kingdom), XXIV, *a b* 139
Oophorectomy (Surgery), XXII, b 726
Oophore stage (Ferns), IX, b 88, a 89, a b 92
Oormiah, town. See URMIA
Oorun, town. See URAN
Oosite (Mineralogy), XVI, a 436
Oosphere and oospore (Botany), IV, a 143, b 144, b 145, a *b* 146; (Muscineæ) (Ill.), XVII, a *b* 72, *b* 75, *b* 78; (Reproduction), XX, a 438
Oosporeæ, class (Biology), III, a 600
Oosten, Gertrude von, of Delft (Stigmatization), XXII, a 577
Oosterzee, Jan Jakob van, theologian (Dogmatic), VII, a 289, a 291, note, b 292, b 296, a 297
Ootacamund, town. See Utakamand
Oozbecks, race. See USBEGS
Ooze, marine (Foraminifera), IX, b 336, a b 339; (Geology), X, b 213; (Norwegian Sea), XVII, b 607; (Pacific Ocean), XVIII, b 125-32
—— or tan liquor (Leather), XIV, a 383, a 385
Opacity of Metals, XVI, a 69
OPAH, fish, XVII, b 798-9
OPAL, mineral, XVII, a b 799; (Hungary), XII, a 378; (Mineralogy), XVI, b 385, a 387, a 388, b 405-a 406
—— glass (Glass), X, b 594-5
Opalia, festival (Saturn), XXI, b 336
Opalina, genus (Protozoa), (Ill.), XIX, b 858, a 886, a 888, *a* 889
Opalinski, Christopher, poet (Poland), XIX, b 313
Opaque glass (Glass), X, b 584, a b 594-5
Opata or Tequima Dictionary, VII, a 168
Opecanchanough, chief (Smith), XXII, *b* 185
Open-air Maps, XV, b 524
—— circuit working (Telegraph), XXIII, a b 131
Opener, apparatus (Cotton) (Ill.), VI, a b 435-6
Open hearth furnaces (Iron) (Ill.), XIII, a b 301
—— policies, marine Insurance, XIII, a 191
—— roasters, furnaces (Sodium), XXII, b 255
OPENSHAW town, XVII, b 799
Opera (Music), XVII, b 93-5, b 99, a 100, a b 101, a 102, b 105-6
—— bouffe (Music), XVII, b 106; (Offenbach), b 752-3
——, comic (Balfe), III, b 241; (Boieldieu), a 750; (France), IX, b 567; (Hook, T. E.), XII, a 152; (Music), XVII, b 105-6; (Philoxenus, XVIII, a 811
——, English (Arne), II, b 544; (Arnold, S.), a 547; (Bishop), III, b 685; (Burney), IV, b 503; (Carey, H.), V, a 90; (Davenant), VI, b 735; (Dibdin), VII, b 148-9; (Drama), a 375, a 378; (Handel), XI, b 388, a 389; (Music), XVII, a 95; (Purcell), XX, a b 119, *a* 120: (Shield), XXI, *a* 839; (Storace), XXII, a b 605; early English form of (Pantomime), XVIII, b 219
——, French (Academy), I, b 75; (Auber), III, b 58; (Berlioz), a b 517; (Cambert), IV, a 640; (Cherubini), V, b 510, a 511; (David), VI, a 741; (Grétry), XI, a 168; (Halevy), a 342; (Hérold), a 679; (Meyerbeer), XVI, a b 231; (Music), XVII, b 94
——, German (Gluck), X, b 618-20 (Goetz), b 656; (Graun), XI, a 58; (Handel), a b 388; (Himmel), b 746; (Hoffman), XII, a 48; (Kreutzer), XIV, b 148; (Mendelssohn), XVI, b 10, a 11, a b 12; (Meyerbeer), b 230, *a* 231; (Mozart), XVII, b 15, a b 16, a 17; (Music), a 95, b 99-100; (Raff), XX, a b 226; (Schubert), XXI, b 479; (Schumann), *a* 481; (Spohr), XXII, a *b* 426-7; (Spontini), b 446-7; (Steffani), b 556-7; (Wagner), XXIV, a 335-6; (Winter), a 647
——, Italian (Agnesi), I, b 253; (Bellini), III, a 473; (Cinarosa), V, a b 681; (Donizetti), VII, a b 315; (Drama), a 361, *a* 362: (Galuppi), X, a 44; (Guglielmi), XI, b 220; (Handel), *b* 388, *a* 389; (Jommelli), XIII, a 747; (Metastasio), XVI, a b 109-10; (Monteverde), a 812; (Music), XVII, b 94, a b 100, a 106; (Paisiello), XVIII, b 144-5; (Pergolesi), b 538-9; (Piccini), XIX, b 87; (Porpora), a 537; (Purcell), XX, a b 119; (Rossini), b 883-4; (Sicchini), XXI, a 139; (Salieri), a b 228; (Scarlatti), b 392, a 393
——, Russian (Glinka), X, a 606
—— glass (Telescope), XXIII, b 151
—— house, Grand, Paris, XVIII, b 281-2; (Theatre) (Ill.), XXIII, a 244
Opera Inedita (Mayer), XV, b 655-6
—— *Moralia* (Plutarch), XIX, b 244-7
—— *Omnia* (Gregory Nazianzus), XI, b 161
Operatic history, epitome of (Music), XVII, b 106
OPERATIVE SURGERY, XXII, a 723-8
Opercula, bones (Ichthyology), XII, a 673, a 680, a 686, b 704, a 705
Opercularia, genus (Protozoa) (Ill.), XIX, b 885, b 887-8
Operculina, genus (Foraminifera) (Ill.), IX, *b* 334, *a b* 335, a 336, b 338
Operculum, organ (Mollusca), (Ill.) XVI, b 684, b 689, a 690
Operettas (Hiller), XI, b 732
Operette Morali (Italy), XIII, b 525; (Leopardi), XIV, a 465
Oper und Drama (Wagner), XXIV, b 334, b 335, a 337
Opheliidæ, family (Annelida), II, b 58, a 59
Ophel wall, Jerusalem, XIII, *b* 648, a 649, b 651
Ophicalcite, limestone (Marble), XV, b 536; (Serpentine), XXI, *a b* 715
OPHICLEIDE, musical instrument (Ill.), XVII, b 799-802
Ophidia, order (America), I, a 601; (Birds), III, *b* 628, *a b* 629; (Reptiles), XX, a b 447, b 452-3, b 457, *a b* 458, a b 461, a 464-5, b 466, a b 468, a b 469, a b 470, *a b* 472, a b 473, *a* b 474, *a b* 475, a *b* 476, a b 477, *a* 480, a b 481, a *b* 482, a b 483, a b 484, a *b* 485, a 486, a b 487; (Snakes), XXII, a 199-210
Ophidiidæ, family (Ichthyology), XII, a 716, a b 722, a 723, b 730
Ophidiina, genus (Ichthyology), XII, b 730
Ophiocephalidæ, family (Ichthyology), XII, a 708, *b* 709, a 710, a b 711, b 729
Ophiocoma, genus (Echinodermata), VII, *a* b 550
Ophiocomidæ, family (Echinodermata), VII, a 550
Ophioderma, genus (Echinodermata) (Ill.), VII, b 549, *a* 550
Ophioglossaceæ, family (Biology), III, *a b* 601; (Ferns), IX, b 92
Ophiolepis, genus (Echinodermata) (Ill.), VII, b 549, *a* 550
Ophion, insect (Hymenoptera), XII, b 607, a 608, b 611
Ophiophagus, genus (Snakes) XXII, b 201, b 207
Ophiopholis, genus (Echinodermata) (Ill.), VII, b 549, a 550
Ophiothriedidæ, family (Echinodermata), VII, a 550
OPHIR, Biblical, XVII, a 802; (Geography), X, a 157; (India), XII, a 804; (Phœnicia), XVIII, b 820; (Sofála), XXII, a 259
——, mountain (Malacca), XV, b 315; (Malay Peninsula), b 323, *a* 324; (Sumatra), XXII, b 671
Ophis, river (Mantineia), XV, b 510
Ophite, mineral (Serpentine), XXI, b 714
Ophites, sect (Canon), V, *a* 8; (Gnosticism), X, *a* b 626, *a* 627
Ophiuridea, order (Echinodermata) (Ill.), VII, *a* 544, a 549-50, b 555
Ophryodendron (Protozoa) (Ill.), XIX, a *b* 890
Ophthalmia, disease (Egypt), VII, a b 610; (Medicine), XV, a 806; (Pathology), XVIII, b 412-3; (Paul), b 429
Ophthalmic bloodvessels (Anatomy), I, a b 794; nerve (Anatomy), b 774
OPHTHALMOLOGY, XVII, a 802-9
  accommodation, b 807-8
  astigmatism, a b 807
  choroid, b 805
  ciliary region, diseases of, a b 804
  conjunctival disease, a b 802
  cornea, disease of, b 802-3
  crystalline lens, b 804-5
  errors of refraction, a b 807
  eyelid and lachrymal duct, a b 808
  glaucoma, a b 805
  injuries of eyeball, b 808
  iris, diseases of, b 803-4
  ophthalmoscope, b 808-9
  optic nerve, b 806-7
  retina, b 805-6
  strabismus, squint, b 807-8
  vitreous, diseases of, b 805
—— (Gräfe), XI, a 29
Ophthalmoscope, XVII, b 808-9
Opican tribes. See OSCANS
Opicia, country (Italy), XIII, a 456
OPIE, Amelia, novelist, XVII, a b 809
OPIE, John, painter, XVII, b 809; (Wolcot), XXIV, b 661
Opinion (Logic), XIV, *b* 793 4; Spinoza on (Cartesianism), V, a 134
Opinion, philosophical discussion (Parmenides), XVIII, a b 321, a b 322
Opinione, L' (Newspapers), XVII, a 442

- *Opinione Nationale, L'* (Newspapers), XVII, *a* b 438
- Opisometer (Surveying), XXII, a 759
- Opisthobranchia, order (Mollusca), XVI, a 679, a 684
- Opisthocomidæ, family (Birds), III, a b 647
- Opisthocomus, genus (Birds), III, b 644, note; (Hoactzin), XII, b 30-1
- Opisthodomus of temple (Architecture), II, a 360
- Opisthoglyphi (Snakes), XXII, a 201
- Opisthographs (Catacombs), V, b 182
- Opisthoticum, bones (Ichthyology), XII, a 678
- Opitz, Martin, critic (Drama), VII, b 380; (Germany), X, b 474, *a* 475; (Heinsius, D.), XI, a 561; (Hymns), XII, a 621
- OPIUM (Ill.), XVII, b 809-17
  - Africa, b 814
  - American, a 815
  - Australia, b 814-5
  - chemistry and alkaloids, a 815-6
  - China, a b 814
  - eating, a b 816
  - Europe, a 815
  - history of commercial, b 809-10
  - India, a 812-3
  - Macedonian, b 811-2
  - Malatia variety, b 811
  - medicinal uses, a 816
  - Persia, b 813
  - smoking, b 816-7
  - Turkey, b 810-2
  - varieties of Turkish, a b 811
- —— (Behar), III, b 438; (Bengal), a 488, b 490; (Bronchitis), IV, b 327; (China), V, b 552, b 554, a 555; (Coleridge), VI, b 123; (Diabetes), VII, a 128; (Drunkenness), b 416; (Ghazipur), X, b 500; (Hong-Kong), XII, a 146; (India), b 787-8, a 796, b 811, a b 812; (Insanity), XIII, a 109, a 116; (Malaria), XV, b 322; (Narcotics), XVII, a b 237, *a b* 238, a 239; (Patna), XVIII, b 419; (Persia), b 634, note, a b 636, a 650; (Phthisis), b 872; (Poisons), XIX, b 287, a 288, b 290; monopoly, Dutch (Indian archipelago), XII, b 858
- —— smoking, XVII, b 816-7; (China), V, b 583; cure for, XVII, b 817
- —— war, British process of Christianization (China), V, b 565; (Elgin and Kincardine), VIII, a b 124
- OPODELDOC, liniment, XVII, b 817-8
- OPORTO, city (Map), XVII, a 818-9; (Libraries), XIV, a b 532; (Portugal), XIX, *b* 551, a 552, *a* 553, *a b* 554, *a* 555; (Wine), XXIV, *a b* 640, b 641; siege of, 1832 (Portugal), XIX, a 568
- OPOSSUM, marsupial (Ill.), XVII, a b 819; (Australia), III, a 97; (Distribution), VII, b 240; (Fur), IX, b 735, a 737; (Mammalia) (Ill.), XV, a 381, a b 382, a 385
- Opotchka, town (Pskoff), XX, *a* 41
- Oppel, mathematician (Trigonometry), XXIII, b 597
- Oppel, N. M., naturalist (Reptiles), XX, b 447-8
- OPPELN, town, XVII, a 820
- OPPENHEIM, town, XVII, a 820
- Oppert, Jules, orientalist (Persia), XVIII, a 574, a 577; (Weights and Measures), XXIV, *a b* 511
- OPPIAN, poet, XVII, a b 820
- —— law (Sumptuary Laws), XXII, a 678
- Oppidolo, town (Pantellaria), XVIII, b 218
- OPPIUS, Caius, historian, XVII, b 820
- Oppolzer's Observatory, XVII, b 733
- Oprichniks, guards (Russia), XXI, a 101
- Ops or Consiva, goddess (Saturn), XXI, b 336
- Opslo, town (Christiania), V, b 597
- Opsterland, town (Friesland), IX, a 690
- Optandus, bishop (Geneva), X, b 133
- Optical glass (Glass), X, a b 593; (Telescopic Work), XXIII, a 934
- —— illusions (Magic), XV, b 207-8, b 210; Brewster's theory of (Apparitions), II, a 180
- —— instruments, gratings for (Screw), XXI, *a* b 579-80; power of (Wave Theory), XXIV, b 458-60; resolving power of (Optics), XVII, a b 830-1. See MICROSCOPE, TELESCOPE
- —— properties of eye (Anatomy), I, b 781-2
- —— square (Surveying), XXII, a 758
- —— Telemeter, XXIII, a 136
- Optic axes, crystals (Wave Theory), XXIV, b 474
- —— capsules (Skeleton), XXII, a 122, a 123
- —— ganglia (Mollusca), XVI, a 705, b 709
- —— nerve (Anatomy), I, b 766, *a* 778, *a* 780, *a* 781, a 782; (Ichthyology), XII, a 689; (Mollusca), XVI, a 719; (Ophthalmology), XVII, b 806; (Physiology), XIX, b 31, b 35; development of (Anatomy), I, a b 758
- —— radiations of Gratiolet (Physiology), XIX, a 46
- OPTICS, geometrical, XVII, b 820-31
  - aberration of lenses, b 826-7
  - chromatic aberration, a 827-9
  - collimator focusing, b 825-6
  - deviation angles, b 823-4
  - focal lines, b 822-3
  - lenses, a 826-7, a b 829
  - oblique pencils, a 827
  - object glasses, b 827-9
  - prisms, b 823-6
  - refraction, indices of, b 824-5
  - resolving power of instruments, a 830-1
- OPTICS, *continued*
  - scope of article, b 820-1
  - spectra, a b 825
  - systems of rays, a 821-2
  - telescope, b 829-30
  - vision through single lens, a b 829
  - works on, b 831
- —— (Alhazen), I, a 504; (Arago), II, a b 266; (Brewster), IV, a b 246; (Descartes), VII, a b 108; (Eye), VIII, b 714-19; (Foucault, J. B. L.), IX, a 420; (Fraunhofer), a b 640; (Fresnel), b 681; (Goethe), X, a b 651, b 653-7; (Hobbes), XII, a 37, b 39; (Hooke), a 153; (Huygens), a 432; (Leonardo), XIV, a 462; (Light), a 581-619; (Malus), XV, b 348; (Porta), XIX, b 540; (Stereoscope), XXII, a 565-6; geometrical (Light) (Ill.), XIV, a 581, a b 584-608; physiological (Light), a 582-3
- *Optics* (Newton), XVII, b 450, a 451-2, a 458
- —— (Ptolemy), XX, b 96
- Optic thalami (Anatomy), I, a b 758, b 768, *a* 770, *a b* 771, *a* 772, a 781; (Physiology), XIX, a b 43
- Optigraph (Camera Lucida) (Plate XXXIV), IV, a 655
- Optimates, nobles (Rome), XX, *a* b 802
- Optimism (Malthus), XV, b 346; (Pessimism), XVIII, b 698, a b 700, a 701; of Bastiat (Political Economy), XIX, a 399
- Opuntia, plant (Cactus), IV, a *b* 555, b 556; (Horticulture), XII, a 275
- Opuntii, district (Locri), XIV, a 771
- Opus Alexandrinum, style (Mosaic), XVI, b 877, a 881
- —— Anglicum (Illumination), XII, b 746
- *Opuscula Academica* (Heyne), XI, b 702
- Opus incertum (Rome) (Ill.), XX, a 828 note
- *Opus Majus* of Roger Bacon, III, b 189, *a* b 190, a 191; (Telescope), XXIII, a b 146
- —— *Palatinum de Triangulis* (Rheticus), XX, a 523; (Tables), XXIII, a b 13
- Opus quadratum (Rome) (Ill.), XX, a 827-8; reticulatum (Rome) (Ill.), b 828, note; signinum, stucco (Rome), b 852 note
- —— Tertium (Bacon, Roger), III, a b 190, *a* 191
- —— testaceum, concrete (Rome), XX, b 852 note
- Or, river (Uralsk), XXIV, b 10
- ——, Mont d' (Distribution), VII, b 250; (Doubs), b 325
- Orach, vegetable (Horticulture), XII, b 297
- ORACLE, XVII, b 831-2
- —— of Amphiaraus, I, a b 657; XVII, a 832; (Oropus), XVIII, a 54
- —— of Delphi, VII, b 47; XVII, *a* b 832; (Apollo), II, a 162, a 163; (Camarino), IV, b 638; (Cleomenes), V, a 720, a 721; (Gyges), XI, a 310; (Parnassus), XVIII, a 324; (Pericles), a *b* 832; (Phocis), *b* 814; of Dodona, VII, a 280; XVII, b 832
- ——, Jewish (Isaiah), XIII, *a* 389, b 391 2; (Priest), XIX, *a* 747. See Prophecy
- —— of Præneste, XIX, *b* 674
- Oracles (Apollo), II, b 162, a 163; (Divination), VII, *b* 254; (Mars), XV, a 577; (Mohammedanism), XVI, b 624; (Persia), XVIII, a 577; (Pilgrimage), XIX, a b 100; (Priest), a b 746; (Sibyl), XXII, b 18-9
- *Oracles, Histoire des* (Fontenelle), IX, b 319
- ——, *On the Cessation of* (Plutarch), XIX, b 245-6
- Oræfajökull, mountain (Iceland), XII, b 651
- Orāgos, mountains. See Organ
- *Oraisons Funèbres* (Bossuet), IV, b 62
- "Oral tradition" (Gospels), X, a *b* 748
- —— tuition (Deaf and Dumb), VII, b 9-10
- ORAN, town, XVII, a b 833; (Algeria), I, b 497, a *b* 498; a 500-1; (Jimenes), XIII, b 704
- *Orando pro rege*, Writ, XXIV, a 731
- Orang Benúa, race (Malay), XV, a 327; (Malay Peninsula), *b* 325
- ORANGE, fruit, XVII, a 834-6; (Acclimatization), I, a 82; (Botany) (Ill.), IV, *a* b 78, b 80, a 103, b 121, b 126, b 134, *a* 135, b 136, a 138, a 139, a b 140, a 141; (Citron), V, b 694, a 695; (Florida), IX, a b 297; (Horticulture), XII, b 282-3; (Hybridism), b 441; (Japan), XIII, a b 584; leaf (Botany) (Ill.), IV, a b 101, a 102
- ORANGE, France, city, XVII, a b 836; (Universities), XXIII, a 895
- ORANGE, New Jersey, city, XVII, b 836
- ——, lake (Florida), IX, b 296
- ——, principality (Vaucluse), XXIV, b 124, a 125; (William III.), b 610
- ——, river (Africa), I, b 221, a 223, a 225, a 228; (Cape Colony), V, b 37, b 38-9
- ——, house of (De Witt), VII, b 125, a 126; (Finance), IX, b 157; (Holland), XII, b 67, b 76, a b 77, a b 78, a b 79, b 81, a 82, b 83, a b 85-6; (Nassau), XVII, a 245. See WILLIAM III. of England, WILLIAM THE SILENT
- —— colors (Dyeing), VII, b 500
- —— Gourd, XI, a 6
- —— Hoods, sect (Lāmāism), XIV, b 230
- —— Light, XIV, a 595, a 606, a 607
- ORANGEMEN, society, XVII, b 836-7; (England), VIII, b 324; (Hume, J.), XII, a 370; (Ireland), XIII, b 275
- ORANGE RIVER FREE STATE, XVII, a b 837; (Africa), I, a 237, a 242; (Cape Colony), V, *a* 41

Orangery (Versailles), XXIV, a 192
Orangetown (St. Eustatius), XXI, b 176
Orangite (Mineralogy), XVI, a 443
Orang-laut, race (Malay), XV, *a* 327
—— Maláyu, race (Malay), XV, *a* 327
Orang-outan (Ape) (Ill.), II, b 130-1, b 137, *a* 139, *a* 140, *a* b 141, b 142, *a* 143, *a b* 144, *a* 145, b 146; (Negro), XVII, a 326 note
ORANIENBAUM, town, XVII, b 837; (St. Petersburg), XXI, b 199, *a* 201
Orarium, stole (Costume), VI, *b* 408, a b 410
Ora serrata (Anatomy), I, a 780, a 781
Oratio ad Græcos (Tatian), XXIII, a 87
Oratio divi Severi (Roman Law), XX, b 725
Oratio Dominica, 1700 (Typography), XXIII, b 740
Oratorians, religious order (Faber), VIII, b 730; (Monachism), XVI, a 739; (Morin), a 851; (Neri), XVII, a 356-7
Oratorio, musical (Animuccia), II, a 52; (Arnold), a 547; (Bach), III, a b 169; (Crotch), VI, b 543; (Graun), XI, a 58; (Handel), a b 388, a *b* 389; (Haydn), b 482; (London), XIV, *a* 846; (Mendelssohn), XVI, *a b* 12; (Music), XVII, a b 92, b 97, a 98, a 107; (Pergolesi), XVIII, b 538; (Spohr), XXII, *a* 427
Orators, Attic (Rhetoric), XX, b 523-4, a b 526
Orators, Dialogue on (Tacitus), XXIII, a 25
——, *Lives of the Ten* (Plutarch), XIX, b 246
Oratory (Abraham-a-Sancta-Clara), I, b 56; (Æschines), a 188; (American Literature), a 633, a b 634; (Antiphon), II, a b 118; (Bolingbroke), IV, b 6; (Bossuet), IV, b 62; (Bourdaloue), *a* b 159; (Brougham), a 336, a b 337; (Demosthenes), VII, a b 64; (Fine Arts), IX, b 176; (France), a 592; (Grattan), XI, a b 55, b 56; (Greece), a b 127; (Guizot), a b 240; (Hall, Robert), b 350; (Holland, Lord), XII, b 103; (Hortensius), b 214, a 215; (Hyperides), b 631; (Isæus), XIII, b 386-8; (Isocrates), b 398-404; (Pericles), XVIII, a 541, note, a 544; (Pitt), XIX, b 144-5, b 150, b 156; (Polynesia), b 437; (Quintilian), XX, a b 194; (Rhetoric), a 527, a 529; (Roman Literature), b 735, a *b* 737, a b 739, a 740, a b 744; (Sheridan), XXI, a 836; (Smith, Sidney), XXII, b 187
Orazi, Giovanni Batista, composer (Transverse Flute), XXIII, a 554
Orbe, Val d' (Jura), XIII, *a* b 791
Orbecche, play (Giraldi), X, a b 553
Orbeliani Ivan, prince (Georgia, Kingdom), X, b 388; (Prester John), XIX, *a* 736
——, Stephen, bishop (Georgia, Kingdom), X, a 388
Orbelus, mountains (Macedonia), XV, *a* b 138
Orbiculina, genus (Foraminifera) (Ill.), IX, a 325, a 331, b 338
Orbiguy, Alcide Dessalines d', naturalist (Indians), XII, b 864 note, a 865, b 868, a *b* 869, *a* 870
Orbit of Comet, VI, b 163 *sq.*
——, earth's (Geology), X, a 193, b 194-5; eccentricity of discovered (Astronomy), II, a 655; elements, equilibrium theory in terms of (Tides), XXIII, a 387-9
——, Lunar (Astronomy), II, a b 677; (Moon), XVI, b 825, a 828; friction on (Tides), XXIII, b 402, a b 404; reduction of (Tides), b 391-2
—— of Meteors, XVI, b 115, a 116, b 118
—— of planet (Gravitation), XI, b 63-7; (Mechanics), XV, a b 692; action in (Mechanics), b 732-3
——, revolving, Newton's (Mechanics), XV, b 717
Orbitoides, fossils (Foraminifera) (Ill.), IX, b 335, *a b* 336, *a* 337, b 340
Orbitolina, fossils (Foraminifera), IX, *b* 333, b 335
Orbitolites, genus (Foraminifera) (Ill.), IX, b 330, a 331, b 336, b 338, *b* 340
Orbitslariæ (Arachnida), II, b 259, b 260
Orboulk family (Georgia), X, a b 388
Orbulina, genus (Protozoa) (Ill.), XIX, a 870, a 871
Orca, genus (Mammalia), XV, a 396, b 402
ORCAGNA, Andrea di Cione, artist, XVII, b 837-9; (Architecture), II, b 398; (Glass), X, a 597, a 598; (Schools of Painting), XXI, *b* 452, a 462
Orcas, island (San Juan), XXI, a 279
Orcella, genus (Mammalia), XV, b 376, b 402
Orchan, sultan (Greece), XI, *b* 107
Orchard (Agriculture), I, a 341; (Horticulture), XII, a 279; house (Horticulture) (Ill.), b 229-30; trees (Horticulture), a b 289
——, William, premium tables of (Insurance), XIII, a 179
Orchella weed (Archil), II, b 331
Orchestia, genus (Crustacea) (Ill.), VI, b 567, a 573, a 585
Orchestra (Gluck), X, b 619; (Horn, French), XII, a 172; (Music), XVII, b 100, a b 105; (Theatre), XXIII, b 241, a b 242, a 243, a 245
Orchestrion, instrument (Vogler), XXIV, b 292
ORCHHA, state, XVII, b 839
Orchian law (Sumptuary Law), XXII, a 678
Orchideous perianth (Botany) (Ill.), IV, a b 120
ORCHIDS, plant (Ill.), XVII, b 839-41; (Botany) (Ill.), IV, b 75, a 78, a 79, b 83, *a b* 84, b 87, a b 116, b 117, a 120, a 122, a 123, b 125, b 131, b 133, a 136, b 141; (Horticulture), XII, a 246, a b 276; (Hybridism), a 440; (Japan), XIII, a 600; (New South Wales), XVII, *b* 420; (Vermont), XXIV, b 181
Orchil, dye. See ARCHIL
Orchilla, islands (Venezuela), XXIV, a 152
Orchis, genus (Botany), IV, b 125, a 126; (Salep), XXI, *b* 221
Orchomenus, Arcadia, city, XVII, a 842
ORCHOMENUS, Bœotia, XVII, b 841-2; (Graces), XI, *a* b 24; (Greece), a 83
Orchy, river (Argyllshire), II, a 439
Orcine and orceine (Archil), II, a 332
Orco, river (Italy), XIII, a 445
Orcus, deity (Pluto), XIX, b 247
Orda Khan (Mongols), XVI, a b 773
Ordainers, feudal barons (England), VIII, a 282
ORDEAL, XVII, a 842-4; (Angola), II, b 41; (England), VIII, b 253; (Eugenius II.), b 581; (Loango), XIV, b 749; (Madagascar), XV, a 174
——, Bible and key (Divination), VII, a 255; of battle (Treason), XXIII, a 561, note; (Witness), XXIV, b 657; of fire (Alchemy), I, b 407; (Fire), IX, a 202, note
Ordeal of Moses (Giorgione), X, a 543
ORDER or Ordination, *q.v.*, XVII, a b 844
——, organ of (Phrenology), XVIII, a 860
——, rules of (Parliament), XVIII, b 317
ORDERICUS VITALIS, historian, XVII, b 844-5; (Knighthood), XIV, a 114 note, b 115
"Order of Christ" (Brazil), IV, a 214
—— of congruence (Surface), XXII, a 705; of the Surface, a 703
Order of the Worship of God (Luther), XV, a 79
Orders of Battle, III, a 385
—— in council (England), VIII, b 325-6; (Navigation Laws), XVII, a b 286; (Privy Council), XIX, b 785; against Napoleon I. (Brougham), IV, a b 338
—— of Egyptian column (Architecture), II, b 342-3; Five Vitruvian (Architecture) (Plate XXIV), b 382, a 384; of Greek columns (Architecture), a b 353
—— of Knighthood. See KNIGHTHOOD
——, religious. See MONACHISM, Religious Orders
—— 2, 3 and 4 of Surface, XXII, a b 704
Orders of Wandsworth (Presbyterianism), XIX, b 705
Ordinacio pro Stabilitate Scotiæ (Scotland), XXI, a 510
Ordinalia (Celtic Literature), V, *a* 281
Ordinance of Conspirators VI, a 262
Ordinance of 1787 (United States), XXIII, b 794-5, a 800
Ordinances of Bilbao (Mexico), XVI, b 899
Ordinaries (Heraldry), XI, b 617-22, a 630
ORDINARY, law-term, XVII, a 845
Ordinates (Conic Sections), VI, b 242, b 244, *b* 246, b 247, b 250; axis of (Variable), XXIV, b 76
Ordination or Orders (Celibacy), V, *b* 254, a 255; (Episcopacy), VIII, a 435; (Methodism), XVI, a b 195, b 196, a 198; (Order), XVII, a b 844; (Presbyter), XIX, b 694 note; (Presbyterianism), b 707; (Trent, Council of), XXIII, a 585; effects of (Slavery), XXII, a 143; English (Tooke), XXIII, b 473, a 474; by Franciscan friar (Celestine V.), V, a 253; of monks (Abbot), I, a b 28
Ordish's suspension bridge (Bridges), IV, b 272
Ordnance (Fortification), IX, a 401; (Gunmaking) (Ill.), XI, a 254-63; mediæval (Navy), XVII, b 290. See Artillery, Cannon, Guns
—— or control department, British (Army), II, a 502, b 509-10
—— service (Gunnery), XI, a 272-81
—— Survey delineations, British (Surveying), XXII, b 747-8, b 751, a 752, a 753; maps (Geography), X, a 188; methods, British (Surveying), XXII, *a* 745
Ordo asinorum, monks (Trinitarians), XXIII, a 611
Ordo Hirsaugiensis (Hirschau), XII, a 3
Ordoñez, Garcia Count, soldier (Cid), V, *a* 676
Ordonnances Ecclésiastiques de l' Eglise de Genève (Presbyterianism), XIX, a b 698
Ordoño I., Leon, king (Spain), XXII, b 326, b 327
—— II., Leon, king (Spain), XXII, b 326, *a* 328
—— III., Leon, king (Spain), XXII, b 326
Ordo Romanus, service-book (Holy Water), XII, a 109; (Incense), b 759; (Missal), XVI, a 532-3
Ordovices, tribe (Montgomery), XVI, b 815
Ordu, tribe (Mongols), XVI, b 770
Ordubad, town (Transcaucasia), XXIII, b 547
Ore or Alde, river (Suffolk), XXII, a 654
Oré, surgeon (Chloral), V, b 588, a 589
Oreades, myths (Nymph), XVII, b 708
Ored, sheik (Gideon), X, *b* 525
OREBRO, town, XVII, a b 845; province (Sweden), XXII, *a* 778, b 779, b 780

Oredon, fossil (Mammalia), XV, a 356; (Zoology), XXIV, b 926
OREGON, State (Plate XXIV) XVII, b 845–9
  climate, b 846–7
  Columbia river, b 846
  Eastern Oregon, a 846
  geology, a b 847
  history, a b 849
  industries, a b 848
  mountains, b 845–6
  natural history, b 847–8
  physical geography, b 845–7
  political institutions, b 848–9
—— (United States), XXIII, b 820; (Universities), a 913, a b 956; (Washington), XXIV, a b 408; boundary question (United States), b 810, b 815, *a* 816; coast ranges (United States), b 851–2; explorations in (United States), b 806; statistics (United States), b 853, a b 861, *a* 862, b 864, b 868, a 869
—— pine, timber (Washington), XXIV, b 407, note
—— Railway and Navigation Co. (Pacific Railroads), XIX, b 920, a 921
O'Reilly, Don Alexandro, commander (New Orleans), XVII, a 414
O'Reilly's country (Cavan), V, a 230
Oreinus, genus (Ichthyology), XII, a 711
Oreithyia, myth (Boreas), IV, *b* 47
OREL, government, XVII, b 849–50; (Russia), XXI, a 76, b 83, b 90; town, XVII, a 850
Orellana, Francis, explorer (Amazon), I, b 575; (America), a 621; (El Dorado), VII, b 721
Orellius or Orelli, Johann Caspar, philologist (Cicero), V, a 675; (Inscriptions), XIII, b 130, a 132, note
Oreloth's process, Paul (Photography), XVIII, b 845
ORENBURG, government, XVII, a 850; (Russia), XXI, a 76, a *b* 83, a 87, a 88; (Ural Mountains), XXIV, a 10; town, XVII, b 850–1
—— gum (Larch), XIV, b 310
Orendel, hero (Hamlet), XI, a 379
ORENSE, province, XVII, a 851; (Galicia), X, *a b* 25; (Spain), XXII, b 312; town, XVII, a 851; (Galicia), X, *a b* 25
Oreocephalus, genus (Iguana), XII, a 740
Oreodoxa, palm (Horticulture), XII, b 276
Oreophasinæ, sub-family (Guan), XI, a 206
Oreotragus, genus (Antelope), II, a 90
Oreotrochilus, genus (Birds), III, a 648
Ores (Antimony), II, b 113–4; (Cobalt), VI, b 75; (Copper), a 308–11; of gold, X, b 660–2; assay of, b 669
—— of Iron, XIII, b 291–6; (Pennsylvania), XVIII, b 512; preliminary treatment (Iron), XIII, b 297–8; process, open hearth steel (Iron), a b 357, a 358; protection statistics (Iron), a b 368; Schisshyttan manganiferous (Iron), a b 360; Ural (Iron), a 360
—— (Lead), XIV, a b 375–6; (Metallurgy), XVI, b 62, *a* 63, a 66–8; (Mining), a 460–2; (Silver), XXII, b 76
Oresme, Nicole, bishop, (France), IX, b 570; (Money), XVI, b 764; (Political Economy), XIX, a 367
Orestea of Æschylus, I, b 188; (Drama), VII, b 351
ORESTES, hero, XVII, a b 851; (Areopagus), II, *b* 424; (Iphigeneia), XIII, b 217
—— the Pannonian, general (Odoacer), XVII, a 747; (Rome), XX, a 799
——, prefect of Egypt (Cyril, Alexandria), VI, *a* 663
Orestes, play (Euripides), VIII, a b 594
—— of Stephanus, sculpture (Archæology), II, a 320
—— *pursued by the Furies*, painting (Hennequin), XI, *a* 584
Orestias, genus (Ichthyology), XII, b 712, b 731
Orfa or Urfa, city (Edessa), VII, a 566; (Mesopotamia), XVI, b 52
Orfeo, opera (Monteverde), XVI, a 812
Orfeo of Politian, XIX, b 358; Pastoral drama, XIX, b 358; (Drama), VII, a 362
Orfeo ed Euridice, opera (Gluck), X, a b 619; (Music), XVII, a 102
Orffyreus, Johann Ernst Elias, mechanician (Perpetual Motion), XVIII, b 565
ORFILA, Mathieu Joseph Bonaventure, toxicologist, XVII, b 851–2; (Medical Jurisprudence), XV, b 793
Orford, George, third earl (Kite), XIV, b 105, note
——, earls. See WALPOLE
Orfraie, bird (Osprey), XVIII, b 59, note; (Owl), b 94, notes
Orfreys, stripes (Costume), VI, b 408
——, mountains (Brazil), IV, b 200, b 211
——, mountains (New Mexico), XVII, a b 410
ORGAN, musical (Ill.), XVII, a 852–63
  choir organ, b 856–7
  early instruments, b 860–1
  English instruments, b 861–2
  general mechanism, a 858–9
  German instruments, b 861
  great organ, a 854–6
  high pitch stops, b 855–6
  history, b 860–2
  manuals and their mechanism, a 858–9
  modern music, a b 863
  pedal organ, a 857–8
  performer's requirements, b 859–60
  pneumatic devices, a 859
  pipes, a 853–4
  solo organ, a 857
ORGAN, *continued*
  stop and key-board mechanism, a 852–3, a 854
  swell organ, a b 856
  treatment, b 862–3
—— (Pianoforte), XIX, b 72–3, b 78; American (Harmonium), XI, a b 432, a 433; cabinet (Patents), XVIII, a 883; diatonic (Pianoforte), XIX, b 73; Domkirche (Riga), XX, b 568; Händel's (Music), XVII, a b 98; Muller's (Haarlem), XI, a 318; pedals (Vogler), XXIV, b 292; pipes, range of (Music), XVII, a 110–1; sound reflection of (Wave), XXIV, b 439; in worship (Methodism), XVI, a 198
Organ-builders' Tuning-fork, XXIII, a 659
Organic acids (Chemistry), V, a 421, b 479, a 493–5
"—— Articles," regulations, France (Concordat), VI, a 215
ORGANIC CHEMISTRY, V, b 471–503; (Gay-Lussac), X, b 110–1; (Liebig), XIV, a b 569; (Nitrogen), XVII, a 532; formulæ of, V, a b 474; rise of, a b 451; (Wöhler), XXIV, a 660
—— deposits, oceanic (Geology), X, b 255; grouping of strata (Geology), *b* 262; influence on subterranean waters (Geology), a 240
—— life, molecular view of, (Atom), III, b 37–8
—— Manure, XV, b 516–7, a 519
—— Phosphorescence, XVIII, a 826–7
Organina, instrument (Musical Box), XVII, b 113
Organisata, tentative kingdom (Morphology), XVI, b 864, b 872
Organisms in air (Ventilation), XXIV, b 175–6
Organistrum (Pianoforte), XIX, a 73
Organization du Travail (Communism), VI, b 190–1
Organ of Corti (Anatomy), I, b 785, *a* 786
Organographia (Lute), XV, a 72
Organography (Botany), IV, a b 73
Organon of Aristotle, II, b 452, b 453, b 454; (Logic), XIV, a 791, *a b* 792, *b* 793
—— of Hahnemann (Homœopathy), XII, b 129, a b 130
Organ-pipe Corals, VI, b 341, a 343. See Tubipora
Organs, physiological, defined (Anatomy), I, b 739; (Biology), III, a 589, a 593; development of (Lamarck), XIV, b 232–3; and functions (Physiology), XIX, a b 14, a 15; of plants (Botany) (Ill.), IV, b 81–146
—— of Steam-Engine (Ill.), XXII, a 505
"Organum," musical instrument (Pianoforte), XIX, b 72, a 73
Orgas, field of (Eleusis), VIII, a 121
ORGIES, rites, XVII, b 863; (Phrygia), XVIII, a b 867
Orguia in Weights and Measures, XXIV, a b 510, a 511
Orguinettes, instruments (Musical Box), XVII, b 113
Orgyia, moth (Butterflies) (Plate XXXI), IV, a 528, a 531
Orialuka, town (Montenegro), XVI, a 807
Orhy, mountain (Pyrénées), XX, b 132
Oriana of England, mythical princess (Romance), XX, *a b* 671
Oribasius, physician (Anatomy), I, b 705; (Medicine), XV, a 814
Oribates, family (Arachnida), II, a 241, a 242
Orichalcum bronze (Numismatics), XVII, b 670
Oriekhoff, island (Neva), XVII, b 375
Oriel College, Oxford (Keble), XIV, a b 26; (Oxford), XVIII, a b 101
—— window (Architecture), II, a 404
Orien, mountain (Herzegovina), XI, a 693
Orient, the (Costume), VI, a b 407
Oriental arts (Carpets), V, *a* 113; (Carving), a b 147; (Emerald), VIII, b 156; (Hegel), XI, a 554; (Ispahan), XIII, a b 404; (Jewellery), a b 688; (Metal Work), XVI, a b 84; (Mirrors), b 524; (Mural Decoration), XVII, b 54; (Plate) (Ill.), XIX, a 193, a 198; (Swords) (Ill.), XXII, b 840–1, b 842; influence on Greece (Archæology), II, b 302–3, a b 304
—— Beards, III, b 399–400
—— books (Libraries), XIV, b 514, a b 517
—— coins (Numismatics), XVII, *b* 645, *a* 646, b 677–80
—— manuscripts (Libraries), XIV, a b 515, a b 518, b 519, a b 526, b 528, b 529, a 531, b 532, *a b* 533
—— museum, Gotha (Seetzen), XXI, b 652
—— Plague, XIX, b 169, b 174, b 178
—— region fauna (Distribution), VII, a 234, a b 236, *b* 239
—— Republic of the Uruguay, XXIV, a 19
—— Rites (Roman Catholic Church), XX, *a b* 646–7
—— Topaz, XXIII, a 475
Orifices, fluid discharge from (Hydromechanics) (Ill.), XII, a 482–6, b 488, a 491–503, a b 505; gauging (Hydromechanics), a 499–503
Oriflamme, standard (Flag), IX, b 243–4
ORIGEN, Church Father, XVII, b 863–7
  apologetic works, b 865
  biography, a 864–5
  exegetical and textual works, a b 865
  hostility towards, a b 867
  outline view of his teaching, a 866–7
  position in theology of, b 863–4

ORIGEN, *continued*
    sources of information, b 867
    theological works, b 865
    writings, a 865–6
—— (Ambrose), I, a 582; (Canon), V, *a* 3, a b 6, b 7, b 9, *a b* 10; (Canonization), a 22; (Canticles), b 30, a 31; (Catechumens), a 193; (Celsus), a b 256, a 257; (Creeds), VI, a 495; (Devil), VII, a 119; (Docetæ), a 269; (Dogmatic), *a* 294; (Easter), a 531; (Ephesians), VIII, a 408, b 410, note; (Epiphanius), *b* 428; (Eschatology), b 473 note, a 475, a 476; (Eunuch), a 586; (Eusebius), b 632; (Eve), b 643; (Gospels), X, b 720, note, b 727, note, a 738, note, a b 740, note; (Gregory Thaumaturgus), XI, a b 162; (Hebrews), a b 538, *a* 539; (Hermeneutics), a b 666; (Hippolytus), a 763; (Huet), XII, a 349; (Hymns), b 613; (Inspiration), XIII, a 162; (James), b 564; (Jerome), a b 641, *a* 642; (Justinian I.), a 805; (Jesus Christ), b 681; (Logos), XIV, a 814; (Millennium), XVI, b 328, a 329; (Neoplatonism), XVII, b 344, b 347, a *b* 348; (Paul of Samosata), XVIII, a 440 (Physiologus), XIX, *a* 10, note; (Pilgrimage), b 102; (Popedom), b 502; (Purgatory), XX, a 121; (Septuagint), XXI, a *b* 701; (Simon Magus), XXII, b 86 note; (Socrates), b 251, a 252; (Valentinus), XXIV, a *b* 43, b 45, b 46; his *Hexapla* (Bible), III, a 559
——, heathen philosopher (Neoplatonism), XVII, b 344
Origen, Apology for (Pamphilus), XVIII, a 208
Originalia Rolls (Records), XX, b 325
Original Seceders, sect (United Presbyterian Church), XXIII, b 776 notes
—— sin (Paul), XVIII, b 434
—— Writ, XXIV, *b* 729, *a b* 730, b 731
Originating Summons, XXII b 676
Origine des Connaissances Humaines (Condillac), VI, b 221, a b 222, a 223, *a* 224
—— *de tous les Cultes* (Dupuis), VII, b 475–6
Origin of Moral Virtue (Mandeville), XV, *b* 479
—— *of Portraiture* (Allan, D.), I, a 511
Origin of species. See Species, Origin of
—— of things (Geology), X, b 190–1
ORIHUELA, town, XVII, b 867
Orik or Ourique, battle of, 1139 (Portugal), XIX, a 556
Orin, lake (Tibet), XXIII, b 360
Orinasals, glides to and from (Speech-Sounds), XXII, a 398
ORINOCO, river, XVII, a b 868; (Colombia), VI, a 138; (Columbus), b 156; (Guiana), XI, a 221; (Humboldt, A.), XII, b 357; basin (America), I, b 587, a *b* 589, a 593; (Venezuela), XXIV, b 150; cataract (Malaria), XV, a 322
ORIOLE, bird, XVII, b 868–9; (Honey-Eater), XII, a 143; (Icterus), b 735; (Mimicry), XVI, b 353–4; Baltimore (Zoology), XXIV, a 924; Golden (Jacamar), XIII, b 540, note
ORION, constellation, XVII, a 869; nebula photograph (Telescopic Work), XXIII, a 933
Oriskany formation (Geology), X, a 301
ORISSA, province, XVII, a 869–70; (Bengal), III, a 488, b 489, 490; (India), XII, a b 780, b 785, a 793, a 804, a b 805, b 809; (Jájpur), XIII, a 555; primitive races of (India), XII, b 816
Oristano river, gulf, mountains (Sardinia), XXI, b 322, b 323, a b 324
Orithyia, myth (Attica), III, a 52
Oriya Dictionaries, VII, a 166
Orizaba Mountain, XVII, a 870; (America), I, a 592, b 595; (Mexico), XVI, a 224, note
ORIZABA or Orizava, town, XVII, a 870
—— root (Jalap), XIII, a 557
Orjen, mountain (Dalmatia), VI, a 690
Orkhan, sultan (Greece), XI, b 109; (Turkey), XXIII, a 682
ORKNEY and SHETLAND, county (Map), XVII, a 870–4
    antiquities, b 873
    authorities, b 873–4
    climate and agriculture, a b 871–2
    fauna and flora, a 872
    geology, b 870–1
    history, b 872–3
    islands and coast, a b 870
    population and government, b 872
    productions, a b 872
——, George, earl of (Marshal), XV, a b 581
Orkneys, islands (Gare-Fowl), X, b 71, a 72; (Norway), XVII, *b* 599, b 601, a b 603; (Scotland), XXI, b 543, b 544, a 545, *b* 549, a 551; (Whirlpool), XXIV, b 571, a 572; dialect (Scandinavian Languages), XXI, a b 386
Orkneyinga, book (Iceland), XII, a b 661
Orlando Furioso, poem (Ariosto), II, *b* 442, a b 443; (Harrington), XI, *a* 429; (Italy), XIII, b 519; (Lampedusa), XIV, a 250
——, *History of*, play (Greene), XI, a 147
Orlando Innamorato, poem (Ariosto), II, a 443; (Berni), III, a 522; (Boiardo), a b 749; (Italy), XIII, a 518, b 519
Orle, the (Heraldry) (Ill.), XI, a 621
Orleanist organs (Newspapers), XVII, b 433
Orleans territory (Louisiana), XV, b 24; (United States), XXIII, b 872
ORLEANS, city (Plan), XVII, a 874–5; Edicts of, 1561–2 (L'Hôpital), XIV, b 503; siege of, 1429 (France), IX, *a* 485; (Joan of Arc), XIII, *a* b 707
——, forest and district (Loiret), XIV, a *b* 818
—— island (Quebec), XX, a 172, b 174; (St. Lawrence), XXI, a 191
ORLEANS, family of, XVII, b 876–8; (Joinville), XIII, a b 744; (Neuilly-sur-Seine), XVII, *b* 371
——, Anne Marie Louise d'. See MONTPENSIER
ORLEANS, Charles, duke of, poet, XVII, b 875–6; (France), IX, a 570
——, Dunois, bastard of. See DUNOIS
——, Ferdinand Louis Philippe Charles Henri, duc d', XVII, a 878
——, Gaston Jean Baptiste, duc d', XVII, b 876–7; (Montmorency), XVI, a 818; (Montpensier), a 819
——, Henrietta, duchess of (Henrietta Maria), XI, *b* 584; (Fuller, T.), IX, a 715; (Monmouth), XVI, a 782; (Racine), XX, a 212, b 213
——, Louis I., duc d', XVII, b 876
——, Louis II., duc d', XVII, b 877
——, Louis Philippe I., duc d', XVII, b 877
——, Louis Philippe II., duc d', king. See LOUIS PHILIPPE
——, Louis Philippe Joseph, Égalité, duc d', XVII, b 877–8; (France), IX, b 524, a 525, a 527, b 528, a b 532; (Genlis), X, *b* 137; (Mirabeau), XVI, b 518; (Sodium), XXII, a 255
——, Louise d', grand duchess (Medici), XV, a 803
——, Maid of. See JOAN OF ARC
——, Philippe I., duc d', XVII, a 877
——, Philippe II., duc d', regent, XVII, a b 877; (Collé), VI, a 128; (Dubois), VII, b 434; (France), IX, b 514, a 515; (Maintenon), XV, a 308; (Saint-Simon), XXI, *a* b 209
—— regency (Montesquieu), XVI, a 809
Orleton, village (Hereford), XI, a b 653
Orley, Bernard van, painter (Schools of Painting), XXI, b 458, b 463
Orloff, government. See OREL
——, Alexis, conspirator (Catherine II.), V, b 203, a 204
——, Gregor Vladimir, prince (Catherine II.), V, b 203, a 204; (Greece), XI, *a* 109
—— Diamond, VII, a 144
Orm or Ormin, poet (English Language), VIII, a *b* 354; (English Literature) b 365, a 366
ORME, Robert, historian, XVII, b 878; (India), XII, a 840, b 851
Ormerod, George, antiquarian (Tyldesley), XXIII, b 716
Orme's case (Seisin), XXI, b 657
Ormesson de Amboile, François de Paule Le Fèvre d', intendant of finance (France), IX, a 524
Ormesta (Orosius), XVIII, a 54
Ormond, novel (Edgeworth, Maria), VII, a b 567, a 568
Ormonde, earls of (Ireland), XIII, b 266, *b* 267, a 268, b 270; (Tipperary), XXIII, *a* 433
ORMOND, James Butler, duke of, XVII, 878–80; (Blood), III, a 727; (Ireland), XIII, b 236, a 273, *a* 274; (Newspapers), XVII, a 434, note
——, James Butler, earl of (Ireland), XIII, b 266, b 267
ORMSKIRK, town, XVII, b 880
Ormulum (English Language), VIII, a 354, 359; (English Literature), a 366; (Scandinavian Languages), XXI, b 389
ORMUS (Map), XVII, b 880–2; (Persia), XVIII, a b 649
ORMUZD or Ahura, deity, XVII, b 882; (Fire), IX, b 201; (Persia), XVIII, a 666, note; (Theism), XXIII, a 257; (Zoroaster), XXIV, *b* 861, *a b* 862
Ornain river (Marne), XV, a 568
Ornament, principles of (Architecture), II, b 334–5
Ornamental trees and shrubs (Arboriculture), II, a b 280–1
Ornaments (Costume), VI, b 402, a b 404; (Cross), a 541; (Feathers), IX, b 53; (Filigree), a 143–4; (Jewellery), XIII, a 686; Egyptian (Costume), VI, b 404; mediæval (Ireland), XIII, a b 263; Saxon (Costume), VI, b 411
Ornan, threshing-floor of (Chronicles), V, b 615
ORNE, department, XVIII, a 5–6; river, a 5; (France), IX, a 446, b 457
Orneodes, moth (Butterflies) (Plate XXXI), IV, b 531
Orniscidæ, family (Crustacea), VI, b 582, b 583
Ornithodelphia, sub-class (Birds), III, a 640; (Mammalia), XV, b 373, a 374
Ornithological Biography, American (Audubon), III, b 62
Ornithologie Européenne, Degland, XVIII, b 21
ORNITHOLOGY, XVIII, 6–53
    American *Faunæ*, b 20
    anatomists of 18th century, b 11
    Asiatic *Faunæ*, a 20
    Australasian *Faunæ*, a 20
    Bewick, b 13–14
    Brisson, b 9

ORNITHOLOGY, *continued*
  British Isles, *Faunæ* of, a 20
  Buffon and Montbeillard, a b 10
  classical authors, b 6–7
  CLASSIFICATION, recent schemes of, b 22–53
    antiquity of types, a b 47
    Audubon, b 31
    Bartlett, a b 29
    Berthold, b 26
    Bonaparte, b 34–5
    Brandt, b 29
    Burmeister, a 30–1
    Cabanis, b 33–4
    carinatæ, Newton's orders of, a 48–51
    Cornay, a 33
    corvidæ, ranks of, a 52–3
    Cuvier and Geoffroy, a b 27
    Darwin and Wallace, b 36–7
    De Blainville, a b 24
    Des Murs, a 36
    Eyton, a 36
    Garrod and Forbes, a 43–4
    Geoffroy, St. Hilaires, the, a 23, a 28
    Gervais, a b 35
    Gloger, b 27
    Hogg, a 35
    Huxley, a 38–40
    Kessler, a b 31
    Keyserling and Blasius, b 29–30
    L'Herminier, a 25–6, a 28
    Lilljeborg, a 38
    Macgillivray, b 28, b 31
    Marsh, O. C., a 40–1
    Merrem, a 23–4
    Milne-Edwards, a 40
    Müller, Johannes, b 31–2
    Newman, a 35
    Newton's three subclasses, b 47
    Nitzsch, b 22, a 23, b 24, a b 26, a 30
    Owen, b 37–8
    Parker, a 37
    ratitæ, Newton's orders of, a 48
    reptiles, relation of birds and, b 46–7
    Sclater, b 44–6
    Sundevall, b 27, a 41–3
    Tiedemann, a 23
    Tristram, a 37
    turdidæ, rank of, b 51–2
    Wagner, b 37
    Yarrell, a 33
  Egyptian pictures, b 6
  eighteenth century, b 8–14
  European continental *Faunæ*, b 20–2
  Faunæ, ornithic, a 20–2
  Faunists, 18th century, b 12–4
  fifteenth century publications, a b 7
  general systematic 19th century works, b 17–8
  illustrated monographs, 19th century, English, b 15–6, a 17; French, b 14, a 15, b 16, a 17; German, a b 17

ORNITHOLOGY, *continued*
  index of ornithologists, 53
  Latham, b 10
  monographs, reasons and tendency of, b 14
  nature of the subject, a 6
  quinary system, b 18–20
  scientific ornithology, beginning of, b 8
  seventeenth century publications, a b 8
  sixteenth century publications, b 7–8
  travellers, 18th century, a b 12
  White, Gilbert, b 13. See BIRDS

——

Ornithology, American (Wilson), XXIV, a 622
Ornithopoda, order (Reptiles), XX, a b 456 note; (Zoology), XXIV, b 925
Ornithoptera, order (Butterflies and Moths), IV, *b* 529
Ornithopterus, genus (Pterodactyle), XX, b 91
Ornithopus, fruit of (Botany), IV, b 136, b 139
Ornithorhynchidæ, family (Mammalia), XV, *a* 374
Ornithorhynchus, genus (Ichthyosaurus), XII, b 734; (Mammalia), XV, a 351, a 357, b 361, a 380 note; (Platypus), XIX, a 225–6; (Skeleton), XXII, b 115, *a* 116, *a* 119
Ornithosauria, order (Reptiles), XX, a b 456, a b 458, a 459, b 473; (Pterodactyle), b 91
Orobac, mountain (Herzegovina), XI, a 693
Orobancheæ, plant (Botany), IV, b 121, b 141; (Parasitism), XVIII, b 269, note, b 272
Orodes I., king of Parthia (Persia), XVIII, a 607–8
—— II., king, Parthia (Persia), XVIII, b 611, a 612
Orœtes, satrap (Persia), XVIII, a 581; (Polycrates), XIX, a 431
Orohena, mountain (Tahiti), XXIII, b 27
Orohippus, fossil (Distribution), VII, b 246–7, a 248; (Horse) (Ill.), XII, a 177, b 178; (Zoology), XXIV, a 926
Oroks, race (Saghalin), XXI, *b* 155
Orolaunum, town. See ARLON
Oron, lake (Siberia), XXII, a 10; (Transbaikalia), XXIII, b 542; (Yakutsk), XXIV, a 762, a 763
Oronce Finé, map (Globe), X, a 608
Oronsay, island (Lighthouse) (Ill.), XIV, b 630
Orontes river (Antioch), II, b 115; (Lebanon), XIV, a 394; (Syria), XXII, *b* 860
——, satrap (Persia), XVIII, b 590, b 591
Oroonoco (Behn), III, *a* 440
Oropesa, city. See COCHABAMBA
——, Count of, minister (Spain), XXII, *b* 347, a *b* 349
OROPUS, town, XVIII, a 54; (Attica), III, b 53; oracle of (Amphiaraus), I, b 657
OROSIUS, Paulus, author, XVIII, a b 54; (Rutilius), XXI, a 122
Oros Stavro, mountain (Cyprus), VI, b 659
Orotava, town (Canary Islands), IV, a 703, a 704, a *b* 705
O'Rourke, family (Leitrim), XIV, b 433–4
——, Tigernan (Ireland), XIII, a 261
Orphan Lectures (Andrewes), II, b 20
Orphan of Chaou, drama (China), V, b 578
Orphat, mountain. See ARAFAT
ORPHEUS, myth, XVIII, b 54–5; (Greece), XI, a 122; (Mural Decoration), XVII, b 49
Orpheus and Eurydice, fable (Virgil), XXIV, b 271. See *Orfeo*
Orphic Hymns, XII, b 612; (Incense), a 759
Orphic religion, XVIII, b 54–5; (Pan), b 211; (Mysteries), XVII, *b* 132, *b* 135
Orphitian senatusconsultum (Roman Law), XX, *a* 726
ORPIMENT, mineral, XVIII, a b 55; (Arsenic), II, a b 555; (Burmah), IV, b 495; (Mineralogy), XVI, a 410
Orpiri, town (Caucasus), V, a 221; (Transcaucasia), XXIII, a 547
Orrery, earls of (Boyle), IV, a 166, b 167–8
——, astronomical machine (Boyle), IV, a 166
Orreston Cave, V, b 232
Orrhoene, kingdom. See OSRHOENE
ORRIS-ROOT, XVIII, b 55; (Flag), IX, b 244; (Iris), XIII, a 282
Orseola, doge. See Urseola
Orsini, faction (Alexander VI.), I, a 431, a b 432; (Rome), XX, a 814, *b* 815, *a* 816, a 817, b 821, *a* 822, *a* 823, a 824
ORSINI, FELICE, revolutionist, XVIII, b 55–6; (France), IX, b 549; (Napoleon III.), XVII, b 234; (Palmerston), XVIII, a 201
——, Giovanni Antonio, prince (Brindisi), IV, a 313
——, popes. See BENEDICT XIII. and CELESTINE III.
Orsino, Cardinal (Alexander VI.), I, a b 431, b 432
ORSK, town, XVIII, a 56
Ort in Weights and Measures, XXIV, a 518
Ortalis, bird (Guan), XI, *a* 206
Orteler Spitze, mountain (Austria), III, b 100
ORTELIUS or Ortell, Abraham, geographer, XVIII, a 56; (Mercator), XVI, b 34
Ortes, Giamaria, publicist (Political Economy), XIX, a b 376
Ortgies, Hermann, editor (Newspapers), XVII, b 439
Orthagoras, tyrant (Greece), XI, b 85
Orthagoridæ, dynasty (Sicyon), XXII, a *b* 37
Orthagoriscus, genus (Ichthyology) (Ill.), XII, a 672, a 688, b 701, a 702, b 733; (Sun-Fish), XXII, a b 693
Orthesina, genus (Brachiopoda), IV, b 171, a 177
Orthez, town (Pyrénées), XX, b 132, a 133
Orthite (Mineralogy), XVI, a-b 427
Orthoclase (Geology), X, a 203, b 207–9; (Granite), XI, b 43, a b 44; (Mineralogy) (Ill.), XVI, a 375, *a* 378, *a* 380, b 384, a 393, b 436, a b 437; porphyry (Geology), X, a b 209
Orthodox Church (Bishop), III, a 684; (Greek Church), XI, a 138, b 140, a 142; (Russia), XXI, a 78
Orthodox Confession (Mogilas), XVI, b 567
Orthodoxy (Isaiah), XIII, a b 393; early Catholic (Jesus Christ), XIII, b 681, a 682; Mohammedan, XVI, b 587
Orthogonal stresses and strains (Elasticity), VII, a b 712
Orthographiæ Ratio (Manutius), XV, b 521
Orthographic Projection, XIX, b 818; (Geography), X, b 179, b 180–1
Orthonectida, group (Parasitism), XVIII, b 263
ORTHONYX, genus of birds, XVIII, a 56
Ortho-phosphoric acid (Phosphorus), XVIII, a 830, b 831–2
Orthoptera, order (Dragon-Fly), VII, b 333; (Insects), XIII, a 154, b 158–9; (Locust), XIV, b 771
Orthorhapha, group (Diptera), VII, *b* 222 3
Orthorhynchus, genus (Birds), III, a 650
Orthoscopic effect (Microscope), XVI, a 284, a 285
Orthostadios, dress (Costume), VI, b 401
Ortho-stannic acid (Tin), XXIII, a 429
Orthostichy (Botany) (Ill.), IV, a b 104
Orthotomic surfaces, XXII, a b 706
Orthotropic plant organs (Physiology), XIX, b 68–9
Orti Esperidi, opera (Metastasio), XVI, a 109
Ortis, Jacopo, student patriot (Foscolo, Ugo), IX, b 416
Ortis, Lettere di (Italy), XIII, b 523
ORTOLAN, bird, XVIII, b 56–7; (Bunting), IV, *b* 470; (Rail), XX, a 230
——, Joseph Louis Elzéar, jurist (Contraband), VI, b 285
Orton, town (Westmorland), XXIV, *b* 544
Orton, James, scientist (Ecuador), VII, a b 559, *a* 560, a 1, b 563
Ortospanum, town (Cabul), IV, b 554
Ortus Sanitatis (Ornithology), XVIII, b 7
Ortygia, island (Artemis), II, a 562; (Syracuse), XXII, b 852, *a b* 853, *a* 855, a *b* 856
Ortygometra, genus (Crake), VI, a b 481; (Rail), XX, b 229
Ortyx, genus (Quail), XX, *b* 153
"Orukter Amphibolos," dredge (Steam-Engine), XXII, b 922

Oruro, department (Bolivia), IV, *a* 11, *b* 13, *a* 14, *a* 15

ORVIETO, town, XVIII, a 57; state (States of the Church) XXII, b 477

"Orville" (Horse), XII, a b 188, a 189

——, James Philippe d', critic (Reiske), XX, b 366, *a* 367

Orwell or Gipping, river (London), XIV, b 853; (Suffolk), XXII, a 654

Orycteropodidæ, family (Mammalia), XV, *a* b 387, a b 392

Orycteropus, genus (Aard-Vark), I, b 10; (Mammalia), XV, b 372, a b 392

ORYEKHOFF-ZUYEFF, village, XVIII, b 57

Oryeshek, town (St. Petersburg), XXI, *a* 204

Orygnale Cronykil of Scotlan (Wyntoun), XXIV, a 748

Oryza, genus (Grasses) (Ill.), XI, a 49, a b 50, b 52; (Rice), XX, a b 553

Oryzorictinæ, sub-family (Mammalia), XV, a 409

Osacca or Osaka, city. See OZAKA

Osages, tribes (Indians), XII, b 872; (Totemism), XXIII, a 497

Osai Tutu, king (Ashantee), II, a 595

Osar or Asar, ridges (Tver), XXIII, b 714

OSBORN, SHERARD, explorer, XVIII, b 57–8; (Geography), X, *b* 174, a b 175; (Polar Regions), XIX, a 333, *a* 334

Osborne, J. W., lithographer (Photography), XVIII, b 846

——, Sir Peter, governor (Temple), XXIII, a 187

Osborne House (Cowes), VI, a 472; (Cubitt, T.), b 604

Oscalcis, genus (Ape), II, a 143

Oscan Alphabet, I, *a* 537; dialect (Italy), XIII, a 455, a 506; (Latin Language), XIV, a b 327–8, b 329; (Romance Languages), XX, *b* 678, b 682; inscriptions, XVIII, b 58; (Pompeii), XIX, a 465

OSCANS or Opicans race, XVIII, a b 58; (Aborigines), I, a 53; (Campania), IV, a 665; (Italy), XIII, b 453, b 454–5; (Nola), XVII, *b* 545

Oscar I., king (Sweden), XXII, a 791

—— II., king (Sweden), XXII, b 791, b 796

Oscarella, genus (Sponges) (Ill.), XXII, a 430, b 435, b 436, a 439, *a* 440, a b 441, b 442, *b* 443

Oscarellidæ, family (Sponges), XXII, a 439

Oscillating engine defined (Steam-Engine), XXII, b 536; marine engines (Steam-Engine), a 543

Oscillation (Mechanics), XV, a 712–3; centre of (Clocks), VI, b 14–5, a 16; of light (Mechanics), XV, b 719; of plane (Magnetism), a 276; simplest type of (Mechanics), a 693; in Waves, XXIV, a 441–2

Oscillations, Electric, VIII, a b 77; of form (Constitution of Bodies), VI, a 278–9; long period (Tides), XXIII, b 383–4, b 386, a 388, a 391; in shipbuilding, XXI, a b 850

Oscillatoria Adansonia, animal, I, b 133

Oscines, group (Ornithology), XVIII, b 31, a b 32, b 33, a b 34, note, b 41, a 44, a 45, a b 51, a b 52

Oscinis vastator, fly (Wheat), XXIV, a 565

Osculating curves (Infinitesimal Calculus), XIII, b 29; plane (Mechanics), XV, *b* 686

Oscule, organ (Sponges), XXII, b 431

Osella, medal (Numismatics), XVII, b 675

Osero, island (Cherso), V, a b 509

Oshatz, mountains (Saxony), XXI, b 372

Oshima, island (Japan), XIII, a 578, a 580; (Lew-Chew Islands), XIV, *b* 489, *a* 490

Oshiukaidô, highway (Japan), XIII, a 586

OSHKOSH, city, XVIII, b 58

Oshun, river (Yoruba), XXIV, *a* 792

OSIANDER, Andreas, reformer, XVIII, b 58–9; (Chemnitz), V, a 504; (Cranmer), VI, a b 486; (Lutherans), XV, b 86

Osianderites, sect (Reformation), XX, b 348

Osiers (Arboriculture), II, a 279; (Basket), III, *a* 365; (Willow), XXIV, b 620–1

Os innominatum (Anatomy), I, a b 726, a 730, b 737; (Ape), II, a b 142; (Mammalia), XV, a 363

Osiride order (Architecture), II, a 343

Osiris or Hesiri, god (Anubis), II, *b* 128; (Apis), a b 152; (Busiris), IV, a 514; (Drama), VII, a 349; (Egypt), a b 619, *a b* 620, note, a *b* 621, a 673, b 679; (Mythology), XVII, b 157, *a b* 158; (Serapis), XXI, b 706, a 707. See APIS

Osius, bishop. See HOSIUS

OSKALOOSA, city, XVIII, a 59

Osler's Anemometer, II, b 23, a 24

OSMAN I., Ghâzni, sultan, XVIII, a 59

Osman or Othman I., sultan (Asia), II, b 611; (Turkey), XXIII, a 681–2

OSMAN II., sultan, XVIII, a 59; (Turkey), XXIII, a 686

—— Bey El-Bardeesee (Egypt), VII, *a b* 660, a 661, a b 662. See Othman

Osman, epic (Servia), XXI, a 723

'Osmánlis, race (Turks), XXIII, b 700; dialect (Turks), a b 704; (Ural Altaic), XXIV, a b 5, *a b* 6, a 7; divisions of (Turks), XXIII, b 703; rise of the (Turkey), b 681. See Ottoman, Turks

Osman Pasha (Ural Altaic), XXIV, b 371–2

Osmerus, genus (Salmonidæ), XXI, b 231, a 232, a 234, a 236

Osmiridium (Mineralogy) (Ill.), XVI, b 398–9; (Platinum), XIX, *a* b 204, b 205

Osmium, metal (Chemistry), V, a 465–6; (Mineralogy), XVI, a 410; (Platinum), XIX, *b* 203, a b 204, a b 205; (Ural Mountains), XXIV, a 10

Osmosis, process (Physiology), XIX, b 51, b 52, *a* 53, b 54

Osmund, St., of Salisbury, bishop (Liturgy), XIV, b 715

—— furnace (Iron), XIII, a 304

Osmunda, fern (Biology), III, a b 601; (Tree-Fern), XXIII, a 568

Osmundaceæ, family (Ferns) IX, a 92

OSNABRUCK, town, XVIII, a b 59; (Hanover), XI, a *b* 399

OSORIO, Geronymo, ecclesiastic, XVIII, b 59

Osorno, volcano (Chili), V, *b* 535

Ospedale del Ceppo, building (Pistoia), XIX, a 141

Os penis (Mammalia), XV, b 370

Osphradium, olfactory organ (Mollusca), XVI, b 658, a 660, b 678

OSPREY, bird, XVIII, b 59–60; (Griffin), XI, a 174

OSRHOENE or Orrhoene, district, XVIII, b 60; (Mesopotamia), XVI, b 52; kings of (Edessa), VII, b 566

Osric, king of Deira (Northumberland), XVII, a 583

Ossa, mountain of Elis (Olympia), XVII, a 787

——, mountain (Thessaly), XXIII, b 319

Os sacrum (Mammalia), XV, b 360

Ossau, mountain (Pyrénées), XX, b 132

Osseine, chemical substance (Phosphorus), XVIII, a 828

—— tissue (Anatomy), I, a 719–30, a 749–52

Ossetes, tribes (Caucasus), V, a b 224; (Dictionary), VII, a 165; (Persia), XVIII, a 668

Ossétr, fish (Sturgeon), XXII, b 644

Ossett - cum - Gawthorpe, township, XVIII, b 60

Ossian, warrior poet (Fenians), IX, a *b* 66

Ossian, Poems of (Celtic Literature), V, a b 272; (Cesarotti), a 310; (Fingal), IX, a 187; (Homer), XII, a 119

Ossianic poetry (Gaelic), X, a b 9, a b 13; (Lismore), XIV, b 700

Ossifrage, genus (Lämmergeyer), XIV, b 244; (Osprey), XVIII, b 59

Ossola, Val d' (Switzerland), XXII, a *b* 824

OSSOLI, Sarah Margaret Fuller, author, XVIII, b 60–1; (American Literature), I, b 635

Ossory, James Butler, earl of (Ormonde), XVII, a b 880

Ossoyoos, lake (Washington Territory), XXIV, a b 407

Ossuaria, funeral receptacles (London), XIV, *a* 851

OSTADE, Adrian, painter, XVIII, a 61–2

OSTADE, Isaac, painter, XVIII, b 62–3

OSTASHKOFF, town, XVIII, b 63; (Tver), XXIII, *a* 715

OSTEND, seaport (Plan), XVIII, b 63–4; siege of, 1601–4 (France), IX, a 499; (Holland), XII, a 81

—— company (India), XII, a 839

—— conference, 1854 (Buchanan, James), IV, b 371; (United States), XXIII, b 819

Osteoblastic process in tumors (Pathology), XVIII, b 377–8

Osteo-blasts (Anatomy), I, *b* 750, *a b* 751; in fracture (Pathology), XVIII, b 372, a 373; in rickets (Pathology), a b 380–1

Osteocranium of menobranchus (Amphibia), I, b 664

Osteodentine (Digestive Organs), VII, a 204

Osteoglossidæ, family (Ichthyology), XII, b 711, a 712, b 732

Osteoglossum, genus (Ichthyology), XII, *a* 713, a 725, b 732

Osteoid tumors (Pathology) (Ill.), XVIII, b 377–8

Osteo-klasts (Anatomy), I, a 752

Osteology (Anatomy), I, b 703, b 704, b 709; (Ichthyology), XII, b 671, a 677–86; (Ornithology), XVIII, a 36, a b 37; (Reptiles) (Ill.), XX, a 451, b 458–68, a 478; comparative (Oken), XVII, a 773

Osteoma, bone-tumor (Pathology), XVIII, b 377

Osteomalacia, disease (Pathology), XVIII, a 396, b 381–2

Osteomyelitis, disease (Surgery), XXII, b 719

Osteophyte (Insanity), XIII, a 109

Oster, river (Niezhin), XVII, b 509

Ostergötland, province (Sweden), XXII, a 775, a b 776, a 778, b 780

Osterland, district (Saxony), XXI, b 368, a 369

Ostern, Balthazar, bibliographer, III, a 571

Osternburg, village (Oldenburg), XVII, a 780

Osterö, island (Faroe Islands), IX, *a* 36

OSTERVALD, Jean Frederic, theologian, XVIII, a b 64

Ostgaard, Nicolai Ramm, novelist (Norway), XVII, a 606

Ostheim, exclave (Saxe-Weimar), XXI, *b* 364

Osthoff, philologist (Philology), XVIII, b 801 note, a 802

OSTIA, city, XVIII, b 64; (Geology), X, a 247, note; (Pozzuoli), XIX, b 671

OSTIAKS, tribe, XVIII, a 65; (Oath), XVII, a 718; (Tobolsk), XXIII, a 458; (Tomsk), b 466; Dictionary of, VII, a 167; language of (Ural Altaic), XXIV, a 5, a b 6
Ostiak-Samoyedes, people, XXI, b 263, *a* 264
Ostiole (Lichens), XIV, a 558
Ostitis, rarefying (Surgery), XXII, b 719
Ostracea, family (Mollusca), XVI, a 711
Ostracion, fish (Ichthyology) (Ill.), XII, b 701, a 704, b 733
OSTRACISM, political device, XVIII, b 65; (Aristides), II, b 444; (Greece), XI, a 88; (Pericles), XVIII, b 541, note, b 542; (Themistocles), XXIII, b 269, b 270
Ostracoda, order (Crustacea) (Ill.), VI, b 575, a 579, b 587, b 589
Ostraka (Palæography), XVIII, a 148, a 153
Ostrea, genus (Oyster), XVIII, a 110–1
Ostreich, margraviate (Austria), III, a 108
OSTRICH, bird (Ill.), XVIII, b 65–7; (Africa), I, b 232; (Arabia), II, a 212; (Birds), III, b 625, a 626, b 627, b 633, a 640, a b 657, note, b 658, b 671 note; (Cape Colony), V, a b 40; (Egg), VII, b 604; (Hunting), XII, a 412; (Ornithology), XVIII, b 25, b 28; (Rhea), XX, b 519; farming (Feathers), IX, b 53–4
Ostrich in Heraldry, XI, a b 625
Ostroff, town (Pskoff), XX, *a* 41; (Prison Discipline), XIX, b 781, a 782
Ostrogojsk, town (Korotoyak), XIV, a 143
Ostro-Goths, X, *b* 753–6; (Belisarius), III, *b* 462; (Huns), XII, a b 396; (Justinian I.), XIII, b 806; (Theodosius I.), XXIII, a b 277, a 278
Ostrovsky, Alexander N., dramatist (Drama), VII, a 384; (Moscow), XVI, b 886
OSTUNI, city, XVIII, a 67
Ost-Vaagõ, island (Lofoten and Vesteraalen), XIV, b 775, *a* 776
Ostyaks, tribe. See Ostiaks
OSUNA, town, XVIII, a 67
——, Don Pedro Tellez y Giron, duke of, statesman (Masaniello), XV, a b 613; (Quevedo Villegas), XX, a b 185
Os uncinatum, bone (Touraco), XXIII, b 518–9
OSWALD, king of Northumbria, XVIII, a b 67; (Oswestry), a 68; (England), VIII, b 251; (Northumberland, XVII, a b 583; (Scotland), XXI, a 498
——, archbishop, XVIII, b 67; (Worcester), XXIV, b 701
OSWALDTWISTLE, township, XVIII, b 67
OSWEGO, city, XVIII, b 67–8
—— river, XVIII, b 67; (St. Lawrence), XXI, *b* 189
Osweicim, town. See ANSCHWITZ
OSWESTRY, town, XVIII, a 68; (Shropshire), XXI, *a* *b* 887
Oswin, king of Deira (Tynemouth), XXIII, a 718
Oswulf, earl (Northumberland), XVII, b 584
Oswy, king of Northumbria (Hilda), XI, a 727; (Northumberland), XVII, b 583; (Scotland), XXI, *a* 498; (Whitby), XXIV, *a* 580; (Wilfrid), a b 597
Osymandyas, king, Egypt (Libraries), XIV, b 509
Osyut, town. See SIUT
Ota Dokwan, general (Tokio), XXIII, a 462
Otago, district (Dunedin), VII, b 467
Otaheiti, island. See TAHITI
Otamish, tribe (Merv), XVI, a 48
Otaria, genus (Mammalia) (Ill.), XV, a 397, b 449–50; (Seal), XXI, a b 607
Otavalo, town (Ecuador), VII, b 562, b 563
'Otbi, historian (Tabarí), XXIII, b 8
Otchakoff, siege (Potemkin), XIX, b 615
Otfrid or Otfried of Weissenburg, poet (Germany), X, a 463 note, a 468
Othello, Shakespeare's play (Giraldi), X, b 553; (Poetry), XIX, b 277; (Shakespeare), XXI, a 794, *b* 800, a 805; (Vigny), XXIV, b 243, *a* 244
Other, explorer (Polar Regions), XIX, a 328
Othiyyoth de-Rabbi 'Akibah (Midrash), XVI, b 298
Othman. See Osman
Othman, caliph (Arabia), II, *b* 225; (Mohammedanism), XVI, a b 586, a 587; his *Koran*, b 626
——, emir (Greece), XI, b 107
—— ben Otba (Mohammedanism), XVI, a 592
—— dan Fodio, emperor (Sokoto), XXII, a 262
OTHO or Otto I. the Great, German emperor, XVIII, b 69; (Empire), VIII, *a* 166; (Germany), X, b 433–5; (Hungary), XII, b 382; (Italy), XIII, b 479–80; (John XII. and XIII., Popes), *a* 722; (Leo VIII.), XIV, a 450; (Lorraine), XV, a 7; (Popedom), XIX, b 511; (Rome), XX, a b 806–7
OTHO II., German emperor, XVIII, b 69–70; (Germany), X, b 435–6; (Italy), XIII, *b* 480
OTHO III., German emperor, XVIII, a 70; (Germany), X, a b 436; (Italy), XIII, b 480; (John XV. and XVI., Popes), *a* b 722; (Poland), XIX, a 298; (Popedom), a 512; (Rome), XX, b 802, b 807–8; (Silvester), XXII, *a* b 82
OTHO IV., German emperor, XVIII, a b 70; (Germany), X, b 440; (Innocent III.), XIII, a b 90
—— of Bavaria, king of Greece, XI, *a* 112; (Hess, Peter), b 695, a 696; (Hungary), XII, a 383; (Ionian Islands), XIII, a 213
——, cardinal (Edmund, St.), VII, a 580; (Enzio), VIII, b 404
——, count of Savoy, XXI, b 354
OTHO of Freising, historian, XVIII, b 70; (Frederick I., Emperor), IX, a 643; (Pastoral Epistles), XVIII, b 354, a b 355; (Prester John), XIX, a 734; (Scholasticism), XXI, a 443, a 444
OTHO, Marcus Salvius, Roman emperor, XVIII, b 68–9
——, Valentine, mathematician (Tables), XXIII, a 13
Othrys, mountains (Greece), XI, a 74, b 75
Otia Imperialia (Gervase), X, *b* 493
Otic ganglion (Anatomy), I, *a* 775, a 776
Otididæ, family (Bustard), IV, *b* 515–6; (Ornithology), XVIII, b 45, a b 49
Otingpui, British sack of (Swatow), XXII, a 772
Otiorhynchus, weevil (Vine), XXIV, b 256
OTIS, James, statesman, XVIII, b 70–1; (American Literature), I, a 633; (Massachusetts), XV, b 622; (United States), XXIII, a 784
Otitis or ear-ache (Ear), VII, a 514
OTLEY, town, XVIII, a–b 71
Otocorys, genus (Birds), III, b 647; (Lark), XIV, b 316–7
Otocyon, genus (Mammalia), XV, b 445
Otocysts (Mollusca), XVI, b 659; of cyclas (Mollusca) (Ill.), b 718, a 720; of dibranchiata (Mollusca), b 705; of medusa (Hydrozoa) (Ill.), XII, a b 584, b 595; of nautilus (Mollusca), XVI, b 705
Otoes, tribes (Indians), XII, b 872
O-to-le, town (China), V, a 564
Otolith (Anatomy), I, b 784; (Hydrozoa), XII, b 584, b 596; (Ichthyology) (Ill.), b 690–1; (Mollusca), XVI, b 705, b 718
Otomi, race (Dictionary), VII, a 168; (Indians), XII, b 863, a 868; (Mexico), XVI, a b 215 note, b 898
Otonycteris, classification (Mammalia), XV, a 415
Otorrhœa, disease (Ear), VII, a 514
Otrantine dialect (Italy), XIII, b 505
OTRANTO, city, XVIII, b 71
——, Joseph Fouché, duke of. See FOUCHÉ
Otrar, city (Jenghiz), XIII, b 632
Otrepieff, usurper (Poland), XIX, b 305
Otric of Saxony, teacher (Silvester), XXII, b 81
Otricoli, town (Basilica), III, a 357
Ott, Auguste, publicist (Buchez), IV, a 373
Ottar, Northman (Lapland), XIV, b 307
Ottare or Otari, people (Cherokees), V, b 508
Ottava rima, metre (Boccaccio), III, a 733
OTTAWA, city, Canada (Plan), XVIII, b 71–2; Libraries), XIV, b 533, b 552; lumber (Canada), IV, a *b* 683, a 684
——, Illinois, XVIII, b 72
—— river (Quebec), XX, *b* 171, a 172; (St. Lawrence), XXI, a b 190
Ottawas, tribes (Indians), XII, b 871
OTTENSEN, town, XVIII, b 72; (Hamburg), XI, a b 361, b 364
OTTER, animal (Ill.), XVIII, b 72–3; (Fur), IX, a 736, a 737; Hunting, XII, a 330, b 411; mythical (Nibelungenlied), XVII, b 487
——, mountains (United States), XXIII, b 844
——, river (Devonshire), VII, a 121
Otterbein, Philip William, bishop (United Brethren), XXIII, b 774, a 951
Otterburn, battle of, 1388 (Scotland), XXI, b 512
Otteren, river (Norway), XVII, b 589
Ottewill's camera (Photography) (Ill.), XVIII, b 853
Ottinger, Douglass, inventor (Lifeboat), XIV, a 577
Ottley, William Young, antiquary (Typography), XXIII, a b 737, b 741
Otto. See OTHO
—— I., Brandenburg, elector (Prussia), XX, a 7
—— I., Saxony, duke (Germany), X, *b* 432; (Saxony), XXI, b 367
—— II., Bavaria, duke (Germany), X, a 440, a 442; (Henry IV., Emperor), XI, a 595
—— the Rich, count of Meissen (Saxony), XXI, b 368
Ottoboni. See Pope Alexander VIII.
OTTOCAR, II. of Bohemia, king (Germany), X, b 442; (Rudolph I.), XXI, a 59
—— of Bohemia, duke (Austria), III, b 108
Ottocar's Fortune and End (Grillparzer), XI, a b 175
Otto-engine (Steam-Engine) (Ill.), XXII, a 551–2, a 553
Ottoman conquest (Constantinople), VI, b 273, b 274–5; (Greece), XI, b 107–12; (Persia), XVIII, b 646–7; empire (Treaties), XXIII, b 565; sultanate (Sunnites), XXII, a b 696; receptive powers of the (Turkey), XXIII, a 698. See Osmanli, Turks
Otto Morena, chronicler (Frederick I., Emperor), IX, a 643
—— of roses. See ATTAR
Ottowald mountains (Saxe-Weimar), XXI, a 365
Ottrelite (Mineralogy), XVI, a 431
OTTUMWA, city, XVIII, b 73
Otuke, race (Indians), XII, a 865
Otus, giant (Aloidæ), I, b 525; and Ephialtes, legend (Ares), II, a 427

OTWAY, Thomas, poet, XVIII, b 73-4; (Drama), VII, a b 376
—— water (Andes), II, b 16; (Patagonia), XVIII, b 357
Otyimbinde, village (Hereroland), XI, b 654
Ouachita, river (Louisiana), XV, *b* 21, a b 22
Ouchy, port (Lausanne),XIV, b 350
Oudaen, Joachim, poet (Holland), XII, a 99
Oudart, Paul Louis, naturalist (Ornithology), XVIII, b 16, a 17
OUDENARDE, town, XVIII, b 74
Oudewater, town(Arminius), II, b 483
OUDH or Oude, province, XVIII, b 74–7
    agriculture, b 75–6
    business and administration, a b 76
    climate, a 75
    history, b 76–7
    physical aspects, b 74
    population, b 75
—— (Canning), IV, a 716; (Clive), VI, b 9, *a* 12; (Dalhousie), a b 685, b 686; (Hastings), XI, *a* 459, *a* 460; (India), XII, b 777, a b 782, note, a b 783, a b 784, b 785, a 786, a 793, b 797, a 799, a 808, b 810–11; acquisition of (India), XII, b 848, a 849; avifauna of (Birds), III, b 661; dialect of (Hindustani Literature), XI, b 757; nawábs wazír of (India), XII, *a b* 841, b 848
OUDINOT, Charles Nicolas, marshal, XVII, b 77; (Pius IX.), XIX, b 167
Oudney, Dr., explorer (Clapperton), V, a 700
Oudo, state (Yoruba), XXIV, *a* b 792
Oudon, river (Mayence),XV, a 655
Oughterard, village (Galway), X, a *b* 51, *a* 52
OUGHTRED, William, mathematician, XVIII,, b 77–8; (Algebra), I, a 454
Ouigours, race (China), V, *a* b 561
Ou-kio river (Tibet),XXIII, b 362
Oulimad, tribes (Africa), I, a 234
Oulopholites, crystals (Mammoth Cave), XV, a b 456
Oulx dialect (Italy), XIII, b 502
Ounalaska(Aleutian Islands) I, b 424
Ounce, genus (Mammalia), XV, a 441
—— in Weights and Measures, XXIV, a 518; Saxon and Norman, XXIV,a 516
Ouphlis, chief (Georgia), X, a 388
Ouplytz-tzykhe,town (Gori), X, b 698
Ourcq canal (Paris), XVIII, a 285, a b 291; (Seine-et-Marne), XXI, b 655, *a* 656
Ourisia, plants (Horticulture), XII, b 259
Ourga, town. See URGA
Our Lady of the Snow (Murillo), XVII, a 62
Our Mutual Friend (Dickens), VII, a 153, b 154
Ourique. See Orik
Ouroumiyah, town. See URMIA
OURO PRETO, city, XVIII, a 78; (Brazil), IV, b 200, b 201, a 202, b 210, b 212, b 214
Ourosh Bela, king (Servia), XXI, a 721
Ourthe river (Luxemburg), XV, a 90
Our Village (Mitford), XVI, a b 553
Ouse river (Bedfordshire), III, *a* 417; (Cambridge), IV, a *b* 643; (Huntingdon), XII, *b* 412, a 413; (Norfolk),XVII, *b* 549; (Northampton), a 569
——, river (Sussex), XXII, *a* 761
——, river (York), XXIV, a *b* 784, b 787
——, Little or Brandon,river (Suffolk), XXII, a 654
OUSEL, bird (Ill.), XVIII, a 78-9
Ouseley, Sir F. A. G., musician (Music), XVII, a 101
——, Sir Gore, diplomatist, XVIII, a 79; (Persia), b 659, b 660
OUSELEY, Sir William, orientalist, XVIII, a 79; (Isocrates), XIII, a 404; (Persepolis), XVIII, b 569 notes, a 571 note, a 572; (Persia), a 673
Oust,river (Morbihan), XVI, a 839
Oustitis. See MARMOSETS
Outcrop of rocks (Geology), X, a *b* 264, b 265
Outdoor relief (Poor Laws), XIX, a 490, a b 491, b 493, a 494
Outeniqua, mountains (Cape Colony), V, a 38, b 39
Outfangthef, franchise (Theft), XXIII, a 251
Outfall in drainage (Agriculture), I, a 295, a 297
OUTLAW, XVIII, b 79; (Burmah), IV, b 494; (Romance),XX, a b 675, b 676; (Roman Law), b 687
Outlet pipes (Water Supply), XXIV, b 429-30
Outlines of Human Physiology (Stereoscope), XXII, b 565
Outposts, guards (War), XXIV, b 365, b 383
OUTRAM, Sir James, general, XVIII, b 79–80; (Ellenborough), VIII, a 137; (India), XII, b 848; (Napier, C. J.), XVII, a 183; (Persia), XVIII, a b 664, note
Outremer, Livre d' (William of Tyre), XXIV, a 616
Outriggers (Rowing), XXI, b 36–7
OutriggerTorpedoes,XXIII, a 480
Outworks (Fortification) (Plate IV), IX, a 395
Ouzbeks, race. See Usbegs
Ouvarovite, mineral (Garnet), X, *a* 74
Ova or ovum. See Egg and Oology
—— (Actinozoa), I, b 120, a 122; (Anatomy), b 740–1, a 728; (Harvey), XI, b 451–2; (Ichthyology), XII, a 698–700; (Planarians), XIX, a 184; (Reproduction), XX, b 419, a *b* 420, a b 422–3, a b 425-31; (Reptiles), a b 477; (Rotifera), XXI, b 11; (Sponges)(Ill.), XXII, a *b* 441-2; (Zoology), XXIV, b 855; of entozoa (Parasitism), XVIII, b 266; cycle of (Morphology), XVI, a 870; discovery in mammals of (Embryology), VIII, b 152; fertilization of (Pisciculture), XIX, b 136-7; of metazoa (Animal Kingdom), I, b 46; theory of (Reproduction), XX, b 432
Oval, park (London), XIV, b 833
Ovals (Curve), VI, b 633, a b 638, a 639
Ovando, Nicolo, governor (Bahamas), III, b 204; (Columbus), VI, *a b* 157; (Cortes), b 390; (Slavery), XXII, *a* 146
OVAR, town, XVIII, a 80
Ovarian arteries (Anatomy), I, a 793; Dropsy, VII, a 408; tumor (Pathology), XVIII, b 378, a b 379
Ovaries (Botany) (Ill.), IV, *b* 114, b 127–30; (Grasses), XI, a 51; (Hymenoptera), XII, a 610; (Insects),XIII, b 152; (Mammalia), XV, 370; (Mollusca) (Ill.), XVI, a 666; (Reptiles), XX, b 476; (Reproduction), b 419, a *b* 420, *a b* 421, *b* 425; (Worm), XXIV, b 717
Ovariotomy(Surgery),XXII, a b 726
OVATION, XVIII, a 80
OVEN, XVIII, a 80; (Baking), III, a 218, a 219, b 222; (Coke) (Ill.), VI, a 108–9; (Cookery), b 295; (Furnace), IX, a 738
Oven-birds (Wren), XXIV, a b 724, note
Ovenus, Johannes. See OWEN, John
Overall, John, bishop (Casaubon), V, a 152; (Catechism), a 192; (England, Church of), VIII, a 340; (English Bible), b 347, a 348
Overbeck, orientalist (Acts of the Apostles), I, b 118, a 119; (Syriac Literature), XXII, a 868, a b 869, note, a 870, *b* 872 note
——, Baron von, maharaja (Sabah), XXI, b 132
——, Johann Adolf, scholar (Archæology), II, b 300, a 302, a 305, *a* 307, *a* b 308; (Hera), XI, *b* 606
——, Johann Friedrich, painter, XVIII, a 80–1; (Cornelius), VI, a b 374, note; (Schools of Painting), XXI, b 457, b 463
Over-Bridge, English, IV, a 254
Overbury, Sir Thomas, murder of (Somerset), XXII, b 273
OVER-DARWEN, borough, XVIII, a 81
—— de Linden, Cornelis, forger (Frisians), IX, b 693
Overfall weirs (River Navigation) (Ill.), XX, b 588–9
Overhand knot (Seamanship) (Ill,), XXI, a 618
—— stroke (Swimming), XXII, a b 808
Over-Insurance, marine, XIII, a b 191
Overlap of strata (Geology), X, a 262
Overlook, mountain (Catskill), V, a 211
Overproduction, Say on (Political Economy), XIX, a 396
Over-reach (Horse), XII, b 199
Overseers of poor (Poor Laws), XIX, a 480, b 481, b 483, b 484, a 485, a b 488
Overshoes (India-Rubber), XII, a 883
Overshot wheel (Hydromechanics), XII, a 553–4
Overskou, Thomas, dramatist (Denmark), VII, a 82
Oversman or Scotch umpire (Arbitration), II, b 273–4
Overstone, Samuel Jones Lloyd, lord, banker (Price), XIX, a 741 note
Over-Tides, XXIII, b 385, b 389
Overtones (Acoustics), I, *b* 104, b 106, a 107, a 111
Overton plot (Monk), XVI, a 779
Overture (Music), XVII, b 94, note, *b* 102
Overy, William, squire (Ireland), XIII, b 267
OVERYSSEL or Overlissel, province, XVIII, a b 81; (Holland), XII, a 62, *a b* 64, *a* 65, a 66, *a* b 67, a 68, a b 69, a *b* 70, a b 71, a 73, b 76, b 79, a *b* 81, a 87, a 89
Ovibos moschatus, species (Musk-Ox) (Ill.), XVII, a b 115
OVID, Publius Naso, poet, XVIII, b 81–7
    disgrace and exile, b 83–4
    erotic adventures and writings, b 82–3
    literary companions and travels, a b 82
    relation to literature, b 86–7
    school of art, a b 86
    temperament, b 84–6
    vivacity, b 85–6
    youthful environment, b 81–2
—— (Adam), I, a 126, a 127; (Age), *a* 249; (Augustus), III, b 72–3; (Fasti), IX, b 39; (Festivals), a 101; (June), XIII, b 783; (Latin Language), XIV, a b 336; (Propertius), XIX, a b 834, b 835; (Roman Literature), XX, a b 743, *a* 744; (Shakespeare), XXI, *a* 788; (Tibullus), XXIII, a *b* 372
Ovida, count (Odoacer), XVII, b 747
Oviduct (Mammalia), XV, b 370-1; (Mollusca), XVI, a 708; of Reptiles, XX, b 476; of sepia (Mollusca), XVI, a 694; of Worms, XXIV, a 718
Oviedo, kingdom (Spain), XXII, a b 326, b 327; province (Asturias), II, b 721, *a* 722; (Spain), XXII, a 308, a 311, b 312, b 314, *b* 315, b 318
OVIEDO, city, XVIII, b 87–8

OVIEDO Y VALDEZ, Gonzalo Fernandez de, historian, XVIII, a 88; (Humming-Bird), XII, *a* 371, note; (Toucan), XXIII, b 506; (Turkey), b 609, note
Ovifak, Greenland (Meteor), XVI, a 118
Ovipositor, organ (Coleoptera), VI, a 116; (Hymenoptera), XII, b 605, b 607–8, a *b* 610; (Ichneumon-Fly), b 666
Ovis, mammal (Sheep), XXI, b 820, b 821
Ovists, school of naturalists (Zoology), XXIV, b 854
Ovoca, river (Wicklow), XXIV, b 588. See Avoca
Ovolo, moulding (Architecture) (Plate XIII), II, *a* 358, b 366
Ovraghi, cañons (Russia), XXI, b 82
Ovrutch, town (Volhynia), XXIV, *b* 302
Ovule (Botany) (Ill.), IV, b 114, b 131–3; (Reproduction), XX, a 437, a 441
Ovulum, genus (Mollusca) (Ill.), XVI, a 673, b 674
Ovum. See Ova
Owain and Gherain (Arthur), II, a 569
Owain Kyveilwg or Civeiloq, poet (Celtic Literature), V, b 277
Owari or Awerri, town (Benin), III, b 494–5; (Nagoya), XVII, a 171
OWEGO, town, XVIII, b 88
Owen, An, antiquary (Salic Law), XXI, a b 227, note
—— the Bald, Cumbrian king (Scotland), XXI, *a* 502
——, David D., geologist (Arkansas), II, *a* 474
OWEN, John, theologian, XVIII, b 88-90; (Independents), XII, a 766; (Presbyterianism), XIX, a b 709
OWEN, JOHN, epigrammatist, XVIII, b 88; (Epigrams), VIII, b 424
——, Sir Richard, anatomist (Amphibia), I, a 658; (Anatomy), a *b* 729; (Anthropology), II, b 95, a 96; (Ape), *a* 130, b 145, b 148; (Arthropoda), a b 566; (Birds), III, b 623 note, b 625 note, a b 628 notes, a 634; (Brachiopoda), IV, a 171, b 172, b 173, b 174; (Crustacea), VI, a 560, note, a b 562, a 564, b 565, a 574, b 578 note; (Gare-Fowl), X, a b 71 note, a 72; (Horn), XII, a 171; (Hunter, J.), b 403 note 6, a 404 note 2, a 406 note 1; (Ichthyosaurus), *a* b 734; (Ivory), XIII, b 532, b 534; (Kiwi), XIV, b 107; (Mammalia), XV, b 355, a 372, *b* 377, *b* 378, a 379, note, a 388, b 394, a 399, a 433, a 451; (Mollusca), XVI, a 655; (Moorhen), a 835, note; (Morphology), a 866, b 871; (Oken), XVII, *a* b 773; (Ornithology), XVIII, b 24 note, b 28 note, b 37, a 38, a 47; (Radiata), XX, a 219; (Reptiles), b 450–1; (Toucan), XXIII, a b 507; (Touch), b 508, *b* 509; (Zoology), XXIV, b 846-7
OWEN, Robert, socialist, XVIII, a 90-2; (Communism), VI, b 188, a b 190, b 191, a 195; (Cotton, VI, b 445; (Socialism), XXII, a 216, b 217, *a b* 219, a 220, a 221, b 222, a b 229
——, Robert Dale, spiritualist, XVIII, b 91 note; (Apparitions), II, b 181
——, W. F. W., captain, navigator (Delagoa), VII, *b* 36
Owenkillew, river (Tyrone), XXIII, b 759
OWENSBOROUGH, city, XVIII, a 92
Owens College (Manchester), XV, b 469, a b 470; (Technical Education), XXIII, a 117
—— lake (California), IV, b 618, *a* 619; (Crustacea), VI, a 587, note; river (California), IV, b 618, a 619; valley (California), a 618, *a* 621; (United States), XXIII, b 850
Owen Stanley, mountains (New Guinea), XVII, b 396
Ower shoals (Tides), XXIII, a 398
OWL, bird (Ill.), XVIII, a 92-4
  anatomical characteristics, a b 93
  nomenclature, b 92–3
  order and its arrangement, a b 92
  typical specimens, b 93–4
—— (Birds), III, a 617, a b 618, b 627, *b* 633, a 634, b 635, b 643, a 644, b 648, a 651, a b 672; (Ornithology), XVIII, b 50, a 51, note; (Zoology), XXIV, b 923
—— -pigeon (Dove), VII, b 328
Owyhee mountains (United States), XXIII, a 849; river (Nevada), XVII, b 376
Ox, wild (India), XII, b 780–1; Zodiacal sign, XXIV, b 831. See Oxen
Oxa, Torben, warden (Dyyeke), VII, a 508
Oxæna, fossil (Mammalia), XV, a 449
Oxalates (Photography), XVIII, b 839, b 841; of lime, calculi (Vesical Diseases), XXIV, b 205
Oxaldines (Chemistry), V, b 492
OXALIC ACID, XVIII, b 94–6; (Chemistry), V, b 451, a b 495; (Gelatin), X, b 117; in plant growth (Physiology), XIX, a 59
Oxalis, plant (Botany), IV, a 102, *b* 122, b 124; (Horticulture), XII, b 297
Oxalite (Mineralogy), XVI, b 446
Ox-bird (Sandpiper), XXI, a 273
Oxen (Agriculture), I, b 260, b 344; (Cattle), V, *a* 213, *b* 214; (Commerce), VI, *b* 176; (Hissar), XII, a 4; (Madura), XV, b 194; (Roumania), XXI, a 25
Oxenford, John, dramatist (Schopenhauer), XXI, a 476
OXENSTIERNA, Axel, Count of, statesman, XVIII, a 96; (Christina), V, *a b* 610; (Gustavus II.), XI, a 298; (Sweden), XXII, a *b* 787, a 788
——, Johann Gabriel, poet (Sweden), XXII, a 795
Oxeye, bird (Titmouse), XXIII, b 446, note
OXFORD or OXON, county (Plate I), XVIII, b 93–8
OXFORD, city (Ill.), XVIII, a 98–103
  city buildings, b 101
  diocese and cathedral, b 101
  history, a 102-3
  university buildings, a 99–101
—— clay (Huntingdon), XII, b 412-3
—— down sheep (Agriculture), I, a 349
—— marbles. See ARUNDELIAN MARBLES
—— Observatory, XVII, a b 730; (Micrometer), XVI, b 257; (Photometry), XVIII, a b 856; (Telescope), XXIII, b 162–3
—— oolite group (Geology), X, a 314, b 315–6
——, provisions of, 1258 (England), VIII, b 279, a 284
—— *Tracts* (England, Church of), VIII, a 339
—— university (Academy), I, a 68; (Aldrich), I, b 420; (Bacon), III, a b 189; (Baliol), b 243; (Bodley), b 737; (Bruno), IV, b 359–60; (Colleges), VI, b 128, *a* 129; (Conington), a 254; (Costume), b 410–1; (Duns Scotus), VII, a 471; (Edmund, St.), a 580; (Fell), IX, a 59; (Fleming), a b 265; (Fox), a 443; (Gibbon), X, a *b* 513; (Gough), XI, b 4; (Grosseteste), b 187, *a* 188; (Hobbes), XII, b 33, a 34, b 38–9; (Johnson, S.), XIII, b 730, b 732; (Keble), XIV, b 26, a 27; (Libraries), a 518–9, b 545–6; (Methodism), XVI, a 192–3; (More, Sir T.), a 842, a 844; (Newspapers), XVII, a 433; (Penn), XVIII, b 502–3; (Rhetoric), XX, a 530; (Rowing), XXI, *b* 36; (Savile), b 342; (Southey), XXII, a 304; (Stanley), b 468; (Universities), XXIII, a b 893, a b 904, *b* 908–9, b 914; athletic training at (Dietetics), VII, b 176; early printing at (Typography), XXIII, b 733; *History of* (Wood, A.), XXIV, b 677, a 678
OXFORD, ROBERT HARLEY, 1st earl of, XVIII, a 103–4; (Anne), II, b 56–7; (Bolingbroke), IV, *b* 6, *a b* 7; (Carstares), V, *a* 123; (Defoe), VII, *a* 26; (Finance), IX, a 160; (Rowe), XXI, a 35; Harley, first earl of, statesman (Swift), XXII, *a b* 802, *a* 803
——, Robert Vere, earl of (Peerage), XVIII, a 475
Ox-gall (Jaundice), XIII, b 609
Oxhaveerite (Mineralogy), XVI, a 439
Ox hides (Leather), XIV, b 330, b 383, *a b* 391
Oxidation (Chemistry), V, b 416, a b 417, a 418, a 424; (Electricity), VIII, a b 87; (Nitrogen), XVII, b 529; (Nutrition), b 704–5; (Lavoisier), XIV, a 354; (Manganese), XV, b 488; in plant growth (Physiology), XIX, a b 58; prevention of (Iron), XIII, a 367; protection by (Iron), a b 367; of rocks (Geology), X, a 238
—— colors (Calico-Printing), IV, a 611–2; (Glass), X, a 594
"Oxide," purifier (Gas and Gas-Lighting), X, a b 86
—— reactions (Blowpipe), III, b 728, *a* 729
Oxides (Chemistry), V, a b 413, a 420-1, a 471; alkaline metals (Chemistry), a b 455; arsenic group (Chemistry), b 467, *a* 468–9; boron (Chemistry), a 451, a 454; (Cadmium) IV, b 558, a 559; (Carbon), V, a b 78; cerium (Lanthanum), XIV, *b* 291, a 292; cobalt (Pigments), XIX, b 97; copper (Chemistry), V, *a* b 459; crystallized (Sainte Clair Deville), XXI, b 174; didymium (Lanthanum), XIV, b 291–2; glucinum (Chemistry), V, a 454; haloid (Chemistry), b 427–30; iron group (Chemistry), *a b* 463; (Iron), XIII, a b 286, b 291–3; (Iron Therapeutics), b 370; (Lanthanum), XIV, b 291–2; lead (Chemistry), V, *b* 460; (Lead), XIV, a b 376, *b* 377, *a* b 378, a 379; magnesium group (Chemistry), V, *b* 456; (Manganese), XV, b 486, *a b* 487, b 488
—— mercury (Chemistry), V, a 457; (Mercury), XVI, a 38, a 39; ores (Metallurgy), XVI, a 66; Methyl, a 204; minerals (Mineralogy), b 400–6; nitrogen (Chemistry), V, b 442–6; organic (Liebig), XIV, a 570; phosphorus (Chemistry), V, a 448–9; platinum group (Chemistry), *b* 465, *a* 466; (Platinum), XIX, a 204; (Potassium), a 608; silicon (Chemistry), V, a b 453, *a* 454; silver (Chemistry), b 458, b 459; XXII, a 79; sulphur group (Chemistry), V, b 434–5, a 436, b 440–1; thallium (Chemistry), a 460; tin group (Chemistry), a 467; tungsten group (Chemistry), a *b* 469; (Tungsten), XXIII, b 645, a 646; zinc (Pigments), XIX, b 97; (Zinc), XXIV, *b* 823–5, a 826
Oxley, John, explorer (Australia), III, *a* 91
Oxlip or primula (Botany) (Ill.), IV, b 120; (Primrose), XIX, a 757
Ox Mountains (Sligo), XXII, *a* 169
Oxnam, river (Roxburgh), XXI, b 39

- Ox-tallow, XXIII, b 39
- OXUS, river (Map), XVIII, b 104-8
  - Alai plateau, b 106
  - Caspian Sea outlet, a b 108
  - highland region, b 105 *sq.*
  - history of the region, b 104-5
  - lakes, highland, b 107
  - Pamir plateau, b 106
  - Panjah river, political importance of, b 107-18
- —— (Bokhara), IV, a 3; (Caspian Sea), V, a 155, b 157; (Himalaya), XI, b 734; (Khiva), XIV, *b* 64, *a* *b* 65, b 66; (Mohammedanism), XVI, a 590; (Mongols), b 775; (Persia), XVIII, b 623, note; (Transcaspian), XXIII, *b* 544; basin (Afghânistân), I, *a* 204, a b 216, *a* b 217; delta (Aral), II, b 268, a 269; upper basin of (Hwen T'sang), XII, b 434
- Oxycarbon series (Carbon), V, b 78
- Oxy-calcium light (Magic Lantern) (Ill.), XV, a 213
- Oxychloride of Vanadium, XXIV, a 61
- Oxycoccus, genus (Cranberry), VI, *b* 483; (Horticulture), XII, b 280
- Oxygen, gas (Iron), XIII, a 290; (Magnetism), XV, b 265; (Meteorology), XVI, a b 189; (Metals), a b 75, a 76; (Mineralogy), b 394; (Nitrogen), XVII, a 529; (Ozone), XVIII, b 116-7; (Respiration), XX, b 495, a 496, a b 498, a *b* 499, b 500; absorbed, in ocean (Sea Water), XXI, b 643-4; and its compounds (Chemistry), V, b 415-24; determination of (Organic Chemistry), a 474; effects of (Schizomycetes), XXI, a 424; expansion of (Heat), XI, a *b* 512; experiments (Scheele), XXI, *a* 405; history of theories of (Chemistry), V, b 399-402; influence on plant movement of (Physiology), XIX, a 70; physiological effects of (Sleep), XXII, a 166; plant absorption of (Physiology), XIX, a b 52, b 55, a b 58-9; spectrum of (Spectroscopy), XXII, a b 389; theory of acids (Gay-Lussac), X, b 110, a 111; in Water, XXIV, a 420, a 422
- Oxyhæmoglobin (Respiration) (Ill.), XX, b 497-8, *a* *b* 499
- Oxyhaloid compounds of phosphorus (Chemistry), V, b 449-50
- OXYHYDROGEN FLAME, XVIII, b 108-9; (Blowpipe), III, a 730
- Oxymuriatic acid (Chlorine), V, *a* 589; (Gay-Lussac), X, b 110
- OXYNOTUS, bird, XVIII, b 109; (Birds), III, b 659
- Oxyntic glands (Nutrition), XVII, a 693
- Oxyrhamphidæ, family (Birds), III, *a* 647
- Oxytricarballylic acid (Citric Acid), V, a 694
- Oxytricha, genus (Protozoa), XIX, a 888, a 889
- Oxytropis, plant (Botany), IV, b 130, a 135
- Oxyura, insects (Hymenoptera) (Ill.), XII, a *b* 606, *a* 607, a 608, a 610, a 611, a 612
- Oxyuris, genus (Nematoidea) (Ill.), XVII, b 333, a b 334, notes; (Veterinary Science), XXIV, b 222
- Oyama Mountain (Japan), XIII, a 581
- Oyapock, river (Guiana), XI, a 225
- OYER AND TERMINER, XVIII, b 109-10
- Oykel river (Ross Co.), XX, a 877; (Sutherland), XXII, a b 764
- Oyo, city (Yoruba), XXIV, *a* 792
- OYSTER, XVIII, a 110-14
  - anatomical organization, a 110
  - culture, a 112-14
  - industrial statistics, a b 111
  - natural beds, extension of, b 113-14
  - reproductive features, b 110-11
  - United States, legislation and methods of fishing, a b 113
  - working the beds, a b 114
- —— (Acclimatization), I, b 82; (Mollusca), XVI, b 717, a 718; (Pearl), XVIII, a 457-9; American (Mollusca), XVI, b 719
- —— Bay, town (Long Island), XIV, a 876, a 877
- Oyster-beds (Arklow), II, b 474; (Essex), VIII, a 488; (Pisciculture), XIX, a b 135; (Whitstable), XXIV, b 586
- OYSTER-CATCHER, bird, XVIII, b 114-15
- —— culture (Ostend), XVIII, a 64; development (Mollusca) (Ill.), XVI, a 661; European (Mollusca), b 719, a 721; fisheries, IX, b 231, b 233, a 234, *a* 235; (Pisciculture), XIX, b 136, a 137; (France), IX, a b 462; (Long Island), XIV, b 876; (Maryland), XV, b 609, note; (New South Wales), XVII, a 421; (New Haven), b 404; (Sables d' Olonne), XXI, a 138; (Schleswig-Holstein), b 432
- —— -dredge, VII, a 397
- Oyster-plant or salsify (Horticulture), XII, a 300
- Oyster-shell fluxes (Iron), XIII, a 303, a 361
- OZAKA or Osaka, city XVIII, a b 115; (Japan), XIII, b 579, a 583, b 585, *a* b 587, b 589, a 590
- Ozama river (Hayti), XI, a 486
- OZANAM, Antoine Frédéric, critic, XVIII, b 115
- ——, Jacques, mathematician, XVIII, b 115
- Ozark mountains (America), I, b 592, a 596; (Arkansas), II, b 473; (Indian Territory), XII, *b* 874; (Missouri), XVI, a 548
- Ozeroff, Vladislas Alexandrovitch, poet (Russia), XXI, a 115
- OZOCERITE or Ozokerite, mineral, XVIII, a b 116; (Candle), IV, b 708, b 709; (Petroleum), XVIII, a 885; (Mineralogy), XVI, a 387, a 391, b 447
- Ozolæ, tribe (Locri), XIV, *a* 771
- OZONE, XVIII, b 116-7; (Chemistry), V, a 417-8, a 424; (Mohr), XVI, b 629

- P, letter, XVIII, a 117-8
- Paalzow, physicist (Electricity), VIII, b 45, a 50, b 77
- Pábak, prince (Persia), XVIII, a 617, a 618, note
- Pabbi hills (Gujrat), XI, a 242
- Pabellon de Pica (Guano), XI, b 207, b 208
- Pablo Christiani, controversialist (Ramban), XX, a 276
- Pacaraima, mountains (Guiana), XI, b 221
- Pacas, genus (Mammalia), XV, b 421, a 426
- Pacasmayo, city (Peru), XVIII, b 687
- Pacatiana, province (Phrygia), XVIII, a b 866, note
- Pacaya, volcano (Guatemala), XI, a 212
- Paccheri, Antonio, artist (Encaustic Painting), VIII, b 170
- PACCHIA, Girolamo del, painter, XVIII, a 118; (Schools of Painting), XXI, a 462, note
- PACCHIAROTTO, Jacopo, painter, XVIII, a b 118
- Pacchionian bodies in the brain (Anatomy), I, b 579
- Pace, Ludovico della, artist (Raphael), XX, b 292
- Pachastrellidæ, family (Sponges), XXII, *a* 440
- Pacheco, Duarte, explorer (Portugal), XIX, a 561
- PACHECO, Francisco, painter, XVIII, b 118; (Cespedes), V, *b* 310; (Velazquez), XXIV, a b 144, a 145
- ——, Don Juan V. G., viceroy (Mexico), XVI, a 228
- ——, P. P., botanist (Gumbo), XI, b 244, a 245
- Pachisi, Hindu game (Mexico), XVI, b 215
- Pachnolite (Mineralogy), XVI, b 399
- Pachomius, anchorite (Abbey), I, a 17; (Monachism), XVI, a b 726, a 741
- Pachyacanthus, fossil (Mammalia), XV, b 394
- Pachycoridæ, bugs (Hemiptera), XI, b 576
- Pachydermata, division (Mammalia), XV, a 427; (Sumatra), XXII, b 673
- Pachymatisma (Sponges) (Ill.), XXII, a 435, *a* 436, a 440
- Pachymeres, Georgius, jurist (Byzantine Historians), IV, a 545; (Greece), XI, b 129
- ——, Aurelius, dye-seller, MSS. of (Palæography), XVIII, a 154
- Pachytylus, genus (Grasshopper), XI, a 54; (Locust) (Ill.), XIV, a 772-3
- Pachyuromys, classification (Mammalia), XV, a 424
- Pacification of Berwick, 1639 (Scotland), XXI, b 534
- —— of Ghent, 1578 (Ghent), X, a 505; (Holland), XII, a b 79
- PACIFIC OCEAN (Plates II, III,) (Ill.), XVIII, a 118-33
  - coasts, b 119-20
  - coral islands, theory of, b 132-3
  - currents, b 121-2
  - density of water, b 123
  - deposits, a 125-32
    - antiquity of areas, a b 131
    - cosmic spherules, a 130-1
    - distribution of, a 128-30
    - geological aspects of, b 131-2
    - pelagic, b 126-8
    - red clay, b 127-8
    - terrigenous or littoral, b 125-6
  - depth, a 124-5
  - discoveries, progress of, a 118
  - extent of, a b 119
  - islands, a b 132
  - meteorology, b 120-1
  - river system, a 120-1
  - temperature, abyssal, b 122-3
    - surface, a b 122
- —— (Distribution), VII, a 237, *b* 240, *a* *b* 241, *a* *b* 242, *a* *b* 243, *a* 244; (Meteorology), XVI, b 126, a 127, 129, b 137, b 139, a b 144, a 149; (Sea Water), XXI, b 642, 644, *a* 645, note; (Tahiti), XXIII, a 27; discovery of (Balboa), III, a 237; explorations (Geography), X, a 163, a b 169, *b* 172, b 174; north (Ichthyology), XII, b 717-8; south (Ichthyology), a b 718, a 719, b 720-1; tracks (Navigation), XVII, a b 284; tropical (Reptiles), XX, a b 483, b 486
- —— Coast range (America), I, b 595; (Signal Service), XXII, a 905
- —— Mills (Lawrence, Mass.), XIV, b 370
- Pacifico, Don, trader (Palmerston), XVIII, a 200
- PACIFIC RAILROADS, XIX, 913-21
  - Canada Pacific, b 921
  - Central Pacific, b 918-9
  - early explorations, a 913
  - Eastern connecting roads, b 919
  - Northern Pacific, a 920-1
  - Southern Pacific, b 919-20
  - surveys, a 913-4
  - Texas and Atlantic Pacific companies, a 920
  - Union Pacific, a b 914-8
    - charter, a 914-5
    - construction, a b 915
    - Credit Mobilier, a b 918
    - government relations, b 917-8
    - Kansas and Denver companies, b 915-6
    - land grants, a b 917
    - statistics, 916-7

Pacific Railroads (America), I, b 627-8; Canadian (Columbia, British), VI, b 152-3; origin of (United States), XXIII, a 824, a 831, a 832
—— Steam Navigation Company (Callao), IV, b 626-7; (Chili), V, b 542
Pacing (Horse), XII, b 200; in United States, b 209-10
Pacinian corpuscles (Anatomy) (Ill.), I, b 756, a 757; (Touch) (Ill.), XXIII, a b 510
Pacinotti ring (Lighting, Electric), XIV, a 638
Pacioli or Paciolus, Fra Luca, mathematician (Piero), XIX, a 91; (Algebra), I, a 451, *b* 452; (Pisanus), XIX, a 135
Pack, Richardson, poet (Wycherley), XXIV, *a* b 741
Packard, Alpheus Spring, Sr., divine (Homer), XII, a 122, note
——, Alpheus Spring, Jr., naturalist (Arachnida), II, a 240, b 241, b 242; (Crustacea), VI, a b 574; (House Fly), XII, b 330-1
Packet service (Post-Office), XIX, b 582
Packfong, alloy (German Silver), X, b 401
Pack-horses (Japan), XIII, b 586
Packing (Asbestos), II, b 590; (Joints), XIII, a b 742; in cylinder (Steam-Engine), XXII, *a* 538; marine piston (Steam-Engine) (Ill.), b 543
—— industry (Oyster), XVIII, a b 113. See Pork-packing
Packings in Hydropathy, XII, a b 576-7
Pack press (Oils), XVII, a 763
Pacorus I., king, Parthia (Persia), XVIII, a b 608, a b 613
—— III., king, Parthia (Persia), XVIII, a b 614
Pacta Conventa (Poland), XIX, b 303-4, b 305, b 307; (Russia), XXI, b 106
Pacte de famine, grain ring (France), IX, b 523, a 525
Pactolus, river (Lydia), XV, a 100; (Sardis), XXI, a *b* 325
PACUVIUS, Marcus, poet, XVIII, a b 134; (Drama), VII, a 355; (Latin Language), XIV, b 332
Padan Aram, district (Mesopotamia), XVI, b 51 note
Padang highlands and residency (Sumatra), XXII, *a* *b* 672, b 673, a 674
—— Sidempuan, town (Sumatra), XXII, b 672
Padas river (Sabah), XXI, b 131
Paddington, district (London), XIV, *a* 830, a b 831, a 834, a b 842, a 861
——, suburb Sydney), XXII, a 847 note
Paddles (Ichthyosaurus), XII, b 734
Paddle-wheel (Navy), XVII, a 292; (Shipbuilding), XXI, a 862; (Steam-Engine), XXII, *a* 543
Paddle-wood, Aspidosperma (Botany), IV, a 92
Paddy fields (Japan), XIII, b 583-4
PADERBORN, town, XVIII, b 134-5
Padi, king Ekron (Israel), XIII, b 424
PADIHAM, township, XVIII, a 135
PADILLA, Juan Lopez de, patriot, XVIII, a b 135; (Charles V.), V, a 359; (Spain), XXII, *a* 343
——, Maria de, mistress (Pedro I.), XVIII, b 461
Padlock (Lock), XIV, a 750
Padma or Padda river (Ganges), X, a 62; (Nadiyá), XVII, b 167
—— Sambhava, apostle (Lhasa), XIV, b 500
Padmavati, queen (Hindustani Literature), XI, b 753
Padon Point (Zaire), XXIV, b 803
PADUA, city (Plan), XVIII, b 135-6; (Commerce), VI, *b* 178; (Giotto), X, a 545; (Livy), XIV, *a* *b* 731; (Mantegna), XV, a b 508, a *b* 509; (Schools of Painting), XXI, b 453-4, b 462, b 467; (University), XXIII, a 889, a 890, b 891-2, *b* 892, a 900; Observatory, XVII, a 734
PADUCAH, city, XVIII, b 136
Padus, river. See Po
Pæan, song (Drama), VII, a 349
Pæcillastra, genus (Sponges), XXII, b 432, b 440
Pædagogics, science of (Education), VII, b 587, b 588-9; (Herbart), XI. a 644
Pædagogue, treatise (Clemens Alexandrinus), V, a 716, b 717
Pæligni, tribe. See Peligni
Pænula, clock (Costume), VI, a 404
Pæonia, district (Macedonia), XV, b 137
Pæonius, sculptor (Archæology), II, b 309, a 313; (Olympia), XVII, *b* 790
PÆONY, plant, XVIII, b 136-7; (Botany) (Ill.), IV, b 83, b 121, a 122, b 126, b 131, b 135; (Horticulture), XII, b 242, a 266
Pæsiello, Giovanni, composer. See PAISIELLO
PÆSTUM, city (Ill.), XVIII, a 137-8; (Architecture), II, a 360; (Greece), XI, a 86
Pætges, Johanne Louise, actress (Heiberg), XI, a 555
PAEZ, José Antonio, patriot, XVIII, b 138
PAEZ, Pedro, missionary, XVIII, b 138
——, Ramon, author, XVIII, b 138
Pagán, city (Burmah), IV, a 495, b 496, a 497 note, a 498
Pagan, Blaise François, comte de, engineer (Fortification), IX, *b* 389, a 390
Pagani (Apparitions), II, b 177, b 179
PAGANINI, Nicolo, musician, XVIII, b 138-9
Paganism (Alchemy), I, b 408; (Ambrose, St.), a 582; (Christianity), V, a 601, b 602, a b 603, b 609; (Europe), VIII, a 626; (Greece), XI, b 99, a 100; (Julian), XIII, a b 778, a b 779; (Justinian I.), b 805-6; laudation of (Rutilius), XXI, b 121; suppression of (Egypt), VII, a 649
Pagán-men, king (Burmah), IV, *b* 498
Pagan morals (Christianity), V, a 605; notions of Inspiration, XIII, a b 161
Pagasæ, town and gulf (Thessaly), XXIII, a 320; (Volo), XXIV, a 303
Page, in chivalry (Knighthood), XIV, a b 119; of Royal Household, XXI, *b* 43
——, Charles G., inventor (Patents), XVIII, a 883; (Telephone), XXIII, b 137-8
Page, H. A., pseudonym of A. H. Japp (Thoreau), XXIII, b 334 note
Pageants (Drama), VII, a b 359-60; (Jonson), XIII, b 752
Pageh or Nassau islands (Sumatra), XXII, b 672
Pagenstecher, Heinrich A., naturalist (Trematoda), XXIII, a 569, b 572, a 575
Pages of books. See Pagination
Paget, Henry William, lord (Anglesey), II, a 29
——, Sir James, physician (Cancer), IV, b 707; (Pathology), XVIII, b 367, a b 368, b 373 note, a 377, b 391 note, a 409, a 411
——, William, lord (Knighthood), XIV, b 126
Pagham harbor (Sussex), XXII, a 761
Paghman mountains (Afghânistân), I, a b 205
Pagination (Typography), XXIII, a 730, b 745-6
Paging machinery (Stationery), XXII, b 478
Paglia, Antonio della, theologian (Paleario), XVIII, b 171
Pagny or Djion tribes (Tibet), XXIII, a 365
Pagodas, Chinese (Architecture), II, a 393; (Canton), V, b 34; (K'ai-Fung-Foo), XIII, a 833; (Nanking), XVII, b 178-9; (Ning-Po), a 526; Indian (Architecture) (Ill.), II, b 347-8; (Zodiac), XXIV, b 834-5. See Temples
Pago-pago or Pango-Pango, harbor (Navigator's Islands), XVII, *b* 287
Pagophila, genus (Birds), III, a 655; (Gull), XI, *a* 243
Pagratid kings (Armenia), II, b 480
Pagurus, genus (Crustacea), VI, a b 562, b 563, b 566, a *b* 580, *a* 581
Pahang, district (Malay Peninsula), XV, *b* 323, a 324, *a* b 325
PAHLAVI, literature, XVIII, a 139-40; (Persia), a 619 note, b 666, a b 667; Dictionaries, VII, b 165; inscriptions (Kurdistan), XIV, a 160
Pah-Ute range (United States), XXIII, b 848
Pah-Utes, race (Indians), XII, a 865
Paictes, bird (Pitta), XIX, b 159
Paige, Lucius R., commentator (Universalism), XXIII, a 952
Pai hoi mountains (Ural Mountains), XXIV, *b* 7, a 8
Paillon river (Nice), XVII, *b* 493
Pai Loo or Pai Fang, monuments (Architecture), II, a *b* 393
Paimbœuf, town (Loire-Inférieure), XIV, *b* 817, a 818
Pain, insensibility to (Anæsthesia), I, b 692-3; (Magnetism, Animal), XV, a 284; movement arising from (Psychology), XX, a b 48-9; physical signs of (Psychology); a b 73, note; theory of (Touch), XXIII, a b 513
PAINE, Thomas, author, XVIII, b 140-1; (Bridges), IV, a 300; (Burke), a 488; (Cobbett), VI, a 78; (Drew), VII, b 405-6; (Erskine, Lord), VIII, a 469; (Periodicals), XVIII, a 555; (United States), XXIII, b 790, b 795
Painganga, river (Wun), XXIV, b 734-5
Pains and Penalties bill (England), VIII, b 326-7
Paint. See PIGMENTS
——, luminous (Light), XIV, a 608; (Micrometer), XVI, a 259; stereochromic (Silica), XXII, b 59
Painted bunting, bird (Nonpareil), XVII, b 547
—— chamber, Roman (Consistory), VI, a 261
—— Goose, X, a 692
—— Lady, plant (Horticulture), XII, b 255
—— Masjid (Gaur), X, b 103
—— porch (Olympia), XVII, b 791
—— sculpture (Fine Arts), IX, b 180
—— Snipes, XXII, a 212 note
Painters, European, list and dates of (Schools of Painting), XXI, a 462-5
——, mediæval (Schools of Painting), XXI, a 451
Paint-grinding (Pigments), XIX, b 94
PAINTING, XVIII, b 141-4
  atelier, b 141
  implements, b 141
  materials, b 142
  processes, a b 143
  water-color painting, b 143-4. See SCHOOLS OF PAINTING

—— (Æsthetics), I, a b 194, b 196, *b* 197; (Archæology), II, a 301, b 308-9, a 313-4, b 317-8, b 320; (Ariadne), b 441; (Crayon), VI, a 492; (Enamel), VIII, b 168-9; (Fan), IX, *a* 26; (Fresco), a 171, b 676-81; (Fine Arts), b 175, a *b* 176, b 179-80, a b 181, a *b* 182, a *b* 183, *a* *b* 185, a *b* 186; (Glass), X, a 596-601; (Ivory), XIII, a 534; (Miniature), XVI, b 456-9; (Mural Decoration) (Ill.), XVII, b 45-54
——, allegorical (Rethel), XX, a 502

Painting, American (Allston), I, a b 518; (Read, T. B.), XX, a 897; (Rossiter), b 911; (Stuart), XXII, a b 643; (Sully), a b 933; (Vanderlyn), XXIV, a 876; (West), a b 533
——, animal (Fyt), IX, b 752; (Gauermann), X, a b 99; (Landseer), XIV, b 280–2
Painting, Art of (Cespedes), V, b 310
——, coach (Carriage), V, a 121
——, Danish (Abildgaard), I, a 51; (Denmark), VII, a 82; (Eckersberg), b 556
——, Dutch (Eeckhout), VII, b 600; (Enkhuizen), VIII, a 397; (Everdingen), a 645; (Flinck), IX, a b 284; (Francken), b 618–9; (Goes), X, b 643; (Goyen), XI, b 21–2; (Hals), a b 357; (Heda), a b 544; (Heem), a b 545; (Heemskerk), a 546; (Helst), b 572–3; (Heusch), a 700; (Heyden), b 700; (Hobbema), XII, a b 33; Hondecoeter), b 132; (Honthorst), a b 147; (Hooch), b 147–8; (Hoogstraten), a 152; (Huchtenburg), b 343; (Huysum), b 433–4; (Laer), XIV, a 201; (Meer), XV, a 833–4; (Neer, Vander), XVII, a 324; (Rembrandt), XX, a 385–90; (Renaissance), a 404; (Ruysdael), XXI, a b 123; (Schalcken), a 404; (Scheffer), a 405–6; (Schools of Painting) (Ill.), a 459, b 463–4, *b* 465, a *b* 466, *b* 468; (Snyders), XXII, a b 213; (Steen), b 556; (Terburg), XXIII, a 201; (Wouwerman), XXIV, b 721
——, Egyptian (Agriculture), I, b 259–60; (Architecture), II, a 340; (Egypt), VII, a 672, b 677, a 678
——, English (Barry), III, a b 345; (Blake), b 698–700; (Constable), VI, a b 264; (Cooper), b 298–9; (Copley), a 308; (Cox, D.), a 475–6; (Dyce), VII, a b 492; (Eastlake), b 532–3; (Egg), a 605; (Etty), VIII, b 567–8; (Frost), IX, b 705–6; (Fuseli), a b 749; (Gainsborough), X, a 15–6; (Haydon), XI, b 483–4; (Hilton), a 733; (Hogarth), XII, a b 50, a b 51–2; (Kauffman), XIV, a 18; (Kneller), b 111–2; (Landseer), b 280–2; (Lawrence), a 374; (Lely), a b 435; (Linnell), a b 681; (Mulready), XVII, b 24–5; (Northcote), a 576; (Poole, P. F.), XIX, b 475, a 476; (Reynolds), XX, b 516, b 517–8; (Roberts), a 613; (Rossetti), b 880–2; (Schools of Painting), XXI, b 460–1, a b 464, a 465–6, a b 469; (Seddon), a 650; (Shee), *b* 820; (Stanfield), XXII, a 466; (Stothard), b 607; (Turner), XXIII, a 705–10; (Wilson, R.), XXIV, b 624–5
——, Etruscan, VIII, a 558; (Architecture), II, *a* 363
——, Flemish (Douw), VII, a 328; (Floris), IX, b 299; (Francken), b 618–9; (Fyt), a 856; (Ghent, J.), X, a b 505; (Gossart), b 749–50; (Herlen), XI, a 661; (Holland), XII, a 76; (Huysmans), a b 433; (Massys), XV, b 626–7; (Memling), b 854–5; (Renaissance), XX, a 404; (Rubens), XXI, b 51; (Schongaur), a 450, note; (Schools of Painting) (Ill.), b 457–8, b 463, *b* 465, *a b* 466, b 468; (Teniers), XXIII, a b 190–1; (Van Dyck), XXIV, a 68–70; (Van Eyck), VIII, b 712–3; influence in Italy (Antonello), II, a 122
——, Florentine (Dolci), VII, a b 298; (Ghirlandajo), X, b 507–8; (Giottino), a b 543; (Sarto), XXI, a 330–1
——, French (Academy), I, a b 75; (Charlet), V, a 372; (Claude), b 711; (Corot), VI, a 382; (Decamps), VII, b 17; (Delacroix), a b 36; (Delaroche), a b 38; (De Loutherbourg), b 46–7; (Drouais), b 408; (Flandrin), IX, b 254; (Francisque), a 617; (Fromentin), b 704; (Géricault), X, a b 399; (Girodet de Roussy), X, a 556; (Gleyre), b 605–6; (Granet), XI, a b 43; (Greuze), b 168–9; (Gros), b 185–6; Guérin, J. B. P.), a 219; (Hamon), b 382–3; (Heim), b 557–8; (Hennequin), a 584; (Hersent), a 688; (Ingres), XIII, b 81–3; (Isabey), a 386; (Lafosse), XIV, b 207; (Lahire), b 211; (Largillière), a b 314; (Le Brun), b 396–7; (Mignard, P.), XVI, b 301; (Millet, J. F.), XVI, b 334–5; (Nain, Le), XVII, a 173; (Raoux), XX, a b 285; (Regnault), b 359; (Renaissance), b 402; (Robert), a 611–2; (Santerre), XXI, a 313; (Sarrazin), a 328; (Schools of Painting) (Ill.), a b 460, a 464, b 465, a 466, b 468–9; (Sigalon), XXII, a 52; (Subleyras), a 649; (Sueur), b 652; (Vernet), XXIV, a 183; (Watteau), b 436
——, genre (Greuze), XI, b 168–9; (Hess), b 695, a 696; (Mulready), XVII, a 25
——, German (Cornelius), VI, a b 314; (Cranach), a 482–3; (Dietrich), VII, b 185; (Dürer), b 478–9, a 480–1, *b* 482–3; (Fiorillo), IX, a 193; (Führich), a 713; (Grunewald), XI, a b 200; (Hess), b 695–6; (Hildebrandt), a 728; (Holbein), XII, b 55–8; (Kaulbach), XIV, b 18–9; (Schadow), XXI, b 402; (Schnorr von Karolsfeld), *b* 434; (Schwind), b 485–6; (Wohlgemuth), XXIV, b 661
——, Greek (Eupompus), VIII, a 590; (Numismatics), XVII, a 649–50; (Zeuxis), XXIV, a b 822
—— on Glass, X, a 596–601; (Ainmüller), I, a 378; (Cambridge), IV, *b* 646; (Cobalt), VI, b 75; (Costume), a b 417; (Diepenbeck), VII, a 172; (Mosaics), XVI, a b 877, a 879, b 881; (Rouen), XXI, b 17; (Murano), XVII, a b 54–5; (Schnorr von Karolsfeld), XXI, b 434–5; colors of ancient (Wave Theory), XXIV, a 449
——, historical (Allan, Sir W.), I, a b 511; (Barry), III, *a* 345; (Camuccini), IV, b 673; (Delacroix), VII, a b 36; (Delaroche), a b 38; (Drouais), b 408; (Duncan), a 461; (Egg), a 605; (Guérin, P. N.), XI, a 219; (Haydon), b 483–4; (Hennequin), a 584; (Hess, P.), b 695–6; (Holbein), XII, a 56, b 57–8; (Huchtenburg), b 343; (Janssens, A.), XIII, b 577; (Northcote), XVII, a b 576; (West), XXIV, b 533
——, house (Building), IV, a 457–9
——, illustrative (Schwind), XXI, b 485–6
——, Italian (Archæology), II, b 320; (Caracci), V, b 73; (Caravaggio), a b 74; (Cimabue), a 680; (Correggio), VI, b 386–8; (Domenichino), VII, a 302–3; (Fabriano), VIII, a 736; (Falcone), IX, b 5; (Farinato), a b 31; (Feltre), a b 61; (Ferrari Gaudenzio), b 95–6; (Ferri), b 96; (Fiesole), b 130–1; (Fontana), a b 318; (Foppa), b 324; (Forli), a b 365; (Fossano), b 417; (Franceschini), a 605; (Francia), a 606; (Franciabigio), a b 607; (Giordano), X, a 542; (Giorgione), a 542–3; (Giotto), b 543–5; (Glass), a 596–600, a 601; (Leonardo da Vinci), XIV, b 456–7, b 458–61; Lippi), a 690–1; (Luini), XV, a b 63; (Mantegna), a 508–10; (Michel Angelo), XVI, b 238–41, b 242–3; (Moroni), b 862; (Muziano), XVII, b 121; (Orcagna), b 837–9; (Pinturicchio), XIX, a 117–8; (Pippi), b 121–2; (Pordenone), b 533; (Raphael), XX, a 287–95; (Reni), b 408–9; (Rosa), a 869–70; (Sacchi), XXI, b 138–9; (Schools of Painting) (Ill.), a 451–7, a 462–3, a 465, a b 466, a 467–8; (Siena), XXII, a b 49; (Signorelli), b 55–6; (Sodoma), b 258; (Solario), b 262; (Tempera), XXIII, b 173–4; (Titian), a b 443; (Vasari), XXIV, b 102; (Verona), b 186; (Verrocchio), a 190; (Zuccaro), b 864–5. See Painting, Florentine and Venetian
——, landscape (Linnell), XIV, a b 681; (Nasmyth), XVII, *b* 244; (Norwich), a 610; (Roberts), XX, a 613; (Seddon), XXI, a 650; (Wilson, R.), XXIV, a 625
——, marine (Hildebrandt, E.), XI, *a* 728; (Schetky), XXI, a 411; (Stanfield), XXII, a 466; (Vernet), XXIV, a 183
——, military (Charlet), V, a 372; (Gros), XI, b 185–6; (Vernet), XXIV, a 183
——, mural (Cornelius), VI, a b 374; (Corneto), a 375; (Etruria) (Ill.), VIII, b 566–7; (Tempera), XXIII, b 173–4
——, mythological (Frost), IX, b 705–6
——, portrait (Largillière), XIV, a b 314; (Stuart), XXII, b 643
——, primitive (Lhása), XIV, b 498, a 500
——, relations of Poetry to, XIX, b 274–5
——, religious (Führich), IX, a 713
——, sacred (Allston), I, a b 518; (Caravaggio), V, a b 74; (Dolci), VII, a b 298; (Führich), IX, a 713; (Grunewald), XI, a b 200; (Guérin, J. B. P.), a 219; (Heemskerk), a 546; (Hess, H. M.), b 695; (Hilton), a 733; (Holbein), XII, a b 56, a b 57; (Image Worship), XIII, a 750–2; (Muziano), XVII, b 121; (Navarrete), b 256; (Neer, Van der), a 324; (Overbeck), XVIII, b 80–1; (Rembrandt), XX, b 385, a b 387, a 388, a 389; (Sacchi), XXI, b 138–9
Painting, satire (Rosa), XX, a b 870
PAINTING, SCHOOLS OF (Ill.), XXI, a 450–69
——, Scotch (Allan), I, a b 511; (Duncan), VII, a 461; (Harvey, Sir G.), XI, a b 448; (Manson), XV, a b 507; (Nasmyth), XVII, *b* 244; (Phillip), XVIII, b 771–2; (Ramsay), XX, a b 279; (Schetky), XXI, a 411; (Scott, D.), b 568–9; Wilkie), XXIV, b 599–601
——, Spanish (Carducchi), V, a 89; (Herrera), XI, b 681–2; (Murillo), XVII, a 61–3; (Navarrete), b 256; (Pacheco), XVIII, b 118; (Ribera), XX, a b 547; (Velazquez), XXIV, b 144–8; (Zurbaran), a 869
——, theatrical illustrative (Hildebrandt, T.), XI, b 728
——, treatises on (Felibien, A.), IX, a 58
——, Venetian (Giorgione), X, b 542–3; (Sebastiano), XXI, a b 646; (Veronese), XXIV, b 187–8
——, water-color (Cattermole), V, b 212; (Hunt), XII, b 400; (Sandby), XXI, b 269–70
Paintings (Copyright), VI, b 319, b 323
——, galleries of (Berlin), III, b 515; (Cassel), V, a 160; (Dulwich), VII, b 449; (Düsseldorf), b 488; (Fiesole), IX, b 130–1; (Florence), a 291; (Forli), a 365; (Frankfort), a 621; (Granada), XI, a 41; (Leyden), XIV, a 495; (Lille), b 648; (London),

Paintings, *continued* b 846; (Lucerne), XV, b 42; (Milan), XVI, a 304; (Munich), XVII, b 30-1, a 33; (Perugia), XVIII, a 694; (Paris), a b 287; (Schools of Painting), XXI, a 465-8. See Picture galleries
——, ancient Greek (Rome), XX, b 829; ancient vase (Pottery and Porcelain), XIX, b 622, a b 625, a 626, a 628, a b 629, a b 630-2, a b 634-5
——, church (Essex), VIII, b 489; forbidden (Mural Decoration), XVII, a b 50
——, mural (Etruria) (Ill.), VIII, b 566-7; (Herculaneum), XI, b 647. See MURAL DECORATION
——, restoring (Bleaching), III, a 714
Paints (Linseed), XIV, a 684; to protect Iron, XIII, a 367. See PIGMENTS
Pairing (Breeds), IV, b 223-4
Paisa, coin (Nepāl), XVII, b 352
Paisāchī dialect (Hindūstānī), XI, b 750
Paisano, bird (Cuckoo), VI, b 607
Paisi, monk (Slavs), XXII, a 159
PAISIELLO or PAESIELLO, Giovanni, composer, XVIII, b 144-5; (Music), XVII, a 106
PAISLEY, town (Ill.), XVIII, a 145-6; (Cotton), VI, b 445, *a* 446; (Scotland), XXI, a b 551, *b* 557, *a* 558
Paita, town (Payta), XVIII, a 452
Pájares pass (Spain), XXII, b 307
PAJOU, Augustin, sculptor, XVIII, a 146
Pakeen island (Caroline Islands), V, b 111
Pakenham, Sir Edward, general (Louisiana), XV, b 24
——, Edward, sea captain (Seamanship), XXI, b 631
PAKHOI or PEIHAI, city, XVIII, a 146; (Plague), XIX, b 178, a 179
Pakht, goddess (Egypt), VII, b 622
"Pakkuoth," Biblical fruit (Colocynth), VI, b 135
Paklat Lang, town (Siam), XXI, b 892
Pak-nam river and town (Siam), XXI, a 890, b 892
Pakshan river (Malay Peninsula), XV, b 323
Pala, fish (Hyderabad, District), XII, b 445; (Indus), a 889
PALACES, List of principal
——, Amsterdam, I, a b 684
——, Aranjuez, II, b 270-1
—— of Artaxerxes, Susa (Architecture), II, a 351
—— of Augustus, Rome (Ill.), XX, b 841-2
——, Avignon, III, b 135
——, Babelsberg, Potsdam, XIX, a 607
——, Babylon, III, b 158
——, Bangkok, III, b 270-1
——, Beaumont, Oxford, XVIII, a 102
——, Breitenzorg, IV, a 461
——, Brera, Milan, XVI, a 304
——, Buckingham, London, XIV, a 833, a 849
—— of the Cæsars, Rome (Basilica), III, a 357
—— of Caligula, Rome (Ill.), XX, b 842-3
——, Carlsruhe, V, b 99-100
——, Caserta, V, a 153
——, Cassel, V, a 160
——, Charlemagne's, Nimeguen, XVII, b 522, a 523
—— of Chosroes, Ctesiphon, VI, b 599
——, Claremont, Esher, VIII, a 480
——, Compiègne, VI, b 203, a 204
——, Constantinople, VI, a 271
——, Copenhagen, VI, a b 305
——, Dessau, VII, b 114
——, Delhi, VII, a 42
——, Dijon, VII, a 208
——, Diocletian's, Spalato, XXII, b 380, a 381
——, Dresden, VII, a b 404, *a* 405
——, Ecbatana, VII, b 537
——, Eichstadt, VII, b 684
——, ESCORIAL (Ill.), VIII, a 477-8; (Architecture), II, b 386; (Zuccaro), XXIV, a 865
——, Esterhazy, Eisenstadt, VII, b 685
——, Falkland, IX, a 14
——, Farnese, Piacenza, XIX, a 72; (Architecture) (Plate XXI), II, a 383, a 386; (Michel Angelo), XVI, b 243, note; (Sangallo), XXI, b 278; (Sodoma), XXII, b 258
——, Fontainebleau, IX, b 317-8
——, Flavian, Rome (Ill.), XX, a b 843
——, Florence, IX, b 290; (Giotto), X, b 544
——, Fulham, IX, b 713-4
——, Genoa, X, a b 140; (Vaga), XXIV, b 36
——, Gratz, XI, a 57
——, Greenwich, XI, b 155
——, Gwalior, XI, a 309
——, Hadrian's, Rome (Ill.), XX, b 843
——, Hague, XI, a 333
——, Hamilton, XI, a b 367
——, Hampton Court, XI, b 386-7
——, Hanover, XI, a b 401
——, Ingelheim, XIII, b 80
——, Ispahán, XIII, a b 404
——, Jehal, XIII, a 630
——, Kensington, XIV, a 38
——, Lálbágh (Dacca), VI, a 668
——, Lambeth, London, XIV, b 848; (Libraries), b 515-6
——, Lateram. See Lateran
——, Lhasa (Ill.), XIV, a b 498-9, a 500, b 501-2
——, Linlithgow, XIV, b 677
——, Lisbon, XIV, b 697
——, Louvre. See Louvre
——, Madrid, XV, a b 192
——, Madura, XV, a 194
——, Mainz, XV, b 308-9
——, Mandalay, XV, a b 478
——, Manfredi, Bologna (Libraries), XIV, b 529
——, Mannheim, XV, a b 501
——, Mantua, XV, a b 511; (Pippi), XIX, a 122
——, Mashita (Architecture), II, b 351
——, Medeenet-Haboo (Egypt), VII, b 676, note
——, Medici, Florence (Michelozzi), XVI, a 246
——, Mequinez, XVI, a 34
——, Mexico, XVI, a b 218, b 229
——, Moscow, XVI, a 884
——, Munich, XVII, b 30, a 32
——, Nancy, XVII, b 177
——, Naples, XVII, a 196
——, Nevers, XVII, a 378
——, Nineveh, XVII, b 525, note, a 526
——, Padua, XVIII, b 135-6
——, Paris, XVIII, a b 280-1, a b 287, b 294. See Louvre, Tuileries
——, Pavia, XVIII, b 449
——, Peking, XVIII, b 480, a 481
——, Persepolis, XVIII, a b 571; (Architecture), II, a b 351
——, Piacenza, XIX, a 72
——, Pilotta, Parma, XVIII, a 320
——, Potsdam, XIX, a 617; (Pianoforte), b 78, a 80
——, Prague, XIX, *b* 678
——, Ragusa, XX, *a* 228
——, Richmond, XX, a 560
——, St. Cloud, XXI, *b* 168
——, St. James', London, XIV, a 849, a 857
——, Schwerin, XXI, a b 485
—— of Severus, Rome (Ill.), XX, a 844
—— of Sháh Jahán, Agra, I, b 255
——, Siena, XXII, b 41
——, Solomon's, Jerusalem, XIII, a b 650, note
——, Stockholm, XXII, a 587
——, Tibur (Hadrian), XI, b 325
——, Tiryns, XXIII, a 435-6
——, Toledo, XXIII, a 464
——, Trebizond, XXIII, a 567
——, Tuileries. See Tuileries
——, Urbino, XXIV, a b 14; (Raphael), XX, b 286
——, Vatican. See Vatican
——, Venice (Ill.), XXIV, b 161, *b* 162, a 165-6, a 167-8; (Bellini), III, *a* 472; (Robusti), XX, b 625
——, Verona, XXIV, b 185-6
——, Versailles, XXIV, a 191-2; (Architecture), II, b 386
——, Vienna, XXIV, b 237
——, Weimar, XXIV, a 519
——, Westminster, London, XIV, b 848, a b 849
——, Whitehall, London, XIV, a 849, b 858
——, Yucatan, XXIV, b 796
PALACKY, Frantisek, historian, XVIII, a 146-7
PALADIN, courtier, XVIII, b 147
Paladins of Charlemagne (Romance), XX, a 666, a 667
Pala d'oro, altar-piece, St. Mark's (Enamel), VIII, a 168; (Metal-Work), XVI, a 80; (Venice), XXIV, b 164-5
Paladuc, lake (Isère), XIII, a 396
Palæarctic region, Birds of, III, b 653-7; fauna (Asia), II, a b 607; (Distribution), VII, b 233, a 234-5, b 239; fishes (Ichthyology), XII, b 713-4
Palæichthyes, sub-class (Ichthyology), XII, *a* 689, a 690, b 692, b 694, *b* 696, a 702, *b* 705, b 706, a 723-6
Palæinachus, genus (Crustacea), VI, a 580
Palælodus, genus (Birds), III, a 633
Palæmon, prawn (Shrimp), XXI, b 886
Palæmonidæ, family (Crustacea), VI, b 580 note, a 582 note
Palæobatrachus (Amphibia), I, b 675, a 676, b 677
Palæocetus, fossil (Mammalia), XV, a 397 note
Palæocrystic Sea (Polar Regions), XIX, b 332, a b 340
PALÆOGRAPHY (Ill.), XVIII, a 147-70
- bibliography, b 169-70
- Caroline minuscule, influence of, a 165
- contractions, b 168-9
- corrections, a 168
- English writing, a 163-6
  - cursive, common, b 165
  - foreign minuscule, a 164
  - pointed hand, b 163
  - round hand, a b 163
- forms of ancient books, b 148-9
- Greek writing, b 149-55
  - bibliography, b 169
  - codices recentiores, minuscule, a b 155
  - codices vetusti, minuscule, a 155
  - codices vetustissimi, minuscule, a b 154
  - cursive, a b 153
  - degeneration of uncial, b 152-3
  - Græco-Latin uncial, a 152, a 153
  - minuscule, b 153
  - Mœso-Gothic uncial, a 152
  - papyrus uncial, a 150-1
  - tablet uncial, a 151
  - uncial, b 149-53
  - vellum uncial, a 151 2
- inks and implements, b 149
- Irish writing, b 161-3
- Latin writing, b 155-9
  - bibliography, b 169
  - capital, a b 156
  - cursive, a 158-9
  - half-uncial, a 157-8
  - uncial, b 156-7
- Lombardic, b 159-60
- materials, b 147-8
- mechanical arrangement of text, b 166-7
- Merovingian, b 160-1
- palimpsests, a b 166
- papal documents, a 160
- punctuation, a b 167
- scope of the article, a b 147
- stichometry, b 167-8
- tachygraphy, a b 168
- Visigothic, b 160

Palæography (Archæology), II, a 300; (Diplomatics), VII, b 220; (Madden), XV, a 177; (Mail), b 295, a 296; (Pottery and Porcelain), XIX, a 628-9. See ALPHABET and INSCRIPTIONS
Palæolithic age (Archæology), II, a 294-5; (Cave), V, a 232-3; (Russia), XXI, b 86
PALÆOLOGUS, imperial family, XVIII, a 170; (Monferrato), XVI, a 765
——, Andronicus II., emperor, II, b 22
——, George, general, XVIII, a 170
——, John V., emperor (Cantacuzenus), V, b 25
——, John VI., emperor, XIII, a 724; (Amurath), I, a 686
——, John VII., emperor, XIII, a 724
——, Manuel II., XV, b 512
——, MICHAEL VIII., XVI, b 235; (Greece), XI, a b 107, a 108
——, Michael, ambassador, XVIII, a 170
Palæonemertea, sub-order (Nemertines), XVII, b 335, a 336, a b 338
Palæoniscidæ, family (Ichthyology), XII, a b 670, *a* 706, a 726
Palæontology (Agassiz), I, a 246-7; (America), a 599-600; (Archæology), II, b 291-2, b 293; (Buckland), IV, b 377; (Cuvier), VI, a 654, a 655; (Distribution), VII, a 239-40, b 244-8; (Falconer, H.), IX, b 5; (Horse), XII, a 176-8; (Ichthyology), a b 670, a 705-7; (Geology), X, b 190, b 282-8; (Lyell), XV, a 103-4; (Zoology, American), XXIV, a 925-6; writers on (Botany), IV, a 73. See Fossil
Palæornis, genus (Birds), III, b 619; (Parrot), XVIII, b 327, a 328, a 329
Palæotherium, fossil (Mammalia) (Ill.), XV, b 434, a 435
Palæotype (Alphabet), I, a 535; (Speech Sounds), XXII, a 400-5
Palæozoic Coal measures, VI, b 46; Corals, b 329, b 336, *a* 337, b 340, a 341, a 343; fauna (Distribution), VII, b 244, a b 245, 246, a b 247, a b 248; rocks (Geology), X, a 291-2; (New Hampshire), XVII, a 401; (New York), b 464-5; (Pennsylvania), XVIII, b 510; (Slate), XXII, b 135; (United States), XXIII, b 852
PALÆPHATUS, author, XVIII, a 170
Palæpolis, town (Naples), XVII, b 197-8; (Rome), XX, b 760
Palæstra, wrestling ground (Olympia), XVII, b 788
Palætyrus, city (Tyre), XXIII, *a* 758
PALAFOX Y MELZI, José de, duke, XVIII, a 170
Palafox y Mendoza, bishop (Jesuits), XIII, a 665
Palagonite, mineral (Geology), X, a 210
Pala gum (Gutta Percha), XI, b 303; (India-Rubber), XII, a 880
Palais, city (Belle-Isle-en-Mer), III, a b 470
—— de Justice (Paris), XVIII, a 281, b 294, b 297, b 300; de l'Industrie (Paris), b 287; Royal (Paris), b 297, b 298
Palámau, country (Lohárdagá), XIV, *a* 815
Palamcotta, town (Tinnevelli), XXIII, b 431
Palamedea, genus (Ornithology), XVIII, b 45, b 50
Palamedeidæ, family (Birds), III, b 646, *a* 647; (Screamer), XXI, a b 578
Palamedes, hero (Philostratus), XVIII, b 810; (Troad), XXIII, *b* 617
—— of Round Table (Romance), XX, b 663, *a b* 664
Palamedes (Holland), XII, b 97
Palamidhi, fortress (Nauplia), XVII, b 255
PÁLANPUR, state and town, XVIII, b 170; (Kangra), XIII, a b 851
Palanquin (Japan), XIII, b 586
Palao islands. See PELEW
Palapterygidæ (Birds), III, b 634, a 644
Palár river (Arcot), II, a 421; (Madras), XV, b 185; (Salem), XXI, b 220
Palas tree (Kino), XIV, a 93
Palatals, letters (Hieroglyphics), XI, a b 712; (Sanskrit), XXI, a 283; (Ural-Altaic), XXIV, a 7
Palate (Anatomy), I, b 734, a b 735; (Digestive Organs), VII, a b 193-4; (Horse), XII, a 183; (Mammalia), XV, a 364; bone (Amphibia), I, b 661, b 665, b 666, a 667, a 668; (Anatomy) (Ill.), b 723, a 729; in taxonomy (Bunting), IV, a 470; (Ornithology), XVIII, a 33, b 38, a b 39, note; (Trogon), XXIII, a 621; nerves (Anatomy), I, b 774
PALATINATE, The, XVIII, b 170-1; (Bavaria), III, b 389, *a b* 390, *b* 391, *a* 392, a 393; (Buckingham, Duke of), IV, *a b* 375; (Germany), X, a 442, a 444, b 448, b 449; (Heidelberg), XI, a 557; (James I.), XIII, b 568; (Presbyterianism), XIX, b 716; statistics of (Germany), X, *b* 405, b 407, a b 408, b 421, a 423
Palatinates (Poland), XIX, a 298, a 300, a 304, a 305
Palatine Anthology, II, a b 92
—— Counties, VI, a b 455; (Durham County), VII, a 483, b 484-5
—— Hill (Rome) (Ill.), XX, *a b* 750, *a* b 825, a 828, b 829, a b 830-1, b 840-4; (Lupercalia), XV, b 67-8
—— library, Rome (Libraries), XIV, a 511
Palatio, Octavian de, archbishop (Ireland), XIII, a 268
Palatalization (K), XIII, a 819; (Speech-Sounds), XXII, a 398
Palau Islands. See PELEW
Palawan or Paragua, island (Philippines), XVIII, a 766
Palay gum. See Pala gum
PALAZZOLO, city, XVIII, b 171
Palde, king (Tibet), XXIII, b 367
Pale, ruins (Cephalonia), V, *a* 299
Pale, in Heraldry (Ill.), XI, b 618
Pale, territory (Ireland), XIII, a b 266, a 267, a 268, a 270, a 273, a 276
Palea, genus (Grasses) (Ill.), XI, *a b* 49, *b* 50, *a* 51
PALEARIO, Aonio, theologian, XVIII, b 171
Palegars, chiefs (India), XII, a 833, b 834, b 839; (Madras), XV, b 188
Pale malt (Brewing), IV, b 240, a b 241
Palembang residency and river (Sumatra), XXII, b 671, a 673, *a b* 674
PALENCIA, province, XVIII, a 172; (Spain), XXII, a 308, a 310, b 312, b 313, b 315; city, XVIII, b 172
PALENQUE, ruins, XVIII, b 172; (America), I, b 608, a 609, *a* b 618; (Architecture) (Ill.), II, a 394-5; (Mexico), XVI, a b 222; (Yucatan), XXIV, b 796, a 797
Paleopoli, ruins (Gythium), XI, a 317
——, ruins (Samothrace), XXI, a 263
Paleostom, lake (Transcaucasia), XXIII, b 545
Paleovuni, mount (Helicon), XI, a 563
PALERMO, city (Plan), XVIII, b 172-4; (Libraries), XIV, b 529, b 550; (Sicily), XXII, a 35; Observatory, XVII, b 734
PALES, deity, XVIII, b 174
PALESTINE (Plate IV), XVIII, b 174-83
    area and situation, b 174-5
    central and southern region, a 176-7
    climate and vegetation, b 177-8
    Galilee, physical features of, b 175
    general geography, a 175
    geographical names, application of, b 180-1
    Græco-Roman divisions, a 181
    Israelite tribes, a 179-80
    literature concerning, b 182-3
    modern divisions, a 181
    monarchies of Israel, b 180
    physical features, b 175-7
    Plain of Megiddo, or great plain, a 176
    political geography, a 178-81
    population, a b 182
    primitive inhabitants, distribution of, b 178
    trade routes, a 181-2
    trans-Jordanic region, a 177
    water, a b 177
—— (Egypt), VII, b 639, b 640; (Honey) XII, b 141; (Israel), XIII, a 410-1; (Jews), b 697; (Mohammedanism), XVI, a 599; (Numismatics), XVII, b 667; (Reland) XX, a 368; (Seddon), XXI, a 650; (Syria), XXII, b 860, a b 862; abandonment of (Templars), XXIII, b 178
Palestine, poem (Heber), XI, b 530
Palestinian church (Hebrews), XI, a 540
Palestinian or Jerusalem Talmud, XXIII, b 40, a 41, a b 42, *a* 43; (Targum), a 69, note; *Targum*, b 69
Palestrina, city (Præneste), XIX, a 674, a 675
PALESTRINA, Giovanni Pierluigi da, composer, XVIII, a 183-5; (Mendelssohn), XVI, b 11; (Music), XVII, b 91, a 92; (Tallis), XXIII, a 39; (Thibaut), *b* 321
Palette (Painting), XVIII, a 142
PALEY, William, theologian, XVIII, b 185-7; (Colossians), VI, a 149; (Ethics), VIII, a 531, b 532-3; (Price), XIX, a 742
Palfyn, Jean (Anatomy), I, b 714
PÁLGHÁT, town, XVIII, a 187; (Malabar), XV, *a b* 315; gap (Coimbatore), VI, b 106; (Gháts), X, *b* 499; (India), XII, a 772, a 777; (Malabar), XV, b 314, a 315
PALGRAVE, Sir Francis, historian, XVIII, a 187; (Cædmon), IV, *b* 559; (Polo), XIX, a 422; (Records), XX, a 326
—— William Gifford, traveller (Arabia), II, a b 220, b 229, a 230; (Camel), IV, b 651, a 652; (Coffee), VI, a 102, a b 103; (Date Palm), a 732
Pali, laminar processes (Corals), VI, 332
PALI, language, XVIII, a 187-90
    distribution and growth, a 87-8
    European means of research, b 190
    literature, b 188-90
    Sanskrit, relation to, a b 188
—— (Buddhism), IV, a 381, b 392; (Ceylon), V, a b 318; alphabets (Sanskrit), XXI, b 285; Burmese dialect, IV, a 496; Dictionaries, VII, a 166; (Childers), V, a 535; Inscriptions, XIII, b 124; XVIII, a 188, a 189; (Sanskrit), XXI, b 285
Pali, tribe (Scythia), XXI, a 605
Palibothra, city (Patna), XVIII, b 419
Palice of Honor, poem (Douglas), VII, *b* 326
Palikao, Charles Guillaume Marie Apollinaire Antoine Cousin-Montauban, Comte de (War), XXIV, *a* 366
Palilia, festival (Chronology), V, b 618; (Moloch), XVI, a 722; (Pales), XVIII b 174

PALIMPSEST, MSS., XVIII, a 190; (Book), IV, a 34; (Brasses), b 197; (Fronto), IX, *a* b 705; (Palæography), XVIII, b 156, a b 166; *St. Jerome* (Gaius), X, b 16
PALINDROME, verse, XVIII, a b 190
Palingénésie Sociale (Ballanche), III, a 247
Palinurus, genus (Crustacea), VI, a 562, a 566, a 570 note
Palio della Contrade, festival (Siena), XXII, b 43
Pāli Pitakas (Lāmāism), XIV, b 227
Palisa, astronomer (Telescopic Work), XXIII, a 936
Palisade (Fortification), IX, a 372; tissue (Botany), IV, a 97; worm (Veterinary Science), XXIV, a b 222
Palisades (Hudson River), XII, b 345; (New York), XVII, b 462
Palissot, Charles de Montenoy, author (Morellet), XVI, a 847
PALISSY, Bernard, author and potter (Ill.), XVIII, b 190-1; (France), IX, b 577; (Pottery and Porcelain), XIX, b 648
PÁLITÁNA, state, XVIII, b 191
Pal K'or-tsan, king (Tibet), XXIII, *b* 367
Pall. See PALLIUM
Palladas, grammarian (Anthology), II, a 93
PALLADIO, Andrea, architect, XVIII, b 191-2; (Architecture), II, *b* 382, *a* 384, a 385, *a* 386, b 400; (Jones Inigo), XIII, b 748; (Theatre), XXIII, b 243; (Venice), XXIV, a 158, a 162, a 167; (Vicenza), a b 227
Palladiocyanides (Chemistry), V, a 466
PALLADIUM, image, XVIII, a 192; (Areopagus), II, *a* 425; (Athena), *b* 727; (Minerva), XVI, b 456; (Pelops), XVIII, a 491; (Troad), XXIII, a 620; of Rome (Vesta) (Ill.) XXIV, a 210; (Wood-Carving), a 630
——, metal (Chemistry), V, a 465-6; (Graham, T.), XI, b 30; (Mineralogy), XVI, *b* 398; (Platinum), XIX, *b* 203, a b 204-5; (Wollaston), XXIV, a 667; alloy (Gold), X, b 668-9; (Mineralogy), XVI, b 398
PALLADIUS, Rutilius Taurus Æmilianus, author, XVIII, b 192
——, Arian bishop (Ambrose), I, b 582
——, saint, bishop (Ireland), XIII, *a* b 253; (Patrick, St.), XVIII, a b 422; (Scotland), XXI, b 496
PAL LAHARA, state, XVIII, b 192
Pallantia, city (Palencia), XVIII, b 172
Pallanza, town (Maggiore), XV, b 199
Pallas, asteroid (Astronomy), II, b 705, a 706
"Pallas," frigate (Dundonald), VII, a 466
——, goddess (Athena), II, a b 727; (Palladium), XVIII, b 192; bird of (Owl), a b 94
——, town (Goldsmith), X, b 676-7
PALLAS, Peter Simon, naturalist, XVIII, b 192-3; (Lancelet), XIV, *b* 259; (Ornithology), XVIII, a 12; (Parasitism), b 262; (Sun-Bittern), XXII, *b* 686; (Tape-Worms), XXIII b 54
PALLAVICINO, Ferrante, satirist, XVIII, a 193
PALLAVICINO or Pallavicini, Pietro Sforza, cardinal, XVIII, a b 193; (Drama), VII, a 361; (Sarpi), XXI, b 327; (Trent, Council of), XXIII, b 586
Pallegoix, J. B., orientalist (Siam), XXI, b 894 note, a *b* 895, notes, b 896
Pallet (Heraldry) (Ill.), XI, b 618
Pallets (Clocks), VI, b 17, b 23
Palliata, comedy (Drama), VII, *b* 355
——, section (Mollusca), XVI, b 679
Pallio-cardiac band (Mollusca), XVI, a 703
Palliot, Pierre, genealogist (Griffin), XI, a b 174
Palliser, Mrs. Bury, antiquarian (Lace), XIV, *a* 192
—— conversion system (Gunmaking), XI, a 257
—— islands (Tuamotu), XXIII, b 639 note
—— shells (Ammunition), I, a b 653; (Gunnery) (Ill.), XI, b 271
PALLIUM, vestment, XVIII, b 193; (Anselm), II, a 82; (Costume), VI, a 404, a b 410
—— of mollusca. See Mantle
Pall Mall (London), XIV, b 831, a 835, a 850, a 859, b 861
Palm, measure (Weights and Measures), XXIV, a b 510, *b* 511
PALM, tree (Ill.), XVIII, b 193-5; (Botany) (Ill.), IV, a b 78, a b 80, b 83, *b* 85, b 88, b 92-4, a 98, *a* 102, b 103, *b* 108, b 110, b 111, a 141, a 142; (Africa), I, b 240-1; (Ceylon), V, a b 315; (Cocoa-nut Palm), VI, b 94; (Colombia), a 139; (Dahomey), a 675; (Egypt), VII, b 613, b 615; (Guiana), XI, b 222, a b 225; (Horticulture), XII, *b* 276-7; (Italy), XIII, b 450; (Man), XV, b 458; (New South Wales), XVII, b 420; (Oases), a 715; (Sago), XXI, b 156, a 157; areca (Betel), III, b 532; cabbage (Cabbage), IV, b 549; (Fibres Textile), IX, a 116; Coyol (Nicaragua), XVII, a 492; Rotang or Rattan (Dragon's Blood), VII, b 336
——, Johann, bookseller (Nuremberg), XVII, a 682
——, Johann Heinrich van der, historian (Holland), XII, b 100
Palm-civet (Mammalia), XV, b 442
Palm kernel cake (Oil-Cake), XVII, b 759, a 760; leaf MSS. (Tamils), XXIII, a 49; Nut, XVII, a 683, a 684; oil (Forests), IX, b 359; (Oils), XVII, b 760, b 761, a 762, b 765, a b 766; oil tree (Africa), I, b 240-1; (Sugar), XXII, a 661
PALM SUNDAY, festival, XVIII, a b 202
Palm-tree wax (Forests), IX, a 358; (Wax), XXIV, a 485, a 486
PALMA, city and bay, Majorca, XVIII, b 195-6; (Balearic Islands), III, a b 239, *a* b 240; church of (Architecture), II, b 379
—— island (Canary Islands), IV, *b* 702, a *b* 703, a 706
——, Giovane, painter, XVIII, a 196; (Titian), XXIII, b 442, a 443
PALMA, Jacopo, painter, XVIII, a 196; (Titian), XXIII, b 441, a 443, a 444
——, Ricardo, poet (Peru), XVIII, a 689
PALMA CAMPANIA, city, XVIII, a 196
Palma Christi, plant (Castor Oil), V, a 174; (Jamaica), XIII, a 559
PALMA DI MONTECHIARA, city, XVIII, a 196
Palmar nerve (Anatomy), I, b 762
Palmary Synod (Popedom), XIX, *a* 507
Palmas, town (Canary Islands), IV, *a* 703, a 704, a 706
Palma Vecchio, painter. See PALMA, Jacopo
Palmblad, Vilhelm Frederik, editor (Sweden), XXII, a 795
Palmeirims (Portugal), XIX, a 572
Palmella, duke of (Portugal), XIX, *b* 567, a 568, a 569, a 570
Palmellaceæ, order (Vegetable Kingdom), XXIV, a 137, b 138
Palmén on migration (Birds), III, a b 666, note, a 667
PALMER, Edward Henry, orientalist, XVIII, a b 196; (Sepulchre), XXI, a 705 notes
——, John, manager (Post-Office), XIX, *b* 581-2
——, Ray, hymn-writer, *b.* 1808, *d.* 1887 (Hymns), XII, b 630
PALMER, Samuel, painter, XVIII, b 196-7
Palmerin de Oliva (Romance), XX, a 673-4
Palmerston, town (South Australia), XXII, b 297
PALMERSTON, Henry John Temple, viscount, XVIII, a 197-202
  Aberdeen's cabinet, b 200
  character and biographies, a 202
  family and early affiliations, b 197-8
  French policy, b 199
  Grey's cabinet, a b 198
  premier, b 200-2
  quadruple alliance, b 198
  revolution of 1848, b 199-200
PALMERSTON, *continued*
  Russell administration, a b 200
  Russo-Turkish policy, b 198-9
  Wellington's cabinet, a 198
—— (Brougham), IV, b 338; (Cabinet), a 551; (Clarendon), V, a 706; (Cobden), VI, *a b* 81, a 82; (Dalling), a b 689-90; (Guizot), XI, *b* 239, *a* 240; (Malmesbury), XV, a 339; (Russell), XXI, *b* 70-1
Palmezzano, Marco, painter (Forli), IX, b 365
Palmieri, Matteo, historian (Botticelli), IV, a 151
Palmieri's seismometer (Earthquake), VII, a b 529
Palmistry (Divination), VII, a 255; (Witchcraft), XXIV, b 654
Palmitin (Chemistry), V, b 497; (Oils), XVII, b 760, a b 761, a 767; (Wax), XXIV, a 486
Palmo, measure (Weights and Measures), XXIV, a 518
PALMYRA or Tadmor, city, XVIII, b 202-7
  Arabic origin of, b 202-3
  aspects of the city's life, a b 204
  authorities, a 207
  Odænathus, ruler, a 205-6
  Roman and Parthian war period, b 203
  ruins, b 206
  Septimian era, b 204
  situation, b 202
  Zenobia, regent, a b 206
—— (Commerce), VI, a 176, a 177, b 178; (Inscriptions), XIII, a 123; (Numerals), XVII, a b 640; (Numismatics), b 666; (Syria), XXII, a 860, a 862; inscriptions (Semitic Languages), XXI, b 679-80
Palni hills (Madras), XV, b 185; (Madura), *b* 193
Palo, Punta del, mountain (Italy), XIII, b 452
Palolo, Annelid, II, a 64; (Polynesia), XIX, b 433
PALOMINO DE CASTRO Y VELASCO, Acisco Antonio, artist, XVIII, a 207
Palos, cape (Spain), XXII, a 307
——, district and city (Celebes), V, *a* 252
——, town (Columbus), VI, *b* 154, b 155
Palouse district (Washington), XXIV, b 406
Palpi (Arachnida), II, b 238, *a* b 240, b 241, b 243, b 246, *a* b 247, b 249, b 252, b 253, a b 254, a 256, *b* 258-9
Palpicornes (Coleoptera) (Ill.), VI, a 118
Palpitation (Heart), XI, b 494
Palpocils, hairs (Hydrozoa), XII, b 582
Palsgraves of the Rhine. See Palatinate
Pálsson, Gunnar, poet (Iceland), XII, b 658
Palsy (Colic), VI, b 126; creeping (Atrophy), III, b 45. See PARALYSIS

Paltatamba, town (Ecuador), VII, b 562
Paltava (Poushkin), XIX, a 669
Paludamentum, cloak (Costume), VI, a 404
PALUDAN-MULLER, Frederik, poet, XVIII, a 207; (Denmark), VII, b 81; (Drama), a 382
Paludicella (Polyzoa) (Ill.), XIX, a b 444-7
Paludina, river-snail (Mollusca) (Ill.), XVI, a 662, b 667, a 673, a b 675, a 677
Paludinidæ, family (Snail), XXII, b 197, a 198
Palus Mæotis, sea (Azoff), III, b 146
PALWÁL, district, XVIII, b 207
"Pamali" (Taboo), XXIII, a 22
Pámbai river (Travancore), XXIII, b 558
Pambam, port (Rameswaram), XX, a 278
Pambuk Kalessi, ruins (Hierapolis), XI, a 707
Pamela, novel (English Literature), VIII, a 383; (Fielding, H.), IX, a 127; (Richardson), XX, *b* 558-9; satire on (Foote), IX, a 329
PAMIERS, town, XVIII, b 207
Pamingir or Telaga, lake (Borneo), IV, b 50
Pamir, plateau (Asia), II, b 599; (Himalaya), XI, b 735; (Hindú Kúsh), b 747, b 748; (Kuen-lun), XIV, b 153; (Oxus), XVIII, b 106, a b 107; (Turkestan), XXIII, b 672, b 673-4, b 675, a 676, b 678; acquisition of (Russia), XXI, *b* 73
Pamisus river (Messenia), XVI, b 57
Pampa de Mata Cavallos (Peru), XVIII, a 684; de Tamaragal (Peru), b 684, a 688
—— Mud (Uruguay), XXIV, b 19
Pampanga Dictionary, VII, b 166
Pampas, plains (America), I, b 594, b 625; (Argentine Republic), II, *b* 429, a 430, a 431, *a* 434; (Cattle), V, a 214; Indians of (Argentine Republic), II, *b* 434; (Indians), XII, b 869
—— -grass (Horticulture), XII, b 258
Pampeluna, city. See PAMPLONA
"Pampero," wind (Meteorology), XVI, b 154
Pamphila, biographer (Thucydides), XXIII, b 343
Pamphili, Giovanni Battista. See INNOCENT X., Pope
Pamphilus, painter (Kertçh), XIV, a 55
PAMPHILUS, theologian, XVIII, b 207-8; (Eusebius), VIII, *b* 632
—— of Alexandria, grammarian (Gloss), X, a 612
PAMPHLETS, XVIII, a 208-10
  definition, a 208
  English, a 208-9
  French, b 209
  literature of, a b 210
  —— (Newspapers), XVII, b 424; binding (Libraries), XIV, b 538
PAMPHYLIA, district, XVIII, b 210-1; (Numismatics), XVII, a b 665
PAMPLONA, city, XVIII, a b 211; (Navarra), XVII, *b* 256
Pamprodactylæ, group (Mouse-Bird), XVII, b 12
PAN, god, XVIII, a 211; (Echo), VII, b 555; (Faun), IX, b 47; Egyptian god, VII, b 622
Pan in placer mining (Gold), X, a 663
Pan, Mallet du. See Mallet du Pan
Panabat, coin (Persia), XVIII, a 633
PANÆTIUS, philosopher, XVIII, a 212; (Stoics), XXII, b 599, *a b* 600
Panágur, town (Jabalpur), XIII, b 538
Panamá bay (Colombia), VI, a 137, b 138
—— canal (Paterson), XVIII, b 365 note; (River Engineering), XX, a 588
PANAMÁ, city and state (Map), XVIII, a 212-3; (Buccaneers), IV, a b 368; (Colombia), VI, a 139, a b 140
——, Isthmus of (America), I, b 588; (Andes), II, b 15; (Mexico), XVI, b 223; railroad (America), I, b 627; (Pacific Railroads), XIX, a b 913; sea-levels at (Surveying), XXII, b 744
—— hats (Straw), XXII, a 623
Pan-amalgamators (Gold) (Ill.), X, b 665; (Mining), XVI, a 485, b 492
Panama screw pine (Fibres, Textile), IX, a 116; shell (Pearl), XVIII, b 458
Panamint mountains (California), IV, a 619, b 622
Panapee island (Caroline Islands), V, b 111
Panaretus, Michael, historian (Trebizond), XXIII, a 567
Panaria, island (Lipari Islands), XIV, a 689
PANATHENÆA, festival, XVIII, b 213-4; (Athens), III, b 6; (Greece), XI, b 122; (Theseus), XXIII, a 315
Panathenaicus, oration (Isocrates), XIII, a 399, a 403
Panaulon (Transverse Flute), XXIII, a 554 note
Panax, plant (Ginseng), X, b 539-40
Panay, island (Philippine Islands), XVIII, a 766
Pan Chaou, general (China), V, a 560
Pâñcharâtras, sect (Sanskrit), XXI, a 306
Panchatantra (Fable), VIII, *a* 733; (Sanskrit), XXI, a 301, note
Panchavimsa-brahmana (Sanskrit), XXI, *a* 291
Panchayat, village council (India), XII, b 811
Pánch-chulí, mountain (Himalaya), XI, a 737
Pánchet fossil group (India), XII, a 775
PÁNCH MAHÁLS, district, XVIII, a 214
Pánchpárá, river (Balasor), III, b 235
Panchpíri of India (Bázigars), III, *a* 397
Panckoucke, Charles Joseph, editor (Encyclopædia), VIII, *b* 184, a 185; (Newspapers), XVII, *b* 435
Pancleon, Against (Lysias), XV, b 120
Pancorbo pass (Spain), XXII, b 307
Pancratium, game (Athletæ), III, b 12; (Games), X, b 58
Pancreas (Digestive Organs), VII, b 201-2; Nutrition, XVII, a 688, a 689, *b* 690, b 691, b 693, a b 695, *b* 696; (Pathology), XVIII, a 398; in Amphibia, I, a 669; bloodvessels of (Anatomy), I, *a* 793, a 796; in diabetes (Pathology), XVIII, a 395; in dibranchiata (Mollusca), XVI, a 702; secretions of (Physiology), XIX, b 21-2
Pancreatine (Fermentation), IX, a 85
PANCSOVA, town, XVIII, a 214
Panda, carnivore (Mammalia), XV, a 448
Pandalus, crustacean (Shrimp), XXI, *a* b 886
Pandanus, plant (Micronesia) XVI, a b 268; (Polynesia), XIX, a 434
Pandareus, myth (Tantalus), XXIII, a 53
PANDARUS, myth, XVIII, b 214
Pandassan, cataract (Sabah), XXI, b 131
Pándava kingdom (Hastinapur), XI, a 457
Pândavas, family (Sanskrit), XXI, b 294, a b 295
Pan de Azucar, mountains (Uruguay), XXIV, b 20
Pandects of Justinian (Amalfi), I, b 573; (Burgundio), IV, b 478; (Carrier), V, a 122; (Justinian I.), XIII, b 802, *a b* 803; (Politian), XIX, a 358; (Thibaut), XXIII, a 322
Pandemus, goddess (Aphrodite), II, b 151
Pander, Christian, biologist (Embryology), VIII, b 150, *a b* 152, a b 154
PANDERPUR or Pandharpur, town, XVIII, b 214
Pandhurna, town (Chhindwárá), V, a 529
Pandian monarchy (Madura), XV, a 194
Pandik or Panteichon, ruins (Chalcedon), V, a 323
Pandion, genus (Osprey), XVIII, a 60
——, king (Nightingale), XVII, b 512
Pandita, Sakya, priest (Tibet), XXIII, b 367
Pandora, myth (Adam), I, *b* 126; (Hesiod), XI, a 695; (Mythology), XVII, b 164
Pandora, drama (Goethe), X, a 654
Pandora (Rossetti), XX, a 882
Pandosia, town (Numismatics), XVII, b 653, a 654
Pandua, town (Gaur), X, *b* 101, a 103, a b 104
Pandya, kingdom (India), XII, b 832-3
Paneas, town. See Panias
Panegyrics, imperial (Apollinaris Sidonius), II, a 162; Persian, XVIII, b 670
Panegyricus, oration (Isocrates), XIII, a b 399, note, a 403
Panegyricus (Pliny the Younger), XIX, b 237, note
Panegyry of Amen-Ra (Egypt), VII, a 677
Panel decoration (Architecture), II, a 412; (Protogenes), XIX, a 850; (Tempera), XXIII, b 173
Panels (Building), IV, b 437, b 438-9; Egyptian (Wood-Carving), XXIV, a 679; reliefs in (Wood-Carving) (Ill.), a 680, a b 682, a 683
Paneropleuridæ, fishes (Ichthyology), XII, a b 725
Pangæus, mountain (Macedonia), XV, a b 138
Pangani or Rufa, river (Kilimanjâro), XIV, a 76
——, town (Zanzibar), XXIV, a 806
Pangenesis (Atom), III, a 38
Panggilivang, town (Saleiyer), XXI, a 220
Pang limas, title (Áchín), I, a 91
PANGOLIN, mammal (Ill.), XVIII, b 214-5; (Mammalia), XV, a 351, a 357, a 387, b 391-2
Pangong lake (Tibet), XXIII, a 361
Pango-Pango. See Pagopago
Panhandle, district (Texas), XXIII, b 219, note, a 222
——, district (West Virginia), XXIV, a 546
Panhellenic festival (Pilgrimage), XIX, a 100 note
Panhormus, city. See PALERMO
Panias or Paneas, town (Cæsarea-Philippi), IV, *a* 568; battle of, 1179 (Templars), XXIII, a 177
Panic, commercial (Exchange), VIII, b 693-5; of 1792-3 (Banking), III, b 274; of 1825, a b 277; of 1837, United States (Jackson, A.), XIII, a 544; (United States), XXIII, b 814-5; of 1857, United States (Banking), III, b 293; of 1873 (United States), XXIII, b 831; restraint of (Banking), III, b 281
Panicaceæ (Grasses), XI, a 52, b 53
Panicale, painter. See MASOLINO
Paniceæ, group (Grasses), XI, b 49, b 51, *a* 52
Panicle (Botany), IV, b 110
Panicum, genus (Grasses) (Ill.), XI, a b 49, a 52, b 53; (Millet) (Ill.), XVI, a b 333
Panieful, lake (Senegal), XXI, b 692
Pânini, grammarian (Sanskrit), XXI, *b* 287, b 289, *a* 290, b 295, *a* 298, a b 306
Pan-Ionic festival (Ionia), XIII, b 210, b 211

PÁNIPAT, town, XVIII, b 215; (Karnál), XIV, a b 7; battle of, 1526 (Baber), III, a 156; battle of, 1761 (Afghânistân), I, a 214, a 215
Panis Catechumenorum, V, a 193
Panix pass (Glarus), X, b 566
PANIZZI, Sir Anthony, librarian, XVIII, b 215–7; (Libraries), XIV, a 514, a 515; (Mérimée), XVI, b 42, a 43
Panja or Panjah river (Hindú Kúsh), XI, b 748; (Oxus), XVIII, b 106, a b 107, note, a 108
Panjab, district. See PUNJAB
Panjābī, language (Hindustani Literature), XI, a 753, b 754
Panjál range (Kashmír), XIV, b 11, *a b* 12
Panjim, town (Goa), X, b 629, a b 630
Panj Kora river (Afghânistân), I, a 205, a 206
Panjnad, river (Indus), XII, b 888
Panjshir valley (Hindú Kúsh), XI, b 748
Paukás, Hindu sect (Bilás-pur), III, a 580
Panmure, Fox Maule, lord (Phillip), XVIII, b 771
PANNA or Punnah, state, XVIII, a 217; hills and town (Bundelkhand), IV, *a* 466
Pannage, right of (Oak), XVII, b 711
Pannarts, Arnold, printer (Typography), XXIII, *a* 729, a b 739
Pannemaker, Stéphane, engraver (Engraving), VIII, b 390
Panniculus carnosus (Anatomy), I, a 732
Panniers, field (Ambulance), I, a 587
PANNONIA, country, XVIII, a b 217; (Charlemagne), V, b 349; (Hungary), XII, *a* 382; (Huns), b 397; (Methodius), XVI, a b 202; campaigns in (Tiberius), XXIII, b 356, a b 357
Pannonius, Pestinus, lexicographer (Hungary), XII, a 390
——, Sylvester, grammarian (Hungary), XII, a 390
Panodorus, monk (Chronology), V, b 620
Panopæa, crustaceans (Distribution), VII, a 242
Panopolis (Abbey), I, b 17; (Ekhmin), VII, b 688; Textiles from, XXIII, a 226
Panopticon (Bentham), III, a 497
PANORAMA, XVIII, b 217–8; (De Loutherbourg), VII, a 47; (Fulton, R.), IX, a 717; (Projection), XIX, b 828–9
Panormus, town (Numismatics), XVII, b 655; (Rome), XX, b 766; (Sicily), XXII, *a b* 29, *a* 30. See PALERMO
Panorpidæ, family (Insects), XIII, a 158
Pānrē factions (Nepāl), XVII, *a* 354
Pans (Dairy), VI, a 679
Pansa, lake of (Bolivia), IV, b 11
Panshanger House (Hertford), XI, a 690
PANSY, flower, XVIII, a 218; (Botany) (Ill.), IV, b 101, a 102, a b 124, b 129, a 130, a 142; (Horticulture), XII, a b 266; (Violet), XXIV, a 264
PANTÆNUS, catechist, XVIII, a 218; (Clemens Alexandrinus), V, b 715, a b 716
Pantagruel, satire (France), IX, a b 574; (Rabelais), XX, a *b* 201, a 202, a 203–5
Pantala flavescens, insect (Dragon-Fly), VII, a b 336
Pantaleon de Venetiis, rector (Universities), XXIII, b 889
Pantaloons (Costume), VI, a 422
Pantanaw, town (Thúnkhwa), XXIII, b 351
PANTELLARIA or Pantallaria, island and town, XVIII, a b 218; (Sicily), XXII, a 36
Panteon, burial place (Guadalajura), XI, a 203
Pantheism (Brahmanism), IV, a 183, *b* 186, a b 188; (Cousin), VI, a 467; (Hindustani Literature), XI, a 754; (Mohammedanism), XVI, b 616; (Mysticism), XVII, a 136, a 137; (Theism), XXIII, a b 253, b 255–6; Christian (Eckhart), VII, a 557; dynamic (Neoplatonism), XVII, a 345; Malebranche's tendency towards (Cartesianism), V, b 131; mystic (Scholasticism), XXI, a b 444; Súfic (Persia), XVIII, a 671
Pantheistic materialism (Milton), XVI, b 351
Pantheisticon, liturgy (Toland), XXIII, *a* 463
Pantheistic universal (Scholasticism), XXI, a 442
Pantheon, temple, Rome (Agrippa, M. V.), I, a 371; (Architecture) (Plate XIV–XVI), II, a 364, a *b* 365, *a* 367, b 380; (Dome), VII, a 301, *a* 302; (Rome) (Ill.), XX, a b 826, a 827, a b 828, a b 849, notes; (Tiles), XXIII, b 414, note
——, temple (Pompeii), XIX, b 461
Panthéon, church (Paris), XVIII, b 281, a b 293, a 298, b 299
Panther, carnivore (Leopard), XIV, b 463; (Mammalia), XV, *a* 441; American (Puma), XX, a b 110
Panticapæon, Greek colony (Greece), XI, a 86; (Kertch), XIV, *b* 54; (Numismatics), XVII, a 656
Panticapes river (Scythia), XXI, b 602, note
Pantiles (Brick), IV, b 252; (Building) (Ill.), b 414
Pantin, town (Seine), XXI, b 655
Pantochronochanon, genealogy (Urquhart), XXIV, a 17
Pantodontidæ, family (Ichthyology), XII, b 711, b 732
PANTOGRAPH, instrument (Ill.), XVIII, b 218; (Surveying), XXII, b 758
PANTOMIME, XVIII, a 219–20; (Ballet), III, b 248–9; (Dance), VI, a 703, b 704, a 705; (Drama), VII, b 354, b 356; London (Theatre), XXIII, b 244
Pantotheria, order (Zoology, American), XXIV, a b 925
Pantshen Lāma, priest (Buddhism), IV, a 392; (Lāmāism), XIV, b 230, a 231
Pantuns, poems (Malays), XV, b 328, *a* 329
Panuridæ, family (Birds), III, *b* 654
Panurus, genus (Titmouse), XXIII, a 447
Panvel, city (Thána), XXIII, a 239
PANYASIS, poet, XVIII, b 220; (Herodotus), XI, *a* b 676
Pan-yul valley (Tibet), XXIII, b 368 note
Panzer's *Annales Typographici* (Bibliography), III, a 566
Panzos, town (Guatemala), XI, a 214
Paoletti, Ferdinando, publicist (Political Economy), XIX, a 376
Paoli, Clemente, patriot (Paoli), XVIII, a b 221
PAOLI, Pasquale de, patriot, XVIII, b 220; (Boswell), IV, a 69; (Napoleon I.), XVII, *a b* 200-1
Paolino, Fra, author (Italy), XIII, a 512
Paólo or Polo, Agnolo di, sculptor (Verrocchio), XXIV, b 190
Paou-ting Foo, city (China), V, a *b* 550
PÁPA, town, XVIII, b 221
Papacy (England), VIII, b 284, a b 291, b 298–300, b 304–5, a 306, b 310; (England, Church of), b 332–6; (Ferdinand I., Aragon), IX, b 70; (Germany), X, b 437, a 438–9, b 440, b 442, *b* 443, a 446; (Gerson), b 491, a 492; (History), XII, b 26; (Malta), XV, b 344; (Rome), XX, a 800, a 801, b 803–4; its accommodation to the age (Clement XIV.), V, b 719; 14th century (Universities), XXIII, a b 891
Papacy, History of During the Reformation, Creighton (Popedom), XIX, a 525
——, influence of (Germany), X, *a* 435, b 433; in Ireland (Episcopacy), VIII, a b 435; mediæval (Reformation), XX, b 334, a b 335, a 336–7; (Universities), XXIII, a b 891; organization of (Roman Catholic Church), XX, b 644, a 645; reformation of (Henry III., Emperor), XI, a 595; its relations with the Jesuits, XIII, a b 658–9, a b 662, a b 663, a b 664, a b 665, a b 666; its temporal power (France), IX, b 469, b 552; (Pius IX.), XIX, a b 168. See Pontiff, POPEDOM
Papagallo, river (Tlaxcalla), XXIII, a 449
Papagoes, tribes (Indians), XII, b 873
Papal absolutism (Cardinal), V, b 86–7; (Maistre), XV, b 309, a 310; (Trent, Council of), XXIII, a 580, a 585, a 586; (Vatican Council), XXIV, b 122, a b 123; Antichrists, II, b 111
—— authority (Perugia), XVIII, a 694; (Sarpi), XXI, b 326–7; (Scotland), a 510, a 525; (Silvester), XXII, b 82; decline of (Paul V.), XVIII, a 442; in Prussia (Bunsen), IV, b 467–8
—— bulls (Freemasonry), IX, b 659; (England), VIII, b 291
—— cabinet, mediæval (Rome), XX, a 803; censure of Arnauld, II, *b* 542
—— coins (Numismatics), XVII, b 675, a 676; Consistories, VI, b 260–1; court (Curia), b 627; Crown, a 547; documents (Papyrus), XVIII, b 237; handwriting of (Palæography) (Ill.), a 160
—— election (Cardinal), V, b 87; (Gregory X.), XI, a 159; (Rome), XX, b 808; law of (Nicholas II.), XVII, a 497
—— embassy (Legate), XIV, b 412–3; Excommunication, VIII, b 699; exile (Italy), XIII, b 486, b 490
—— grants (Ireland), XIII, b 264, a 265; Index of Prohibited Books, III, a 570; (Index Librorum), XII, a 768–9
—— infallibility. See Infallibility, Papal
—— influence on British Church (Bede), III, b 415; inviolability (Concordat), VI, a 215; jurisdiction (Cranmer), a 487; (Cromwell, Thomas), b 534–5; policy, 15th century (Universities), XXIII, b 896, *a* b 897
—— power (Italy), XIII, b 478, b 479, a b 481, a b 482, a 484, a b 485, a b 486, b 488, b 490, b 491, a b 492, a 493, a 494, a 496, a 499; overthrow of (Italy), a b 501, b 522
—— reform (Martin V.), XV, *b* 589; (Italy), XIII, a b 481, a 498
—— revenue (Annates), II, b 55; (Popedom), XIX, a 508, a 509, b 518; (Propaganda), a 834
—— Ring, XX, b 576; schism (Bernard), III, a b 520; (Huss), XII, a 420
—— see (Italy), XIII, b 468–9, a b 481, a 482, a 485, a 486, a 494; States. See STATES OF THE CHURCH
—— supremacy (Basel), III, a b 353; (Gelasius I.), X, a 117; (Greek Church), XI, b 139–40; (Gregory II.), b 157; (Gregory VII.), a b 158; (Henry IV., Emperor), b 595; (Hierarchy), b 707; (Ireland), XIII, b 265, a b 268, b 269, a 273; (John VIII., Pope), a 721; (Luther), XV, a 75; (Na-

Papal supremacy, *continued* ples), XVII, a b 198; (Occam), b 739; (Odoacer), b 747; (Popedom), XIX, b 503, a b 504, a 505, a b 506, b 509-10, b 515, b 517, note, a 518; (Spain), XXII, b 330, a 333; (William I.), XXIV, a 608; (William II.), b 609
—— system (Apostle), II, a 170
—— tapestry (Textiles), XXIII, b 231
—— wars (Italy), XIII, b 485–6; (Venice), XXIV, a b 158
Papandi, town (Paxo), XVIII, b 450
Papar or Pappar or Pappal river (Sabah), XXI, b 131
Paparesci, Gregory. See INNOCENT II., Pope
Paparrhegopoulos, historian (Greece), XI, a 108, a 111, b 112, b 132, a 136
Paparo, cardinal (Ireland), XIII, a 261
Papa-Stour island (Orkney), XVII, b 870
Papaver, plant (Horticulture), XII, a 255, b 259; (Opium), XVII, b 809
Papaw-tree (Botany) (Plate VI), IV, b 85, b 99, a 138
Pape, bird (Nonpareil), XVII, b 547
Papeete, town (Tahiti), XXIII, a 28
Papelon, food (Venezuela), XXIV, b 151
Papencordt, Felix, historian (Rome), XX, a b 802, b 824
PAPER (Ill.), XVIII, a 221–31
  Asiatic history of, a 221
  English history and prices of, b 222-3
  introduction in European countries, a 221–3
  machine (Ill.), b 224–7
  manufacture, a 223–30
  materials other than rags, a 229–30
  rags, treatment of, b 223–9
    assorting and cleaning, b 223
    breaking and beating (Ill.), a b 224
    calendars (Ill.), a b 228
    cutters (Ill.), a 227
    hand-made paper, b 228
    paper machine (Ill.), a b 225
    sizing (Ill.), b 224, a 226–7
  sizes, trade, 230
  soda recovery, b 230
  trade statistics, a 230-1
—— (Birch), III, b 603; (Book), IV, a 34; (Enamel), VIII, a 167; (Esparto), *a* 484; (Eucalyptus), a 571; (Fibres, Textile), IX, *b* 116; (France), b 460, b 464; (Filters), b 149; (Lithography), XIV, a 707; (Mildew), XVI, b 306; (Painting), XVIII, a 144; (Parchment), a 276; (Patents), b 880; blotting (New Haven), XVII, b 404; early use of (Palæography), XVIII, b 148, b 155; invention of (Arabia), II, b 232; (Bibliography), III, a 564; (China), V, b 575
——, mountain (Mineralogy), XVI, b 435
——, preparation of (Photography), XVIII, a 842; printing, sizes of (Typography), XXIII, a 746; toned (Typography), a 757; transfer (Lithography), XIV, b 704, a b 705; webs of (Typography), XXIII, b 754
—— currency (Exchange), VIII, a 689–91; (Money), XVI, a 752, a 757; (Italy), XIII, a b 477. See Greenbacks
—— cylinders (Calender), IV, a *b* 605
—— -folding machinery (Stationery), XXII, a 478
—— -hanging (Building), IV, a 459; (Mural Decoration), XVII, b 44–5
—— -making materials, Bleaching of, III, a b 713
—— manufacture (Edinburgh, County), VII, a 571; (India), XII, a 803; (Isère), XIII, a 396; (Italy), b 463; (Mohammedanism), XVI, b 619; (Scotland), XXI, b 558; American (Patents), XVIII, b 880; (Philadelphia), b 754
—— Mildew, XVI, b 306
Paper Money (Turgot), XXIII, a 670. See Paper Currency
—— pulp (Fir), IX, a 194
—— -ruling (Stationery), XXII, a 478
—— -staining (Over Darwen), XVIII, a 81
—— trade (Europe), table, VIII, a 622
Paphenemo island (Caroline Islands), V, b 111
PAPHLAGONIA, province XVIII, a 231–2; (Asia Minor), II, *b* 617; (Numismatics), XVII, a 662
Paphnutius, theologian (Socrates), XXII, b 252
PAPHOS, cities, XVIII, a 232; (Cyprus), VI, a 660; (Temple), XXIII, a 183
Papi, Lazzaro, historian (Italy), XIII, b 524
Papianus, code (Salic Law), XXI, a 226
PAPIAS, bishop, XVIII, a 232; (Bible), III, b 555, a b 556; (Canon), V, b 8; (Gospels), X, a 713 note, a 725–6, a b 729 note, a 730, b 746 note; (John, Apostle), XIII, a b 718
PAPIER MACHÉ, XVIII, a b 232; in stereotyping (Typography), XXIII, a b 748
Papilio, moth (Butterflies) (Plate XXVII), IV, a 528, a *b* 529
Papilionaceæ, order (Botany) (Ill.), IV, *a* 116, b 117, a 123
Papillæ, dental (Digestive Organs) (Ill.), VII, b 204–6; of hair (Anatomy), I, b 788, *a* 789; of skin (Anatomy), *b* 788, *a* b 789; of tongue (Anatomy), b 786–7; (Taste) (Ill.), XXIII, b 85, a 86
Papillitis, disease (Ophthalmology), XVII, b 806
Papilloma, intra-canalicular (Pathology) (Ill.), XVIII, b 386
Papillomata, warts (Pathology), XVIII, a b 386
Papillon, Philibert, biographer (Salmasius), XXI, *a* 231
Papillotos, poem (Jasmin), XIII, b 604, a 605
PAPIN, Denis, inventor, XVIII, b 232–3; (Perpetual Motion), a 566; (Pneumatics), XIX, *a* 258; (Steam-Engine), XXII, b 491–2
PAPINIAN, Æmilius, jurist, XVIII, a 233; (Roman Law), XX, *b* 730, a b 731; (Scotland), XXI, b 494 note
Papireto, steam (Papyrus), XVIII, a 237
"Papista antipapista" (Biel), III, b 576
"Papists' conspiracy" (November), XVII, a 621
PAPPENHEIM, Gottfried Heinrich, Grafzu, general, XVIII, a b 233
Pappophoreæ (Grasses), XI, b 49, b 52
Pappus, floral (Botany) (Ill.), IV, b 118, a 119
PAPPUS of Alexandria, geometer, XVIII, b 233-5; (Analysis), I, a 696, b 697; (Apollonius of Perga), II, *a b* 164, a 165; (Euclid), VIII, *b* 576, *a* b 577; (Porism), XIX, *a b* 534, a 535; (Theodosius), XXIII, a b 279; his theorems (Mensuration), XVI, b 32
Paprocki, Bartholomew, chronicler (Poland), XIX, a 313
Paps of Jura, hills, XIII, b 792; (Scotland), XXI, a 548
Papua, islands. See New Guinea
——, Gulf of (New Guinea), XVII, a *b* 396, b 399
Papuan group of birds, III, *b* 641–2; (Dove), VII, a 329
PAPUAN LANGUAGES, XVIII a 235; (Philology), b 793
Papuans, people (Aru Islands), II, b 585; (Australia), III, a 98; (Melanesia), XV, b 843–4; (Negro), XVII, b 325, a 326 note; (New Guinea), a 397–8; (New Hebrides), b 405; (Polynesia), XIX, a 435, a b 436–7
Papulæ, hairs (Histology), XII, *a* 20
Papular eruptions (Skin Diseases), XXII, b 130
Papyrotype process of photo-lithography (Photography), XVIII, a 847
PAPYRUS, plant (Ill.), XVIII, a 235–7; (Africa), I, b 231; (Egypt), VII, b 616; its use for writing (Book), IV, a 34; (Herculaneum), XI, b 648; (Macedonian Empire), XV, *a* 144; (Mummy), XVII, b 26, *a* 28; (Palæography), XVIII, a b 148, a 149, a 150, a 166, a 167
Par (Exchange), VIII, b 688, a 696; (National Debt), XVII, a b 251
PARÁ, city, XVIII, b 237–8; (Brazil), IV, b 202, b 207, b 210, b 213, a 214; river, XVIII, b 237; (Brazil), IV, b 199
——, province (Brazil), IV, a b 204, b 206, *b* 207, a 209, a b 210, *b* 212, b 213
—— gum (India-Rubber), XII, a *b* 876–7
Parabasis, speech (Drama), VII, b 352
Parable of the pounds (Jesus Christ), XIII, a 672, note, b 677; of the sower (Gospels), X, a 712; of the wedding (Gospels), b 711
Parables, New Testament (Fable), VIII, a 733; (Gospels), X, a b 712, a 713, a b 719; (Jesus Christ), XIII, b 675, a b 677, a 678, b 680; *Notes on the* (Trench), XXIII, b 575
Parables, Buddhaghosha's (Fable), VIII, b 733
Parabola (Conic Sections), VI, a 242–4, a 252–3; (Curve), *a b* 638–9; (Geometry), X, a b 357, b 367–8, b 371–2; (Infinitesimal Calculus), XIII, b 56–7; (Mensuration), XVI, b 23–4; axes and diameters of (Geometry), X, b 358–60; quadrature of (Archimedes), II, *b* 333
—— of temperature (Meteorology), XVI, b 122; of wind-velocity (Meteorology), a 161
Parabolic areas (Projection), XIX, b 819; illuminator (Microscope) (Ill.), XVI, b 282, b 283; involution (Geometry), X, b 360, *a* 362; motion (Hodograph), XII, b 44–5; orbit (Comet), VI, b 163 *sq.*; action in (Mechanics), XV, a 733; of light (Lighthouse) (Ill.), XIV, b 623–4; of sound (Acoustics) (Ill.), I, *a* 100; rifle grooves (Gunmaking) (Plate IV), XI, a b 262-3
Paraboloid (Geometry), X, b 365; (Infinitesimal Calculus), XIII, b 58; (Mensuration), XVI, b 31; equation of (Geometry), X, a 376-7
Parabranchia, organ (Mollusca), XVI, a 675
PARACELSUS, Theophrastus Bombast von Hohenheim, physician, XVIII, a 238–40; (Alchemy), I, b 407, *a* 410, a 412–3; (Boehme), III, a b 741; (Chemistry), V, a *b* 398; (Engadine), VIII, a 194; (Homœopathy), XII, *a* 130; (Medicine), XV, *a b* 818; (Pathology), XVIII, a 366, a 367; (Surgery), XXII, a 710
Parachute (Aëronautics) (Ill.), I, a 175, a 181–2
—— light balls (Gunnery), XI, a 271
Paraclete (Abelard), I, b 38, *a* 39; inspiration of (Montanism), XVI, a b 801–2; John's doctrine of (Gospels), X, a 745–6
Paradigm or example (Analogy), I, *b* 694

PARADISE, park, XVIII, a 240–1; (Adam), I, a 125, b 126; (Cosmas), VI, b 394; (Oxus), XVIII, a 106; flora of (Egypt), VII, *a* 616
—— or Parvise in Architecture, II, b 412, a 414
—— in Eschatology, VIII, b 474–5
Paradise, paintings (Orcagna), XVII, a 838; (Robusti), XX, b 625
——, birds of. See BIRDS OF PARADISE
Paradisea, bird (Oxynotus), XVIII, b 109 note; (Weaver-Bird), XXIV, a b 489, notes
Paradise-fish (Ichthyology), XII, b 729
Paradise Lost, Milton's (Copyright), VI, *a* 317; (Dryden), VII, a 424; (English Literature), VIII, b 378, a 379; (Hungary), XII, a 392; (Milton), XVI, b 340, a b 348, a 351; (Poetry), XIX, b 279, a b 280; (Turner), XXIII, b 705
Paradiso, vestibule (Piacenza), XIX, a 72
Parados, traverse (Fortification), IX, b 376
Paradosis, ceremony (Mysteries), XVII, a 132, b 133
Paradox, hydrostatic (Hydromechanics), XII, b 457
Paradoxes, theological (Luther), XV, *b* 74
——, Zeno's (Eleatic School), VIII, b 3; (Zeno), XXIV, a b 817
Paradoxurus, genus (Mammalia), XV, b 442
PARAFFIN, XVIII, a 241–7
  commercial products, b 243–4
  discoveries, a 241
  distillation products, a 242
  hydro-carbons, chemistry of, b 241–2
  Scotch industry, a 244–7
    commerce, a b 247
    crude works, a 245
    history, a 244–5
    products, b 246–7
    working the oil, a b 246
  specific gravities and inflammability, a b 243
—— (Candle), IV, b 709; (Chemistry), V, b 417; (Matches), XV, *b* 632, a 633; (Ozokerite), XVIII, a b 116; (Petroleum), a b 890, b 891–2; (Electricity), VIII, b 35; native (Mineralogy), XVI, b 447
Paraffins (Chemistry), V, a 482–4
Paragastrula, sac (Sponges) (Ill.), XXII, a 442
Paragon rib (Umbrella), XXIII, b 770
Paragonite (Mineralogy), XVI, a 431
Paragua, island. See Palawan
Paraguari, town (Paraguay), XVIII, a 249
Paraguasú, river (Brazil), IV, b 199
PARAGUAY, republic, XVIII, b 247–9; (Francia, J. G. R.), IX, b 606; boundary of (Argentine Republic), II, a b 429; (Brazil), IV, *a* 199; Jesuit missions (America), I, *a* 613, b 616, a 617; (Jesuits), XIII, b 662, a 665; law of (Patents), XVIII, a 363
——, *Natural History of* (Azara), III, a 145
—— river (Brazil), IV, *a* 200, b 203; (Cuyabá), VI, b 655; (Plate), XIX, a b 199, *a* 200; navigation of (Brazil), IV, a b 210
—— tea. See MATÉ
Paraguay, Tale of (Dobrizhoffer), VII, a 268
Paraha, town (Gold Coast), X, b 672
PARAHYBA or Paraiba, city, XVIII, b 249–50; province (Brazil), IV, *a* 202, b 210, *b* 212
—— do Sul, river (Brazil), IV, a 200
Parakeet. See Parrakeet
Paralactic or sarcolactic acid (Lactic Acid), XIV, b 197
Paralatæ, tribe (Scythia), XXI, b 603
Paralgia, sensation (Touch), XXIII, b 513
Paralipomena (Chronicles), V, b 613
Parallactic inequality, age of (Tides), XXIII, b 391, b 392–3
PARALLAX, XVIII, a 250–9
  formulæ for corrections, b 258–9
  lunar, b 256–7
  solar, a 250–6
    asteroid observations, a 254–5
    geometrical method, b 251
    gravitational method, b 250
    irradiation, b 251–2
    Mars, observations of, b 253
    photography, b 252–3
    physical method, b 255–6
    scale values, determination of, b 252
    Venus, observations of, b 251–3
  stellar, a 257–8
—— (Astronomy), II, a b 678, a 696–7; (Light), XIV, b 582; (Micrometer), XVI, a 265; annual (Measurement), XV, b 670–1; correction (Navigation), XVII, b 275; lunar (Astronomy) (Ill.), II, a 655, a 656, b 677, b 697–8; (Navigation), XVII, b 276, *a b* 280; stellar (Astronomy), II, a b 715; (Bessel), III, b 532
Parallel axes, rotation on (Mechanics), XV, a 698
—— cleavage, cranial (Surgery), XXII, a b 724
Parallelepiped (Geometry), X, a b 345
Parallel forces (Mechanics), XV, a 737
Parallelism in crystals (Mineralogy), XVI, b 364, *b* 384
——, Hebrew poetic (Bible), III, a b 552; (Isaiah), XIII, a b 394; (Lowth), XV, a 32
Parallel Lives (Plutarch), XIX, b 246
—— motion, beam-engines (Steam-Engine), XXII, a 537–8; Watt's (Steam-Engine), a 494; (Watt), XXIV, a b 435
Parallelogram of forces (Mechanics), XV, a 709; of velocities (Mechanics), b 688
Parallelograms (Geometry), X, b 336–7; (Mensuration), XVI, a b 19; theory of similar (Geometry), X, a 342–3
Parallel planes (Geometry), X, b 344; Projection, XIX, a b 818
PARALLELS, Theory of, XVIII, a b 259; (Geometry), X, a *b* 336, a 344, a b 347; non-euclidian (Measurement), XV, b 674
—— in Fortification, IX, a 390, a b 402
——, magnetic (Magnetism), XV, b 236–7
Parallel Surfaces, XXII, a b 706
Paraloi or Parali, party (Greece), XI, b 87; (Pisistratus), XIX, b 139, note, *a* 140
PARALYSIS, disease, XVIII, b 259–62
  brain disease, a b 260
  peripheral, b 261–2
  spinal cord, b 260–1
—— (Club-Foot), VI, b 41; (Diphtheria), VII, b 218; (Ferguson), IX, a 76; (Ophthalmology), XVII, *a* 808; (Pathology), XVIII, b 401; (Physiology), XIX, a b 42, a 44; (Throat Diseases), XXIII, a 342; bladder (Vesical Diseases), XXIV, b 206, a 207; general (Insanity), XIII, b 113–4; pseudo-hypertrophic (Hypertrophy), XII, b 632
Paramagnetics, law of (Magnetism), XV, b 264; list (Magnetism), a 265
PARAMARIBO, city, XVIII, a b 262; (Guiana), XI, a 221, *b* 223, *b* 224–5
Paramatta, town. See PARRAMATTA
Paramé, town (St. Malo), XXI, b 195
Paramendr Maha Mongkut, Phraor king (Siam), XXI, b 894
Parameras, plateaux (Avila), III, a 136; (Spain), XXII, a 308, b 310, a 311
Parameter (Conic Sections), VI, b 242; (Curve), b 637; of faces of crystals (Mineralogy), XVI, b 364, a 365
Pāramitās, Ten, virtues (Lamaism), XIV, a 227
Paramo de Guanacas (Andes), II, b 17
Paramœcium (Protozoa) (Ill.), XIX, b 860, a 887, a 888
Paraná, province (Brazil), IV, *b* 201, a 202, b 204, b 210, b 211, *b* 212, a 215; river (Argentine Republic), II, b 429, *b* 430, b 432; (Brazil), IV, *a* 200; (Plate), XIX, a b 199, *a* 200; navigation of (Buenos Ayres), IV, b 395
PARANAHYBA or Parnahyba, São Luiz de, city, XVIII, b 262; river (Brazil), IV, b 199, a *b* 200, *b* 202
Paraná-Panema, river (Brazil), IV, a 200
Parang, weapon (Gutta Percha), XI, a 302; (Sword), XXII, a 841
Parangi, skin disease (Yaws), XXIV, *b* 768
Paraniline (Chemistry), V, a 500
Paranucleus of ciliata (Protozoa) (Ill.), XIX, a 887, b 888–9
Parapegma, calendar (Ptolemy), XX, b 96
Paraperca, fish (Ichthyology), XII, a 727
Parapet in Architecture, II, b 412; in Fortification (Ill.), IX, a 371–2, b 374–9
Paraphernalia (Husband and Wife), XII, a 417
Paraphrases, Scotch (Hymns), XII, a 625, b 628
Paraphyses (Lichens) (Ill.), XIV, b 557
Paraplegia, disease (Paralysis), XVIII, b 260
Parapophysis (Mammalia), XV, b 359
Parasang or farsakh, measure (Weights and Measures), XXIV, b 518
Parâsara-smriti (Sanskrit), XXI, b 302
Paraselenæ (Halo) (Ill.), XI, a b 356
Parasira, genus (Mollusca) (Ill.), XVI, b 695, a 696
Parasites (Anatomy), I, a 789; (Annelida), II, b 60, a 62, a 63; (Anthropology), b 99; (Arachnida), a b 241, b 242, b 248, b 261, a b 262; (Baghermi), III, b 202; (Crustacea), VI, a b 564, b 567, a *b* 572, a b 576, a 577, a 580, *a* b 581, a 583, a b 588; (Diptera), VII, a b 223; (Echinodermata), a 555; (Galls), X, b 42; (Hag-Fish), XI, b 330; (Harvest Bug), b 447; (Hazel), XI, b 490; (Hessian Fly), a 698; (Hymenoptera), XII, b 606, *a b* 608, b 609, a *b* 610, *a b* 611; (House-Fly), a 331; (Humble-Bee), b 356; (Ichneumon-Fly), a 666; (Insectivorous Plants), XIII, b 146; (Insects), b 153, b 154, a b 155, *a* 157, a 159, a 160; (Louse), XV, a b 26; (Mercury), XVI, b 39; (Nematoidea), XVII, a 334–5; (Planarians), XIX, a b 185; (Protozoa), a b 861, a 877, b 883; (Trematoda), XXIII, *a* b 569, b 571–4; of bees (Insects), XIII, b 153, a b 155, a 157; on caterpillars (Butterflies), IV, b 529; of domestic animals (Veterinary Science), XXIV, a 222–3; of lichens (Botany), IV, b 96; of molluscs (Pearl), XVIII, a b 457; of sheep (Agriculture), I, b 350, b 352; transformation of (Schizomycetes), XXI, b 417; vegetable (Schizomycetes), b 415, *b* 423–5
Parasitic Birds, III, b 669; larva (Insects), XIII, b 151

- Parasitic diseases (Medicine), XV, a b 806, b 826; (Pathology), XVIII, b 417; (Skin Diseases), XXII, b 131-2
- —— nasal (N), XVII, b 166
- —— plants (Botany) (Plate), IV, a 84; (Dodder), VII, b 277-8; (Nux Vomica), XVII, b 706; (Peach), XVIII, a 453; (Physiology), XIX, b 55, a 58
- PARASITISM (Ill.), XVIII, a 262-76
  - animal, a 262-8
    - classification, b 265-6
    - distribution, a b 264
    - effects on hosts, b 267-8; on parasites, b 266-7
    - list of, a 263-4
    - nature and degrees of, b 264-5
    - origin and transmission, a b 266
    - taxonomy, b 264
    - theories, a 262-3
  - medical, a 274-6
    - nematodes and trematodes, a 275-6
    - skin diseases, a 274-5
  - vegetable, a 268-74
    - algæ and lichens, b 270
    - flowering parasites, b 268-70; gamopetalæ, b 268-9; monochlamydeæ, b 269-70
    - fungi, b 270-2
    - growth of research, a b 268
    - nature of, b 272-3
    - symbiosis, a 273-4
- —— (Botany), IV, b 145, b 147; (Fungus), IX, a b 728; (Insects), XIII, a 149; (Monster), XVI, a b 792; (Pathology), XVIII, a 367; (Tape-Worms), XXIII, b 54; vegetable (Lichens), XIV, a 555, a b 560, a 566, See Parasites
- Párasnáth, mountain (Chutiá Nágpur), V, a 671; (Házaribágh), XI, *a* 489; (India), XII, b 771
- Parasol, sunshade (Umbrella), XXIII, a 770
- Parasphenoid bone (Amphibia), I, b 661, b 662, *a* 663, *b* 664, a b 665, a 666, a b 667
- Parasuchia, sub-order (Crocodiles), VI, b 525
- Parasu-Rama, hero (Caste), V, b 165; (India), XII, b 821 note
- Parautoptic Lock, XIV, a 757
- Paravars, caste (Missions), XVI, b 536; (Xavier), XXIV, a 753
- Parazoa or Spongiæ, order (Sponges), XXII, a 437
- Parcel-post, British (Post-Office), XIX, a 586, *b* 593, note, *a* 594; German, a 600. Italian, b 600
- PARCHMENT, XVIII, a 276; (Palæography), b 148; (Book), IV, a 34; (Leather), XIV, b 390; (Macedonian Empire), XV, a 144
- Pard. mammal. See LEOPARD
- Parda Pemba, gold mines (Zambesi), XXIV, b 804
- Pardessus, Jean Marie, jurist (Sea-Laws), XXI, b 612, a 613
- Pardo, half-breed (Negro), XVII, a 329
- ——, Felipe, poet (Peru), XVIII, a 689
- ——, Don Manuel, statesman (Peru), XVIII, b 692, note
- PARDON, XVIII, b 276-7; (Criminal Law), VI, a 522; (Perjury), XVIII, a 560; (Impeachment), XII, a 756; Roman (Vesta), XXIV, b 210; in United States (Reformatories), XX, a b 903; (Treason), XXIII, b 563
- Pardovan, Walter Steuart of, lawyer (Linlithgow), XIV, a 677
- PARDUBITZ, town, XVIII, a 277
- PARÉ, Ambroise, surgeon, XVIII, b 277; (France), IX, b 577; (Medical Jurisprudence), XV, a b 793; (Monster), XVI, b 792; (Surgery), XXII, a b 710; (Toucan), XXIII, a 507
- PAREJA, Juan de, painter, XVIII, b 277; (Velazquez), XXIV, *a* 147, a 148
- Parenchyma, tissue (Botany) (Ill.), IV, a 75, a 97; (Planarians), XIX, b 181, a b 182
- Parenchymatous cartilage (Anatomy), I, b 747; worms (Tape-Worms), XXIII, b 55
- Parent and child, law of. See Children, INFANT and WOMEN
- Parents, authority of (Decalogue), VII, a 16
- PARENZO, city, XVIII, b 277; cathedral of (Basilica), (Ill.), III, a 361, a 362
- Paresina, mountains (Hindú Kúsh), XI, b 749
- Paresis, disease (Paralysis), XVIII, b 260
- Paresnáth. See Parasnáth
- PARGA, town, XVIII, a 278
- Parganá, division (India), XII, b 808. See TWENTY-FOUR PARGANÁS
- Pargasite (Mineralogy), XVI, b 435
- Pargetting, flues (Building), IV, a 417
- ——, plaster decoration (Architecture), II, b 412, b 414
- Parham, Charles, inventor (Sewing Machines), XXI, *a* 920, a 921 note
- Parhelia or mock suns (Halo), XI, a 356
- Paria, Gulf of (Columbus), VI, b 156; (Trinidad), XXIII, a b 610
- —— plateau (United States), XXIII, b 849, a 850
- *Paria* (Delavigne), VII, b 39
- Pariah Dogs, VII, b 281, *a* 282
- Pariahs, outcasts (Caste), V, a 165; (Madras), XV, a 186
- Pariana (Grasses), XI, *a* 49, b 50, a 52
- Parian cement (Gypsum), XI, a 314
- PARIAN CHRONICLE, XVIII, a b 278; (Arundelian Marbles), II, b 586; (Inscriptions), XIII, a 129
- Parian Marble, XV, b 535; (Rome), XX, a 826
- *Paribháshás* (Sanskrit), XXI, b 307
- Paridæ, family (Birds), III, b 643; (Titmouse), XXIII, b 446, a 447
- Parietal bones (Amphibia), I, *b* 664, a b 665, a b 667; (Anatomy) (Ill.), a 723; lobe (Anatomy), a b 767, b 771
- Parieto-splanchnic ganglion (Mollusca), XVI, b 718
- Parigi, district and town (Celebes), V, a 252
- Parilia, festival (Pales), XVIII, b 174
- Parillin (Sarsaparilla), XXI, b 328
- Parimé Cordillera (America), I, b 589
- Parinacochas, lake (Peru), XVIII, a 686
- Paring and burning (Agriculture), I, b 298, b 300, b 357
- —— plough (Agriculture), I, b 277
- PARINI, Giuseppe, poet, XVIII, b 278; (Italy), XIII, b 522, a 523
- PARIS, city (Plate V) (Ill.), XVIII, a 278-301
  - administration of the city, a 283, *sq.*
  - arrondissements, a 282
  - banks, a 289, b 291
  - bibliography, a b 301
  - cemeteries, b 289
  - charities, b 287-9
  - commerce, a b 291
  - educational features, b 285-7
  - fire and military organizations, b 289-90
  - food supply, a b 290
  - history, b 292-301
    - Bourbon period, Henry IV. to Louis Philippe, a 297-9
    - Capetian period, Hugh Capet to Louis X., b 293-5
    - Carlovingian period b 293
    - empires, Napoleonic, a b 299-300
    - Franco - Prussian war, a b 300
    - Gallic period, b 292
    - Merovingian period, a b 293
    - Roman period, b 292-3
    - Valois period, Philip VII. to Charles VIII., b 295-6
    - Valois-Orleans period, Louis XII. to Henry III., b 296-7
  - industrial features, 283, b 290
  - lighting, b 285
  - museums, a b 287
  - parks and promenades, a b 280
  - population and vital statistics, a b 282
  - postal and telegraph service, a b 292
  - public buildings, b 280-2
  - Seine, the, a 280
  - sewage, b 285
  - situation and climate, a 278-9
- PARIS, *continued*
  - streets and squares, b 279-80 b 284
  - tribunals and police, a b 289, a 292
  - water supply, a 285
- —— (Abattoir), I, a b 13; (Aqueduct), II, b 199-200; (Arcade), a 285; (Artesian Well), *b* 564-5; (Budget), IV, a 393; (Building), *b* 406, *a* *b* 407; (Cemeteries), V, b 287-8; (Conservatory), VI, b 260; (Danton), b 718; (Fan), IX, *a* 26; (Fire), a 207; (Fortification), b 412, a b 413; (Foundling Hospitals), b 425, a 426; (Fountain), b 429; (France), b 478, b 521, a 525, b 528, a b 535, a 548; (Gendarmerie), X, a b 127; (Julian), XIII, b 778; (Libraries), XIV, b 523-5, b 547; (London), b 829, *a* 830; (Periodicals), XVIII, a 551; (Pneumatic Dispatch), XIX, b 251; (Police), a 356; (Schools of Painting), XXI, b 460; (Seine), a b 655; (Technical Education), XXIII, b 115, b 116-7; (Vaccination), XXIV, a 32
- ——, capture of, 1814 (Napoleon I.), XVII, a 228
- —— Conservatory, VI, b 260; (Pianoforte), XIX, a 76
- PARIS, DECLARATION OF, 1856, VII, b 20-1; (Navy), XVII, b 298
- ——, early printing at (Typography), XXIII, a b 729, a 730 note; etchings of (Méryon), XVI, b 49-50; Institution for the Blind, III, b 721
- —— monetary conferences (Money), XVI, b 760, b 762, b 765
- —— Observatories, XVII, a 732; (Telescope), XXIII, b 161
- ——, parlement of. See Parlement
- ——, siege of, 978 (Otho II.), XVIII, a 70; in 1648 (Condé the Great), VI, a 219; in 1870 (Aëronautics), I, b 180; (France), IX, *b* 552; (Post-Office), XIX, a 598
- ——, *Le Siége de* (Garnier, M. J. F.), X, b 74
- ——, treaty of, 1814 (Metternich), XVI, b 208-9; 1856 (Dardanelles), VI, b 724; (Turkey), XXIII, b 692. See DECLARATION OF PARIS
- ——, University of, XXIII, b 887, a b 889-91, b 897, b 899, a b 902, b 906-7; (Doctor), VII, a 277
- —— Bibliothèque (Globe), X, b 606, a 607, a 608, *b* 609, b 610; (Libraries), XIV, b 523-4; (Plate), XIX, b 192, a 193
- —— Bourse (Stock Exchange), XXII, b 685-6
- —— Commune, 1871, VI, a 189; (International), XIII, a 196
- —— Eocene basin (Geology), X, b 321

Paris et Vienne (Romance), XX, b 675
Paris Polyglot, XIX, a 431
——, mountain (South Carolina), XXII, a 301
——, actor (Juvenal), XIII, b 813, b 814
PARIS, prince, XVIII, a 301
——, Aimé, mathematician (Mnemonics), XVI, b 556
——, Alexis Paulin, author (France), IX, b 593; (Grail, the Holy), XI, b 31, *a b* 32, a 33
——, Charles Henry, inventor (Enamel), VIII, b 169
——, counts of (France), IX, *b* 472
——, Louis Philippe, Comte de (Bourbon), IV, a 158
——, Gaston Bruno Paulin, antiquary (Romance), XX, b 666, a 667; (Romance Languages), *b* 686
PARIS, Matthew or Matthew of Paris, historian, XV, a 640-1; (Abbey), I, b 27; (Abbot), a 29, note; (Embroidery), VIII, a 149; (England), a 285; (Grosseteste), XI, a *b* 188; (Parker), XVIII, a 306
PARISH, English, XVIII, a 301-3; (Diocese), VII, a 213; (England), VIII, a 198; Scotch, XVIII, b 302-3; XXI, b 561
——, Sir Woodbine, diplomat (Argentine Republic), II, a 432
Parishes, counties (Louisiana), XV, b 23
Parish Register, poem (Crabbe), VI, b 478
Parisienne, La (Delavigne), VII, b 39
Parisina d'Este, marchioness (Rimini), XX, b 571
Parisishta (Sanskrit), XXI, a 288, b 293
Parisite (Mineralogy) (Ill.), XVI, b 416
"Paris mutuels" (Betting), III, a 535
Parisosis, figure (Rhetoric), XX, b 527
Parium, city (Numismatics), XVII, b 662
Park. See Parks
Park, Edwards Amasa, theologian (Stuart), XXII, a 932
PARK, Mungo, traveller, XVIII, b 303-4; (Africa), I, *b* 220, a 227, b 242; (Edwards, B.), VII, a 597; (Geography), X, b 168; (Niger), XVII, b 511
Párkar, region (Thar and Párkar), XXIII, b 239
Parke, Sir James, Lord Wensleydale, judge (Parliament), XVIII, b 312; (Peerage), a b 477
——, Sir Hyde 1st, admiral (Rennell), XX, *a b* 410
——, Sir John, spendthrift (Parker, M.), XVIII, a 306
PARKER, John Henry, archæologist, XVIII, a 304; (Catacombs), V, b 183, b 184, b 186, *a* b 187, note
PARKER, Matthew, archbishop, XVIII, a 304-6; (Cambridge), IV, b 646; (Cecil), V, b 246; (England), VIII, b 307; (England, Church of), b 337; (English Bible), a 347; (Episcopacy), a 434, note; (Thirty-nine Articles), II, b 572
——, Sir Peter, admiral (Nelson), XVII, *a* 332
——, Samuel, bishop (Owen), XVIII, b 89
PARKER, Theodore, preacher, XVIII, b 306-7; (American Literature), I, a b 639; (Bengal), III, a 486; (Unitarianism), XXIII, b 773, a 774
——, T. J., naturalist (Hydrozoa), XII, b 582
——, W., engineer, (Steam-Engine), XXII, b 545 note
——, William Kitchen, naturalist (Birds), III, b 604 note, a b 605 notes, a 606, b 607 note, a 609, a 613 note, *a* b 616 note, b 619 note, a b 620 notes, a 622 note; (Ornithology), XVIII, a b 37 notes, a 39 note, a 45, a b 49, a b 51, a b 52; (Reptiles), XX, *a* 452, *b* 453, note; (Shrike), XXI, b 885; (Tinamou), XXIII, b 429, b 430; (Wheatear), XXIV, b 567
——cements (Building), IV, b 410, a 452
Parkeria (Foraminifera) (Ill.), IX, a b 329
PARKERSBURG, city, XVIII, b 307; (West Virginia), XXIV, a b 547
Parkes, E. A., physician (Dietetics), VII, a 176, note, b 180, a 184; (Hygiene), XII, a b 603; (Tobacco), XXIII, b 455
——, Joseph, inventor (Button), IV, a 533
Parkes's desilverizing process (Lead), XIV, a 377
Parkhurst, Henry M., astronomer (Tables), XXIII, b 14
Parkinson, John, botanist (Digitalis), VII, a b 207; (Potato), XIX, a 612
Park Lane, district (London), XIV, a 832
Parks, city (Baltimore), III, a 258; (Birmingham), b 680; (Brussels), IV, b 363; (Chicago), V, a 533; (Fontainebleau), IX, a 318; (Glasgow), X, a 575; (Greenwich), XI, b 155; (Liverpool), XIV, a 719; (London), *a* 827, *a* 830, a 832, a b 833; (Lyons), XV, b 111; (Manchester), a b 467-8; (Melbourne), b 846; (Moscow), XVI, b 886; (Munich), XVII, a 32; (Newcastle), a 387; (New York), b 478, a 896; (Paris), XVIII, a b 280; (Philadelphia), a 751; (Providence), XIX, a 909; (Richmond), XX, a 560; (St. Cloud), XXI, b 168; (St. Louis), b 193; (St. Paul), b 198; (Sydney), XXII, a b 846; (Swansea), b 770-1; (Vienna), XXIV, a 239
——, mountain (Colorado), VI, b 145; (New Mexico), XVII, a 410; (United States), XXIII, *a b* 846, b 847; (Yellowstone Park) (Ill.), XXIV, b 773-5
Parkyns, Mansfield (Abyssinia), I, b 62, b 63, a 65, b 66
Parla Kimidi, town (Ganjam), X, b 63
Parlamento, popular assembly (Italy), XIII, b 480, b 482, a 487
Parlari italiani in Certaldo (Italy), XIII, b 509
Parlement of Languedoc (Toulouse), XXIII, a 517, note; of Paris, XVIII, b 295, a 297; (Condé), VI, *a b* 219, *a* 220; (France), IX, a 500; (Mazarin), XV, a *b* 659
Parley, Peter, pseudonym (Goodrich), X, b 689; (Hawthorne), XI, a 480; (Sargent), XXI, a 906
PARLIAMENT, British, XVIII, a 307-19
  Anglo-Saxon polity, a 308-9
  bills, enacting, b 318, b 319
  committees, a 318
  commons, present position of the, b 315-6
  commons unite and form a chamber, a b 311
  Edward I., a b 310
  elections, jurisdiction in, a 319
  history, a 307-16
  literature, b 319
  Norman kings, a b 309
  Plantagenets, b 309-12
  powers and privileges, a 316-7
  procedure, methods of, a 317-9
  reform measures, b 314-5
  revolution of 1688 to William IV., b 313-4
  Stuart period, a b 313
  three estates of the realm, b 312
  Tudor period, b 312-3
  war of the roses, effects of, a 312

——

—— Cabinet), IV, a b 550; (Cobden), VI, *b* 79-80, a b 81; (Colony), a 144; (Constitution), b 275, a b 276; (Convocation), b 288, *a b* 289, *a* b 290, *a b* 291, *a* b 292; (Cromwell), b 528-9, *a b* 532, a 533; (England), VIII, a 235-6, b 279-80, b 282-4, a b 289, b 290, a 296, b 305, b 308-12, b 314, a b 315-6; (Finance), IX, b 154, b 155, b 156, a b 157, a b 158; (George III.), X, a b 381, a b 382; (Grouse), XI, a 197; (Henry VIII.), XI, a b 592; (Impeachment), XII, b 755-6; (Ireland), XIII, b 244, a 270; (James I.), b 568; (Law), XIV, a b 366; (Ministry), XVI, a 495; (Monmouth), b 782-3; (Monopoly), a b 784; (Oath), XVII, b 720; (Peerage), XVIII, b 471-2; (Prerogative), XIX, a b 693; (Pym), XX, a 127-8; (Reporting), a *b* 416, a b 417-8
——, Acts of, I, b 113-4; (Friendly Societies), IX, a b 686; (Statute), XXII, b 485-8; ascendency of (William III.), XXIV, a b 611, a 612; authority of (Post-Office), XIX, b 579; (United States), XXIII, *a* b 784-5, *a* 786, b 787
——, bankrupt member of (Bankruptcy), III, a 296
——, contempt of, XVIII, b 316; (Contempt of Court), VI, a 284; (Perjury), XVIII, a 560
——, establishment of (Peerage), XVIII, a 474
——, journals of (Index), XII, a 768
——, origin of (Edward I.), VII, a 592
——, pay of (Marvell), XV, b 595
——, prorogation of, invention of (England), VIII, a 302
——, publicity of (Marvell), XV, b 595
——, representation in (England), VIII, a b 277; (Finance), IX, b 154; (Presbyterianism), XIX, b 701; present (United Kingdom), XXIV, a 775
——, Sessions called by special names
——, Barebone's (Milton), XVI, a 345
——, Good (Edward III.), VII, b 593; (England), VIII, b 289, a 291, a 292; (Lancaster), XIV, b 256
——, Long (Charles I.), V, b 351-3; (Cromwell), VI, a 529, a 530, a 532; (D'Ewes), VII, b 124; (England), VIII, a 311-2; (Hampden), XI, b 383; (Hymns), XII, a 625; (Milton), XVI, b 340, b 341; (Presbyterianism), XIX, a 707, a b 708; (Press Laws), b 729; (Pym), XX, b 127-8; (Selden), XXI, a 663; (Strafford), XXII, a 615; (Sunday), a b 689
——, Mad (Henry III.), XI, b 587-8; (Oxford), XVIII, b 102
——, Merton (Canon Law), V, b 20-1
——, Pensionary (Monmouth), XVI, b 782; (Prynne), XX, b 32
——, Rump (Monk), XVI, a b 779; (Prynne), XX, a 31-2
——, Shepway (Cinque Ports), V, b 687
——, Short (Charles I.), V, b 351; (England), VIII, a 311; (Hobbes), XII, a 36; (Milton), XVI, b 340; (Pym), XX, a b 127
——, Shrewsbury (Convocation), VI, a 289
——, Wonderful and Merciless (England), VIII, a 287

——

——, Irish (England), VIII, a b 322; (Grattan), XI, a *b* 55; (Ireland), XIII, b 267, a 270, a b 272, b 274, a 275, a b 276
——, Scotch (Borough), IV, a b 57; (Montrose), XVI, a b 822; (Scotland), XXI, b 506, b 508, a 512, *a* 513, *b* 514, *a* 515, a 517, *a* 518; baronial attendance on (Scotland), a b 530; Convention, 1689 (Scotland), b 539-40; power of, under James VI. (Scotland), b 532-3; Reformation (Scotland), b 524-5

Parliamentary Army, II, a 499; (Bunyan), IV, a b 471; (Cromwell), VI, b 529–30; (Ireton), XIII, a 281. See Civil War, English
—— Bills, III, b 581–2
—— corruption (England), VIII, b 317
—— Divorce, VII, b 261–2, a 263
—— Elections, VIII, a b 4
—— government (Pym), XX, a 127–8; Macaulay on (Pitt), XIX, a b 150, b 154
Parliamentary History (Pepys) XVIII, a 531
Parliamentary practice (Mirabeau), XVI, b 519; (Petition), XVIII, b 717
—— privilege (Libel), XIV, b 505
—— reform (Brougham), IV, a 340, a b 341; (Cartwright), V, b 145; (Derby), VII, a 96, a 98; (Grey), XI, a 170, a b 171
—— Registration, XX, a 357–8
—— reporting (Newspapers), XVII, b 427; (Reporting), XX, a *b* 416, a b 417–8; (Shorthand), XXI, a b 880, note
—— reports (Hansard), XI, b 401; (Press Laws), XIX, b 730, a 731; (Tooke), XXIII, b 473; (Typography), a 747
—— trains (Railway), XX, b 236, b 256–7
—— union (Ireland), XIII, b 273; (Scotland), XXI, b 536, a 537, a 538
—— war. See Civil War, English
Parliament-House, Canada (Ottawa), XVIII, a 72
—— -House, Edinburgh, VII, b 575; (Glass), X, b 600
—— Houses, London (Architecture), II, a 397; (Barry), III, b 314; (London), XIV, b 849, a 862; (Pugin), XX, a b 108, notes; decorations (Dyce), VII, a b 492
Parliament of Bees (Day), VI, a b 746
—— *Rolls* (Records), XX, a b 324
Parliaments (Baden), III, b 194, a 195; (Béarn), a 402; (Belgium), a b 446; (Germany), X, a 459; (Guiana), XI, b 224; (Holland), XII, a 68; (Hungary), a b 381; (Italy), XIII, a 474; (Portugal), XIX, a 554; (Victoria), XXIV, a b 235
PARMA, city, XVIII, a 319–20; (Concordat), VI, a 215; (Correggio), *a b* 387; (Libraries), XIV, a 530, b 550; (Schools of Painting), XXI, b 455–6, a 463, b 467; revolt of (Italy), XIII, b 485
——, duchy of (Bourbon), IV, b 158; (Concordat), VI, a 215; (Spain), XXII, a 351, *a b* 352, *a* 353, a 354
——, duke of (Cambacérès), IV, a 639
——, Alexander Farnese, prince of, IX, a 34–5
Parmelia (Lichens) (Ill.), XIV, b 558, a 563, a b 565, a b 566
Parmas, plateaux (Ural Mountains), XXIV, a b 8; (Vologda), a *b* 303
PARMENIDES of Elea, philosopher, XVIII, b 320–3; (Eleatic School), VIII, a b 3; (Evolution), b 661; (Sophists), XXII, *b* 277; (Thales), XXIII, b 237; (Xenophanes), XXIV, a *b* 755, a 756; (Zeno), a b 817, a 818
Parmenides (Plato), XIX, *a* 217, a b 218, a 219, a 220, a 221
——, Chrestos A., poet (Greece), XI, a 136
PARMENIO, general, XVIII, a 323; (Persia), b 593, a 596; (Alexander the Great), I, a *b* 426, *a* b 427
Parmesan Cheese, V, a b 395; (Dairy), VI, a 681; (Italy), XIII, b 461; (Milan), XVI, b 304
PARMIGIANO, Francesco Maria Mazzuoli, painter, XVIII, a 323–4
Parmophorus (Mollusca) (Ill.), XVI, a 669
Parnassia, plant (Botany), IV, b 121, b 124; (Insectivorous Plants), XIII, a 144
Parnassians, literary coterie (France), IX, b 595
Parnassius, genus (Butterflies and Moths) (Plate XXVII), IV, b 529
PARNASSUS, mountain, XVIII, a 324; (Delphi), VII, a b 47; (Greece), XI, *a* b 74; (Phocis), XVIII, a 814
Parnell, Charles Stewart, political leader (Stewart), XXII, a 929
——, Henry Brook. See Congleton
——, Sir Henry, banker (Banking), III, a b 290, note
PARNELL, Thomas, poet, XVIII, a 324
Parnes, mountain (Attica), III, b 51, *a* b 52, a 53; (Greece), XI, a 74
Parnians, people (Persia), XVIII, b 598, a 599
Parnon, mountain (Laconia), XIV, a b 194
PARNY, Evariste Désire de Forges, Vicomte de, poet, XVIII, a b 324
Paro or Beni, river (Bolivia), IV, a 12
PARODY, XVIII, b 324–5; (Hipponax), XI, b 763; (Persia), XVIII, b 670; (Smith, H.), XXII, a b 183
Paroikia or Parikia, town (Paros), XVIII, a 325
"Parole" (Horse), XII, a 207
Paromoiosis, figure (Rhetoric), XX, b 527
Paronaxia, island (Paros), XVIII, a 325
Paropamisus, mountains (Afghânistân), I, a 211, a 214; (Asia), II, a 599; (Ghúr), X, b 508; (Hindú Kúsh), XI, b 749; (Merv), XVI, b 46; (Persia), XVIII, b 594
Paropanisadæ, satrapy (Persia), XVIII, a 597, a 603
Paroreatæ, tribes (Elis), VIII, b 130
Parorius, district (Phrygia), XVIII, a 867
PAROS or Paro, island, XVIII, a b 325; (Greece), XI, a 80, b 89; (Marble), XV, b 535; (Numismatics), XVII, b 661
Parotid gland (Amphibia), I, a 668*; (Digestive Organs), VII, a 193; (Horse), XII, b 183; (Mammalia), XV, b 364; (Nutrition), XVII, b 688, a b 691
Parotitis, disease (Mumps), XVII, b 28
Parousia. See Advent, Christ's Second
Paroz, Jules, author (Education), VII, *a* 589
PARQUETRY, decoration, XVIII, b 325
PARR, fish, XVIII, a 326. See Par-tail
——, Catharine, queen (Elizabeth), VIII, b 132; (England), b 302; (Henry VIII), XI, a 593
PARR, Samuel, divine, XVIII, a b 326; (Sheridan), XXI, b 833, a 834
——, Thomas, centenarian (Harvey), XI, *b* 452; (Longevity), XIV, *a* 869–70
Parra, genus of birds (Jacana), XIII, a 541, note
Parrakeet (Birds), III, b 635–6, note, b 642, a 651; (Parrot), XVIII, a b 327, note, a 328
Parramatta river (Sydney), XXII, b 845, a 847
PARRAMATTA, town, XVIII, b 326; Observatory, XVII, b 737
Parret river (Bridgewater), IV, a 309; (Somerset), XXII, a b 271, b 272
Parrhasiana (Ana), I, b 688
PARRHASIUS, painter, XVIII, b 326–7; (Archæology), II, b 317; (Zeuxis), XXIV, a b 822
Parriana (Parr), XVIII, b 326
Parricide (Persia), XVIII, b 611, note
Parridæ, family (Jacana), XIII, a b 541
PARROT, bird, XVIII, a 327–9; (Acclimatization), I, a 81; (Birds) (Ill.), III, b 627, a 630, a 633, a *b* 635, b 638, *a* b 642, a 643, b 658; (Kakapo), XIII, b 834–5; (Lory), XV, a b 9; (Love-Bird), a 30; (Macaw), a 131; (Nestor), XVII, b 363–4
Parrot, The (Provençal Literature), XIX, a 901
—— Coal, VI, a 51
PARROT-FISHES, XVIII, b 329; (Ceylon), V, a 316
Parrot silver mine (United States), XXIII, b 869
Parr Town (St. John), XXI, a 182
Parruah or Porruah, ruins (Gaur), X, a 104
PARRY, Sir William Edward, navigator, XVIII, b 329–30; (Acoustics), I, b 97, a 100; (Drunkenness), VII, a 416; (Geography), X, *a* b 172; (Polar Regions), XIX, a b 331, a 332
Parry's puddling processes (Iron), XIII, a 329, b 352; refinery (Iron), a 328
Parsa, Pars or Fars, country (Persia), XVIII, a 573. See FARS
Parsifal, opera (Wagner), XXIV, a 335, a 337. See *Parzival*
PARSIS or Parsees, people, XVIII, b 330–3; (Persia), b 639; (Festivals), IX, *a* 100; (Funeral Rites), a 724; (Haug), XI, a 466; (Incense), XII, b 758; (India), a 799; religion of (Israel), XIII, a 430; (Manichæism), XV, *b* 492; (Zoroaster), XXIV, a 863; literature of (Zend-Avesta), a 814–6
Parsissaet, council (Greenland), XI, a 152
Parsiwân, tribe (Afghânistân), I, *a* 211, b 218; (Kandahar), XIII, b 845; (Tajak), XXIII, a 30
Parsley, herb (Horticulture), XII, b 302
Parsnip, vegetable (Agriculture), I, b 328; (Horticulture), XII, b 297
PARSON, law-term, XVIII, a 333; (Burial and Burial Acts), IV, *a* 480
—— bird (Honey-Eater), XII, a 143, note
"Parson Lot," pseudonym (Kingsley), XIV, a 91
Parsons, C. A., inventor (Steam-Engine), XXII, b 542
PARSONS or Persons, Robert, Jesuit, XVIII, a b 333; (Gibbon), X, b 513; (Leicester), XIV, b 426
——, Theophilus, jurist (Universities), XXIII, b 960
Parsons' Ordinance (Switzerland), XXII, b 826
PARSONSTOWN, XVIII, b 333
Pārswa, prophet (Jains), XIII, b 553
PARTÁBGARH, district of Oudh, XVIII, b 333
PARTÁBGARH, state in Rajputana, XVIII, a 334; (Rajputana), XX, b 272
Par-tail fishing (Angling), II, b 32
Partant pour la Syrie, melody (Hortense), XII, a 214
Partecipazio, Angelo I., doge (Venice), XXIV, a 154, b 162
PARTHENIUS, poet, XVIII, a 334
——, river (Paphlagonia), XVIII, a 231
—— of Nicæa, talebearer (Romance), XX, a 650
Parthenogenesis (Arachnida), II, a 241; (Bee), III, a 426; (Hymenoptera), XII, a 609; (Insects), XIII, a 153; (Nematoidea), XVII, b 334; (Saw-Flies), XXI, b 358; of plants (Reproduction), XX, b 440
Parthenon, temple (Archæology), II, a b 311, b 314; (Architecture) (Plate X), *a* 355, *b* 359, *a* 360, b 362; (Athena), a 727; (Athens), III, b 6–7, b 8, a 11; (Greece), XI, a 91, b 108; (Inscriptions), XIII, b 127, a 129; (Panathenæa), XVIII, a 214; (Pericles), b 540, note, a 543; (Tiles), XXIII, a 414; Carrey's drawings of the (Archæology), II, b

Parthenon, *continued* 301, a 308, a *b* 311; frieze of (Numismatics), XVII, a 649; (Terra-Cotta), XXIII, a 208 note; sculptures of (Phidias), XVIII, b 747, a 748
Parthenope, city (Naples), XVII, b 197, a 198
——, myth (Siren), XXII, a 105
Parthenopeian Republic (Cirillo), V, b 692; (Ferdinand IV., Naples), IX, b 69; (Italy), XIII, b 495
Parthia, country (Crassus, M. L.), VI, b 490; Chinese accounts of (Persia), XVIII, a b 604; coins of (Numismatics), XVII, a 678; evangelization of (Thomas), XXIII, b 328, a 329; kingdom of (Arsacidæ), II, b 552; (Persia), XVIII, b 598, a b 599, a 601, b 602-3; its war with Rome (Aurelius), III, a b 76; (Hadrian), XI, *a* 325; (Palmyra), XVIII, b 203; (Trajan), XXIII, a b 537; (Rome), XX, b 792, b 793-4, a 795
Parthians, people (Ctesiphon), VI, b 599; (Mesopotamia), XVI, a 56
Partholan, legend of (Ireland), XIII, a b 249
Partial differences, method of (Hydromechanics), XII, b 453
Partials, over-tones (Music), XVII, a b 96
Participles (Priscian), XIX, a b 764; Graæco-Italic (Greece), XI, b 116
Particle, physical, defined (Mechanics), XV, b 705-6; Dynamics of, b 705-36; equilibrium of, a 709-10, a b 711; kinetics of, b 711-36; motion of, disturbed, b 721-3; on fixed surface, b 710; on smooth surface, b 718-9
——, statics of (Mechanics), XV, b 709-11; under varying constraint, b 720-1; with one degree of freedom, b 711-4; with two degrees of freedom, a 714-7
—— differentiation (Hydromechanics), XII, a 463
Particles, grammatical, Greek, XI, a 121; (Homer), XII, a b 117
——, action of (Mechanics), XV, a 731-4; free, kinetics of, b 726-9; motion of system of, a 729-31; two or more, kinetics of, a 723-6
Particular average, marine Insurance, XIII, b 193-4; (Average), III, a 128
—— or Calvinistic Baptists, III, b 305, b 306
Particularists, party (Bavaria), III, b 392, a 393; (Germany) X, a 461; (Menzel), XVI, b 33
Parties, American political, basis of (United States), XXIII, a 797, a b 798, b 799-800, a b 803; changes on slavery (United States), b 816, b 818, a b 820
——, British (Government), XI, b 12; (Parliament), XVIII, b 315; (Whig and Tory), XXIV, a 570-1
Partimen (Provençal Literature), XIX, a 898, b 900
Parting vessels (Gold) (Ill.), X, a b 667
PARTINICO, town, XVIII, a 334
Partisan Leader, political novel (Tucker, N. B.), XXIII, b 947
Partisan rangers, Carolinian (Sumter), XXII, a b 935
PARTITION, law-term, XVIII, a b 334
—— lines (Heraldry) (Ill.), XI, b 617-8
—— of Numbers, XVII, a b 629
—— of Poland, XIX, a 309-10
Partitions, carpenter's (Building) (Plate XXIV, XXV), IV, a b 433
Partlet, shirt (Costume), VI, a 419
PARTNERSHIP, XVIII, b 334-7
    dissolution, b 336-7
    English statutory provisions, a b 335
    external obligations of a firm, a 336-7
    internal relations of a firm, b 335-6
    Roman law, b 334, a 337
    Scotch law, a b 337
    United States, b 337
—— (Company), VI, a 197; (Coöperation), b 302; (Guarantee), XI, b 209
PARTRIDGE, bird, XVIII, b 337-9; (Birds), III, a 641, note; (Grouse), XI, b 198; (Shooting), XXI, b 873-4; (Sweden), XXII, b 779; American (Quail), XX, b 153; (Zoology, American), XXIV, a 924
—— Island (St. John), XXI, a 181
Partridge's Almanac, I, b 520
Parts of speech (Philology), XVIII, b 784, a 785; (Priscian), XIX, a 764-5
Part-song (Music), XVII, a 91
Partula, mollusc (Tahiti), XXIII, b 28
Parturient fever (Veterinary Science), XXIV, a 221
Parturition (Medical Jurisprudence), XV, b 789
Party government (Pym), XX, a 128. See Parties
Parus, genus of birds (Titmouse), XXIII, b 446
Parva logicalia (Logic), XIV, a b 799
Pārvatī, goddess (Brahmanism), IV, b 187, a 188, 189
Parvum Martyrologium Romanum (Martyrology), XV, *b* 594
Parvadres, mountain (Asia Minor), II, b 617; (Pontus), XIX, a 474
Parysatis, queen (Darius II.), VI, a 727; (Persia), XVIII, a b 587, a b 588, a 591
Parzival, epic (Germany), X, a 469; (Grail, Holy), XI, a 33; (Wolfram von Eschenbach), XXIV, a b 666
Pasaman mountain (Sumatra), XXII, b 671
Pàsandàva Bay (Madagascar), XV, *a* 169
Pasargadæ, city (Alexander the Great), I, a 427, b 428; (Persepolis), XVIII, a b 570, note; (Persia), a 579
PASCAL, Blaise, philosopher, XVIII, a 339-44
    BIOGRAPHY, a 339-41
        conversion and *Provinciales*, a b 340
        family and youth, a b 339
        Jacqueline joins the Port Royalists, a 340
        scientific experiments, b 339
    CRITICAL ESTIMATE, a 341-4
        bibliography, a 343
        Pensées, a b 341
        philosophical relation of the *Penseés*, a 342-3
        Provinciales, b 341
        scientific achievements, a 343-4
—— (Arnauld), II, a 543; (Calculating Machines), IV, a 580; (France), IX, a 582, a b 583; (Hydromechanics), XII, a 452; (Infinitesimal Calculus), XIII, b 7-8; (Jesuits), a b 661; (Molina), XVI, a 653; (Montaigne), b 707; (Nicole), XVII, *a* b 503; (Pneumatics), XIX, a 253; (Probability), b 789; (Scepticism), XXI, a 399
——, Étienne, judge, XVIII, a b 339, a 340
——, Jacqueline, nun, XVIII, a b 339, a 340, a 343
Pascal's theorem (Geometry), X, a *b* 355, a 357, b 369
Pascha. See EASTER
Pascha, Het, drama (Holland), XII, b 97
PASCHAL I., pope, XVIII, a 344; (Cecilia), V, b 247
PASCHAL II., pope, XVIII, a 344; 5th century (Embroidery), VIII, a 149; (Germany), X, a 439; (Henry IV. and V., Emperor), XI, b 595, a 596; (Investiture), XIII, a 208; (Italy), a 482; (Popedom), XIX, b 511, a 514, a 524; (Rome), XX, a 809
—— III., antipope (Rome), XX, b 811-2
Paschal controversy (Good-Friday), X, a 689; feast (Easter), VII, a b 531; (Passover), XVIII, a 349; fire (Vesta), XXIV, b 209
Paschalis, notary (Rome), XX, b 804
Paschal Lamb (Heraldry), XI, a b 624; moon (Calendar), IV, b 598-9; period, Great (Chronology), V, a 622
Paschasius, theologian. See RADBERTUS
Pascon Agan Arluth (Celtic Literature), V, *a* 281, a 285
Pascua Romanorum, plains (Vlachs), XXIV, a 289, a 290
PAS DE CALAIS, department, XVIII, b 344-5
Pasek, John Chrysostom, historian (Poland), XIX, b 313
Pasewa or Pussewah waste (Opium), XVII, b 812
Pashais, people (Hindú Kúsh), XI, *b* 748
Pashm or pashmina, wool (Shawl), XXI, a 818
Pasht, goddess (Bubastis), IV, b 366
Pashupati, town (Nepāl), XVII, a 351
Pasig, river (Manila), XV, *a* 495
Pasiphae, queen (Minos), XVI, a 501
Pasis, tribe (Oudh), XVIII, b 75
Pasiteles, sculptor (Archæology), II, *a* 320
PASKEWITCH, Ivan Fedorowitch, general, XVIII, a b 345; (Erwan), VIII, b 464; (Russia), XXI, *a* 110; (Warsaw), XXIV, a b 397
Pasley, Sir Charles William, general (Building), IV, *a* 411; (Fortification), IX, b 393; (Pontoon), XIX, *b* 471, a b 472
Pasman, island (Zara), XXIV, b 807
Paspati, A. G., philologist (Gipsies), X, b 545, a b 547 note, *a* b 549, a 552
Pasqualis Martinez, cabalist (Saint-Martin), XXI, a 196
Pasque-flower (Horticulture), XII, b 260
Pasquich's *Tabulæ Logarithmi co-Trigonometricæ* (Tables), XXIII, b 13
PASQUIER, Étienne, jurist, XVIII, b 345-6; (Pamphlets), b 209; (France), IX, *a* 577
Pasquil, lampoon. See PASQUINADE
PASQUINADE, libel, XVIII, a b 346; (Pallavicino), a 193; (Pius VI.), XIX, b 165
Pasquino, statue (Pasquinade), XVIII, a b 346
Passagno, village (Canova), V, b 22, a 23, a b 24
Passaic river (Paterson), XVIII, b 364
Passamaquoddy bay (New Brunswick), XVII, b 382
Passaron, town (Dodona), VII, b 280; (Epvius), VIII, *b* 429
Passarowitz, treaty of, 1718 (Turkey), XXIII, a 688
PASSAU, town, XVIII, b 346-7; treaty of, 1552 (Germany), X, b 447; (Trent, Council of), XXIII, a 582
Passavanti, Jacopo, author (Italy), XIII, b 515
Passement, Claude Simon, optician (Micrometer), XVI, b 252 note
Passenger cars (Railway), XX, b 257-8, a 259; locomotive (Ill.), a 255-6; traffic, a 236-7, b 239-40, b 265-6, 267; (England), VIII, b 215
Passenger-Pigeon, XIX, *b* 93, note
Passengers (Consul), VI, a 282; injuries to (Carrier), V, b 122
Passennus Paullus (Propertius), XIX, b 834, a 836
Passer, genus (Sparrow), XXII, b 383
PASSERAT, Jean, poet, XVIII, a 347

Passeres, group (Birds), III, a 617, a 621, a 633, b 639, a b 643, b 644, note, b 646, a 648, b 657, a b 659, b 665, a 669, a 670, b 671, *a* 672; (Ornithology), XVIII, b 44, a 51; (Sparrow), XXII, a *b* 383
Passerine birds (Ornithology), XVIII, b 24, b 25, a b 26, b 27, a 29, b 30, note, b 31, a 32 3, b 35, a 38 note, a b 44, a 45
Passerita, species (Snakes) (Ill.), XXII, a 206
Passes, mountain (Carpathian), V, a 112; (Caucasus), a b 222; (East Turkestan), XXIII, b 678; (Hindú Kúsh), XI, b 747, *a b* 748, *a* 749; (India), XII, a 772; (Italy), XIII, a b 445, b 446, a b 447; (Jura), *a b* 791, *a* 792; (Kashmir), XIV, b 12; (Lebanon), *a* 394; (Nilgiri Hills), XVII, a 522; (Pyrenees), XX, a 131, b 133, a 134; (Spain), XXII, b 307; Alpine, I, a b 546, b 547, a 548–9; (Glarus), X, b 566; of the Andes, II, b 16, *a b* 17; (Chili), V, b 535; of the Taurus (Asia Minor), II, a b 616
—— of the Mississippi river, XVI, a 544
Passes (Poor Laws), XIX, a 482
Passiflora. See Passion Flower
Passion, music (Handel), XI, *b* 388; Bach's, III, a 179; (Mendelssohn), XVI, b 11
Passionate Shepherd (Marlowe), XV, a 565
Passion Flower (Ill.), XVIII, a 347–8; (Botany), IV, b 84, b 86, a 103, *b* 121, b 124, b 125, a 129, a 140; (Granadilla), XI, a 42; (Hybridism), XII, b 439–40; pollen (Morphology) (Ill.), XVI, b 870, a 871
—— *Hymns* (Iceland), XII, b 658
—— pictures (Holbein), XII, *a* b 56, a b 57
Passion Play (Drama), VII, a 357, b 358 note; (Memling), XV, a 855; (Music), XVII, a 98, b 99; (Oberammergau), a 723
——, Persian (Hasan and Husein), XI, a *b* 454; (Pilgrimage), XIX, a 102
Passions (Butler), IV, *a* b 522, a 523; (Stoics), XXII, a 596; Descartes's theory of (Cartesianism), V, a 130
Passion Week, XVIII, a 348
Passivity (Electrolysis), VIII, a 103
Passos, Soares de, poet (Portugal), XIX, b 573
Passover, feast, XVIII, a 348-9; (Pentateuch), a b 522; (Calendar), IV, a 602; (Easter), VII, a b 531; (Eucharist), VIII, a b 571; (Festivals), IX, a 102
Passport, safe conduct, XVIII, b 349
Passy, village (Artesian Well), II, b 564, b 565; cow (Vaccination), XXIV, a 29, b 30
Pasta, Giuditta, Jewish singer (Bellini), III, a 473
Pastassa, river (Ecuador), VII, a b 560
Paste or Strass (Glass), X, b 593; (Pottery and Porcelain), XIX, b 618
Pastel painting (Tour), XXIII, b 517–8
Pastern, bone (Horse), XII, a 181
Pasteur, Louis, chemist (Chemistry), V, a 417; (Fermentation), IX, *a b* 84, *a b* 85, b 86; (Murrain), XVII, a b 65; (Rabies), XX, a 206, b 208–9 note; (Schizomycetes), XXI, b 416, *a b* 417, note, b 423, a b 424, notes, a 425 note; (Silk), XXII, *b* 65; (Tartaric Acid), XXIII, b 75; (Wave Theory), XXIV, b 476; (Wine), b 635
Pasti, Matteo de, medallist (Rimini), XX, a 573
Pastiles, fire (Pyrotechny), XX, b 142
Pastille, perfume, XVIII, a 537
Pastils (Crayons), VI, a 492
Paston family (Paston Letters), XVIII, a b 350
Paston Letters, XVIII, b 349–50; (England), VIII, a 297; (Inns of Court), XIII, a 96; (Newspapers), XVII, a 424
Pastor, bird (Starling), XXII, a 475, note
Pastor Æternus, decree (Vatican Council), XXIV, b 122, a 123
Pastoral Care of Gregory (Alfred the Great), I, b 447, a 448
Pastoral Epistles in New Testament, XVIII, a 353–6
    contents, b 353–4
    language, a b 354
    relation to St. Paul's life, b 354–5
        to theological opinion, b 355–6
Pastoral Letter, XVIII, b 356
—— migration (Italy), XIII, b 461
Pastoral, poetry, XVIII, b 350-3
    English, b 350, a b 351–3
    France, b 350, a 351
    Holland, a 352
    Italian, b 350
    latest forms, a 353
    Latin, b 350
    Spain, a 351
—— (Bion), III, b 602; (Bloomfield), a 727; (Browne, W.), IV, a 359; (Drama), VII, a 362, a 373; (Florian), IX, a 296; (Garcilaso de la Vega), X, b 67; (Gay, J.), b 107; (Gessner, S.), a b 496; (Hogg), XII, a b 53; (Italy), XIII, a 518; (Jonson), a 754, a 756; (Philips), XVIII, a b 768; (Pope), XIX, a b 498, b 499. (Portugal), b 571; (Provençal Literature), a 899, b 900; (Ramsay), XX, *b* 278–9; (Roman Literature), a 742; (Scotland), XXI, b 566; (Shenstone), a 832; (Theocritus), XXIII, a b 272
Pastoral staff (Costume), VI, b 408, a 410
—— state (Archæology), II, a 299
—— tales (Dudevant), VII, b 440–1; (Romance), XX, a 676
Pastorellas or Pastourelles, songs (Pastoral), XVIII, a 351; (Portugal), XIX, b 570
Pastor Fido (Drama), VII, a 362; (Fanshawe, Sir R.), IX, b 26, a 27; (Guarini), XI, *b* 210–1; (Pastoral), XVIII, b 350
Pastor of Hermas. See Hermas
Pastors (Presbyterianism), XIX, *b* 696, a 698, b 707
Pastourelles. See Pastorellas
Pasturage (Corn Trade), VI, *a* 368; (Dairy), b 677–8; (Ireland), XIII, a b 228, b 232, a 233. See Grazing
Pasture (Agriculture), I, *b* 265–6, a 294, b 310, a 312, a 330–2; (Arabia), II, a 213; (Bees), III, b 430; (Horse), XII, a b 198; highland (Agriculture), I, b 356–7
——, Common of, VI, a 187
—— Mushroom (Ill.), XVII, b 81, a 82
Pastyme of People, The (Rastell), XX, b 299
Pásupatas, sect (Sanskrit), XXI, a 306
Pasvik Elv, river (Norway), XVII, b 589
Pát, fibre (Jute), XIII, a 808
Pat, region (Thar and Párkar), XXIII, b 239
Patá, weapon (Sword), XXII, a 840
Patagona, genus (Humming-Bird), XII, a 373
Patagonia, XVIII, b 356–9
    Argentine or eastern division, b 357
    Chilian or western division, b 356–7
    history, b 358
    rivers, eastern, a b 358
—— (America), I, a 595; (Argentine Republic), II, *b* 429, a b 430, *a* 434; (Birds), III, a b 646, b 651; (Magellan), XV, a 199
Patagonian Rabbit, XX, b 199
—— races (America), I, *b* 602, a 603, a 616; (Argentine Republic), II, a 435; (Chili), V, a 538; (Demonology), VII, b 54, a 56; (Giant), X, a 511; (Indians), XII, b 869-70
Patah-Hotep, Egyptian prince (Theism), XXIII, a 257
Patala, city (Hyderabad), XII, a 446; (India), *b* 826, note, a 828
Pātan, town (Nepāl), XVII, a 351, *b* 353
Patáni, district (Malay Peninsula), XV, a 324, a 325; river, a 324
Patanjali, reformer (Brahmanism), IV, *b* 188, a 189; (Sanskrit), XXI, a 298, a 305, b 306–7
Patapsco river (Maryland), XV, a 609
Patara, town (Lycia), XV, a 94, a 95
Patarenes, sect, XVIII, a 359; (Florence), IX, b 292
Patavium, city. See Padua
Patay, battle of, 1429 (Joan of Arc), XIII, b 707
Pâté de foie gras (Strasburg), XXII, a 618; (Truffle), XXIII, b 628
Pâte dure (Pottery and Porcelain), XIX, a 657, a *b* 658, b 659; sur pâte, a 659, a 662; tendre (Ill.), a b 657, a b 658, b 660, a 661
Patella, knee-cap (Ill.) (Anatomy), I, b 727, a 738; (Mammalia), XV, a 363; (Skeleton), XXII, a 126
——, limpet (Mollusca) (Ill.), XVI, a 663, a 668–71, a 706, b 707
Patellæ (Hymenoptera), XII, a 607
Patellidæ, family (Mollusca), XVI, b 668–b 671
Patent, royal letter (Baron), III, a 335; (Peerage), XVIII, b 475
Patent, land (Homestead), XII, a 126, a 127
—— Leather, XIV, a 388
—— office administration, U. S., XVIII, b 875
—— Office, London (Libraries), XIV, b 516, a 545; (Patents), XVIII, a b 361; (Trade), XXIII, b 529
—— outsides (Newspapers), XVII, a 447
Patent Rolls (Records), XX, a 324
Patents, XVIII, a 359–63
    British office, a b 361
    colonies, British, b 361–2
    design of the system, a 359
    foreign, b 362–3
    international, b 363
    patentable claims, nature of, b 359–60
    protection, extent of, b 360–1
    United States, b 361
——, British (Arkwright), II, a b 475; (Bacon), III, b 179; (Brass), IV, b 195; (Brushes), a 363; (Button), a 533; (Lock), XIV, b 756; (Monopoly), XVI, a b 784; (Trade-Marks), XXIII, a 530; Mansfield's ruling (Telescope), b 149
Patents in the United States, XVIII, a 873–84
    agricultural implements, a 877–8
    clocks, watches and paper, a b 880
    clothing, India-rubber and glass, b 882
    colonial period, a 873
    distinctive features of, b 874
    electrical communication, a b 883
    fire arms, b 879–80
    food-products, a b 881
    hardware, scales and fire-extinguishers, a b 882
    history of legislation, a 873–4
    labor, effects on, a b 884
    musical instruments, a 883
    rules and practice of office, a 875–6

- PATENTS IN THE UNITED STATES, *continued*
  - sewing-machine, a 880
  - statistics, 876, b 883-4
  - steam-transportation inventions, b 878-9
  - steel and iron, b 881
  - textile industries, b 880
- —— (Read, N.), XX, a 897; (United States), XXIII, b 805
- Patent Theatres, XXIII, a 246
- PATERCULUS, Marcus Velleius, historian, XVIII, b 363-4
- Paterfamilias, rights of (Roman Law), XX, b 688, note, a 689-90, a 691, b 694, a b 695; in jus civile, a 704, *a* b 705; in jus naturale, a b 725, *b* 732; in Justinian code, *b* 732
- Paterini, sect. See PATARENES
- Paternity (Medical Jurisprudence), XV, a 790
- PATERNO, town, XVIII, a 364
- Paternoster (Angling), II, a 33
- —— Row (London), XIV, a 842
- PATERSON, city, XVIII, a b 364
- ——, Elizabeth (Bonaparte, Jerome), IV, b 27
- ——, James, inventor (Net), XVII, *b* 368
- PATERSON, William, adventurer, XVIII, b 364-5; (Darien), VI, a 726; (Law, J.), XIV, a 367 note
- ——, William, statesman (United States), XXIII, a b 796
- Pates, Richard, philanthropist (Cheltenham), V, a 397
- Path, aggregate (Mechanics) XV, b 772, a 773; of contact (Mechanics), b 766, a b 767
- Pathánkot, town (Guardáspur), XI, a b 296
- Pathans, tribe (Afghânistân), I, b 210, b 212, a b 213, b 214; (Gaur), X, b 101-2; (Hyderabad, district), XII, a 446; (Peshawar), XVIII, a 698; (Punjab), XX, a b 114, *a* 115; of Delhi (Numismatics), XVII, *b* 679
- Pathogenic organisms (Septicæmia), XXI, *a* b 699; (Surgery), XXII, b 721; poisons (Surgery), a 716; power (Homœopathy), XII, a 130
- Pathological Anatomy, I, b 714, a 716; (Abercrombie), a 40; (Morgagni), XVI, a b 848-9
- PATHOLOGY (Ill.), XVIII, a 366-417
  - acute infective fevers, a 413-4
  - albuminuria, a 395-6
  - anæmia, pernicious, a 384
  - blood-making errors in mature life, a 383-4
    - tumors, a b 376
    - vessels in repair, a 370
  - bone repair, b 372-3
    - tumor, b 376-8
  - bovine tubercle, a b 416
  - cancer, b 387-91
    - of the breast, b 391-2
  - cancerous infection, a b 389
    - discontinuous, b 390-1
  - catarrh, a b 385
  - chills in fever, a 404-5
  - chlorosis, b 382
  - connective tissue in inflammation, a b 410
  - cretinism, a 382, a b 393
  - Cullen's theory of fever, b 403
  - cystic sarcoma, b 374-5
  - degenerations, b 398-9
  - degenerative nervous disorders, a 401-2
  - dermoid cyst, b 378-9
  - diabetes, a 394-5
  - "dissolution" principle of nervous diseases, a 402
  - dysentery, a b 405
  - epithelial surfaces, tumors of, a b 386
  - erysipelas, a b 408
  - exanthemata, a 414
  - experimental study of inflammation, a 409-10
  - fibroma, b 373-4
  - functional nervous disorders, a 400-1
  - glandular tumors, b 386-7
  - gout, a b 397
  - granulation repair, b 368-72
  - hæmophilia, b 382
  - heat regulation, errors of bodily, b 402-7
  - index, 418
  - infectiveness, a 411-2
  - inflammation, b 407-10
  - introduction, a 367-8
  - kidney, structural changes in, a 396-7
  - leucocytosis, b 383
  - leukæmia, a b 383
  - literature, a 367, b 373, b 379, note, b 382, note, 384 note, b 391 note, a 394 note, a 399 note, b 403 note, b 407 note, b 410 note, b 412, a 417 note
  - liver, abscess of, b 405
    - yellow atrophy of, a 395
  - malarial fevers, b 403-5
  - mesoblastic tumors, b 373-9
  - metabolism, errors of, a 394-9
  - myeloid tumor, a b 378
  - myxoma, b 375
  - nerve and muscle repair, a b 373
  - nervous control, b 399-402
    - in inflammation, b 408-9
  - neuralgia and tetanus, b 399-400
  - obesity, b 397-8
  - obsolescence, diseases of, b 391-2
  - osteoid tumor, b 377-8
  - osteomalacia, b 381-2
  - parasitic diseases, b 417
  - placental function in congenital disorder, a b 381
  - pneumonia, a b 406
  - progress and scope of, a 366-7
  - repair processes, a 368-73
  - rheumatic fever, b 406-7
  - rickets, b 379-81
  - sarcoma, a 374-6
  - secretion, errors of, b 384-7
  - skin formation in repair, a 371-2
  - specific infection, b 412-17
  - suppuration in inflammation, a 410
    - in repair, b 370-1
  - suprarenal disorders, Addison's disease, a b 392
  - syphilis, a 414-5
  - tendon granulations, b 369
  - thermic fever, a b 403
  - thyroid gland, disorders of, b 392-4
  - toxic diseases, a 417
  - tubercle and scrofula, a 415-6
  - tumor infection, b 411-2
  - wound infection, a b 411
- —— (Abortion), I, b 53; (Absinthe), a 58; (Aphasia), II, b 150; (Apoplexy), a b 169; (Asthma), a 644; (Ataxy, Locomotor), b 723-4; (Baglivi), III, b 202; (Cancer), IV, a b 707; (Cholera), V, b 593; (Diabetes), VII, b 127; (Diphtheria), a 218; (Dream), a b 393, a b 394, a 395; (Dropsy), b 407; (Glanders), X, b 565-6; (Goitre), a b 658-9; (Gout), XI, b 7-8; (Hunter, J.), XII, b 402, a 407; (Hydrocephalus), b 447-8; (Hydropathy), a 576; (Hydrophobia), b 578-9; (Hypochondriasis), b 632-3; (Hysteria), a b 635; (Insanity), XIII, b 105-6; (Jaundice), b 608, a b 609; (Leprosy), XIV, a b 470; (Measles), XV, a 663-4; (Medicine), a b 805; (Murrain), XVII, b 64, a b 65, a b 66, a 67; (Narcotics), a b 237-8; (Myelitis), b 122; (Nettlerash), b 369; (Neuralgia), b 372, a b 373; (Ophthalmology), a 802-9; (Phthisis), XVIII, b 869-70; (Plague), XIX, b 170-1; (Pneumonia), a b 262; (Poisons), a 288; (Purpura), XX, b 122; (Rabies), a b 206; (Rheumatism), b 530, a b 531; (St. Vitus's Dance), XXI, a b 212; (Schizomycetes), b 424-5; (Sea-Sickness), b 640-1; (Smallpox), XXII, b 172-3; (Stigmatization), a b 578; (Stomach Diseases), a *b* 603, *a* b 604; (Tape-Worms), XXIII, a 58; (Trematoda), b 572-3; (Typhus and Typhoid), a 720; (Vesical Diseases), XXIV, a 204-5; of tumors (Surgery), XXII, a 723
- Pathros, country (Egypt), VII, a 607, note
- "Paths, Four" (Buddhism), IV, a 384, a 388
- *Path to Virtue*, Buddhist Scripture (Pâli), XVIII, a 189
- PATIÁLA, state, XVIII, a 418
- *Pātimokkha*, scripture (Buddhism), IV, b 389, b 392; (Pâli), XVIII, a 189
- Patina (Bronze), IV, a b 330, a 331, a 332
- Patinir, Joachim da, painter, (Schools of Painting), XXI, b 458, b 463
- Patino, island. See PATMOS
- Patiño, Joseph, Don, statesman (Spain), XXII, a b 352, a 353
- Patio mining process (Mexico), XVI, a 907
- Pativilca, river (Peru), XVIII, a 684, b 685
- Patkanow, K. P., editor (Moses of Chetene), XVI, a 890
- Patkoi mountains (India), XII, b 769, a 770
- Patkul, John Reginald, diplomatist (Charles XII.), V, b 364
- Patmamit, ruined town (Guatemala), XI, a 214
- PATMOS, island, XVIII, a 418-9
- PATNA, Bengal, district, XVIII, a b 419
- PATNA, in Central provinces, state, XVIII, a 420
- PATNA, city, XVIII, b 419-20; (India), XII, b 777, a 783, *a* 788, b 799, a 827, note; trade of, a *b* 838, *a* b 841
- —— Opium, XVII, b 215
- Patolli, game (Mexico), XVI, b 215
- Patos, pass (Chili), V, b 535
- PATRAS or Patræ, city, XVIII, a b 420; (Greece), XI, b 76, b 77, a 80; (Numismatics), XVII, b 659; Gulf of (Greece), XI, b 74
- ——, Lambert, sculptor, (Sculpture), XXI, a 591
- Patria potestas, custom (Husband and Wife), XII, a 416; (Roman Law), XX, a b 689-90, *b* 691, b 694; decay of, b 721, *a* 725, b 732; in jus civile, *a* b 705, a 706
- PATRIARCH, title, XVIII; b 420-1; (Aquileia), II, a b 201; (Episcopacy), VIII, a 433; (Nestorians), XVII, b 366, a 367; (Pelagius II.), XVIII, b 484; Armenian, II, a 481, a 482; eastern (Greek Church), XI, a b 137, *a* *b* 138, a 142; Jacobite, a 139
- —— of Constantinople (Greece), XI, a b 110; (John XIX., Pope), XIII, b 722
- *Patriarcha*, treatise (Filmer), IX, b 145
- Patriarchal altars (Pentateuch), XVIII, a 520; system (Israel), XIII, b 408-9
- Patriarchs (Israel), XIII, b 418, a 439
- PATRICIANS, Roman order, XVIII, a b 421; (Ædile), I, *a* 163; (Agrarian Law), b 257, *a* 258; (Comitia), VI, b 174-5; (Consul), b 279; (Genealogy), X, b 128-9; (Nobility), XVII, b 538, a b 539, *a* 540; (Odoacer), XVII, b 747;

Patricians, *continued*
  in regal period (Roman Law), XX, b 686-7, *b* 690-1, a 693 note, a 696; republican (Rome), XX, *a* 755-7, b 775
Patriciate, government (Soleure), XXII, a 264
Patricius or Mar Abas, bishop (Cosmas), VI, b 394, note
—— Romanorum, title (Rome), XX, b 803, a b 805, b 810
PATRICK, St., missionary, XVIII, b 421-3; (Ireland), XIII, a 253-5; (Scotland), XXI, b 496
PATRICK, Simon, bishop, XVIII, a 423; (Hymns), XII, *b* 627
"Patrimonium Petri" (Popedom), XIX, a 508, a 509
Patriotic Order (Oddfellows), XVII, a 744
Patriotism (Socrates), XXII, b 245
"Patriot's War," 1838 (Scott), XXI, a b 577, note
Patripassian doctrine Monarchianism, XVI, a 745; (Jesus Christ), XIII, *b* 681
Patristic evidence (Gospels), X, b 723-8, b 729-33
—— literature (Apologetics), II, a 168; (Apostolic Fathers), a 171-3; (Fathers of the Church), IX, b 44-5; (Hailes), XI, b 334; (Montfaucon), XVI, b 813; (Tertullian), XXIII, a 213; teaching, nature of (Scholasticism), XXI, a 435; theology (Theism), XXIII, b 259; traditions (Luke), XV, a b 64
Patrizio, Well of S. (Orvieto), XVIII, b 57
Patroclus, hero (Achilles), I, b 89, a 90
Patrologia Migne's (Indulgence), XII, a 888; (Fathers of the Church), IX, a 45
Patron, Athenian (Solon), XXII, b 268
Patronage, church, in Scotland (Presbyterianism), XIX, a b 700, a 703, *b* 704-5; (Scotland), XXI, *a b* 562, *a* b 564
——, English (Roman Catholic Church), XX, b 648
Patronal compacts, Roman (Inscriptions), XIII, a b 137
PATRON AND CLIENT, XVIII, a 423-4; (Advocate), I, b 161
—— of a Benefice, III, *a* b 483; (Advowson), I, *b* 162
Patrons of Husbandry, society (United States), XXIII, a 835
Patronymics (Gaelic), X, a b 11
Patroons, land-owners (New York), XVII, *b* 466; (United States), XXIII, a 779; (Van Rensselaer), XXIV, b 876
Pâts or cup-lands (Balasor), III, a 235
Patten, S. N., economist (Taxation, United States), XXIII, a 927
Pattens (Shoemaking), XXI, a 869
Patterns (Lace), XIV, b 184, a 186, a 192
——, casting (Founding), IX, a b 423; (Iron), XIII, a 366
PATTESON, John Coleridge, bishop, XVIII, b 424; (Norfolk), XVII, *b* 551
Patterson, Carlisle Pollock, engineer (Surveys), XXII, b 939
—— beetle (Bleaching) (Ill.), III, b 710-1, a 712
Patti, Adelina, singer (Rossini), XX, a 884
Pattinson's concentration process (Lead), XIV, a 377; furnace (Sodium), XXII, a 256; method of analysis (Iron), XIII, a 295
Pattison, Mark, critic, *b.* 1813, *d.* 1884 (Government), XI, a 16, note; (Scaliger), XXI, a 378, a b 379, *b* 380; (Sonnet), XXII, *a* 276; (Wolf), XXIV, b 663
Patuas, race (India), XII, b 816
Patuxent river (Maryland), XV, a 609
Patzenegues or Patzinaks, people (Greece), XI, a 104, a 106; (Manuel), XV, b 512
PAU, city (Ill.), XVIII, b 424-5
Pauchontee, gum (Gutta Percha), XI, b 303
Paucker, mathematician (Tables), XXIII, a b 18
Pauillac, town (Bordeaux), IV, a 46
PAUL, apostle, XVIII, a b 425-40
    Antioch, church founded in, b 427, a 429
    Asia Minor, visits to, b 429, a 431
    Christology of, b 435-6
    churches and their ordinances, a b 438
    churches, relation of the apostle to his, a b 431
    conversion and its immediate results, b 426-7
    council at Jerusalem, b 428, note
    epistles, how connected with, b 432-3
    eschatology, a b 437
    faith, doctrine of, b 436-7
    first detailed missionary journey, a 428
    free-will, b 437-8
    Gentiles, undertakes mission to remote, a 429 *sq.*
    Greece, visits to cities in, a b 430, a 432
    Jerusalem, carries alms to, a b 432
    Jewish life of, a b 426
    law, his conception of the, a 435
    literature, a 429 note, b 439-40
    Macedonia, visits to, b 429, b 431
    name and origin, a b 425
    personality of, b 433
    pseudonymous writings, b 433
    Rome, visit to, a b 433
    sin, b 434
    theology of, a 434-9
—— (Acts of the Apostles), I, *b* 115, *a b* 116, b 117, a b 118; (Angel), II, b 26-7; (Antichrist), a *b* 110, b 111; (Apostle), a 170; (Baur), III, *a* 388; (Bible), a 555; (Canon), V, a 7, a 8, b 9; (Città Vecchia), a 695; (Colossians), VI, b 147; (Corinthians), b 354 *sq.*; (Corinth), a 354; (Ecija), VII, a 556; (Eschatology), VIII, b 472, b 473; (Epimenides), b 427; (Episcopacy), *a b* 431, note; (Galatians), X, a b 19; (Gospels), b 723-4; (Hebrews), XI, a b 538, a 539; (Iconium), XII, b 735; (James), XIII, a 565; (Jesus Christ), a 670, note, a 681, note; (Malta), XV, *b* 342, a 343, *b* 344, a 346; (Marcion), *a b* 541, *a* 542; (Missions), XVI, a 535; (Pastoral Epistles), XVIII, a 353-6; (Peter), b 708-9, b 710, a 711; (Philemon), b 755; (Philippians), b 760, a b 761; (Popedom), XIX, a b 502; (Prophet), a 844; (Romans), XX, a b 746, a b 747, a b 748; (Sabbath), XXI, a 134; (Seneca), *b* 691; (Tonsure), XXIII, b 472; (Tarsus), a b 73
——, *Apocalypse of*, II, b 157
PAUL I., pope, XVIII, b 440; (St. John of Jerusalem), XXI, a 148
PAUL II., pope, XVIII, b 440-1; (Alexander VI.), I, a 431; (Cameo), IV, b 653; (Carnival), V, *a* b 108; (Podiebrad), XIX, a 266; (Rimini), XX, *a* 574; (Rome), b 823
PAUL III., pope, XVIII, a b 441; (Capuchins), V, b 71; (Cardinal), a *b* 86, a 87; (Carnival), a *b* 108; (Italy), XIII, b 492-3; (Jesuits), a b 663, a 664; (Luther), XV, a 85; (Michel Angelo), XVI, b 243; (Monachism), b 737, b 738; (Popedom), XIX, b 518, b 524; (Reformation), XX, b 347, a 348; (Titian), XXIII, b 444; (Trent, Council of), a b 579, a 581; (Xavier), XXIV, b 752, a 753
PAUL IV., pope, XVIII, b 441; (Cardinal), V, b 86; (Carnival), b 108; (Elizabeth), VIII, b 133; (Ferdinand I.), IX, a 68; (Ireland), XIII, b 269; (Jesuits), a 664; (Monachism), XVI, b 737; (Palestrina), XVIII, a 183; (Philip II.), a 758; (Popedom), XIX, b 518-9, b 524; (Trent, Council of), XXIII, a b 582, a 584
PAUL V., pope, XVIII, a b 442; (Capuchins), V, b 71; (Galileo), X, *b* 30; (Molina), XVI, b 653; (Popedom), XIX, b 519, a 520, b 524; (Sarpi), XXI, *b* 326, a 327; (Venice), XXIV, b 158
PAUL, czar, XVIII, b 442-3; (Catherine II.), V, b 203, *a* 204; (Ionian Islands), XIII, b 212; (Platon), XIX, *a* 224; (Russia), XXI, b 108; (Slavery), XXII, a 152; (Suwaroff), a *b* 766
—— of Antioch, patriarch (Syriac Literature), XXII, b 874
—— of Caen, abbot (St. Albans), XXI, *b* 164
—— of Callinicus, bishop (Syriac Literature), XXII, b 875
—— of Constantina, bishop (Syriac Literature), XXII, a 865
—— of Cyprus, abbot, translator (Syriac Literature), XXII, b 880
—— of Edessa, bishop (Syriac Literature), XXII, b 875, note
—— of Foligny, friar (Franciscans), IX, b 615
——, hermit (Monachism), XVI, b 725, a 726
—— the Persian, courtier (Syriac Literature), XXII, a 879
PAUL of Samosata, bishop, XVIII, a b 440; (Palmyra), b 205 note, a 206; (Hymns), XII, a 614; (Jesus Christ), XIII, *b* 681; (Monachism), XVI, a 745
—— of Tellā, translator (Syriac Literature), XXII, b 880
——, H., philologist (Germany), X, b 464 note
——, Louis, inventor (Yarn), XXIV, a 767
Paula, St., nun (Jerome), XIII, b 641-2; (Monachism), XVI, b 728
Paul and Thekla, Acts of (Paul), XVIII, a 428, *b* 433; (Thecla), XXIII, a 250
Paul and Virginia (Longus), XIV, b 878; (St. Pierre), XXI, b 205, *a* 206
PAULDING, James Kirke, humorist, XVIII, a b 443; (American Literature), I, a 636
——, William Irving, editor (Paulding), XVIII, b 443
Paule, Sir G., biographer, (Whitgift), XXIV, b 585
Pauler, Joseph, historian (Hungary), XII, b 395
Paulet, Sir Amias, squire (Elizabeth), VIII, b 134; (Mary Stuart), XV, *a* 607, a 608; (Wolsey), XXIV, a 668
Paul Frederick of Mecklenburg, grand duke (Schwerin), XXI, b 485
Paulgaut, measure (Weights and Measures), XXIV, a 518
PAULI, Reinhold, historian, XVIII, b 443-4
PAULICIANS, sect, XVIII, b 444-5; (Albigenses), I, a b 402; (Dominic), VII, b 306; (Gnosticism), X, b 628
Pauline chapel (Zuccaro), XXIV, *a* 865
—— Epistles. See PAUL, PASTORAL EPISTLES and specific names
Paulinus of Aquilea, bishop (Creeds), VI, b 497, *a b* 498; (Hymns), XII, a 617
PAULINUS of Nola, bishop, XVIII, a b 445; (Bell), III, a 463; (Mural Decoration), XVII, a b 50
—— of York (Archbishop), II, a 324; (Dewsbury), VII, a 126; (Edwin), b 599-600; (England, Church of), VIII, b 332; (Northumberland), XVII, a 583
—— or Paulonas, heretic (Syriac Literature), XXII, a 868

Paulinus, Caius Suetonius, consul (Boadicea), II, b 731
Paulite (Mineralogy) (Ill.), XVI, a 433
"Paul Pry," character (Liston, J.), XIV, b 701
Paulsen, historian (Universities), XXIII, a 898 note, a 903 note, *b* 914
Paulsson, Biarni, author (Iceland), XII, a 663
Paul's Walk, description of (London), XIV, b 858
Paulus of Ægina or Ægineta, physician, I, a 164; (Medicine), XV, a b 814; (Surgery), XXII, b 709
PAULUS, Heinrich Eberhard Gottlob, theologian, XVIII, b 445–6; (Schelling), XXI, b 408
——, Julius, jurist (Breviarium Alaricanum), IV, *a* 235; (Justinian I.), XIII, a b 802; (Roman Law), XX, b 722, b 723, b 724, *b* 730, a *b* 731
PAULUS or Paullus, Lucius Æmilius, general, XVIII, b 446; (Ætolia), I, b 202; (Hannibal), XI, *a* 396; (Lepidus), XIV, a 469; (Libraries), b 510; (Pacuvius), XVIII, a 134; (Rome), XX, a 768, b 769, a 772, a 835; (Scipio), XXI, a 489
PAULUS DIACONUS, historian, XVIII, b 446–7; (Festus, S. P.), IX, b 103; (Friuli), b 694; (Hymns), XII, *a* 617; (Narses), XVII, b 240 note
Paumben canal (Canal) (Map), IV, b 699–700; (Ceylon), V, b 311
Paumotu islands (Pacific Ocean), XVIII, b 132; (Tuamotu), XXIII, b 639 note
Pauní, town (Bhandárá), III, b 542
Pauperism (Chalmers), V, a 326; (England), VIII, a 228–9; (Ethnography), a 549; (Iceland), XII, b 654; (Ireland), XIII, a b 245, b 275; (Italy), a 465; (London), XIV, a b 842–3, b 862; (Poor Laws), XIX, b 476–96; (Scotland), XXI, a 553; cure of (Thompson), XXIII, b 330–1; freedom from (Greece), XI, b 78; treatment of (Owen, Robert), XVIII, a 91
Pauper relief (Newfoundland), XVII, *b* 395; (Paris), XVIII, b 287–8
Pauropidæ, family (Centipedes), V, a 296
Pauropus, genus (Myriapoda) (Ill.), XVII, *a* 126, *b* 127
PAUSANIAS, general, XVIII, a b 447; (Greece), XI, a b 90; (Persia), XVIII, b 584–5; (Pindar), XIX, b 107
PAUSANIAS, Greek antiquary, XVIII, b 447–9; (Agora), I, b 254; (Athens), III, a b 10; (Archæology), II, a 301, b 302, b 303, *a* 304, *a* b 305, a b 311; (Mysteries), XVII, *b* 135; (Mythology), *a* 160, note; (Thebes), XXIII, b 248, *a* 249
Pauson, painter (Archæology), II, a 314; (Caricature), V, b 91
Pavement (Mosaic) (Ill.), XVI, a b 877, b 878; St. Mark's (Venice), XXIV, b 164
—— light (Building), IV, a b 456
Pavements (Asphalt), II, a 626; (Paris), XVIII, b 284, a 294; Assyrian (Architecture), II, b 349; Roman (Ill.), XX, b 829; (Dorset), VII, a b 322
Pavesse, shield (Heraldry) (Ill.), XI, b 616
PAVIA, city, XVIII, a 449–50; (Italy), XIII, b 480, *a* 484; (Lombards), XIV, *a* *b* 823, *a* 825; (Sculpture), XXI, *b* 594, b 595, a 596; (Terra-Cotta), XXIII, b 211; battle of, 1525, (Charles V.), V, b 359; (Francis I.), IX, a 608; (Reformation), XX, a b 341; bridge of (Bridges) (Ill.), IV, b 298–9; Library, XIV, b 550; (Italy), XIII, 472
Pavic, Armin, historian (Servia), XXI, a 724
Pavilion (Brighton), IV, b 310–1
—— system (Hospital), XII, a 318, b 319, a b 320, a 321
Pavilliard, preacher (Gibbon), X, b 513, a b 514, b 518
Paving (Building), IV, a b 417; (Roads and Streets), XX, *b* 597, a 598–604; (Tramway), XXIII, a 539; asphalt (Building), IV, a b 411; stone, a 423; tile, b 407, b 417
Pavlinoff, explorer (Gobi), X, a 636, note
PAVLOGRAD, town, XVIII, b 450
Pavlosk, village (St. Petersburg), XXI, b 199, *a* 204
Pavo, genus (Peacock), XVIII, a b 454
Pavy, F. W., physician (Dietetics), VII, a 176 note, b 183, b 184, a 185; (Polar Regions), XIX, b 338, a 339
Pawn (Pledge), XIX, b 231–2
Pawnbroking (Feltre), IX, a 61; (Interest), XIII, a 195
Pawnee, tribes (Indians), XII, b 865, *b* 866, a 873
PAWTUCKET, town, XVIII, b 450; (Rhode Island), XX, b 538, *a* 539
Paxaro mosquito (Humming-Bird), XII, a 371
Pax ecclesiæ (Truce of God), XXIII, a b 628
PAXO or Paxos, island, XVIII, b 450; (Ionian Islands), XIII, b 211, *a* *b* 212, *a* 213
Pax Romana (Truce of God), XXIII, a 628
PAXTON, Sir Joseph, architect, XVIII, b 450–1; (Horticulture), XII, a 226
Paxwax, ligament (Horse), XII, a 181
Pay (Navy), XVII, a 306–7
Pay of British Army, II, b 502; of Control Department, b 510; of officers, b 504; of staff, a 506; of surgeons, a 511; of troops, b 503
—— of British Navy, XVII, a 306–7
Payagua Indians (Argentine Republic), II, b 430, a 431
Payan, Claude François de, politician (Robespierre), XX, a *b* 620
Payane, lake (Finland), IX, b 188
Payanghát, plateau Kanara), XIII, a 844; valley (Berar), III, a 503, a 504
Payé (Magic), XV, *a* 201
Payer, Julius, explorer (Geography), X, *a* 175; (Polar Regions), XIX, *b* 335–6
Pay-Kho mountains (Nova Zembla), XVII, b 619
Paymaster (Navy), XVII, a 302, b 303
PAYMENT, in law, XVIII, a 451–2; deferred (Money), XVI, a 747, a 750
Payne, Roger, binder (Bookbinding), IV, a 38
——, William, author (Whist) XXIV, b 574
PAYSANDU, port, XVIII, a 452; department (Uruguay), XXIV, a b 19, a 20
PAYTA or Paita, town, XVIII, a 452; (Peru), b 687
Payva, Affonso de, traveller (Geography), X, b 161
Pazand MSS. (Pahlaví), XVIII, a 140, note
Paz Soldan, Don Mariano Felipe, geographer (Peru), XVIII, a 689, b 693
——, Pedro, poet (Peru), XVIII, a 689
Pazzi, family (Italy), XIII, a 491; (Medici), XV, *a* 796; conspiracy (Botticelli), IV, a 151
PEA, plant, XVIII, a b 452; (Botany) (Ill.), IV, b 77, b 83, a b 102, a 116, a 118, a 129, b 131, b 135, b 137, *a* 140, *b* 142; (Horticulture), XII, b 297–8. See Pease
PEABODY, town, XVIII, b 452
PEABODY, George, banker, XVIII, b 452–3; (Schools), XXI, b 911
—— Academy (Salem), XXI, b 220–1
—— Institute (Baltimore), III, b 257–8; (Libraries), XIV, b 535; (Maryland), XV, a 611
—— Institute (Salem), XXI, a 221
Peace, comedy (Aristophanes), II, b 447; (Ion), XIII, a 209
"Peace," missionary ship (Zaire), XXIV, b 802
——. See Treaties of Peace
——, Amiens, 1802 (France), IX, b 540–1
——, Antalcidas, 387 B.C. (Sparta), XXII, b 384
——, Augsburg, 1530 (Luther), XV, a 83–4; (Lutherans), a 87
——, Belgrade, 1739 (France), IX, a 516
——, Bergerac, 1577 (France), IX, a 496
——, Breslau, 1742 (Frederick II.), IX, b 647
——, Bretigny, 1360 (England), VIII, b 286
——, Cappel, 1529 (Zwingli), XXIV, a 873
——, Cateau Cambresis, 1559 (France), IX, b 493
——, Chastenoy, 1576 (France), IX, b 495
—— of Clement IX., 1668 (Jansenism), XIII, b 576–7
——, Constance, 1183 (Italy), XIII, b 484
——, Crespy, 1544 (France), IX, b 491
——, Dresden, 1745 (France), IX, b 516
——, Frankfort, 1871 (Metz), XVI, a 212
—— of God, 1036 (France), IX, a 474
——, Hubertsburg, 1763 (France), IX, b 520
——, Kadan. 1534 (France), IX, a 491
——, Kiel, 1814 (Norway), XVII, b 603
——, Ladies', 1529 (France), IX, b 490
——, Lisbon, 1479 (Ferdinand V.), IX, a 72
——, Longjumeau, 1568 (France), IX, b 494
——, Lunéville, 1801 (Würtemberg), XXIV, b 738
——, Nimeguen, 1678 (France), IX, a 509
——, Nystad, 1721 (Peter I.), XVIII, b 712
——, perpetual (International Law), XIII, a 203
——, Presburg, 1805 (France), IX, a 542; (Würtemberg), XXIV, b 738; (Würzburg), b 740
——, Pyrenees, 1659 (France), IX, *b* 505
——, Ruel, 1649 (France), IX, b 504
——, St. Germain-en-Laye, 1570 (France), IX, a 495
——, Stolbova, 1617 (Gustavus II.), XI, b 298
——, Utrecht, 1713 (Utrecht), XXIV, a 27
——, Vienna, 1809 (France), IX, b 542
——, Westphalia, 1618 (Metz), XVI, a 212; (Osnabrück), XVIII, a b 59; (Würtemberg), XXIV, a 738
—— cutting machine (Coal), VI, b 63
—— Guilds, XI, a 231; societies, rise of (Worcester), XXIV, *a* 915
Peace of Münster, painting (Flinck), IX, a 284; (Helst), XI, b 572
PEACH, tree and fruit, XVIII, a 453–4; (Acclimatization), I, a 82; (Botany), IV, b 124, a 135, b 137; (Horticulture), XII, a 283–4; (Michigan), XVI, a 247; grafting; (Horticulture), XII, b 217; house (Ill.), b 228–9
——, C. W., geologist (Geology), X, b 292, a 295
Peacham, Edmund, trial of (Bacon), III, b 177; (Coke, E.), VI, b 109
PEACOCK, bird (Ill.), XVIII, a b 454; (Birds), III, b 615
—— butterfly (Plate XXVII) IV, a 530
PEACOCK, George, mathematician, XVIII, b 454–5; (Herschel, John), XI, a 686
——, James, inventor (Filter), IX, b 146
PEACOCK, Thomas Love, novelist, XVIII, b 455–6

Peacock's feather, order (China), V, b 580
Pea Crabs (Ill.), VI, b 477
Pea fowl. See PEACOCK
Peak, mountain (Derby), VII, *a b* 93
Peaks and hollows, Magnetic, XVI, b 180, b 191
Peals (Bell), III, a 464, *a* 465
Pea nut. See GROUND NUT
PEAR, tree, XVIII, b 456; (Botany), IV, b 86, a 106, a 119, b 128, b 130, b 134, b 138; (Horticulture), XII, a 217, b 284-5; grafting, b 217, a 218, b 241-2
—— in Heraldry, XI, a 627
PEARL, gem, XVIII, a 457-9; (Aberdeenshire), I, b 46; colors of (Light), XIV, a 614; imitation (Beads), III, a 398. See Pearl Fisheries
—— islands (Tuamotu), XXIII, b 639 note, a 640
—— river, China (Canton), V, b 33-4
——, river (Louisiana), XV, b 21, a 22
——, yacht (Yachting), XXIV, a 759
—— ashes (Potassium), XIX, a 606
—— fisheries (Arabia), II, b 205, b 213; (Bahrein), III, b 207; (California), IV, a 617; (Ceylon), V, a 316; (File-Fish), IX, b 141; (India), XII, a 805; (Mexico), XVI, a 226, b 909, a 910
—— Mussel, XVII, *b* 117
Pearl-shell fisheries (Mother of Pearl), XVII, a 8
Pearl-spar (Mineralogy) (Ill.) XVI, b 383
Pearl stone (Geology), X, *a* 209
—— street (New York), XVII, a 893
—— type (Typography), XXIII, b 743
Pearl-white (Bismuth), III, a 687
Pearly nautilus (Mollusca) (Ill.), XVI, a 693, a 696-710
Pearsall, Robert Lucas, composer (Madrigal), XV, b 193
Pearson, Charles, lawyer (Railway), XX, a 248
——, George, physician (Jenner), XIII, *b* 634; (Vaccination), XXIV, b 28, a b 30, a 36
PEARSON, John, bishop, XVIII, b 459
Peasant Poetry, XIX, a b 284
—— proprietors (Agriculture), I, a 367-8; (Bavaria), III, a 390; (Mahrattas), XV, a 292; rents (Political Economy), XIX, a 391
—— republic, Ditmarsh (Heide), XI, a 555
—— revolt of 1381 (England), VIII, a 287, a 294; (Wycliffe), XXIV, b 746, note; of 997 (Normandy), XVII, b 555; of 1525 (Switzerland), XXII, b 828; of 1653 (Switzerland), a 831. See Peasants' War
Peasantry (Argentine Republic), II, b 434; (Ballads), III, a b 246; (France), IX, a 521; (Germany), X, a 438, a 442; (Greece), XI, a 79; (Hungary), XII, b 383, a 385; (Ireland), XIII, a 225, a b 226, a 233, b 275-6; (Italy), a b 465; (Japan), a b 588, b 589, a 593; (Livonia), XIV, b 730; (Pellagra), XVIII, b 486-7, note; (Poland), XIX, b 321-2, a 323; (Russia), XXI, b 89, a b 90-2, a 93, b 94; (Tyrol), XXIII, b 758; French in old Army, II, a 528; (Land), XIV, b 263; German (Land), a 264; of India (Mahrattas), XV, a b 292; mediæval English (Agriculture), I, a 262; (Prussia), XX, *b* 7, a b 9, a 12, b 13, b 14, b 15; Russian, XXI, b 89, a b 90-2, a 93, b 94; (Army), II, b 531; (Land), XIV, a 263; (Slavery), XXII, b 151-2; (Tourguenieff), XXIII, a b 519
Peasants' war (Anabaptists), I, a 690; (Germany), X, a 447; (Luther), XV, a b 80; in Austria (Pappenheim), XVIII, b 233
Pease (Agriculture), I, b 321, b 322-3
——, family (Darlington), VI, b 728, a 729
Peasley, A. M., inventor (Patents), XVIII, a 883
Peat (Agriculture), I, b 312, a 314, a *b* 359; (France), IX, a b 461; (Fuel), b 709-10; (Geology), X, b 212–3; (Holland), XII, a b 64; (Ireland), XIII, b 223; (Iron), b 298, note, a 299, a b 302; (Islay), b 397; (Poland), XIX, b 319; (Prussia), XX, a 19
——, Sir Robert, lord prior (St. John of Jerusalem), XXI, a 184
—— Baths, III, b 379
—— beds, submerged (Geology), X, b 228
—— Charcoal, V, b 346; cutting (Mining), XVI, b 475, b 489; (Somme), XXII, b 274
—— -gas (Gas-Lighting), X, b 91; mosses (Geology), a 257, a 283; soil (Horticulture), XII, b 237-8
Peaucellier cell (Mechanics), XV, b 705; (Steam-Engine), XXII, b 537
Peau d'Espagne (Perfumery), XVIII, b 537
Peba (Armadillo) (Ill.), II, b 477
Pebble powder (Gunpowder) (Ill.), XI, a 287, b 292, b 293, a 294
Pebbles, formation of (Geology), X, b 244
Pebrine, disease (Protozoa), XIX, b 879; (Silk), XXII, a b 65-6
Pecan nuts (Hickory), XI, b 705, a 706
PECCARY, mammal (Ill.), XVIII, a b 460; (Distribution), VII, b 241; (Swine), XXII, b 810, a 813
Pecchio, Giuseppe, Comte, publicist (Political Economy), XIX, *a* 375, b 415
Pech, river (Hindú Kúsh), XI, b 748
——, Henrietta, poetess (Slavs), XXII, a 162
Pechaboun, mountains (Siam), XXI, b 890
Pechaburi, town (Siam), XXI, b 890, b 892
Pe Ching, inventor (China), V, b 575
Peclet, Jean Claude Eugène, physicist (Electricity), VIII, b 79, b 93; (Heat), XI, *a b* 516, note, a 517, b 518
Pecocke, Reginald, bishop (English Language), VIII, b 355; (English Literature), a 367, b 368; (Lollards), XIV, b 821
Pecora, order (Mammalia), XV, b 436-8
Pecos river (New Mexico), XVII, a 410, a b 411; (Texas), XXIII, a 220, b 221
Pecquet, Jean, anatomist (Harvey), XI, *b* 451
Pecqueur, Onésiphore, inventor (Net), XVII, b 368
Pecten, genus (Mollusca), XVI, a 688, a 711
Pectin (Chemistry), V, b 502; (Ipecacuanha), XIII, b 216; (Jams and Jellies), b 573; and pectic acid (Botany), IV, a 78
Pectinaria, genus (Annelida) (Ill.), II, b 60, a 61
Pectinator, genus (Mammalia), XV, a 425
Pectocaulus, genus (Polyzoa), XIX, *b* 450
Pectolite (Mineralogy) (Ill.), XVI, b 390, b 438, a 439
Pectoral appendages (Skeleton), XXII, b 124, *a* 125, *b* 126, a 127; arch (Amphibia), I, a b 668; (Ichthyology), XII, b 680, b 683, b 684, a 685, a 686; (Plesiosaurians) (Ill.), XIX, a b 233
—— Cross, VI, a b 542
—— fin (Ichthyology), XII, b 674, a 675, b 684, b 691; girdle (Reptiles) (Ill.), XX, a 466-7, b 469; limb (Reptiles), b 467-8, b 469
Pecul, weight (Canton), V, a 35
Peculations, English official (Chatham), V, a 382
Peculium, property (Slavery), XXII, b 140, b 141, a b 142
Pecunia defined (Roman Law), XX, b 694, a 695 note; credita (Roman Law), *b* 701
Péczeli, Joseph, poet (Hungary), XII, a 393
Pedagogics, training in (Education), VII, b 587, b 588-9; (Herbart), XI, a 644; (Schools), XXI, b 910
Pedal (Organ), XVII, b 852, b 853, a 861, a b 862; boards, b 859-60; clavier, a 862; (Organ,) a 857-8
—— area of curves (Infinitesimal Calculus), XIII, a b 56
Pedalian, animalcule (Rotifera) (Ill.), XXI, a 8, a *b* 9, b 11, *a* b 12
Pedals (Pianoforte), XIX, b 78, a 83. See Pedal
Pedanei, magistrates (Rome), XX, a 807
Pedanius Secundus (Slavery), XXII, b 140, a 141
Pedasus, Homeric, town (Troad), XXIII, a 617 note
Peddlers, travelling merchants (Fair), VIII, b 743, note; (Ehningen), VII, a 683
Peder Paars (Holberg), XII, a b 59
Pedersen, Christian, author (Denmark), VII, a 79; (Saxo - Grammaticus), XXI, b 366
Pedestals, Italian (Architecture), II, a 385
Pedestrianism (Dietetics), VII, a 176, note
Pedetes, genus (Jerboa), XIII, b 636, a 637; (Mammalia) (Ill.), XV, b 420, a 425
Pediæcetes, genus (Grouse), XI, b 198
Pediæus or Pedias, river (Cyprus), VI, b 659; (Nicosia), XVII, a 504
Pediastrum tissues (Histology), XII, *a* 16
Pedicellina, genus (Polyzoa) (Ill.), XIX, a 447, b 450, b 452, *a* b 453, a b 454, b 455
Pedicels or Pedicles of plants (Botany), IV, b 108; of Echinodermata, VII, a b 546, b 547, a 550, a 551; of Mollusca (Ill.), XVI, *a* 687, a b 696; eye (Crustacea), VI, b 563
Pedicinus, insect (Louse), XV, b 26
Pediculati, fishes (Ichthyology), XII, a 692, a 698, b 702, a 716, b 728
Pediculus, insect (Louse), XV, a b 26
Pedieis, class (Greece), XI, b 87: (Pisistratus), XIX, b 139, note, *a* 140
Pedigrees (Gaelic), X, a 11; (Russia), XXI, a 105; of Horses, XII, b 187-9, a b 190
Pedilavium or foot-washing (Holy Week), XII, b 109; (Maundy Thursday), XV, a b 642
Pedimana, order (Birds), III, b 644
Pediment in Architecture, II, b 412; Greek Doric, b 354, *b* 362; modern Italian, b 385–6; Roman, b 365
Pedionomus, genus (Birds), III, a 643; (Quail), XX, a 154, note
Pediophilis, genus (Sand-Grouse), XXI, a 271, note
Pedir, town (Achín), I, a *b* 90
Pedjudan, mountain (Madura), XV, b 194
Pednelissus, town (Pisidia), XIX, b 139
PEDOMETER, instrument, XVIII, b 460
Pedrarias or Davila, governor (Balboa), III, *a* 237
Pedrazza, Gomez, aristocrat (Santa Ana), XXI, *a* 905
Pedregal, river (Ecuador), VII, b 560
PEDRO I., Aragon, XVIII, a 461; (Spain), XXII, b 330, a 332
PEDRO II., Aragon, XVIII, a 461
PEDRO III., Aragon, XVIII, a 461; (Charles of Anjou), V, a 367; (Sicily), XXII, b 32, *a* 33; (Spain), *b* 333, a 337

- PEDRO IV., Aragon, XVIII, b 460-1; (Spain), XXII, b 337-8, b 377
- —— I., Dom, Brazil, emperor (America), I, b 623, a 625; (Brazil), IV, b 208-9; (Miguel), XVI, a b 302
- —— II., Dom, emperor (Brazil), IV, b 209-10
- PEDRO I., the cruel, Castile and Leon, XVIII, a 461-2; (Edward, Black Prince), VII, b 595; (Henry II., Castile), XI, b 598; (Spain), XXII, b 334-5
- PEDRO I., Portugal, XVIII, a 462; Castile, XXII, b 335; (Castro), V, a b 176; (Portugal), XIX, *b* 558
- —— II., king (Portugal), XIX, a b 564; (Spain), XXII, a 350
- —— III., king (Portugal), XIX, a b 565-7
- —— IV., king (Portugal), XIX, b 567-8
- —— V., king (Portugal), XIX, b 568-9
- —— of Castile, regent, 1319 (Spain), XXII, a 334
- ——, duke of Coimbra (Portugal), XIX, b 559, a b 560
- Peduncle (Botany) (Ill.), IV, b 108-9; (Brachiopoda), b 174, *b* 175
- Peduncular fibres (Anatomy), I, *b* 771, a 772
- PEEBLES, county, XVIII, a 462-3; town, a b 463
- Peebles's, D. Bruce, governor (Gas-Lighting), X, a b 87, a 88
- PEEKSKILL, village, XVIII, b 463
- Peel, marsh (Limburg), XIV, b 652
- ——, town (Man), XV, *a* 457, *a* 458, *a b* 459, *a b* 460
- ——, Arthur, speaker, XVIII, a 465
- ——, Robert, cotton-spinner, XVIII, b 463
- ——, Sir Robert, first baronet, XVIII, b 463, a 464, a 465, a 466
- PEEL, Sir Robert, premier, XVIII, b 463-8
    - Catholic emancipation, b 465-6
    - conservative leader, b 467
    - economical policy, a b 465, b 466-7
    - estimate of, a 468
    - family life and education, b 463, a 465, a 466
    - Liverpool and Canning ministries, a b 465
    - premier, b 466-7
    - reform bill, Grey's, a 466
    - Tory career, early official, a b 464
- —— (Bentinck), III, b 498; (Bury), IV, a 511; (Cabinet), b 550, *a* 551; (Cobbett), VI, b 78; (Cobden), b 79, a 80; (Commerce), b 183; (Corn Laws), b 365; (Dalhousie), *b* 684; (Derby, Earl), VII, *a* 97; (England), VIII, a b 327-8; (Finance), IX, b 163, a 165-6; (Free Trade), *b* 664; (Government), XI, a 16; (Heywood), a 702; (Milman, H. H.), XVI, b 335; (Ministry), b 495; (O'Connell), XVII, a b 742; (Police), XIX, a b 351; (Political Economy), b 390; (Wellington), XXIV, b 526, *a* 527; (William IV.), a 613; his Bank-Acts, 1814-5 (Banking), III, b 278-83; Resumption Act, 1819 (Banking), b 276; Scotch Bank-Act, a b 289
- ——, William, sailor, XVIII, a 465
- PEELE, George, poet, XVIII, b 468; (Drama), VII, a 371; (Shakespeare), XXI, a b 794, *a b* 798
- "Peelers" (Police), XIX, b 351
- Peene river (Demmin), VII, b 52
- Peep o' Day Boys (Ireland), XIII, b 275
- PEERAGE, XVIII, a 468-79
    - alienation of, b 467
    - assembly, effect of membership of an, b 471
    - barons, b 472-3, a b 475
    - classes of peers, a 475
    - creation of peers, b 475
    - degradation from, b 477
    - Edward I., reign of, b 473-4
    - equality of commoners, a 472
    - France, twelve peers of, b 478-9
    - hereditary doctrine, a 470
    - house of lords, a 470, b 472, a 476
    - Irish peers, b 469, a 477
    - judges, b 470, b 477
    - life peerages, a b 477
    - name of peer, b 469-70, a 474
    - nobility in Britain, a 469, a b 470, a 471
    - peerage by tenure, a 474-5
    - rights of peers secured, a 474
    - Scotch peers, b 469, b 476
    - special character of British, a 468-9
    - spiritual lords, b 469, a 470, b 475-6, a 477
    - summons, b 472-3
    - titles and names, a 478
    - women and children, b 477-8
- —— (England), VIII, a 269, b 282, b 289-90; (Genealogy), X, *a* 130, note; (Nobility), XVII, a b 538, a b 543; (Parliament), XVIII, b 312; (State), XXII, b 136; (Test Acts), XXIII, b 216; (Treason), a 561, a b 562; French (Saint-Simon), XXI, b 208-9; Irish (Parliament), XVIII, a 314; Scotch succession (Women), XXIV, a 676 note
- —— bill (England), VIII, b 317
- Peeresses (Peerage), XVIII, b 477-8; privileges of (Women), XXIV, a 674 note, a 676, note
- Peers (Precedence), XIX, *a* 681, a 683, note, a 685; Bankrupt, III, a 296; House of (Portugal), XIX, a 554, a 569; trial of (Parliament), XVIII, a 319
- Peetweet, bird (Sandpiper), XXI, a 273
- Peewit, bird (Gull), XI, a 243; (Lapwing), XIV, b 308, note
- Peganite (Mineralogy), XVI, b 422
- Pegasian senatus consultum (Roman Law), XX, a 726
- Pegasidæ, family (Ichthyology), XII, a 716, b 728
- *Pegasides Pleyn* (Holland), XII, a 95
- PEGASUS, horse myth, XVIII, a 479; (Bellerophon), III, *a* 471; (Gorgon), X, *a* 698
- Pegels, water gauges (Hamburg), XI, b 361, note
- Peggy Whitethroat, bird, XXIV, a 584
- Pegmatite, mineral (Granite), XI, a 44; (Limoges), XIV, a 658; (Mineralogy), XVI, b 383
- Pegnitzschäfer, order of (Germany), X, b 474, a 475
- Pegolotti, Francesco Balducci, agent (China), V, b 546
- Pégon, language (Java), XIII, a 619
- PEGU, district and town, XVIII, a 479; (Burmah), IV, a b 492, a 497, *b* 498, *b* 499; dynasty (Burmah), b 496-7; river (Burmah, British), *a* 500
- Peguans, people (Alompra), I, b 525
- Pegu cutch, gum (Catechu), V, *a* 192
- Pegu-Yoma mountains (Burmah, British), IV, *b* 499; (Prome), XIX, a b 829; (Tharrawaddy), XXIII, a 240; (Toung-Ngú), b 517
- Pegwell bay (Ramsgate), XX, *a* 280
- Peh-lang tribes (Tibet), XXIII, a 365
- Pehlevi literature. See PAHLAVI
- Peignot, Étienne Gabriel, Bibliographer, III, a 570, a 572, a *b* 573
- Peihai, city (Pakhoi), XVIII, a 146
- Peiho river (China), V, a b 549, b 550; (T'ung-Chow), XXIII, a 645
- Peine forte et dure (Torture), XXIII, b 494, b 495
- Peiper, Rudolfus, editor (Boetius), III, *a b* 745
- Peipus, lake (Livonia), XIV, *a* 730; (Pskoff), XX, *a b* 40; (Russia), XXI, b 79, a *b* 80
- PEIRCE, Benjamin, mathematician, XVIII, b 479; (Quaternions), XX, a 171; (Surveys), XXII, b 939, b 940
- Peirene, fountain (Corinth), VI, *a* 354; river (Greece), XI, a 74
- Peiresc, Nicolas Claude Fabri de, antiquary (Gassendi), X, b 95, *a* 96
- Pek, weight (Weights and Measures), XXIV, b 513, *a* 514, a 515
- Pekah, king, Israel (Hosea), XII, a b 309; (Israel), XIII, b 421, *a* 422
- Pekahiah, king (Israel), XIII, b 421
- Pekalongan, town (Java), XIII, a 617
- Pekan, mammal (Marten), XV, b 583, b 584
- Pekea butter (Oils), XVII, b 765; Nut, *b* 683
- PEKING, city (Plan), XVIII, b 479-81; (Cambaluc), IV, a *b* 639; (China), V, *a* b 550, b 551, b 562, *a* 564, a b 565, b 566; (Kublai Khan), XIV, *b* 151-2; (Meteorology), XVI, a 186; *Gazette* (Newspapers), XVII, a 444; Observatory, a 737; Temple of Heaven at (Architecture) (Ill.), II, b 392, a 393
- Pekoe Tea, XXIII, *a* b 106, a 107
- Pe La, insect (Wax), XXIV, b 485-6
- Pelade, disease (Pathology), XVIII, b 417
- PELAGIA, saints, XVIII, b 481
- Pelagia, genus (Hydrozoa) (Ill.), XII, a 585, *a* 586, b 588
- *Pelagiana Historia* (Vossius), XXIV, b 320
- Pelagianism, theological system, XVIII, a 483; (Heresy), XI, b 656, a 657, a 659; (Ireland), XIII, a b 253; (Jansenism), a b 576; (St. David), VI, b 740; (Predestination), XIX, a 689; (Theodore), XXIII, b 274. See PELAGIUS
- Pelagic deposits (Pacific Ocean) (Ill.), XVIII, b 125-32; fishes (Ichthyology), XII, b 715, b 720-1; Sharks (Ill.), XXI, b 812-5
- PELAGIUS, theologian, XVIII, b 481-4
    - biography, b 481
    - pelagianism, a 483
    - semipelagianism, a 483-5
- —— (Augustine), III, a 68; (Jerome), XIII, a 642; (Orosius), XVIII, a 54. See Pelagianism
- PELAGIUS I., pope, XVIII, a b 484; (Popedom), XIX, b 507, b 523
- PELAGIUS II., pope, XVIII, b 484
- Pelagonia, plain of (Macedonia), XV, b 137
- Pelagonius, physician (Veterinary Science), XXIV, a 214
- Pelamis, genus (Snakes) (Ill.), XXII, b 208
- Pelamys, fish (Black Sea), III, a 694; (Constantinople), VI, b 269
- Pelargi, birds (Stork), XXII, b 606
- Pelargomorphæ (Birds), III, b 617-8
- Pelargonic acid (Œnanthic Acid), XVII, a 752
- Pelargonium, plant (Botany), IV, b 84, b 111, a 117, a b 119; (Geranium), X, *a* 395; (Horticulture), XII, b 272-3; (Insectivorous Plants), XIII, a 144; pruning of (Horticulture) (Ill.), XII, a 250
- Pelasgi or Pelasgians, race (Archæology), II, b 302; (Architecture), a b 352; (Dorians), VII, *b* 317, *a* 318; (Egypt), a 641; (Etruria), VIII, b 556-7; (Greece), XI, b 81-2, *b* 86; (Italy), XIII, a 453, a 454

Pelasgic religion (Hephæstus), XI, a b 605; (Religious), XX, 372, a b 373
Pelasgicum, fortress (Athens), III, b 4
Pelasgiotis, district (Thessaly), XXIII, a 320
Pelato, Monte (Lipari Islands), XIV, b 688
Pelayo, warrior (Spain), XXII, b 325
——, Marcelino Menéndez, author (Spain), XXII, *b* 376
Pelecanidæ, family (Birds), III, b 617, *a* 618, a 634, b 652
Pelée, mont (Martinique), XV, b 592
Pele's hair (Geology), X, a 220; (Hawaiian Islands), XI, a 475, note
Peletier, Jacques, author (Marguerite de Valois), XV, b 545
Peleus, hero (Achilles), I, b 89; (Antigone), II, b 112
Peleus and Thetis (Catullus), V, a b 217, a 218
PELEW, Pellew, Palao or Palau, islands, XVIII, b 484–5; (Pacific Ocean), b 132; (Caroline Islands), V, a 111; (Micronesia), XVI, a 268
Pelham, family (Chatham), V, b 381, *a* b 382; (England), VIII, b 318
PELHAM, Sir Henry, premier), XVIII, a 485; (England), VIII, b 318–9
——, Thomas. See NEWCASTLE, duke of
Pelham, novel (Lytton), XV, a 123
PELIAS, PELIADES, myths, XVIII, a b 485
PELICAN, bird, XVIII, b 485–6; (Heraldry) (Ill.), XI, b 625; (Smell), XXII, a 176
—— company (Insurance), XIII, a 187
Pelican Island, poem (Montgomery, J.), XVI, a 817
Pelican State (Zoology), XXIV, a 924
Peligni, tribe (Italy), XIII, a 454, b 456; (Ovid), XVIII, b 81–2; (Rome), XX, a b 761, b 763, *a* 778
Péligot, Eugene Melchior, chemist (Uranium), XXIV, b 11, *a* 12; his alloy (Gold), X, a b 668
Pelinæus or Pellenæus, mountains (Scio), XXI, b 487
Peliom, mineral (Mineralogy), XVI, a 436
Pelion, mountain (Greece), XI, a 74, a 75; (Thessaly), XXIII, b 319
PELISSIER, Jean Jacques Amable, marshal XVIII, a 486; (Algeria), I, a b 501
PELL, John, mathematician, XVIII, b 486
Pella, city (Macedonia), XV, b 138; (Macedonian Empire), b 139
PELLAGRA, disease, XVIII, b 486–8; (Persia), b 634; (Italy), XIII, b 465. See Poverty, Diseases of
Pellatt, Apsley, manufacturer (Glass), X, *b* 595
Pellegrina, La, gem (Pearl), XVIII, b 457
Pellegrino, mountain (Palermo), XVIII, b 172, a 173, b 174
Pellew islands. See PELEW
Pellia, moss (Muscineæ) (Ill.), XVII, a b 73, a 76
Pellian equation (Numbers), XVII, a 639
PELLICANUS, Conrad, Hebraist, XVIII, a 488–9; (Hebrew Language and Literature), XI, b 536, note
Pellicer, José de Ossau, historian (Góngora y Argote), X, *b* 686
PELLICO, Silvio, patriot and dramatist, XVIII, a b 489; (Brunn), IV, a 359; (Drama), VII, a 361; (Italy), XIII, b 496
Pellicularia kolerota, fungus (Coffee), VI, b 102
Pelligrini, London satirist (Caricature), V, b 93
Pellisson, Paul, author (Molière), XVI, b 650
Pellitory, plant (Botany) (Ill.), IV, a 123, *a* 126
Pelloutier, Simon, historian (Druidism), VII, a 413
Pelobates, genus (Amphibia), I, b 668, b 673, a 674, note, a b 675, a 677
Pelomedusidæ, family of Chelonians (Tortoise), XXIII, a b 486
Pelomyxa, genus (Protozoa), XIX, a 860, b 865
Pelopidæ, family (Greece), XI, *a* 83
PELOPIDAS, general, XVIII, b 489–90; (Greece), XI, a 93
Peloponnesian war (Brasides), IV, a 195; (Eurymedon), VIII, a b 632; (Greece), XI, b 91–2; (Money), XVI, b 752; (Pericles), XVIII, b 543, a b 544; (Persia), b 586; (Sicily), XXII, b 22; (Sparta), b 384; *History of* (Thucydides), XXIII, b 343, a 344, a 346–8
——, 17th century (Venice), XXIV, a b 159
Peloponnesus (Greece), XI, b 83, a 84–5, b 86, a 90, b 91–2, a 93; passes into (Attica), III, b 52
PELOPS, myth, XVIII, b 490–1
Peloritan mountains (Sicily), XXII, a 35
Pelorization, floral (Botany), IV, *a* 117
PELOUZE, Théophile Jules, chemist, XVIII, a b 491; and Cahours' analyses (Petroleum), a 894
Pels, Andries, dramatist (Holland), XII, a 99
Peltastai or peltasts, troops (Army), II, a b 491, note, a 492; (Iphicrates), XIII, b 217
Peltew, river (Lemberg), XIV, b 435
Peltidea (Lichens), XIV, b 559, b 563, a b 565
PELTIER, Jean Charles Athanase, physicist, XVIII, b 491; (Electricity) (Ill.), VIII, a b 11, b 53–4, b 84; (Electrometer), a 112; his cross (Electricity) (Ill.), a 54; his laws (Electricity), a 54, a b 90, b 91
Peltigera (Lichens) (Ill.), XIV, *a* 559, b 563, a 565
Peltogaster, genus (Crustacea) (Ill.), VI, b 572, b 588
Peltry. See FUR
PELUSIUM, city, XVIII, b 491; (Persia), b 579; (Egypt), VII, a 649, a 667
Pelvic appendages (Skeleton), XXII, b 124, *a b* 125, a *b* 126, a 127; arteries (Anatomy), I, a b 793, b 794; girdle (Anatomy) (Ill.), a 726, b 729, a 730; (Mammalia), XV, b 362–3; (Plesiosaurians) (Ill.), XIX, a 233; (Reptiles), XX, a b 467, b 469–70; plexuses (Anatomy), I, b 776
Pelvis (Amphibia), I, b 668, a 668*; (Anatomy), a 727; (Birds), III, b 626; (Digestive Organs), VII, b 194; (Mammalia), XV, a 363
Pelvoux, mountain (Alpes), I, a 527
Pelzeln, August von, naturalist (Indian Archipelago), XII, b 856
Pemba, island (Zanzibar), XXIV, *a* b 806
PEMBERTON, town, XVIII, b 491; colliery (Coal), VI, a 72
——, John Clifford, Confederate general, *b.* 1817, *d.* 1881 (United States), XXIII, b 826
Pemphigoid bullæ, disease (Vaccination), XXIV, b 30, b 31, a 32
Pemphigus, eruption (Skin Diseases), XXII, a 131
PEMBROKE, county, XVIII, a 492–3; Cattle, V, *b* 213; (Agriculture), I, b 345; coal field (Coal), VI, a 48
——, borough, XVIII, b 493; (Dockyard), VII, b 269, a 274, 275
—— college, Cambridge, IV, a 647; (Globe), X, b 609
—— college, Oxford, XVIII, a 101
——, John de Hastings, earl, arms of (Heraldry) (Ill.), XI, b 611–2, b 628
——, William Marshal, earl of (Henry III., England), XI, *a* 587; (Ireland), XIII, b 265
Pempelfort, village (Dusseldorf), VII, a b 488
PEN, implement, XVIII, b 493–5; (Feathers), IX, b 53, a 54; manufacture (Birmingham), III, a 681; and early writing implements, (Palæography), XVIII, b 149
—— and brush method of Lithography, XIV, a 702, b 704
Peña de la Bodera, mountain (Guadalajara), XI, b 202
Penæus (Crustacea), VI, a 570, b 573
Pena-jong, town (Tibet), XXIII, b 361
Peñalara, Pico de, mountain (Spain), XXII, a 308
Penal code, French, VI, a b 96; Indian (Macaulay), XV, b 128–9; Livingston (Code), V, b 96; Persian, XVIII, a 641
—— colonies, British (Prison Discipline), XIX, a 768, b 769–71; (Andaman Islands), II, a 14, note; (Australia), III, *a* 99; (Botany Bay), IV, a 149; (Cape Colony), V, b 41; (Queensland), XX, b 181, a 182; French (Prison Discipline), XIX, b 778, a b 779; Italian (Prison Discipline), b 780; Peruvian (Galapagos Islands), X, b 17; Russian (Saghalin), XXI, b 155
—— diet (Dietetics), VII, b 183
—— laws (Grattan), XI, a b 55; (Ireland), XIII, a b 275; (Statute), XXII, b 486; (Templars), XXIII, b 179, b 180; suspension of (Presbyterianism), XIX, a b 710
—— servitude (Criminal Law), VI, b 521; (Prison Discipline), XIX, a 772, b 773, b 774, a 775
—— system, regal period (Roman Law), XX, b 692–3, a b 695; XII, Tables (Roman Law), XX, a 698, *b* 702, a 703
Peñalosa, governor, New Mexico (La Salle), XIV, *a* 319
Penalties (Heresy), XI, a 658; (Summary Jurisdiction), XXII, b 675, *a* 676; (Theft), XXIII, b 250, a b 251, a 252; American for Treason, a b 563; British for Treason, b 561, a b 562; of British courts-martial (Army), II, a 514; remission of (Pardon), XVIII, b 276–7; Roman for Treason, XXIII, b 559. See Punishment
PENANCE, sacrament, XVIII, a 495–9
  bibliography, a 499
  Christian theory of, b 495
  church before the schism of East and West, a 496–7
  heathen and Jewish, a b 495
  Latin and Greek usage compared, b 497–8
  Protestant communions, b 498–9
  public penance abrogated, a b 497

—— (Indulgence), XII, b 887, a 888
Penang, island and town (Prince of Wales Island), XIX, b 760–1; (Straits Settlements), XXII, a *b* 615; (Pepper), XVIII, b 526, a b 527
—— rubber (India-Rubber), XII, *b* 880
Pena-Nyang-chu, river (Tibet), XXIII, b 361
PENARTH, town, XVIII, a 499
Peñas, district (Wine), XXIV, b 639
——, gulf of (Patagonia), XVIII, a 357
Peñasca Blanca, pueblo (Pueblo Indians), XX, *a* 888
PENATES, household gods, XVIII, a 499–500; (Fire), IX, *b* 200. See LARES
Peña Trevinca, mountain (Gallicia), X, b 24

Pénaud's screw model (Flight) (Ill.), IX, b 280, *a* *b* 281, *a* 282
Penaur, river (Cuddapah), VI, a 609
Pen-Caer-Gybi, hill (Holyhead), XII, b 108
Pencels, flags (Flag), IX, a 243; (Knighthood), XIV, *b* 118, a 119
Pencerdd, musician (Celtic Literature), V, a b 276
PENCIL, implement, XVIII, a 500-1; artists (Brushes), IV, *b* 362
—— involution (Geometry), X, a b 361
—— of lines, defined (Geometry), X, *b* 347; of conics (Geometry), a b 363; of rays (Optics), XVII, a 822, a 823, a 827
Pencillings by the Way (Willis), XXIV, b 619, b 900
Pencils, harmonic (Geometry), X, *b* 350; projective and reciprocal (Geometry), a 364
Penclawdd, town (Cockle), VI, a 92
Penda, king, Mercia (Edwin), VII, a 600; (England), VIII, b 251; (Northumberland), XVII, a b 583
Pend d'Oreilles, lake (United States), XXIII, b 847
Pendenis or Pendunes, town (St. Ives), XXI, b 180
Pendennis, novel (Thackeray), XXIII, a 234
Pendent in Architecture, II, b 412
Pendentive in Architecture (Ill.), II, a 392, b 412
Pendjakent, town (Zerafshan), XXIV, a b 820
Pendlebury, town (Swinton), XXII, b 813
Pendleton Civil Service Reform Act, 1883 (United States), XXIII, *b* 833, b 836
Pendragon, Uthyr, myth (Arthur), II, b 570; (Romance), XX, a 661
Pendulum (Clocks), VI, a 14-7, b 30; (Galileo), X, a 29, a 32; (Gyroscope), XI, a 314, b 315; (Earth), VII, b 516, a 517, a 522, a 526; (Energy), VIII, a 188; (Hooke), XII, b 153; (Mechanics), XV, b 685, a 687, b 706, b 712-4, a b 719, a 722, a b 725-6, b 734-5, b 741-2, a 743, a b 746, b 778-9; ballistic (Gunnery), XI, a b 264; (Robins), XX, b 622; clock Huygens), XII, b 431, a 432; complex (Mechanics), XV, b 725-6; compound (Mechanics), b 741-2; conical (Mechanics), a 719; duplex (Seismometer) (Ill.), XXI, a b 658-9; gridiron (Harrison, John), XI, a 442; horizontal (Seismometer) (Ill.), XXI, b 659-60
—— length of second (Gravitation), XI, a 61; (Kater), XIV, b 16; with extensible cord (Mechanism), XV, a 735
—— Anemometer, II, a 24
—— deflection (Tides), XXIII, a b 380; expansion (Watch), XXIV, b 416, a 417; experiments on density of the earth (Astronomy), II, b 693-4; observations (Sabine), XXI, b 136; vibrations (Acoustics), I, a b 94
Peneius, river. See Peneus
PENELOPE, heroine, XVIII, a b 501; (Hermes), XI, a 670; (Homer), XII, *b* 122; (Odysseus), XVII, b 749; (Pan), XVIII, b 211
Penelopinæ, birds (Guan), XI, *a* 206
Penenden heath (Maidstone), XV, b 296
Peneroplidina, group (Protozoa) (Ill.), XIX, a b 869
Peneroplis, genus (Foraminifera) (Ill.), IX, a 325, a 328, a 330
Penestæ, serfs (Slavery), XXII, b 139
Penetration (Fortification), IX, a 377
Peneus or Peneius, river (Elis), VIII, b 130; (Olympus), XVII, b 792; (Thessaly), XXIII, b 319
Pengaron coal-field, VI, a 56
PENGUIN (Ill.), XVIII, b 501-2; (Birds), III, a 622, b 625, a 626, b 627, a 631, b 637, a 643, b 646, a 647, b 648; (Ornithology), XVIII, a 46, a 49; (Pacific Ocean), b 121; (Flight) (Ill.), IX, a b 270
—— Duck, VII, b 437
Pénicaud, Nardon, painter (Enamel), VIII, b 168
Penicillium, cell-division (Histology), XII, *b* 15; (Fungus), IX, b 732
Penicuik, town (Edinburgh, County), VII, b 569, a 570, *a* b 571
Penikese, island (Agassiz), I, b 247
Peninsula of the Machers (Wigtown), XXIV, a 593; of the Rinns (Wigtown), a 594
Peninsular campaign, Virginia, 1862 (McClellan), XXIII, a 839; (United States), b 825-6
Peninsular Campaign (Hamilton, T.), XI, b 371
Peninsular war, Spain, 1808-14 (Ambulance), I, a 585; (Anglesey), II, a b 29; (Canning), IV, b 714; (England), VIII, b 325-6; (Fortification), IX, b 380-1, b 401; (France), b 542-3; (Frere, J. H.), a 675; (Gough), XI, a 4; (Hill, Viscount), b 731; Londonderry), XIV, b 865, a 866; (Miranda), XVI, a 523; (Moore, Sir J.), a b 831; (Murat), XVII, b 55; (Napoleon I.), a b 220, b 221, a 222; (Portugal), XIX, a 566, a 567; (Wellington), XXIV, a 523-4; (War), b 366, *a* 370, b 376; English Artillery in, II, b 676; (Army), *b* 500-1; *History of* (Napier), XVII, a *b* 193, *a* 194
Penis (Mammalia), XV, b 370; (Reptiles) (Ill.), XX, b 476-7; (Reproduction), a 422; fanged (Planarians), XIX, b 184
Penitential, ecclesiastical code (Penance), XVIII, a 497, a b 498; (Indulgence), XII, a 888
Penitentiaries, prisons (Ghent), X, a 504; (Howard), XII, b 334, a 335; origin of (Prison Discipline), XIX, *b* 767, a 768; in United States (Reformatories), XX, a 902. See Jails, Prisons
Penitentiary, church official (Penance), XVIII, a 497
Penitents, grades of (Penance), XVIII, b 496
Penjdeh oasis (Transcaspian), XXIII, *a* 545
Penka, philologist (Slavs), XXII, a 154, *a* 155
Penn, Richard, proprietary (Franklin, B.), IX, b 627, *a* b 628; (United States), XXIII, a 790
——, Thomas, proprietary (Franklin, B.), IX, b 627, *a* b 628
——, Sir William, admiral (Penn), XVIII, b 502, a b 503, a 504, b 505
PENN, William, founder of Pennsylvania, XVIII, b 502-8
  difficulties in Pennsylvania, a b 507, a 508
  family and education, b 502-3, b 504, b 506
  loss of proprietary government, b 507-8
  missionary journeys, a 504, a 505, b 506, b 507
  New Jersey, proprietorship in, b 504-5
  Pennsylvania colony, b 505-6, a b 507-8
  preaching and persecution, a 503-4
  toleration, pleads for, b 505, b 506
—— (Pennsylvania), XVIII, b 514, a 515; (Philadelphia), a 752, b 753, b 754 note, a 755; (Quakers), XX, *b* 154-5, b 157, *b* 158-9, b 892, b 893; (Sidney, A.), XXII, *b* 39
——, William, Jr., XVIII, b 507, a 508
Penna, Francesco Orazio della, missionary (Lhasa), XIV, b 502; (Tibet), XXIII, *a* 368 note
Pennair or Pennár, river (Madras), XV, b 185; (Nellore), XVII, a 330
Pennalismus, hazing (Universities), XXIII, a 904
PENNANT, Thomas, naturalist, XVIII, b 508-9; (Capercally), V, b 48, *a* 49; (Ornithology), XVIII, a 11, a b 13; (Turkey), XXIII, a 700 note; (White, G.), XXIV, *b* 580
Pennatula, sea-pen (Phosphorescence), XVIII, b 826
Pennatulidæ (Actinozoa), I, b 120, *a* b 121, b 122; family (Corals) (Ill.), VI, b 341, a 343
PENNI, Gianfrancesco, painter, XVIII, a 509; (Pippi), XIX, *b* 121
Pennillion singing (Eisteddfodd), VII, a 687, note
Pennine (Mineralogy), XVI, b 431
—— Alps, I, b 546, a b 549
—— chain, ridge (Coal), VI, b 48-9; (Cumberland), b 615; (Geology), X, *a* 308, a 309; (Westmorland), XXIV, *a* 542; (York), *b* 783, a b 784
Pennock, Moses, inventor (Patents), XVIII, a b 877
Pennon (Flag) (Ill.), IX, b 242-3; (Knighthood), XIV, b 118
Penn's trunk engine (Steam-Engine), XXII, a 543
PENNSYLVANIA, State (Plate VI), XVIII, a 509-15
  administrative and industrial features, b 513 14
  anthracite region, a 511-2
  bituminous region, a b 512
  climate, a 510
  geology, b 510 *sq.*
  history, b 514-5
  iron, b 512-3
  physical features, a 509-10
  Railroad Company, a 514
  vegetation and animals, a b 513
—— (Coal), VI, b 56-7, b 72; (Divorce), VII, a 265; (Gallatin), X, a 36; (Maryland), XV, b 611; (Mennonites), XVI, a 16; (Murder), XVII, b 59; Newspaper), a b 445; (Petroleum), XVIII, a 888, a b 889; (Penn), b 505-6, a b 507, a 508; (Prison Discipline), XIX, a b 772, note; (Reformatories), XX, b 898, a 899, a 901, a b 903; (Slavery), XXII, *a* 908, a 909; (Smith, S.), a 523, note; (Universities), XXIII, a 913, a b 956-7, b 962; (Workingmen, United States), XXIV, *b* 917, a 918, *a* 919, a 920; colony (Quakers), XX, b 158-9, *b* 892; (United States), XXIII, a *b* 778, *a* 779, b 780; history (United States), a 796, note, a 800, a 801, a 803, a b 812, a 821, a 822, a 827, b 830, b 831; statistics (United States), b 853, a 855, b 857, *a* b 860, b 863, *a* b 864, a b 865, *a* b 866, a b 867, a 870, b 877, *a* *b* 878; system (Taxation), *a* 926; topography (United States), a *b* 843, a 844, *a* *b* 845
—— Hospital, XII, a 321
PENNSYLVANIA HYDROCARBON PRODUCTS, XVIII, a 885-905; (Petroleum), a 727
—— railroad, XVIII, a 514; (Altoona), I, b 565; (Railway), XX, b 253-4, *b* 265; (Scott, T. A.), XXI, a 913; (Steam-Engine), XXII, a 523, note
Penny, coin (Finance), IX, a 156; (Numismatics), XVII, b 672, a 673, a 674
——, Captain, explorer (Polar Regions), XIX, a 333
Penny Cyclopædia (Long), XIV, a 867
—— banks (Savings Banks), XXI, a 345
—— papers (American Journalism), XVII, a 884, a b 890; (Newspapers), b 445, a b 446
—— post, Dockwra's London (Post-Office), XIX, b 580; John Hill's, b 579-80; Williamson's Edinburgh, (Post-Office), a 582

Penny pot (Billiards), III, a 586
Pennyroyal, herb (Horticulture), XII, b 302; (Mint), XVI, a 515
Penny weeklies (Periodicals), XVIII, b 548
Penobscot river (Maine), XV, b 300
Penobscots, tribes (Indians), XII, b 867, a 871
Penonomé, town, (Panamá), XVIII, a 213
PENRITH, town, XVIII, a 515; (Westmorland), XXIV, *b* 544; sandstone, a 542, a 544
Penry or Ap Henry, John, theologian (Independents), XII, b 762
PENSACOLA, city, XVIII, a b 515
Pensées (Pascal), XVIII, a b 341, a b 342, a 343
Pensiere ed Azione (Mazzini), XV, b 662
Pensieri of Guiccardini (Italy), XIII, b 519
Pensionary, president (Holland), XII, a 76
Pensions (Banking), III, 286; (Burke), IV, a 491; (Newspapers), XVII, b 435; (Post-Office), XIX, a b 581; American (Sanitary Commission), XXI, b 902; estimated amount of (United States), XXIII, a 829; statistics (United States), b 883; British (Army), II, b 503, a 505; (Navy), XVII, a 305, a 307; French (Grotius), XI, a 195; moslem (Mohammedanism), XVI, a b 612; Roman (Vespasian), XXIV, a 208
Penstemon, plant (Horticulture), XII, b 259, b 266
Pentacrinus, genus (Echinodermata) (Ill.), VII, *b* 550, *a* b 551, a *b* 552, *a* b 555
Pentad, elements (Chemistry), V, b 409, a 410
Pentagon, construction of (Pythagoras), XX, a 148; describing (Geometry), X, a 340
Pentagram, figure (Magic) (Ill.), XV, a 204; symbolism of (Pythagoras), XX, b 146, note, a b 148 note
Pentagraph (Calico-Printing), IV, b 607
Pentail, mammal (Mammalia) (Ill.), XV, a 406
Pentamera, group of insects (Coleoptera), VI, a 117-20; (Insects), XIII, a 155
Pentameridæ, family (Brachiopoda), IV, a 177
Pentamerus beds (Geology), X, a 294, a 296, b 299, a 301
Pentan or Pentane (Paraffin), XVIII, a 243
Pentapolis, district See CYRENAICA
——, island. See LESBOS
Pentarchies (Carthage), V, a 142
Pentastoma, genus (Arachnida) (Ill.), II, *b* 239, a b 240, a 241
——, entozoon (Parasitism), XVIII, a b 263, b 264, a b 266; (Trematoda), XXIII, a 569
Pentasulphide (Chemistry), V, a 434
PENTATEUCH and JOSHUA, XVIII, b 515-25
    authorship of the Torah, b 523
    dates of parts, b 518
    Deuteronomy, b 518, b 523
    contrasts of narratives, b 522
    critical attacks on the tradition, a 516-7
    feasts, religious, b 521-2
    Grafian theory, b 519, a 524
    Hexateuch and its component parts, a b 517
    historical periods of the laws of worship, a b 520
    priesthood, b 520-1
    priestly code, composition of, b 524
    sacred dues, b 521
    separation of parts, b 517-8
    traditional authorship, b 515
—— (Abraham), I, b 54, note; (Israel), XIII, b 409, a 410, b 428; (Le Clerc), XIV, b 397; (Levites), a b 488; (Passover), XVIII, b 349; (Rashi), XX, b 297; (Samaritans), XXI, a b 256, a b 257, note, a 258; (Semitic Languages), b 680; (Sweden), XXII, b 791; (Tabernacle), XXIII, b 9; (Talmud), a 42; *Commentary on* (Ramban), XX, a 276; date of (Sabbath), XXI, a b 133, a 134; exposition of (Philo), XVIII, a 774-7; history of (Bible), III, a 550, a 554; laws of (Bible), a b 551; reading of (Targum), XXIII, a 68
——, Samaritan (Morin), XVI, a 851; (Semitic Languages), XXI, b 680
Pentathionic acid (Chemistry), V, a 440, a 441
Pentaur, poet (Hittites), XII, *b* 28, a 29
PENTECOST, feast, XVIII, a 525; (Festivals), IX, *a* 102; (Pentateuch), XVIII, a 522
Pentedaktylon, mountain (Laconia), XIV, a 194
Pentelicus, Mount (Attica), III, *b* 51, a b 52, b 53; (Greece), XI, a 75; its Marble, XV, b 535; (Rome), XX, a 826
Penthelidæ, family (Lesbos), XIV, b 475
Penthesilea, queen (Amazons), I, b 576
Pentheus, king, Thebes (Dionysus), VII, b 216
Pentland, geologist (Andes), II, a 17
—— firth (Caithness), IV, *b* 574, a 575; (Orkney), XVII, b 870; (Whirlpool), XXIV, *b* 571
—— Hills (Edinburgh), VII, *b* 569, *a* 570; (Scotland), XXI, a 548
Pentlandite (Mineralogy), XVI, a 409
Pentone (Chemistry), V, b 485
Pentonville, prison (Prison Discipline), XIX, a b 771, *a* 773
Pentoxides (Chemistry), V, b 413; (Vanadium), XXIV, *b* 60, *a* 61
Pentremites (Echinodermata) (Ill.), VII, *b* 553
Pentri, people (Samnites), XXI, a b 260, a b 261
Penumbra (Light) (Ill.), XIV, a b 585
PENZA, government, XVIII, a b 525; (Russia), XXI, a 76, a 87, a 88, b 92; town, XVIII, b 525
PENZANCE, town, XVIII, b 525-6
——, James Plaisted Wilde, baron (Will), XXIV, b 604
Penghina bay (Maritime Province), XV, b 554
Peonage (Mexico), XVI, b 227, a b 898, a 911
Peonine, dye (Carbolic Acid), V, b 76
Peony, flower. See PÆONY
People's banks (Italy), XIII, b 476-7
People's Case Stated (Vane), XXIV, a b 72
—— charter (Chartism), V, *b* 375
PEORIA, city, XVIII, a b 526
Peperino, stone (Building), IV, b 419; (Geology), X, a 214; (Rome), XX, b 825, a b 827
Pepi, king (Egypt), VII, a 636, note
Pepin, king and family. See PIPPIN
Pepi Pyramid, XX, *b* 129, a 130
——Shan mountains (Corea), VI, a 347
Pepites, ore (Gold), X, a 660
Peplos, robe (Costume) (Ill.), VI, a b 401; (Textiles), XXIII, b 225
Pepo or Peponida, gourd (Botany) (Ill.), IV, a 138
PEPPER, spice (Ill.), XVIII, b 526-8; (Adulteration), I, b 156; Cayenne, V, b 243-4; (Horticulture), XII, b 291-2; West African (Cubebs), VI, a 604
Pepper-brand, fungus (Agriculture), I, b 315
Pepperellborough, town (Saco), XXI, a 140
PEPPERMINT, herb (Ill.), XVIII, a 528-9; (Horticulture), XII, b 302; (Mint), XVI, a 515
PEPPER-TREE, XVIII, b 529-30
Pepperwort, plant (Botany) (Ill.), IV, a 146
Pepsin (Nutrition), XVII, *b* 690, a 691, *a* 693, a *b* 694, *a* b 695, b 696; (Chemistry), V, b 502; (Dyspepsia), VII, b 507
Peptic ferments (Fermentation), IX, a 85; (Physiology), XIX, b 57; glands (Digestive Organs), VII, a 195; (Mammalia), XV, a 365; (Nutrition), XVII, b 692, *a* 693
Peptones (Chemistry), V, b 502; (Gelatin), X, a 119; (Nutrition), XVII, a b 695, *b* 696, *a b* 697
Pepuza, city (Millennium), XVI, b 328; (Montanism), b 801, a 803
Pepys, Sir Lucas, physician (Jenner), XIII, b 635
PEPYS, Samuel, diarist, XVIII, a 530-2; (Admiral), I, b 143, b 144; (Costume), VI, b 420, a 421;
PEPYS, *continued* (Cryptography), b 593; (Dockyards), VII, a 271, *b* 274-5; (Dryden), *b* 422, b 423; (Libraries), XIV, b 519; (London), b 858, *b* 859; (Maitland), XV, a 311; (Navy), XVII, b 289, a *b* 290, a 291; (Newton), *b* 456-7; (Pianoforte), XIX, b 76; (Tea), XXIII, b 108; his *Diary* (Shorthand), XXI, a 876, note
Pequot Harbor (New London), XVII, b 409
—— Indians (Connecticut), VI, a 258; (Indians), XII, b 871
Pera, quarter (Constantinople), VI, a b 273-4
Pera deniya, town (Ceylon), V, b 312, *b* 319
Peræa, region (Gilead), X, b 531; (Palestine), XVIII, a 181
Perak, district (Malay Peninsula), XV, a *b* 323, a *b* 324, a 325; (Straits Settlements), XXII, b 615, a 616; river (Malay Peninsula), XV, a b 324, note
Peraldo, monte (Genoa), X, b 138
Peralto y Barnuevo, Pedro de, author (Peru), XVIII, b 688
Perambulations (Parish), XVIII, b 301
Perambulators, measuring (Surveying), XXII, b 754
Perameles, genus (Mammalia), XV, b 361; (Mammalia) (Ill.), a 384
Peramelidæ, family (Kangaroo), XIII, 850; (Mammalia), XV, a 382, b 383-4
Peranemina (Protoza) (Ill.), XIX, b 880, a 881
Pérá rabbá, myth (Mandæans), XV, b 475
Peratæ, sect (Canon), V, *a* 8; (Gnosticism), X, a b 626, a 627
Peratherium, fossil (Opossum), XVII, b 819
Peraud, Hugh de, master (Templars), XXIII, a b 181
Perceforest (Romance), XX, b 664, a b 665
Perception in psychology (Bailey), III, a 209; (Brown, Thos.), IV, *a* 349; (Collier), VI, b 129-30; (Hamilton, Sir W.), XI, *b* 372, *a b* 373, a 374; (Hume), XII, *a* 366, b 367, a b 368; (Leibnitz), XIV, a b 421, b 422; (Locke), b 765, a 768; (Neoplatonism), XVII, b 342; (Psychology), XX, b 56-62; (Schleiermacher), XXI, b 429; (Stoics), XXII, a b 594; atomic theory of (Democritus), VII, a b 53
Perception of Color (Maxwell, J. C.), XV, b 653
Perceptive faculties (Phrenology), XVIII, b 859-60
Perceval of Round Table (Romance), XX, *b* 660, a *b* 661, a b 662, *a* 663, a b 665
PERCEVAL, Armand Pierre Caussin de, orientalist, XVIII, a 532; (Mohammedanism), XVI, b 588

PERCEVAL, Spencer, premier, XVIII, a b 532; (Persia), a 641; (George III. and IV.), X, b 383, *b* 384; (Wellington), XXIV, a b 520; his ministry (Palmerston), XVIII, b 197
PERCH, fish (Ill.), XVIII, b 532–3; Ichthyology) (Ill.), XII, a 677–80, a 688, *a* 689, b 694, a 714, b 726, a 727; (Murray Cod), XVII, a b 68; fishing (Angling) (Ill.), II, a 33, b 40
Perche, district (Loir-et-Cher), XIV, b 818–9; (Orne), XVIII, a b 5
Perche, Col de la (Pyrenees), XX, a 131
Perched blocks (Geology), X, a 250
Perchlorate of Potassium, XIX, b 608–9
Perchloric acid (Chemistry), V, a b 429, a 431
Perchloride of Iron, XIII, *a b* 370
Perchromic acid (Chromium), V, b 612
Percichthys, genus (Ichthyology), XII, a 715
Percidæ, family (Ichthyology), XII, a 691, a 716, b 726–7; (Perch), XVIII, b 532
Percival, romance (Grail), XI, a 33. See *Parzival*
PERCIVAL, James Gates, poet, XVIII, a 533; (Sheppard), XXII, a 903
Percolation, rain (Water-Supply), XXIV, b 424–5
Percopsidæ, family (Ichthyology), XII, a 732
Percussion in medicine (Auscultation), III, b 87; (Heart), XI, *a* b 493; (Medicine), XV, b 824, a 825
——, centre of (Mechanics), XV, b 743, b 780–1
—— caps (Patents), XVIII, a 880; fuses (Ammunition) (Ill.), I, b 653
PERCY, family, XVIII, a 533–4
——, Henry de, earl of Carrick, XVIII, a b 533
——, Henry, Hotspur (Glendower), X, *a* 605; (Scotland), XXI, b 512, b 513
——, John, metallurgist (Iron), XIII, b 349
——, Josceline, of Lourain, XVIII, a 533
——, Baron (Ambulance), I, b 584
——, Richard de, baron, XVIII, a 533
PERCY, Thomas, bishop, XVIII, b 534–5; (Alliteration), I, a 516; (Ballads), III, b 244; (Minstrel), XVI, a b 502
——, Thomas, conspirator (Fawkes), IX, b 51
——, tomb of Lady Eleanor de (Sculpture), XXI, a 586
—— William de, restorer of Whitby Abbey, XVIII, a 533
Percy Anecdotes, II, a 23
Percylite (Mineralogy), XVI, b 400
Perczel, Moricz, general (Hungary), XII, *b* 386, b 387, a 388
PERDICCAS I.-III., kings, Macedonia, XVIII, a 535
PERDICCAS, regent, XVIII, a 535; (Persia), b 596, a 597; (Alexander the Great), I, a 428, a 429; (Antigonus I.), II, b 112; (Eumenes), VIII, *a* 585
Perdido, mountain (Aragon), II, a 267
——, river (Florida), IX, *a* b 296
Perdita, courtesan (Tarleton), XXIII, a 923
Perdix, bird (Partridge), XVIII, b 337–8
Perdu, mont (France), IX, b 445; (Huesca), XII, a 348; (Pyrenees), XX, a b 131
Perduellio, offence (Treason), XXIII, a 559
Perecop. See Perekop
Père Duchesne, Le (Hébert), XI, b 530–1
Peredur of Round Table (Romance), XX, b 662 note, a 664, a 665
Peredyel, allotment (Russia), XXI, *a* 92
Peregrin, commercial rights of (Roman Law), XX, a 718, a 719; in jus civile (Roman Law), b 704, note, a 705, a 713; in jus naturale (Roman Law), b 722, b 724, b 725, b 727; prætor (Roman Law), b 713–4, a 716, b 723
Peregrine Pickle, novel (Akenside), I, b 386; (Smollett), XXII, a 194
Peregrino en su Patria (Vega Carpio), XXIV, a 134
Peregrinus Proteus (Prophet), XIX, b 844, note
Pereira, Diego, sea captain (Xavier), XXIV, *b* 753, a 754
——, Duarte Coelho, governor (Brazil), IV, b 205
—— or Pereyre, Jacob Rodriguez, deaf-mute instructor (Epée, Abbé de l'), VIII, a 406; (Jews), XIII, a 693; (Seguin), XXI, a 916
——, Jonathan, physician (Tobacco), XXIII, a 455
——, Nuno Alvares, constable (Portugal), XIX, *a* b 559
Perejil, peak (Canary Islands), IV, a 705
PEREKOP, town, XVIII, a 535; gulf (Black Sea), III, a 691; isthmus (Crimea), VI, b 517
Père la Chaise (Cemetery), V, b 287; (Paris), XVIII, b 289
Perelle, dye (Lichens), XIV, a 563
Perennial herbs (Botany), IV, a 85
Perennibranchiates (Smell), XXII, a 176
Pereskia, plant (Cactus), IV, a b 555, b 556; (Horticulture), XII, a 275
Perevolotchna, village (Kobelyaki), XIV, b 135
PEREYASLAFF, town, XVIII, a 535; (Poltava), XIX, a 424
——-Ryazansky, fort (Ryazañ), XXI, a 125
PEREYASLAVL or Pereslavl, town, XVIII, b 535; lake (Vladimir), XXIV, b 290, a 291
Pereyre, J. R. See Pereira
Perez, Albino, governor (New Mexico), XVII, a 412
PEREZ, Antonio, statesman, XVIII, b 535–6; (Spain), XXII, b 343, b 373
——, Gonzalo, translator, XVIII, b 535
——, Juan, priest (Columbus), VI, b 154
—— de Guzman, Fernan, chronicler (Spain), XXII, b 368
Perfectibilists, society (Illuminati), XII, a b 745
Perfecting presses (Typography) (Ill.), XXIII, a 753–4
Perfection (Hooker), XII, a 156
Perfectionism (Guyon), XI, b 305–7
Perfectionists. See ONEIDA COMMUNITY
Perforata, group (Actinozoa), I, *a* 121; (Corals), VI, *a b* 333, *a* 337; (Protozoa) (Ill.), XIX, a b 870
Perforation of paper (Stationery), XXII, a 478
Perfume (Incense), XII, b 756
Perfumed Soap, XXII, b 215
PERFUMERY, XVIII, a 536–8; (Ambergris), I, a 581; (Civet), V, b 695, *a* 696; (Eau de Cologne), VII, a 533; (Eucalyptus), VIII, b 570; (France), IX, b 460; (Grasse), XI, a 48; (Gumbo), a 245; (Jasmine), XIII, a 605, a 606; (Lichens), XIV, a 563; (Musk), XVII, b 114; (Salicylic Acid), XXI, a 228; (Valerian), XXIV, a 47
Perga, insect (Hymenoptera), XII, b 606, a 610
——, town (Numismatics), XVII, a 665; (Pamphylia), XVIII, a 211
PERGAMUM, Pergamon or Pergamus, city, XVIII, a b 538; (Libraries), XIV, a b 510; (Macedonian Empire), XV, a 144; (Mysia), XVII, *a* 130; (Numismatics), b 662–3; (Rome), XX, *b* 771, *a* 772, *a* 773; kingdom of (Asia Minor), II, b 622; school of (Archæology), II, a b 319, a 320, a 321
——, citadel (Troad), XXIII, a 616, b 617, a 618
PERGOLESI or Pergolese, Giovanni Battista, composer, XVIII, b 538–9; (Paisiello), b 144; (Music), XVII, a 100
Peri, Jacopo, composer (Purcell), XX, *b* 119; (Wagner), XXIV, a *b* 335
Periander, tyrant of Ambracia, XVIII, b 539
PERIANDER, tyrant of Corinth, XVIII, a b 539; (Corinth), VI, a 353; (Greece), XI, b 85
Perianth (Botany), IV, b 113–4; (Grasses) (Ill.), XI, b 49, a b 50, a 51; (Muscineæ), XVII, b 75
Periblem, layer (Botany), IV, a 82; (Histology), XII, a *b* 17
Pericambium, tissue (Histology), XII, a 21
Pericarditis, disease (Rheumatism), XX, b 531
Pericardium (Anatomy), I, b 744, a 790, a 792, a 793; (Mollusca) (Ill.), XVI, b 658, a b 703, b 710, a 719; of spiders (Arachnida), II, b 257, note
Pericarp of seeds (Botany), IV, b 134, *a* 135, b 137, a b 140; (Grasses), XI, *a* 51
Perichænaceæ, order (Protozoa), XIX, a 863
Perichæta (Worm) (Ill.), XXIV, a b 712 note, a 713, *b* 714, a b 715, a 716, *a b* 717, a b 718
Perichondrium (Anatomy), I, b 748
Periclase, mineral (Mineralogy), XVI, a 401
PERICLES, statesman, XVIII, b 539–44
  accusations of, a b 543, b 544
  Areopagus attacked, b 541
  art under, b 540, b 542
  Athenian policy of, b 540, b 542
  biographical notices of, b 544
  birth and political position, b 539–40
  colonial policy of, b 542–3
  oratory, a b 541, a 544
  Peloponnesian war, b 543–4
  public moneys granted the poor, a b 540
  sacred war and its consequences, a b 542
  Samian war, a 543
—— (Anaxagoras), II, *a* 3; (Areopagus), a 426; (Aspasia), b 624; (Athens), III, *a* b 6; (Demosthenes), VII, b 60; (Greece), XI, *a* b 91; (Panathenæa), XVIII, a 214; (Phidias), b 747, a 748; (Poetry), XIX, a 277; (Thucydides), XXIII, b 343, b 344, b 346
Pericles and Sigismunda (Cervantes), V, a 309
Pericline (Mineralogy) (Ill.), XVI, a 381, b 437
Periderm, bark (Botany), IV, a 79, a 91; (Histology), XII, a 20
Peridina (Protozoa) (Ill.), XIX, b 884, b 885, b 886
Peridiodei (Lichens), XIV, b 565
Peridium, organ (Lichens), XIV, b 557
PERIDOTE, mineral, XVIII, b 544–5; (Mineralogy), XVI, b 427
Periechocrinus (Echinodermata), VII, a 551, *b* 552
Periegetæ, critics (Archæology), II, a 301
Périer, Casimir, statesman (France), IX, b 546; (Guizot), XI, *a* 239
——, Madame Gilberte, biographer (Pascal), XVIII, a b 339, a b 340, a b 341
Perigee (Meteorology), XVI, a 186; (Moon), b 825; moon's acceleration in (Tides), XXIII, b 403–4
Perigonium, organ (Muscineæ) (Ill.), XVII, b 78
PÉRIGORD, province, XVIII, a 545; Caves of, V, a 231, b 232
—— pie (Truffle), XXIII, *b* 628

PÉRIGUEUX, city, XVIII, a 545-6
Perigynium of carex (Grasses), XI, b 49
Perihelion (Astronomy), II, b 695-6; (Mechanics), XV, b 716
Perilymph (Anatomy), I, b 784, a 785, a 786; (Ear), VII, a 512
Perim, island (Arabia), II, a 205; (Bab-el-Mandeb), III, *b* 155; (Red Sea), XX, b 328
Perimysium (Anatomy), I, a b 752
Perineurium (Anatomy), I, b 754
Pering, inventor (Anchor), II, a 6
Peringskjöld, Johan, editor (Sweden), XXII, b 793
PERINTHUS, town, XVIII, a b 546; (Numismatics), XVII, b 656; (Persia), XVIII, a 592; (Thrace), XXIII, a 339
Periodic acid (Chemistry), V, a b 430, a *b* 431
—— function (Harmonic Analysis), XI, *a* b 431; of time (Gravitation), XI, a 66
—— oscillations, long (Tides), XXIII, b 383-4, b 386, a 388, a 391
—— relations of elements (Chemistry), V, b 470-1
—— style (Rhetoric), XX, b 527
Periodical Literature (Addison), I, b 135, a b 136, a b 137; (France), IX, a 590, b 591-2, a 597; German (Gutzkow), XI, b 303-4; (Italy), XIII, a 472; (Jerrold), b 643; (Johnson, S.), a b 734, a b 735; *Index to* (Index), XII, a 768
PERIODICALS, XVIII, a 546-56
  authorities, b 549, a 551, a b 553, a b 554, a 555, b 556
  British, a 546-9
    cheap publications, b 548
    colonies, b 549
    magazines, modern, b 547
    monthlies and weeklies, a b 547
    quarterlies, b 546-7
    statistics, b 548-9
  Eastern Europe, b 554-5
  France, b 549-51
  Germany, a 551-3
  Italy, a b 553
  Low Countries, the, b 553-4
  Scandinavia, a 554
  Spain and Portugal, a b 554
  Switzerland, a 553
  United States, a 555-6
—— (Copyright), VI, a 318, b 324; (France), IX, a 461; (Russia), XXI, b 117-8; (Typography), XXIII, b 757; Bohemian (Slavs), XXII, a 163; British Museum (Libraries), XIV, b 514; Shakespearian, XXI, a 806
Periodicity (Plague), XIX, b 173; of agues (Pathology), XVIII, a 405; in human growth (Pathology), b 367
—— of circular functions (Trigonometry), XXIII, a 604
—— of solar spots (Sun), XXII, a b 682
Period of the troubles (Russia), XXI, b 103
Periœci or Perioikoi, class (Greece), XI, b 84, b 85; (Lycurgus), XV, b 97; (Nobility), XVII, *b* 540; (Sparta), XXII, b 384
Perion, lover (Romance), XX, b 671
Periophthalmus, fish (Ichthyology) (Ill.), XII, b 675, b 689, a 729; (Mollusca), XVI, a 688
Periosteal muscle of eye orbit (Anatomy), I, b 782
—— tumors (Pathology) (Ill.), XVIII, a 378
Periosteum (Anatomy), I, a 750, a b 751; (Pathology), XVIII, b 376, a b 377; alveolo-dental (Digestive Organs) (Ill.), VII, a b 203; diseases of (Surgery), XXII, b 719; encephalic (Anatomy) I, a b 759; in repair (Pathology), XVIII, b 372, a 373; in rickets (Pathology), a 380
PERIPATETICS, philosophical school, XVIII, a 556-8; (Academy), I, a 67; (Al-Farabi), a 443; (Aristotle), II, b 450, a 451, b 452; (Ethics), VIII, a 514, note; (Logic), XIV, a 799; (Medicine), a 811; (Theophrastus), XXIII, a 297; realism of (Scholasticism), XXI, b 441, a 442
Peripatus, genus (Annelida), II, a 62; (Myriapoda) (Ill.), XVII, b 122, a *b* 123, *a* 124, *a b* 125, a 127
Peripharyngeal bands (Tunicata), XXIII, a 650
Peripheral end organs of ear (Anatomy), I, *a* 786; of nerves (Anatomy), b 776, b 777, b 780; of taste (Anatomy), b 787; of touch (Anatomy), b 788; nerves (Reptiles), XX, b 473-4
—— Paralysis, XVIII, b 261-2
Periploca, plant (Botany), IV, b 84, b 125
Periplus of the Erythræan Sea (Ptolemy), XX, b 99; (Yemen), XXIV, *b* 776
—— of Hanno, XI, *a* 398; (Africa), I, b 219; (Geography), X, b 157
—— of Hecatæus, XI, a 543
—— of the Mediterranean (Scylax), XXI, a 601; (Scythia), a 605
Peripteros in Architecture, II, a 413
Peripylæa, order (Protozoa) (Ill.), XIX, b 872-3
Perisarc (Hydrozoa), XII, a 582, b 594, b 595
Perischoechinidæ, family (Echinodermata) (Ill.), VII, b 544-5
Periscopic doublet (Microscope), XVI, b 270
Perisperm (Botany), IV, b 140
Perissad radicles (Chemistry), V, b 478, a 479
Perissodactyla, sub-order (Horse), XII, b 176, a b 178; (Mammalia), XV, a b 427, a 433-5
Perissoglossa (Birds), III, a 650
Peristaltic motion (Digestive Organs), VII, b 196; (Nutrition), XVII, *b* 689-90
Peristephana (Hymns), XII, *b* 616
Peristeri, mount (Monastir), XVI, b 745
Peristome, organ (Muscineæ) (Ill.), XVII, b 80, a 81
Peritoneum (Anatomy), I, b 744; (Digestive Organs), VII, b 194; wound in (Surgery), XXII, b 725-6
PERITONITIS, XVIII, a 558-9
Peritrichea (Protozoa) (Ill.), XIX, a 863, a 885, *b* 886-7, b 888
Perivascular canals (Anatomy), I, a 797
Periwig (Costume), VI, b 420, a 421, b 423; (Wig), XXIV, b 591, note, a 592
Periwinkle, plant (Horticulture), XII, b 260
——, mollusc (Fisheries), IX, a 232; (Mollusca) (Ill.), XVI, a b 673, b 675
Periyár river (Travancore), XXIII, b 558
Perizonius, Anton, theologian, XVIII, a 559
PERIZONIUS, Jacob, classicist, XVIII, a 559; (Burmann), IV, a 501
PERJURY, crime, XVIII, a 559-60; (Liguori), XIV, *a* 645, note; (Oath), XVII, b 717, b 718, b 721; effects of (Witness), XXIV, a b 658 note; judicial (Torture), XXIII, a 490
Perkin, W. H., chemist (Aniline), II, b 43, a 44; (Coal Tar Colors), XVIII, a b 903
Perkins, architect (Worcester), XXIV, a 702
——, F. B., bibliographer (Libraries), XIV, a 541
PERKINS, Jacob, inventor, XVIII, a b 560; (Patents), a 882; (Steam-Engine), XXII, a 520
——, Justin, missionary (Apocalyptic Literature), II, b 157
——, William, divine (Ames, W.), I, a 645; (Casuistry), V, a b 178
Perkin's hot-water oven (Baking), III, b 223
Perkins Institution, Boston (Blind), III, a 722
Perkins's *Treatise* (Manor), XV, a 504
Perkin Warbeck (Ford, J.), IX, a 348
"Perle bouton" (Pearl), XVIII, b 457
Perlidæ, group (Insects), XIII, b 158
Perlite, stone (Geology), X, a 209
PERM, government, XVIII, b 560-2; (Russia), XXI, a 76, *a* 87, a 88, b 90, b 94, a b 95, a 100; (Ural Mountains), XXIV, b 9, *a b* 10; city, XVIII, a 562
Permanganates (Manganese), XV, a b 488
Permeability (Magnetism), XV, a 246, a b 258
Permeation, universal (Stoics), XXII, b 591-2
Permian Corals, VI, a 337, a 340, a 341, a 343
—— Dictionaries, VII, b 163
—— fauna (Distribution), VII, a b 245, 246; fossils (Reptiles), XX, b 478; system (Geology), X, a 311-5; (Russia), XXI, b 81; (Scotland), b 543-4
Permians, race (Russia), XXI, *a* 87, b 88
Permoser, Belthasar, artist (Carving), V, a 147
Permutation of consonants, law of (Philology), XVIII, a 795
Permutations (Algebra), I, b 493-4
Pernahyba, city (Paranahyba), XVIII, b 262
PERNAMBUCO, city (plan), XVIII, b 562-3; (Brazil), IV, a 201, b 202, b 205, b 207, b 213, a 214; province (Brazil), a 202, b 203, a 204, b 205, *b* 208, *a* 209, b 210, *b* 212, b 213, a 214
—— gum (India-Rubber), XII, *a* b 878
PERNAU or Pernoff, town, XVIII, b 563
PERNE, Andrew, holy trimmer, XVIII, b 563
Pernis, genus (Buzzard), IV, a 537
Pernoff, town. See PERNAU
Pernot furnace (Iron) (Ill.), XIII, a b 333, b 358, a 359
Perodicticus, genus (Lemur), XIV, a 444
Peromedusæ, order (Hydrozoa), XII, b 580, a 593
Peromela, order (Amphibia), I, a b 658, *a* b 659, *a* 660, a 667, a 668, b 668*, *a* 669, b 671, a *b* 672, *b* 673, a 674, a *b* 675, b 677
Peronia, genus (Mollusca) (Ill.), XVI, b 684, b 685, a 688
PÉRONNE, town, XVIII, a 564; arrondissement (Somme), XXII, *b* 274, a 275
Peronospora, fungus (Potato) (Ill.), XIX, b 613-5; (Vine), XXIV, b 258
Peronosporeæ, sub-order (Fungus), IX, b 727, b 729; (Parasitism) (Ill.), XVIII, a b 271; (Reproduction), XX, b 438, b 440, b 441, *a* 442, *a* b 443, a 444
Perophora, genus (Tunicata), XXIII, a 656
Perotti, Nicolas, archbishop (Phædrus), XVIII, a 740
Perouse, explorer. See LA PEROUSE
—— strait (Saghalin), XXI, a 156
Perovsk, town (Syr-Daria), XXII, a *b* 858, a 860
Perovskite (Mineralogy) (Ill.), XVI, a 445
Peroxide of hydrogen (Bleaching), III, a 715
Peroxides (Chemistry), V, b 413
Péróz, prince (Persia), XVIII, b 621-2
Perpendiculars to planes (Geometry), X, b 343-4
Perpenna, Marcus Vento, general (Sertorius), XXI, *b* 716

Perpetual Edict, 1577 (De Witt), VII, a b 125, a 126; (Holland), XII, b 79
—— edicts (Hadrian), XI, a 326; (Justinian I.), XIII, *b* 802, a b 803; (Prætor), XIX, b 675
Perpetual Motion (Ill.), XVIII, a 564–7
    Bernoulli's theory, a b 567
    gravitational machines, a 565–6
    hydrostatic machines, a b 566
    magnetic machines, b 566
    principles discussed, a 564–5

—— (Mechanics), XV, a 724, a 778; (Thermodynamics), XXIII, b 304
Perpetuities (Annuities), II, b 65
Perpetuus, bishop (Tours), XXIII, b 522
Perpignan, city, plan, XVIII, b 567–8; (Organ), XVII, a 861; (Pyrénées), XX, b 134; (Roussillon), XXI, *b* 33, a 34; University, XXIII, b 894–5
Perrache, Michel, sculptor (Lyons), XV, b 111
Perrault, Charles, author, XVIII, a b 568; (Ethnography), VIII, a 548; (Tales), XXIII, b 32
——, Claude, architect, XVIII, a 568; (Architecture), II, b 382, a b 386; (Colbert), VI, a 112; (Paris), XVIII, a 298
Perrault, C., naturalist (Ornithology), XVIII, b 11; (Reptiles), XX, b 453
Perrers, Alice, courtesan (Women), XXIV, b 673
Perret's *Les Catacombes* (Catacombs), V, a 187
Perrey, Alexis, seismologist (Earthquake), VII, *a* 530
Perrier, Edmond, biologist (Echinodermata), VII, a 546, a 549, b 555; (Morphology), XVI, b 869
Perrin, Chevalier de, editor (Sévigné), XXI, *a* 740
Perrodil's hydrodynamometer (Hydromechanics) (Ill.), XII, a b 537
Perron, stairs (Architecture), II, a 413
Perrone, Giovanni, theologian, XVIII, b 568; (Limbus), XIV, a 653
Perroniana (Ana), I, b 688
Perrotine, machine (Calico-Printing), IV, *a* 607
Perrott, Sir John, lord-deputy (Ireland), XIII, b 270, a 271
Perry, beverage, XVIII, b 568–9
——, Arthur Latham, economist (Political Economy), XIX, a 413
——, James, editor (Newspapers), XVII, b 427; (Porson), XIX, b 539
——, James, inventor (Pen), XVIII, a b 494
——, John engineer (Peter I.), XVIII, a 712
——, Matthew Calbraith, commodore, *b*. 1794, *d*. 1858 (Japan), XIII, a 594
——, Oliver Howard, commodore, *b*. 1785, *d*. 1819 (Taylor, W. V.), XXIII, b 927; (United States), b 808, note
——, S. G. F., orientalist (Syriac Literature), XXII, b 869, note
Perryville, battle of, 1862 (Bragg), XXIII, a 837
Persæus, Citticus, philosopher (Stoics), XXII, b 590, b 599
Persan, Madame Doublet de (Newspapers), XVII, a 436
Persarmenia, II, b 480
Persdotter, Ingrid, nun (Sweden), XXII, a 792
Persecution, political (United States), XXII, b 804–5; race (Ireland), XIII, a 266
——, religious (Adamson), I, a 132; (Amalric), a 574; (Armenia), II, a b 480; (Aurelius), III, *a b* 77; (Baxter), a b 394; (Calas), IV, a 579; (Calvin), a 636; (Camisards), b 657–8; (Channel Islands), V, a 341; (Copts), VI, b 314; (Court, A.), b 461; (Cyprian), b 658–9; (Gottschalk), X, a b 760; (Holland), XII, a b 77; (Hungary), XII, a b 384; (Irenæus), XIII, a 279; (James), a b 564; (Januarius), b 677–8; (Mary I.), XV, a 601; (Madagascar), a 175; (Mennonites), XVI, a 16; (Persia), XVIII, a 620, b 621, a b 622, b 663; (Poland), XIX, a 303, a 309, a 313; (Priscillianists), a 766; (Propaganda), a b 833; (Quakers), XX, a b 155, a 158, b 159; (Russia), XXI, a 90; (Salzburg), a 253; (Saxony), b 369; (Scotland), b 513, b 514, b 520, *a* 522, a 523, *b* 537–9, a 540; (Shakespeare), b 790; (Templars), XXIII, a b 180; (Valtellina), XXIV, a 52; (William the Silent), XXIV, b 614
——, Anabaptist (Baptists), III, a b 305–6
——, Decian (Gregory Thaumaturgus), XI, a 162; (Novatianus), XVII, b 618; (Penance), XVIII, b 496
——, Diocletian's (Egypt), VII, b 648
——, English (Bonner), IV, b 31; (Gardiner, S.), X, a b 70; (Gipsies), a b 246, *a* 247; (Presbyterianism), XIX, b 706; (Test Acts), XXIII, a b 216
——, spirit of (Paul), XVIII, b 426
——, Trajan's (Justin), XIII, a 800
Persecutorum, De Mortibus (Lactantius), XIV, b 196
Perseids (Meteor), XVI, a 116
Persephone or Proserpine, myth (Ceres), V, a b 300; (Hecate), XI, b 543; rape of (Eleusinia), VIII, b 119
Persepolis, city, XVIII, b 569–72; (Alexander the Great), I, a 427; (Architecture), II, b 350, b 351; (Persia), XVIII, a 579, note, a b 593, a b 618, a 627; treasures of (Money), XVI, b 754
Perseus, hero, XVIII, a b 572; (Andromeda), II, b 21; (Gorgon), X, a 698; (Io), XIII, a 208; (Tarsus), XXIII, b 73
——, king of Macedon (Paulus), XVIII, a 446; (Rome), XX, a b 772, a 773
Perseus and Andromeda, painting (Mengs), XVI, b 14
—— *and Medusa* (Canova), V, a 24; (Cellini), b 255–6
Perseverance, final (Buddhism), IV, a 384, a 387
Persia (Plates VII and XVIII), XVIII, a 573–673
    ancient Iran, a 573
        Achæmenes, a 577
        Alexandrian system of empire, b 594–6
        Antiochus I., Soter, a 598; II., Theos, b 598–9; III., Magnus, b 599–600; IV., Epiphanes, b 600–1
        Ardashir I., a 618–9; II. to Bahrám IV., b 620–21; III., a 626
        Artabanus I., b 605
        Artaxerxes I., Longimanus, a 585–7; II., Mnemon, a 588–91; III., Ochus, a 591–2
        Astyages, and fall of Median empire, b 575–6
        Athenian peace with Artaxerxes I., b 585–6
        Bactrian Demetrius and Eucratides, b 601–2
        Bahrám I., II. and III., b 619
        Cambyses, a 579–80
        Chinese accounts of Eastern Greek kingdoms, b 610–1; accounts of Parthia, b 603–5
        Chosroes I., a 623–4 II., b 624–5
        civil wars of Alexander's generals, b 596–7
        coins, b 616–7
        conquests of Alexander the Great, b 592–4
        Crassus, campaign of, a 607–8
        Cyaxares, a b 575
        Cyrus the Great, b 576–9
        Darius I., b 580–3; II., Nothus, a 587–9; III., Codomannus, b 592–3
        Deioces, a b 574
        Demetrius I., Soter, a 601–2
        Eastern Greek kingdoms, b 609–10
        false Smerdis, a 580
        Gotarzes and Vardanes, a 612–13
        Græco-Parthian empire, b 593–603
        Greece, invasions of, a b 583–4
        Greek 10,000 invade Persia, a b 588
        Hormizd IV., b 624
Persia, *continued*
    ancient Iran
        Hyrcanian and Tocharian independence, b 613–4, b 619
        Ionian revolt from Darius I., a 582–3
        Kavádh I., a 622–3; II., b 625
        Median conquest and its chronologies, a 573–4
        Medo-Persian empire, a 573–93
        Mithridates I. of Parthia, a 602–4; II., a 606
        Orodes I., a 607–8
        Parthian empire, a 603–7; kingdoms, a b 603
        peace of Antalcidas, b 589
        Peroz and Balash, b 621–2
        Phraates II., a b 605; III., b 606; IV, a b 609, a b 611; V., b 611
        Phraortes, b 574–5
        revolts in Asia Minor from Artaxerxes II., a b 590
        Sásánian empire, b 617–27
        Seleucus I., Nicator, b 596–8; II., Callinicus, a b 599
        Shápúr I., a b 619; II., a b 620
        Spartan war of Artaxerxes II., b 588–9
        Tigranes of Armenia, b 606
        Tiridates II., b 609–11
        Volagases I., a 613–4; II., Pacorus II., and Osroes, b 614; III., a b 615; IV., b 615–6
        Xerxes I., b 583–5
        Yazdegerd I. to II., a b 621; III., a 626–7
    authorities, b 593, b 617, b 627, a 643, a b 673
    index, 673
    languages, a 665–88
        Iranian, b 665, *sq.*
        Persian, a 667–8
        Zend or old Bactrian, a 666–7
    literature, a 668–73
        didactic and Sufic works, b 670–1
        drama, b 672
        early poets, a 668–9
        encomiasts and satirists, a b 670
        epics, in prose and metre, b 669–70
        historical, b 672
        lyrics, b 671
        romance, a 670
        Sháhnáma and imitations, a b 669
    modern Persia, a 627–65
        agriculture, a b 634
        army, b 639–40
        boundaries, a 627–30
        climate, b 633–4
        commerce and manufactures, a 636–7
        costume, a 641–2
        eastern boundary, a 629–30

- PERSIA, *continued*
  - modern Persia
    - fauna, a 635–6
    - flora, b 634–5
    - geography and statistics, a 627–43
    - geology and minerals, b 632–3
    - government, a 639–40
    - history, a 643–5
      - 'Abbás I., the Great, b 648–50; II., a 650
      - Agha Muhammad, sháh, a 656–8
      - Afghan invasion, a b 651
      - question, a b 660
      - Bábis, the, b 662, a b 663
      - England, ruptures with, a 659, a b 662, a b 664
      - fall of the Sufís, a b 652
      - Fath 'Ali Sháh, a 658–61
      - Herat expedition of 1837, b 661
      - Husaín Sháh, b 650–2
      - India, Nádir's invasion of, a b 653
      - Isma'íl I., a 646–7
      - Kajár dynasty, a 657–65
      - Karím Khán, a b 655
      - Lutf'Alí Khán, sháh, a b 656
      - Muhammad Sháh, a 661–2
      - Muhammad Khudábanda, sháh, b 648
      - Nádír, Shah, b 651, a b 652–4
      - Nasru'd Dín Sháh, a 663–5
      - Russian wars, recent, b 658, b 659
      - Rukh, sháh, succession of, b 654–5, b 657
      - Salim I.'s invasion, b 646–7
      - Shaikh Haidar, b 645–6
      - Sístan mission, a b 665
      - Súfí or Safawí dynasty, a 645–52
      - Súfí, sháh, a 650
      - Sulaiman, sháh, a b 650
      - Tahmásp I., b 647–8; II., b 651–2
      - telegraph line, a 665
      - Timurides and Túrkmans, a 643–5
      - Venetian envoys' accounts, b 644–5
      - Zaki, sháh, b 655
    - kavírs or bogs, a 632
    - national character, b 640–1
    - political divisions, a 637–8
    - population, b 638–9
    - rainfall and winds, b 631
    - Russian frontier, a b 628
    - Sarakhs, a 629
    - summary, geographical, b 642–3
    - topography, a 630–1
    - Turkish frontier, a 627–8
    - water systems, b 630–1
  - names of the country, a b 573

—— (Afghânistân), I, b 214–5, a 216; (Alchemy), b 407; (Alexander the Great), a 426; (Caste), V, a b 167; (Cyrus, Elder), VI, a 664; (Firdousi), IX, *a* 196; (Fire), *b* 200, a 202, note; (Flag), b 241; (Glass), X, *a* 580; (Greece), XI, a *b* 92, a b 94, a 101; (Herat), a 639; (Hunting), XII, b 408; (Ichthyology), a 710; (Incense), b 758; (Inscriptions), XIII, a 122; (Isocrates), b 399, a b 403; (Jews), b 697; (Julian), a 779; (Justinian I.), *a* 806; (Khazars), XIV, b 61–2; (Kúrdistán), a 161; (Merv), XVI, a 49; (Meteorology), b 143; (Miletus), a 307; (Mohammedanism), b 585, b 608; (Mongols), b 775, b 768; (Mosque), b 893; (Opium), XVII, b 813–4; (Oxus), XVIII, b 104; (Plague), XIX, b 177–8; (Semitic Languages), XXI, a b 679; (Weights and Measures), XXIV, b 518

——, Army of, II, b 490–1; conquest of (Arabia), a 225; explorers of (Geography), X, a b 166, a 168, a 171

Persia, Journey through (Morier), XVI, b 850

——, name of (Aryan), II, b 589

——, Russian war with, 1826 (Paskewitch), XVIII, b 345; (Russia), XXI, a 110

——, Greek conquest of (Macedonian Empire), XV, a b 141

Persian acquisitions (Sistán), XXII, b 109; alphabet (Cuneiform Writing), VI, b 624

PERSIAN ARCHITECTURE (Ill.), II, a 350–1

—— art (Illumination), XII, a 747; Carpets, V, *b* 113; (Textiles) (Ill.), XXIII, b 229; character (Shi'ites), XXII, b 699–700; Chariots, V, a 348; coins (Numismatics), XVII, b 677, *b* 678, a 679

—— conquests (Asia Minor), II, b 622; (Egypt), VII, b 644–5; (Ionia), XIII, a b 211

—— Dictionaries, VII, a b 165; (Hindustani), XI, a 757; (Palmer), XVIII, b 196

—— dynasties (Shi'ites), XXII, a b 698

Persian Eclogues (Collins), VI, a b 133

—— Embroidery, VIII, a 150; era (Chronology), V, b 622–3; fauna, literature (Reptiles), XX, a 454; game (Chess), V, *b* 519, a b 520–1

—— or Paseng Goat, X, a 631

—— Gulf (Arabia), II, b 207–8, b 213

—— historians, XVIII, b 672; history (Mirkhond), XVI, a–b 522; (Petis de la Croix), XVIII, a 717

—— influence (Apocrypha), II, b 159; (Mohammedanism), XVI, a 613

—— inscriptions, XVIII, a b 667; (Artaxerxes), II, a *b* 560, b 561; (Grotefend), XI, a b 193; (Kandahar), XIII, b 845; (Pahlavi), XVIII, a 140

—— language (Hindustani), XI, *a b* 756; (Philology), XVIII, a 798, a 799; middle (Persia), b 667; New, b 665–6, b 667–8; Old, b 665–6, a b 667; law (Shi'ites), XXII, *a* 699

Persian Letters (Montesquieu), XVI, a 808–9, b 811

—— literature (Jones, Sir W.), XIII, a 750; (Mysticism), XVII, b 137

—— Metal-Work (Ill.), XVI, a 84; Mural Decoration, XVII, a *b* 41, *a* b 42; mythology (Adam), I, *a* b 126; (Devil), VII, a b 118; names, orthography of (Persia), XVIII, b 665 note; national standard (Ispahán), XIII, b 405

—— *New Testament* (Martyn), XV, *a* 594

—— paintings (Ispahán), XIII, a 404; Pilgrimage, XIX, a 100; poetry (Ferid-Eddin-Athar), IX, a b 78; (Hafiz), XI, b 328–9; (Nazámí), XVII, b 535–6; (Rúdagí), XXI, a b 55

Persian Prince, play (Southerne), XXII, a 303

—— race (Ispahán), XIII, b 405. See PARSIS

—— religion (Demonology), VII, *a* 57; (Gnosticism), X, a b 625; (Hafiz), XI, a 329; (Hyde, T.), XII, a 443; (Theism), XXIII, a 257

—— rites (Sacrifice), XXI, b 142

—— rule in Phœnicia, XVIII, a 822–3

"—— Sage" (Syriac Literature), XXII, b 867

—— school in Arabian philosophy, II, a 234–5

—— school in Turkish literature (Turkey), XXIII

—— Shah (Harem), XI, b 427, a 428; Tiles (Ill.), XXIII, a b 415–6; (Tobacco), b 451

—— war with Greece, XI, b 88–90; XVIII, a 583–4; (Paros) b 325; (Scio), XXI, b 487; (Themistocles), XXIII, a b 270

—— ware (Pottery and Porcelain) (Ill.), XIX, b 638–42

—— wars (Turkey), XXIII, b 685, a 686

—— wealth, effect of (Greece), XI, a 98; weaving (Textiles) (Ill.), XXIII, b 226; year (Calendar), IV, a b 592

Persians, people (Canon), V, b 258; (Cyprus), VI, b 660; (Heraclius), XI, a 608; (Mesopotamia), XVI, b 56; (New Year's Day), XVII, b 462; (Pahlavi), XVIII, b 140; modern, b 640–1; (Tajak), XXIII, a b 30

Persians, The, tragedy (Æschylus), I, a b 188

Persica, tree (Peach), XVIII, b 453

Persica, history (Ctesias), VI, *b* 599; (Hellanicus), XI, a 566

PERSIGNY, Jean Gilbert Victor Fialin, duc de, marshal, XVIII, a 673–4

PERSIMMON, fruit, XVIII, a 674

Persis, district (Persia), XVIII, b 616–7

Persistence of strata (Geology), X, b 261

- PERSIUS Flaccus, Aulus, satirist, XVIII, a 674–7
  - character, a 676
  - literary criticism, a 676–7
  - personal environment, b 674–5
  - times, character of the, a b 674

—— (Cornutus), VI, b 375; (Latin Language), XIV, a b 337; (Roman Literature), XX, *b* 744, *a* 745; (Satire), XXI, a 334

Perso-Byzantine war (Syriac Literature), XXII, b 880

Person, physicist (Mirror), XVI, b 524; (Thermometer), XXIII, b 309, a 316

Personæ (Morphology), XVI, a b 869, a 870

Personal Acts (Statute), XXII, *a* 486; equation (Time), XXIII, b 422–3

PERSONAL ESTATE, XVIII, a 677–8; (Intestacy), XIII, b 203–4; (Sale), XXI, b 217–9, a b 219–20; (Settlement), a 727; (Taxation, United States), XXIII, a b 925, a 926; (Will), XXIV, a b 603, a 604

—— identity (Medical Jurisprudence), XV, b 788–9

—— inflections (Grammar), XI, b 37

—— journalism, era of (American Journalism), XVII, a 886; laws (Domicile), VII, a b 305; liberty laws (United States), XXIII, a 817; prerogative, XIX, a 693

—— property. See PERSONAL ESTATE

—— religion, development of (Israel), XIII, b 429–30; Tithes, XXIII, a 439; virtues (Hutcheson), XII, b 425; Vows, XXIV, b 321–2; wrongs (Tort), XXIII, b 483

Personality (Condillac), VI, b 223; (Mysticism), XVII, b 136; (Psychology), XX, a b 88, note, a 89; (Schleiermacher), XXI, a 431; of the Holy Spirit (Isaiah), XIII, a 393

Personalty. See PERSONAL ESTATE
Personation (Ballot), III, a 250
Personne, chemist (Chloral), V, a b 588
Persons, Robert, Jesuit. See PARSONS
Perspective (Dürer), VII, b 482; (Ghiberti), X, b 506; (Masaccio), XV, b 612; (Microscope), XVI, a 284; (Piero), XIX, a 91; (Projection), b 814, b 826-9; Telemeter, XXIII, a 136; linear, treatises on (Taylor, B.), b 98; position (Geometry), X, b 350, a 351; projections (Geography) (Ill.), b 179, a 180-3
Perspiration (Baths), III, a 381; (Diaphoretics), VII, a b 145; (Nutrition), XVII, b 704; insensible (Leeuwenhoek), XIV, a 412. See Sweat
Pertabgurh, district. See PARTÂBGARH
Perte du Rhône, XX, b 542
Pertenencia, mining-claim (Mexico), XVI, b 900
PERTH, city, Australia, XVIII, b 681; (Western Australia), XXIV, a 535, b 536, a 537
PERTH, county, XVIII, a 678-80; (Scotland), XXI, b 545, a b 551, b 556, a 558
PERTH, city, Scotland (Plan), XVIII, b 680-1; (Filter), IX, a 149; (Scotland), XXI, a 550, a b 551, b 553; *Five Articles of*, XVIII, a 681; (Scotland), XXI, b 532, b 533, b 534
Perthes, Bernhard Wilhelm, publisher, XVIII, a 682
PERTHES, Friedrich Christoph, publisher, XVIII, b 681-2
Perthi Chwareu Caves, V, a 234
Perticari, Giulio, count, author (Italy), XIII, b 524
PERTINAX, Helvius, Roman emperor, XVIII, a b 682; (Severus), XXI, a 732; (Trajan), XXIII, a 536
Perturbations, planetary (Gravitation), XI, a 65-7
Pertusaria (Lichens), XIV, a b 557, a 558, b 563, a 565
PERTZ, George Heinrich, editor, XVIII, b 682
PERU, republic (Plate IX), XVIII, a 682-93
  area and boundaries, a 682-3
  bibliography, b 692-3
  church, b 689
  commercial features, a b 688
  education and literature, b 688-9
  history, a 690-2
    Incas, b 690
    independent period, b 691
    Spanish conquest, b 690
    viceroyal period, a b 691
  inhabitants, a 687, b 689-90
  physical geography, a 683-7
    climate, b 683
    coast region, a 683-5
    deserts, a 684
PERU, *continued*
  physical geography
    earthquakes, a 683
    fauna, b 684, b 686
    flora, b 683, a b 686
    islands, b 684
    Montana or forest region, b 686
    Sierra regions, a 685-6
    water systems, a 684, a b 686
  political features, a 687
  towns and ports, b 687-8
—— (Agriculture), I, a 262; (America), b 591, a 595, a 611-4, a 623, a 626; (Andes), II, a b 17; (Buccaneers), IV, b 368; (Caste), V, b 162, a 163; (Coolie), VI, b 296-7; (Cotton), a 430; (Cuca), a b 605; (Fernandez, D.), IX, b 87; (Forests), a 358; (Libraries), XIV, a 536, b 554; (Mining), XVI, b 493; (Observatory), XVII, b 736; (Railway), XX, b 263; (Yellow Fever), XXIV, b 771; independence of (Bolivar), IV, a 9, a 10; viceroyalty (Argentine Republic), II, b 431, a 432
PERU, city, Illinois, XVIII, a 693
PERUGIA, city, XVIII, a 693-4; (Conclave), VI, a 213; state (States of the Church), XXII, b 477; University, XXIII, b 892. See Perusia
Perugian painters (Pinturicchio), XIX, a 117
Perugine texts (Italy), XIII, a 507
PERUGINO, Pietro, XVIII, b 694-6; (Città della Pieve), V, a 695; (Credi), VI, b 493; (Fresco), IX, b 679; (Piero), XIX, b 91; (Raphael), XX, b 286, a 287, note, b 288, a 290, b 291, b 294; (Schools of Painting) (Ill.), XXI, a 451, note, b 453, a 454, a 465
Peruke. See Periwig
Perusia, city (Etruria), VIII, b 558; siege of (Pollio), XIX, a 416. See PERUGIA
Peruvian Andes, II, a b 17; (Wart), XXIV, b 398; Architecture (Ill.), II, a 395-6; bark (Cinchona), V, b 682; Coal, VI, b 57; conquests (Ecuador), VII, b 562-3; current (Pacific Ocean), XVIII, b 121; Dance, VI, b 703; Drama, VII, b 348; Festivals, IX, b 100
—— Guano, XI, b 206, a b 207, a b 208; (Agriculture), I, a b 309
—— Indians (Archæology), II, a 293, b 297; (Bolivia), IV, a b 16; (Indians), XII, a b 864, b 868-9; Jewellery (Plate XII), XIII, b 687
—— meridian arc (Earth), VII, b 524 *New Laws*, 1542 (Peru), XVIII, a 691; ware (Pottery and Porcelain) (Ill.), XIX, b 652-3
PERUZZI, Baldassare, architect and painter, XVIII, b 696-7; (Architecture), II, b 383-4; (Rome), XX, a 858; (Siena), XXII, a 49
——, Florentine Bankers, III, a 273
PERVIGILIUM VENERIS, poem, XVIII, a 697
Pes (Mammalia) (Ill.), XV, a b 363
PESARO, city, XVIII, a b 697; (Rimini), XX, b 571
Pescara, river (Abruzzo), I, a 57
——, Francisco D'Avalos, marquis of, general (Colonna), VI, a 142
Pescherais, tribes (Indians), XII, a 870
Peschiera, town (Garda), X, b 68
Peseta, coin (Spain), XXII, b 319
PESHAWAR or Peshawur, district, XVIII, b 697-8; town, a b 698; (Afghânistân), I, a 204, a 205, a 209, a b 210, a 211, a 215, a 216; (Punjab), XX, a 114, a b 115, a 116, b 117; town, XVIII, a b 698
Peshâwarân, ruins (Afghânistân), I, a 207
Peshito or *Peshitta*, Syriac version of the Bible (Aramaic Languages), II, a 270; (Bible), III, a b 559; (Canon), V, b 9, a 13; (James), XIII, b 562, b 564; (Psalms), XX, a 39; (Semitic Languages), XXI, a 681; (Syriac Literature), XXII, b 863, a 864, note, b 865
Peshkash, tribute (Madras), XV, a 187
Peshwa, title (Mahrattas), XV, b 293, a b 294; (Wellington), XXIV, a b 522
Pesikotho (Midrash), XVI, a 299, a b 300
Pesikto Rabbathi (Midrash), XVI, a 299
Pesinus, city. See Pessinus
Pessanha, Emmanuel, admiral (Portugal), XIX, a 558
PESSIMISM, in philosophy, XVIII, b 698-704
  Buddhism, a b 699
  critical remarks, a 704
  definition, b 698
  Hartmann, b 702-3
  instinctive form, b 698-9
  Leibnitz and Pope, a b 700
  Leopardi, b 702
  literature, b 704
  Kant and Hegel, b 700-1
  reliefs, a b 699-700, b 702
  Schopenhauer, a 701-2
—— (Job), XIII, a 711; (Metaphysic), XVI, a 105; (Schopenhauer), XXI, a b 470, b 471-3, b 475, a 476, a 478-9
PESSINUS or Pesinus, city, XVIII, b 704; (Galatia), X, b 18
Pestalozzi, Johann Heinrich, teacher (Burgdorf), IV, a 476; (Education), VII, a b 587, a 589; (Fellenberg), IX, a b 59; (Frœbel), a b 696, b 697
Pestarena mines (Gold), X, a 661
PESTH or Pest, city (Plan), XVIII, b 704-6; (Hungary), XII, b 377, b 387; (Mongols), XVI, a 768; Basin, plain (Hungary), XII, a 376; *Gazette* (Hungary), b 385. See Budapest
Pestilence. See PLAGUE
Pet, Arthur, explorer (Polar Regions), XIX, b 328
Petabo gum (India-Rubber), XII, b 880
Petalism, ostracism (Ballot), III, b 249; (Ostracism), XVIII, b 65; (Syracuse), XXII, b 853
Petalite (Mineralogy), XVI, b 434
Petaloideæ, series (Vegetable Kingdom), XXIV, a 143
Petalomonadina (Protozoa), XIX, a b 881
Petals of plants (Botany) (Ill.), IV, b 113, a 114, a 119-21
Petasites, genus of plants (Botany), IV, b 111, b 113; (Heliotrope), XI, a 566
Petasus, hat (Costume), VI, b 401, a 402
PETAU or Petavius, Denys, theologian, XVIII, b 706-7
Petaurista, mammal (Phalanger), XVIII, b 742
Petaurus, genus (Phalanger) (Ill.), XVIII, b 742, a 743
Petavius, Dionysius. See PETAU
Petchary, bird (King-Bird), XIV, a 83
Petchenegs, people (Khazars), XIV, b 62; (Russia), XXI, b 96, a b 97, a 99; (Turks), XXIII, b 701-2
Petchersk, monastery (Kieff), XIV, b 71, a 72
Petchora river (Perm), XVIII, b 560; (Russia), XXI, a b 80; (Vologda), XXIV, b 303
Petechiæ (Plague), XIX, a b 170
Peten lake (Guatemala), XI, a 212, a 213
Peter. See also Pedro, Pierre, Piero, Pietro
PETER I., Alexeievich, the Great, czar, XVIII, a b 712; (Academy), I, a 70; (Archangel), II, b 322; (Carving), V, a 147; (Catherine), a 203; (Charles XII.), a b 364, a b 365; (Circassia), V, a 689; (Elizabeth Petrovna), VIII, a b 135; (Evelyn), b 644; (Finland), IX, b 190; (Fortification), b 380; (Georgia, kingdom), X, a 389; (Globe), a b 609; (Gordon, P.), b 696; (Greece), XI, b 109; (Khiva), XIV, b 64; (Leeuwenhoek), b 411; (Mazeppa), XV, b 660; (Menshikoff), XVI, b 16-7; (Mongols), b 775; (Moscow), b 887; (Persia), XVIII, b 651, note; (Peterhof), b 715; (Russia), XXI, a 103, a 104, a 105-6, b 111, a 114, b 116; (St. Petersburg), b 200-1, a b 204, a 205; (Siberia), XXII, b 16; (Slavery), b 151; (Sweden), b 788, a 789; (Turkey), XXIII, b 687-8; (Ural Mountains), XXIV, a 10; (Voronezh), b 318; (Zaandam), b 799; his taxes (Beard), III, b 400

Peter the Great, Gulf of (Maritime Province), XV, *b* 555, a 556; (Siberia), XXII, b 10; (Vladivostok), XXIV, b 291, a 292
PETER II., Alexeievich, czar, XVIII, b 712; (Menshikoff), XVI, a b 17; (Russia), XXI, a b 106
PETER III., Feodorovich, czar, XVIII, b 712–3; (Paul, Czar), b 442; (Catherine II.), V, a 203–4; (Denmark), VII, b 77; (Russia), XXI, a b 107, a 108
——, king (Hungary), XII, a b 382
——II., king (Sicily), XXII, b 33
——II., Montenegro (Servia), XXI, b 724
——, count (Savoy), XXI, a 356
—— of Alcantara (Franciscans), IX, *a* 616
PETER OF BLOIS or Petrus Blesensis, theologian XVIII, b 711; (England), VIII, b 278
—— of Bruis or Brueys, reformer (Henry Deacon), XI, *b* 600; (Languedoc), XIV, a 288. See Brüys
——of Callinicus, patriarch (Syriac Literature), XXII, a 878
——of Colechurch (Bridges) (Ill.), IV, a 297, note, a 298
—— of Fossombrone, friar (Fratricelli), IX, b 638
—— the Fuller, bishop of Antioch (Syriac Literature), XXII, b 872
PETER THE HERMIT, crusader, XVIII, a 712; (Crusades), VI. b 550, b 551, b 552, a b 553; (Huy), XII, b 431
—— of Langtoft, chronicler (Manning), XV, a 502
—— of Lusignan, king of Jerusalem (Urban V.), XXIV, a 13
—— of Macerata, friar (Fratricelli), IX, b 638
——of Poitiers, monk (Scholasticism), XXI, a b 443, note
PETER, Simon, apostle, XVIII, a 707–10
  Acts of the Apostles, period, b 708–9
  apocryphal writings, a b 710
  discipleship period, b 707–8
  Jewish period of, a b 707
  traditions, a 709–10

—— (Acts of the Apostles), I, b 115, *b* 116, b 117, a *b* 118; (Mark), XV, b 558, a 559; (Petrel), XVIII, a 725; (Popedom), XIX, a *b* 502, b 523; (Romans), XX, *a* 746; (Tonsure), XXIII, b 472; his confession (Gospels), X, a 742; his miracles (Gospels), b 715; his work at Antioch (Paul), XVIII, a 429
——, *Apocalypse of*, II, b 157; arm of (Bautzen), III, b 389
PETER, EPISTLES OF, XVIII, b 710–1; (Jude), XIII, a 772; (Gospels), X, a 724, a 725 note; *Epistle to James*, XVIII, a 710; *Gospel of*, a 710
Peter Baptizing, painting (Masaccio), XV, b 612
Peter Denying His Master, (Teniers), XXIII, a 191
—— the Venerable, abbot (Carthusians), V, a 143
—— of Villacrezes, friar (Franciscans), IX, b 615
PETERBOROUGH, city, XVIII, a 713–4; cathedral (Libraries), XIV, a 513, a 518, a 546
PETERBOROUGH and MONMOUTH, Charles Mordaunt, earl of, XVIII, a 714–5; (War), XXIV, a 366
Peterburgskiy, island (St. Petersburg), XXI, a b 202
Peter or Pierre de Courtenai, emperor (Capet), V, a 50
——de Luna, antipope (Benedict), III, a 482
—— des Roches, bishop (Peerage), XVIII, a 470
—— de Vinea, minister (Frederick II., Emperor), IX, *a* 644
PETERHEAD, town, XVIII, a b 715; (Aberdeenshire), I, b 46, a b 47, *a* 48; (Seal), XXI, *a* 609
PETERHOF, town, XVIII, b 715; (St. Petersburg), XXI, b 199, *a* 204
Peterhouse college (Cambridge), IV, a 646; (Libraries), XIV, b 519
Peterloo massacre (Londonderry), XIV, a 866; (Manchester), XV, a 472
Petermann, August Heinrich, geographer (Polar Regions), XIX, b 335
Petermann's Peak (Greenland), XI, b 148
Peter Pindar, satirist. See WOLCOTT, John
Peter Plymley's Letters (Smith), XXII, b 187
Peter Porcupine (Cobbett), VI, a 77–8
Peter Quince, pseudonym (Story), XXII, b 929–30
Peters, Christian August Friedrich, astronomer (Astronomy), II, b 695, a 715; (Parallax), XVIII, a b 257
——, Christian Henry Frederick, astronomer (Comet), VI, a 172, a 173; (Micrometer), XVI, a b 266; (Telescopic Work), XXIII, *a* 936
PETERS or Peter, Hugh, regicide, XVIII, b 715–6; (Independents), XII, b 764
PETERSBURG, city, XVIII, a 716; siege of, 1864–5 (United States), XXIII, a b 828
Peter Schlemihl (Chamisso), V, a 333
Petersen, Hallgrim, poet (Iceland), XII, b 658
——, Niels Matthias, historian (Denmark), VII, b 78, b 81, b 82; (Scandinavian Languages), XXI, b 386, a 388, b 389
Petersen, W., poet (Hymns), XII, a 620
—— method of Irrigation, XIII, a 377
Petersfield, town (Hampshire), XI, *b* 235
Petershausen, suburb (Constance), VI, a 265
Peter's Letters to his Kinsfolk (Lockhart), XIV, *a* b 770
Peterson, Lawrence, archbishop (Episcopacy), VIII, b 435–6
Peter's Pence (Linköping), XIV, b 675; (Pius), XIX, b 168; (Popedom), a 516, b 518
PETERWARDEIN, town, XVIII, a 716
Pétery, Charles, novelist (Hungary), XII, a 395
Pethiōn, historian (Syriac Literature), XXII, b 888
Petiguares, Indians (Brazil), IV, a 205
Petiole (Botany) (Ill.), IV, b 97, b 101–2
PÉTION DE VILLENEUVE, Jerome, politician, XVIII, a b 716; (France), IX, a 530; (Robespierre), XX, *a* 618
PÉTIS DE LA CROIX, François, orientalist, XVIII, b 716–17
Petit, Alexis Thérèse, physicist (Chemistry), V, b 403, a 404, b 407
——, Jean Louis, physician (Surgery), XXII, b 710, a *b* 711
——, John, murder apologist (Gerson), X, b 491, a 492
Petitcodiac river (New Brunswick), XVII, b 382
Petite Anse, island (Louisiana), XV, b 22; (Salt), XXI, *b* 246
Petites Ecoles (Port Royal), XIX, a b 548
PETITION, XVIII, a 717–8; (Elections), VIII, a b 4; (Finance), IX, b 155; (Parliament), XVIII, b 311, a 314, b 316, b 318; of House of Commons (Parliament), b 311, b 316; monster (Chartism), V, a 376; right of, denied (Scotland), XXI, b 533; Westminster (Fuller, T.), IX, a 715
—— of right, 1627 (Army), II, a 499; (Buckingham, Duke of), IV, a 376; (Charles I.), V, a b 351; (Coke, E.) VI, a 110; (England), VIII, a 310; (Finance), IX, a 157; (Habeas Corpus), XI, b 320; (Hobbes), XII, a 35; (Tallage), XXIII, b 34
Petit Jehan de Saintre (Romance), XX, b 675
—— *Journal* (Newspapers), XVII, a b 438
Petit Morin, river (Marne), XV, a 568
—— Nord, peninsula (Newfoundland), XVII, b 391
Petitot, Jean, painter, (Enamel), VIII, a 169
Petit-Rhône river (France), IX, b 457
Petit-Thouars, du, admiral (Tahiti), XXIII, a 30
Petit Treason (Women), XXIV, b 673, note
PETIVER, James, botanist (Ornithology), XVIII, b 8 note
Peto, Sir Samuel Morton, engineer (Brassey), IV, *a* 198
Petöfi, Alexander, poet (Hungary), XII, b 393; (Schässburg), XXI, a 404
Petosiris (Magic), XV, b 203
PETRA, city, XVIII, b 718–9; (Nabatæans), XVII, b 166, *a* 167
Petra de, professor (Herculaneum), XI, b 648
Petræa, region (Arabia), II, b 205, a 208
PETRARCH, Francesco, poet, XVIII, b 719–25
  Avignon residence, a b 720
  bibliographical, b 724–5
  character, personal, a 723
  family and youth, b 719–20
  humanism, b 722–3
  literary estimate of, b 723–4
  Milan, life at, a 722
  Padua, settles in, a b 722
  Parma period, a 721
  Vaucluse and coronation period, b 720

—— (Averroes), III, b 131; (Boccaccio), a b 733, a 734, a b 735; (Italy), XIII, a b 514, a 515; (Latin Language), XIV, b 342; (Numismatics), XVII, b 644; (Renaissance), XX, *a b* 396, a 397; (Rome), *a b* 818, b 819; his handwriting (Manutius), XV, b 520; his Sonnets, XXII, b 275, *a* 276; his *Triumphs* (Textiles) (Ill.), XXIII, b 230, a 231
Petre Bay (Chatham Islands), V, a 385
Petreius, Marcus, general (Juba I.), XIII, a 769
——, Peter de Erlesunda, traveller (Russia), XXI, *b* 103
PETREL, bird, XVIII, a 725; (Ornithology), a 49
Petri, Laurentius, archbishop (Sweden), XXII, a 792; and Olaus (Scandinavian Languages), XXI, a 388
——, Olaus, author (Sweden), XXII, a 792
PETRIE, George, antiquary, XVIII, b 725–6; (Danby), VI, b 702
Petre, W. M. Flinders, engineer (Pyramid), XX, a b 130, note; (Venice), XXIV, b 162 note
Petrie's drier (Wool), XXIV, b 691; wool-washer (Bleaching), III, a 714
Petri exceptiones legum Romanorum (Roman Law), XX, a 735
Petrifactions (Mineralogy), XVI, a b 386; (Antrim), II, a 125; (Oregon), XVII, a 847
Petrine Liturgy, XIV, *a* b 714
Petriu, town (Siam), XXI, b 892
Petrobrusians, sect. See Bruys, Peter de
Petrodomus, genus (Mammalia), XV, b 406
Petrœca, bird (Ornithology), XVIII, b 51
PETROLEUM (Ill.), XVIII, a 726–34
  authorities, b 733–4
  chemistry, a 728

PETROLEUM, *continued*
  commercial products, b 732-3
  drilling wells, b 729
  geographical distribution, a 727-8
  history, a 726-7
  medicine, b 733
  methods of production, a b 729
  origin, a 728-9
  technology, a b 732
  transportation, b 731-2
  wells, flowing and pumping, a b 731
  APPENDIX, a 884-94
    American oil-field, a 886-7
    chemistry, a 894
    crude production and supply, b 887-8, b 889
    distillates, a 891-2
    drilling wells, b 892-3
    geographical distribution, a 885-7
    history of American industry, b 888
    purification, b 890-1
    refining crude material, a b 890, a 892
    Russian industry, b 855
    testing oil for inflammability, a b 892
    transportation, b 893

—— (Asphalt), II, a b 625; (Australia), III, a 95; (Burmah), IV, a 493; (California), a 623; (Caspian Sea), V, b 156-7; (Cheduba), a 394; (Chemistry), b 482; (China), b 553, b 555; (Cuba), VI, a b 601; (Fuel), IX, a 709, b 710; (Gran Chaco), XI, b 42; (India), XII, b 804-5; (Kentucky), XIV, a 44, a 45; (Kerkuk), b 51; (Mexico), XVI, a 909; (Mineralogy), a 391, b 393, b 446-7; (Mining), b 490-2; (Naphtha), XVII, b 181; (New York), b 465; (Oil City), a 760; (Ontario), b 796; (Persia), XVIII, a b 633; (Punjab), XX, b 113; (Russia), XXI, a 4; (Salt), a b 241
—— engines (Steam-Engine), XXII, b 550-3; extraction by (Oils), XVII, a 764
—— fuel (Iron), XIII, b 299-300; (Smoke Abatement), XXII, a 192; expense of (Paraffin), XVIII, b 243-4; furnaces (Steam-Engine), XXII, a 523; gas (Gas-Lighting), X, a 91
——, origin of American industry (Paraffin), XVIII, b 247; product (United States), XXIII, a b 865
——, Scotch (Geology), X, b 275
Petroline (Petroleum), XVIII, b 891
Petromys, genus (Mammalia), XV, a 425
Petromyzon, genus (Ichthyology) (Ill.), XII, b 682, *a b* 689, a 690, a 696, b 700, b 713, b 733; (Lamprey), XIV, *a* 250
Petronels (Arms and Armor), II, a 489
Petronilla of Aragon, infanta (Spain), XXII, a 331
PETRONIUS Arbiter, satirist, XVIII, a 734-6
  biographical material, a 734-5
  Satiræ, authorship of, a b 735
    contents of, b 735-6
    value of, a b 736

—— (Acta Diurna), I, b 119; (Latin Language), XIV, b 336; (Persius), XVIII, b 674; (Romance), XX, *b* 652; (Silius), XXII, b 60
PETROPOLIS, town, XVIII, a 737
PETROPAVLOVSK, town, XVIII, b 736-7; (Avatcha), III, b 125; (Kamchatka), XIII, b 841
Petrosal nerve (Anatomy), I, a 774, *a* 775
Petrossa treasure (Plate), XIX, b 193, a 198
Petrous ganglion (Anatomy), I, a 775
Petrovitch, George. See CZERNY GEORGE
PETRONSK, towns, XVIII, a 737; (Saratoff), XXI, b 319, *a* 320
Petrovskiy, island (St. Petersburg), XXI, a 200, a 202
PETROZAVODSK, town, XVIII, a b 737; (Olonetz), XVII, *b* 786
Petrucci, cardinal (Molinos), XVI, b 653, a 654
——, Borghese, prince (Siena), XXII, a 48
——, Ottavio, music-printer (Typography), XXIII, a 741
——, Pandolfo, governor (Pius III.), XIX, a 164; (Siena), XXII, b 47-8
——, Rafaelo, cardinal (Siena), XXII, a 48
Petrus Cristus, painter (Van Eyck), VIII, b 713
—— Hispanus. See JOHN XXI., pope
—— Siculus, historian (Paulicians), XVIII, b 444, a 445
Pett, Phineas, shipbuilder, (Navy), XVII, *a* b 290
Pettau, town (Pannonia), XVIII, b 217
Pettenkofer, Max von, chemist (Cholera), V, b 593, a 595; (Gas-Lighting), X, b 91; (Hygiene), XII, *b* 601; his method of gas-making (Tar), XXIII, b 63
Petticoats (Costume), VI, b 417, a b 419, a b 420, a b 421
——, alliance of the three (France), IX, a 518
Pettigrew, James Bell, physician (Anatomy), I, b 791, *a* 792; (Flight), IX, b 271, note. See List of Contributors
——, Thomas Joseph, surgeon (Vascular System), XXIV, a 107
Pettitt's puddling process (Iron), XIII, a b 335
Pettman service fuse (Ammunition), I, b 653
Petty, William Fitz Maurice. See Shelburne and Lansdowne
PETTY, Sir William, political economist, XVIII, b 737-8; (Ireland), XIII, b 225, a 229, b 234, b 235, a 239, b 248, a b 276; (Political Economy), XIX, b 270-1; (Statistics), XXII, a b 479
Petty Treason. See Petit Treason
Petuna, town (Manchuria), XV, *a* 474
Petunia, plant (Horticulture), XII, a 273
Petuntze, mineral (Mineralogy), XVI, b 437; (Pottery and Porcelain), XIX, b 653
Petyt, Thomas, printer (Sea Laws), XXI, a 611
Petzholdt, A., geographer (Caucasus), V, b 225
Petzholdt, Julius, Bibliographer, III, a 572, b 573; (Libraries), XIV, b 525, a 526, a 536 note, a 537, a 542
Petzite (Mineralogy), XVI, b 408
Petzold, Wilhelm Lebrecht, pianoforte maker, XIX, b 82
Peucetians, tribe (Italy), XIII, a 453
Peut, Hippolyte, engineer (Rhone), XX, a b 543
PEUTINGER, Conrad, antiquary, XVIII, a b 738; *Itinerary* (Franks), IX, a b 636
Pevensey, borough (Sussex), XXII, a 761, *a* 762, *a* 763
Pews (Architecture), II, a 413; property in (Personal Estate), XVIII, a 678
Pewsey vale (Wilts), XXIV, a 625
PEWTER, alloy, XVIII, b 738; (Lead), XIV, b 378
Pexos peak (Canary Islands), IV, a 706
Peyer, Conrad (Anatomy), I, b 712
Peyer's patches (Digestive Organs) (Ill.), VII, b 197-8; (Mammalia), XV, b 365; (Nutrition), XVII, b 688; (Typhus), XXIII, a 721
Peyrerius, Isaac, theologian (Pentateuch), XVIII, b 515, note, a 518
Peyrou, Place du (Montpellier), XVI, b 818
Peysel or Beissel, Conrad, sectary (Dunkers), VII, b 469
Peziza, fungus (Parasitism), XVIII, a 272; (Fungus), IX, a 732
PFAFF, Christian Heinrich, physicist, XVIII, b 738
PFAFF, Johann Friedrich, mathematician, XVIII, b 738-9
PFAFF, Johann Wilhelm Andreas, mathematician, XVIII, a 739
Pfaffendorf, battle, 1760 (Austria), III, b 112
Pfäffers, abbey and springs (Ragaz), XX, *a* 227
Pfahlbürger, citizen (Germany), X, b 442, a 443
Pfalz, district. See PALATINATE
PFALZBURG, town, XVIII, a 739
Pfalz-Saarbrücken basin (Coal), VI, b 53
Pfaundler's hypothesis of dissociation (Molecule), XVI, b 645
Pfeffer, biologist (Schizomycetes), XXI, a b 424, note
Pfefferkorn, John, bigot (Reuchlin), XX, *a* 505
PFEIFFER, Franz, literary historian, XVIII, a 739; (Nibelungenlied), XVII, b 489
PFEIFFER, Ida Laura, traveller, XVIII, b 739
Pfeiffer, botanist (Parasitism), XVIII, b 268
Pfleiderer, Otto, theologian (Religions), XX, a 379, b 383; (Theism), XXIII, b 264
Pfister, Albrecht, printer (Typography), XXIII, b 723, b 727, *a* 728, a 729, a 730
Pflüger, E., biologist (Reproduction), XX, a 428; (Sleep), XXII, *a* 166, a 168; his avalanche theory (Physiology), XIX, a 31; law of contraction (Physiology), a b 28
PFORZHEIM, town, XVIII, b 739-40; (Baden), III, *a* b 194
Pfuhl, philologist (Slavs), XXII, a 163, a 164
Pfyffer, Ludwig, mercenary (Switzerland), XXII, b 829, 830
Phabdese, king (Tibet), XXIII, b 367
Phacochærus, wart-hog (Swine), XXII, b 812-3
Phacolite (Mineralogy) (Ill.), XVI, b 439, a 440
Phacusa, town (Goshen), X, b 701
Phædo, dialogue (Plato), XIX, b 207, b 210-2, a 213, b 214, b 216; (Socrates), XXII, b 244, a 251
PHÆDRUS, fabulist, XVIII, a b 740; (Fables), VIII, b 733; (Roman Literature), XX, a 745
Phædrus, Plato's (Metempsychosis), XVI, b 111; (Plato), XIX, b 207, b 211, a 212, a 213-4, b 217, a 219, b 221
Phæoconchida (Protozoa) (Ill.), XIX, a 874
Phæocystida (Protozoa), XIX, a 874
Phæodaria, order (Protozoa) (Ill.), XIX, b 873-4
Phæogromida (Protozoa), XIX, a 874
Phæophyceæ, sub-class (Vegetable Kingdom), XXIV, b 136, b 137, b 138, a 139
Phæosphærida (Protozoa) (Ill.), XIX, a 874
Phæosporeæ, order (Vegetable Kingdom), XXIV, a b 138, a 139
Phaestus, city (Numismatics), XVII, a 661
PHAETHON, myth, XVIII, b 740-1
——, genus (Tropic-Bird), XXIII, a 625
Phaethornis, genus (Humming-bird) (Ill.), XII, a b 373, a 374
Phagedena, ulcer (Vaccination), XXIV, b 31
Phagmodu or Chyang Chub Gyattshan, conqueror (Tibet), XXIII, b 367

Phagspa Lodoi Gvaltshan, priest (Tibet), XXIII, b 367
Phalacrocoracidæ, family (Cormorant), VI, b 331-2
Phalacrocorax, genus (Birds), III, *a* 618, a 629, *a* 633
Phalæidæ, family (Hemiptera), XI, b 576
Phálaks, tribes (Máinpurí), XV, *a* b 306
Phalálum mountain (Dárjíling), VI, b 727
Phalangeal joints and muscles (Anatomy), I, b 736-7
PHALANGER, mammal (Ill.), XVIII, a 741-3; (Australia), III, a 97; (Mammalia), XV, a 382
Phalanges, bones (Anatomy), I, a 726, a 728, b 729; (Ape), II, a 142, b 143; (Horse), XII, a b 181; (Mammalia), XV, a b 362; (Skeleton), XXII, a b 126
——, societies (Fourier), IX, a b 432; (Socialism), XXII, a 220
Phalangidea, order (Arachnida) (Ill.), II, *b* 239, a 243-5, b 252, b 258
Phalangides, family (Arachnida), II, a 245, b 250
Phalangigrade (Mammalia), XV, b 362
Phalangista, genus (Phalanger), XVIII, b 741-2
Phalangistidæ, family (Kangaroo), XIII, b 850; (Mammalia), XV, b 384
Phalangistinæ, group (Mammalia), XV, a b 385
Phalangium (Arachnida) (Ill.), II, *a* b 244, a b 245
Phalanstère, community (Fourier), IX, a b 432
Phalansterium (Protozoa). XIX, a 880, a 883
Phalanx, Grecian (Arms and Armor), II, b 485, a 486; (Army), b 491; Macedonian, a b 492; (Macedonian Empire), XV, a 141; Roman (Rome), XX, a 754
Phalarideæ, group (Grasses) (Ill.), XI, a 49, a b 52
PHALARIS, tyrant, XVIII, b 743-4; (Greece), XI, b 85; (Sicily), XXII, a b 21
——, *Epistles of*, XVIII, b 743-4; (Atterbury), III, *b* 47, a b 48; (Bentley), b 499, *a* 501
Phalaropus, bird (Sandpiper), XXI, *b* 272, note
Phalereus, Demetrius, librarian (Septuagint). XXI, *b* 699, a 700. See DEMETRIUS
Phalerum, port (Athens), III, b 5, a 6
Phallic emblems (Lydia), XV, a 102; processions, Greek (Drama), VII, a 350; worship (Gipsies), X, b 549; (Mythology), XVII, a 158, a b 160
Phallus (Fungus), IX, b 731
Phanæ, cape (Scio), XXI, *b* 487
Phanæus, genus (Coleoptera), VI, b 115
Phanariots, class (Greece), XI, a b 111, a 112, a 135
Phanerocodonic gonophors (Hydrozoa), XII, a 587
Phanerogamia, sub-kingdom (Vegetable Kingdom), XXIV, a 136, a 142-3
Phanerogams or Phænogams, group of plants (Botany), IV, b 81, *a* 82, a 107; (Grasses), XI, *a* 53; (Parasitism), XVIII, b 268-70; (Reproduction), XX, a 436, *a* 437, b 439, *b* 441, *a b* 442, *a* 443, b 444; female organs (Botany) (Ill.), IV, b 127-43; fruit (Botany) (Ill.), a 134-43; male organs (Botany) (Ill.), a 122-6
Phanes, coins of (Numismatics), XVII, *b* 648
Phanote, town (Epirus), VIII, a b 429
Phantasmagoria (Magic Lantern), XV, a 214
Phantasmion (Coleridge, Sara), VI, b 125
Phantasus (Drama), VII, a 383; (Germany), X, b 484
Phantom bait (Angling), II, b 32; palisades (Light), XIV, a 586
Pharæ or Phere, town (Kalamata), XIII, *b* 835
PHARAOH, king, XVIII, a 744; (Moses), XVI, b 888; treasury of (Petra), XVIII, a 719
—— Hophra. See APRIES
Pharaoh's rat (Ichneumon), XII, a 665; seat, pyramid (Egypt), VII, a 636, b 670
Pharez (Judah), XIII, *b* 770
PHARISEES, sect, XVIII, a 744; (Apocrypha), II, b 160; (Assideans), b 637; (Ezra), VIII, a 728; (Gospels), X, b 710, a 712, a b 743; (Israel), XIII, b 433, note, *a b* 434, b 435, b 436, a 438; (Jesus Christ), a b 675, *a b* 676; (Messiah), XVI, a 60; (Tithes), XXIII, a 439 note
Pharmaceutical Society (Adulteration), I, a 159
Pharmacolite (Mineralogy) (Ill.), XVI, a 421
Pharmacology (Medicine), XV, b 806
PHARMACOPŒIA, XVIII, a 744-5; (Persia), b 668; (Petroleum), b 888; (Aldrovandi), I, a 421; (Antimony), II, a b 114; Galenic (Paracelsus), XVIII, a b 239, a 240
Pharmacosiderite (Mineralogy), XVI, b 422
Pharmacy (Benzoin), III, b 501; (Betel nut), a 533; (Bhang), b 543; (Calomel), IV, b 629; (Chalk), V, a 323; (Galbanum), X, b 21; (Glycerin), b 623; (Guaiacum), XI, a b 205; (Medicine), XV, a 809, a b 815; Chinese (Ginseng), X, a 540; German (Mohr), XVI, b 629; Hindu (Sanskrit), XXI, a 309
Pharnabazus, satrap (Persia), XVIII, a b 587, a 588, a 589, a 590
Pharnaces II. of Pontus (Cappadocia), V, b 68
Pharnawaz, king (Georgia), X, a b 388
Pharomacrus, bird (Quezal), XX, a 186
Pharos, island (Alexandria), I, a *b* 436, a 437; (Egypt), VII, a b 666
Pharpar, river (Abana), I, a 12; (Damascus), VI, a 696
Pharsalia, poem (Lucan), XV, *a* b 38, a 39; (Latin Language), XIV, b 337
Pharsalus, city and battle (Metellus), XVI, b 111
Pharus (Grasses), XI, a 49, a 52
Pharyngeal bloodvessels (Anatomy), I, b 794; nerves, *a* 775; plexus, b 775; slits in craniata (Vertebrata) (Ill.), XXIV, a b 196, a 198. See Pharynx
Pharyngobranchii, group (Ichthyology), XII, a 705, a 716
Pharyngodictyon, genus of Tunicata, XXIII, a 657
Pharynx (Digestive Organs) (Ill.), VII, b 193; (Nutrition), XVII, b 687; (Planarians), XIX, a 182; (Rotifera), XXI, b 10-1; (Throat Diseases), XXIII, b 341; (Worm), XXIV, a b 715, a 719; muscles of (Anatomy) (Ill.), I, *b* 734, a b 735. See Pharyngeal
Phascaceæ, group of mosses (Muscineæ), XVII, a b 78, a b 80
Phascogale, genus (Mammalia), XV, a b 383
Phascolarctinæ, group (Mammalia), XV, b 385
Phascolarctos, genus (Mammalia) (Ill.), XV, a 382, b 385
Phascolomyidæ, family (Mammalia), XV, a 386
Phascolomys, genus (Wombat) (Ill.), XXIV, b 670-1
Phascolotherium, fossil (Mammalia) (Ill.), XV, a b 378
Phascum, genus (Muscineæ) (Ill.), XVII, b 71, a 77, a 79, a 80
Phase (Acoustics), I, a *b* 95, *a* 109; (Mechanics), XV, a 693; of vibration (Harmonic Analysis), XI, *a* b 431
Phaseolus, plant (Botany), IV, b 132, a 140; (Gram), XI, b 33; (Horticulture), XII, *a b* 295; cells of (Histology), *b* 12, b 15; tissue of, a 16
Phasianidæ, family (Poultry), XIX, b 664
Phasianus, genus (Birds), III, *b* 633; (Pheasant), XVIII, b 745
Phasidus, genus (Guinea Fowl), XI, a 235
Phasis, river (Caucasus), V, a 221, b 224
——, town (Poti), XIX, a 616
Phasmidæ, family (Insects), XIII, b 159
Phaulcon, Constantine, adventurer (Siam), XXI, a *b* 894
Phava Chak Kri, general (Siam), XXI, b 894
Phava Takh Sin, general (Siam), XXI, b 894
Phayllus, athlete (Games), X, b 58
Phazania, country. See FEZZAN
PHEASANT, bird, XVIII, b 745-7; (Birds), III, a 641, a 655; breeding (Kestrel), XIV, b 55 note; Shooting, XXI, a 874
Pheasants, Isle of (Mazarin), XV, a 660
Pheasant's eye, plant (Adonis), I, b 148; (Horticulture), XII, b 265
Phèdre, play (Racine), XX, a 213, a 214, a 216
Phegeus of Psophis, king (Callirrhoe), IV, a 628
Pheidon, king, Argos (Greece). XI, b 85
Phelloderm (Botany), IV, a 79; (Histology), XII, a 20
Phelps, Almira Lincoln, educator (Willard), XXIV, a 899
——, Elizabeth Stuart, Mrs. Herbert D. Ward, novelist (Stuart), XXII, a 932
——, G. M., inventor (Telegraph), XXIII, *a* 121, b 130, a 131, a 930
Phenacite (Mineralogy) (Ill.), XVI, b 428
Pheneus, town (Numismatics), XVII, a 660
Phenicienne, dye (Carbolic Acid), V, b 76
Phenol (Carbolic Acid), V, a 76; (Coal Tar Colors), XVIII, a 900; (Creasote), VI, b 492, a 493; (Paraffin), XVIII, a b 242; (Tar), XXIII, a b 63; derivatives of (Coal Tar Colors), XVIII, b 904-5; dehydric (Chemistry), V, b 489
—— alcohols (Chemistry), V, a *b* 489
Phenomena (Herbart), XI, b 642, a 643
—— (Kant), XIII, b 859, b 861, a b 863; mental and material (Psychology), XX, a 43; illusion theory of (Vedanta), XXIV, a b 129, a 130
Phenomenalism (Hamilton, Sir W.), XI, b 373, a 374; (Lucretius), XV, a 56; (Parmenides), XVIII, a b 321; (Philosophy), b 808
Phenomenal world (Neoplatonism), XVII, a b 345
Phenomenology of the Mind (Hegel), XI, b 548, *a b* 551, b 553
Phenylamine (Aniline), II, b 43; (Chemistry), V, a 500
Phera, town (Thera), XXIII, a 300
Pheræ, town. See Pharæ
PHERECRATES, poet, XVIII, a 747
Pherecydes of Athens, historian, XVIII, b 747
PHERECYDES of Syros, philosopher, XVIII, a b 747; (Greece), XI, a 126
Pheretine, queen, Cyrene (Battus), III, b 385-6
Phi, Greek letter (P), XVIII, a 118
Phialæ, bowls (Plate) (Ill.), XIX, *b* 189, a *b* 190
Phi Beta Kappa Society (Universities), XXIII, a 962
PHIDIAS, sculptor, XVIII, b 747-8; (Alcamenes), I, b 405; (Archæology), II, b 310-1, a 313, *a* 314; (Athena), *b* 727; (Athens), III, *b* 6; (Damophon), VI, b 700; (Metal-Work), XVI, b 79; (Wood-Carving), XXIV, a 680; accused (Pericles), XVIII, a b 543, notes; workshop of (Olympia), XVII, a 789

PHIGALIA, city (Ill.), XVIII, b 748-50
"Philadelphia" frigate (Preble), XIX, b 925
PHILADELPHIA, ancient cities, XVIII, a 750; (Ala-Shehr), I, a 393; (Ammonites), a 651; (Sardis), XXI, *a* 325
PHILADELPHIA, city (Plate X) (Ill.), XVIII, a 750-5
  buildings of note, a b 751
  charities, a 753
  educational establishments, b 753-4
  finance and trade statistics, b 752-3
  history, b 754-5
  municipal organization, a b 752
  population, b 752-3
  topographical features, a 750-1

—— (Girard, S.), X, a 551; (Hospital), XII, a 321; (Libraries), XIV, b 534, a 535, b 553; (Madison), XV, b 183-4; (Penn), XVIII, a 506, a 508; (Presbyterianism), XIX, b 717, a b 718; (Yellow Fever), XXIV, a b 771, a 772; capture of (United States), XXIII, b 791, a 792; foreign trade (United States), b 880, a 881; history (United States), a 801, b 805
—— Academy of Natural Sciences (Kiwi), XIV, b 107 note; (Societies), XXII, a 235
—— and Germantown Railroad (Steam-Engine), XXII, b 923
—— company (Natural Gas), XVIII, b 897
—— Eastern penitentiary (Prison Discipline), XIX, 783
—— Library, XIV, b 534, a 535, b 553; (Rush), XXI, a b 897; magazines (American Journalism), XVII, a b 892; *North American* (American Journalism), a b 884
—— Yearly Meeting (Quakers), XX, a 893
Philæ, sacred island (Egypt), VII, b 679
Philageria, plant (Horticulture), XII, b 220
Philanthropinon at Dessau (Basedow), III, a 352; (Education), VII, b 586-7
Philanthropy (Ethics), VIII, a b 520; (Quakers), XX, b 157-8
Philarète, Feodor Romanoff, patriarch (Russia), XXI, *a* 104
Philaretus, pseudonym (Hutcheson), XII, a 427
Philaster, play (Beaumont and Fletcher), III, a 406, a 407
Philastre, French agent (Tong King), XXIII, b 469
Philastrius, bishop of Brescia (Canon), V, b 12; (Cerinthus), *b* 301; (Ember), VIII, a 147; (Heresy), XI, b 658
Philbrick, John D., educator (Schools), XXI, a 911
Philebus, dialogue (Category), V, a 194; (Plato), XIX, *b* 207, b 208, a 214, a 217, a b 219, a b 220, b 223
PHILEMON, poet, XVIII, a b 755; (Drama), VII, b 352-3, b 355; (Menander), XVI, a 6; (Sicily), XXII, b 25
PHILEMON, EPISTLE TO, XVIII, b 755; (Colossians), VI, b 147; (Paul), XVIII, b 432
Philepitta, genus (Birds), III, a 659; (Pitta), XIX, b 159
Philes, Manuel, dramatist (Greece), XI, a 130
Philetærus, king (Numismatics), XVII, b 662; (Pergamum), XVIII, *a* 538
PHILETAS, poet, XVIII, b 755-6; (Dwarf), VII, b 490; (Gloss), X, a 612
Philharmonic Hall (Liverpool), XIV, a 720, a 721
—— society, London (Beethoven), III, b 436, a 437; (Mendelssohn), XVI, b 11, a b 12
Philhydrida, group (Coleoptera), VI, a 118
Philibert I., duke (Savoy), XXI, b 356
Philidor, François André Danican (Chess), V, b 517, a 522, a 524
PHILIP, Apostle, XVIII, a b 756; (Gospels), X, a *b* 747, a 748
—— the Arab, Roman emperor. See PHILIPPUS
PHILIP the Evangelist, XVIII, b 756
PHILIP I., France, XVIII, b 756, a 757
PHILIP II., Augustus, France, XVIII, a 757; (Paris), a b 294; (Peerage), b 478; (France), IX, a 477-8; (Innocent III.), XIII, b 90; (John, England), a *b* 724; (Richard I.), XX, *b* 554, *a* *b* 555
PHILIP III. the Rash or Bold, France, XVIII, a 757; (France), IX, a 480; (Sculpture), XXI, a b 589
PHILIP IV. the Fair, France, XVIII, a 757; (Paris), b 295; (Clement V.), V, *a* 718; (France), IX, a 480-1; 756-7; (Inquisition), XIII, a 99; (Money), XVI, a 754; (Popedom), XIX, b 515, a 516; (Templars), XXIII, *b* 178, a b 179-80
PHILIP V. the Tall, France, XVIII, a 757; (France), IX, a 481
PHILIP VI. of Valois, France, XVIII, a 757; (Edward III.), VII, *b* 593; (France), IX, a 481-2; (Salic Law), XXI, b 224
PHILIP II., Macedon, XVIII, b 756; (Persia), a b 592; (Philippi), b 760; (Philippopolis), b 767; (Phocion), b 812-3; (Alexander the Great), I, a 425; (Amphictyony), b 678-9; (Army), II, a 492; (Demosthenes), VII, a 60, b 61, *a* *b* 62; (Greece), XI, a b 93, a 94; (Isocrates), XIII, a 400, a 403; (Macedonian Empire), XV, b 139-40; (Numismatics), XVII, b 656, a b 657; (Olympia), a 791; (Scythia), XXI, a 605; (Theopompus), XXIII, b 297
PHILIP III., Macedon, XVIII, b 756; (Theopompus), XXIII, b 297-8
PHILIP IV., Macedon, XVIII, b 756
PHILIP V., Macedon, XVIII, b 756; (Philopœmon), a b 804; (Aratus), II, b 271; (Athens), III, b 8; (Flamininus), IX, *a* *b* 251; (Greece), XI, b 96, a 97; (Rome), XX, a 768, a 770-1, a 772; (Numismatics), XVII, *b* 657
—— of Evreux, king of Navarre (Spain), XXII, a 339
PHILIP I. the Handsome, Spain, XVIII, a b 757; (Germany), X, b 445; (Holland), XII, *b* 76; (Spain), XXII, *b* 341, *a* 342; (York), XXIV, b 791
PHILIP, II., Spain, XVIII, b 757-60; (Perez), b 535, a 536; (Philippines), a b 767; (Alva), I, b 569, a 570; (Armada), II, b 476-7; (Camoens), IV, b 662; (Cervantes), V, *b* 303, a *b* 304, *a* b 305; (Cheke), a 396; (Cid), b 676; (Concordat), VI, b 215, a 216; (Egmont), VII, a *b* 606; (England), VIII, a b 305; (Escorial), a *b* 477; (Farnese, A.), IX, a b 34, a 35; (France), a b 493, a 494, a *b* 497; (Granvella), XI, b 46, a 47; (Holland), XII, a b 77, a b 78, a b 79, a 81; (John, Don), XIII, *b* 727, *a* *b* 728; (Mary I.), XV, b 600-1; (Navy), XVII, b 289; (Plantin), XIX, b 187; (Portugal), a b 562, a 563; (Press Laws), b 733; (Scotland), XXI, b 527; (Spain), XXII, b 343-4, b 360; (Trent, Council of), XXIII, b 583, a 584; (Titian), a b 442, a 444; (Torture), b 492-3; (William the Silent), XXIV, *b* 614, b 615; *History of* (Prescott), XIX, a 723
PHILIP III., Spain, XVIII, b 758, b 759, a 760; (Medici), XV, a 802; (Quevedo Villegas), XX, a 185; (Spain), XXII, a b 344-5
PHILIP IV., Spain, XVIII, a 760; (Olivarez), XVII, b 782; (Rubens), XXI, *a* 50; (Spain), XXII, b 345-7; (Velazquez), XXIV, *a* b 145, a 146, note, a b 147; (Zurbaran), a 869; portrait of (Schools of Painting), XXI, b 456, b 459
PHILIP V., Spain, XVIII, a 760; (Alberoni), I, *b* 398; (Beard), III, b 400; (Berwick), a 527; (Bourbon), IV, *a* 158; (Farinelli), IX, b 31; (Farnese, Elizabeth), b 35; (Italy), XIII, b 494; (Spain), XXII, b 349-53, a 355
PHILIP of Swabia, emperor, XVIII, a b 760; (Otho IV.), b 70
—— of Poitiers, prince (Franche Comté), IX, b 605
PHILIP I. the Bold, duke of Burgundy, XVIII, a 760; (Burgundy), IV, a 479; (Christine de Pisan), V, a 611; (France), IX, a 484
—— II. the Good, duke (Burgundy), IV, a 479; (Chastelain), V, b 377; (Frisians), IX, a 692; (Henry VI., England), XI, *b* 589; (Holland), XII, b 75-6; (Orleans), XVII, a b 876
—— the Bastard, Burgundy (Gossart), X, b 749, *a* b 750
——, Don, duke of Parma (Spain), XXII, a *b* 353, *a* 354
—— I., count (Savoy), XXI, a 356
——, count, Schaumburg (Lippe), XIV, a 690
—— the Magnanimous, landgrave of Hesse, XI, a 696; (Luther), XV, *a* *b* 81, b 82, a 83, b 84; (Reformation), XX, b 345, a *b* 346; (Universities), XXIII, a b 900
—— of Amphipolis, novelist (Romance), XX, a 652
—— of Thessalonica (Anthology), II, a b 92
—— Hohenstaufen, emperor (Germany), X, b 440
Philip Neri, St. See NERI
Philipon, Charles, satirist (Caricature), V, a 93
Philippa, queen, England (Costume), VI, b 413; (Froissart), IX, *b* 701, a 702; (Hainault), XI, a 336
—— de Santo Tomaso, nun (Stigmatization), XXII, b 577
Philippe de Thaun, poet (France), IX, b 566
Philippeville, town (Algiers), I, a *b* 498
——, town (Hainault), XI, a 336
PHILIPPI, city, XVIII, b 760; (Numismatics), XVII, a 657; (Paul), XVIII, b 429, a 430
PHILIPPIANS, *Epistle to the*, XVIII, b 760-2; (Colossians), VI, b 147; (Polycarp), XIX, a b 428, note, b 429
——, *Irenæus to the* (Apostolic Fathers), II, b 172
Philippics, orations (Demosthenes), VII, b 61, b 62
PHILIPPICUS or Philepicus, Bardanes, emperor of Constantinople, XVIII, a 762; (Justinian II.), XIII, b 807
PHILIPPINE ISLANDS (Plate XI), XVIII, a 762-7
  administration, b 766
  bibliography, b 767
  climate, b 763
  fauna and flora, a b 764
  geology and volcanic action, b 762-3
  history, a b 767
  inhabitants, b 766-7
  islands and provinces, a 765-6
  minerals, b 763
  physical features, a 762-4
  products and trade, b 764-5

—— (Asia), II, b 600; (Indian Archipelago), XII, *a* *b* 855, b 856, b 857; avifauna of (Birds), III, a 662; (Megapode), XV, a b 836 note; Dictionaries, VII, b 166
Philippists, party (Lutherans), XV, b 86

Philippium, element (Spectroscopy), XXII, a 391
PHILIPPOPOLIS, city, XVIII, b 767-8; (Paulicians), a 445
PHILIPPSBURG, town, XVIII, a 768
Philippsdorf, shrine (Georgswalde), X, b 394
Philippshall springs (Dürkheim), VII, a 487
Philipps's lamp (Gas-Lighting), X, b 912
Philippus, comedian (Aristophanes), II, b 446
PHILIPPUS, M. Julius, Roman emperor, XVIII, a 769; (Bozrah), IV, b 168
Philippus, oration (Isocrates), XIII, *a* b 403
—— de Diversis, historian (Vlachs), XXIV, b 289
PHILIPS, Ambrose, author, XVIII, a b 768; (Pastoral), b 352; (Pope), XIX, b 499
PHILIPS, JOHN, poet, XVIII, b 768-9
Philipse, Frederick, proprietor (Robinson), XX, a 910
Philip van Artevelde, drama (Taylor), XXIII, a b 99
Philip William of Orange, prince (Surgery), XXII, b 710; (William the Silent), XXIV, b 615
Philistia, plain (Palestine), XVIII, b 176, b 180; (Philistines), a b 769, note, a 770
PHILISTINES, race, XVIII, a 769-71; (David), VI, a b 736-9; (Israel), XIII, b 412-5; (Joel), *a* 716; (Palestine), XVIII, a 179, a b 180, a 182
Philistus, historian (Dion), VII, a 215; (Dionysius), *b* 215; (Phœnicia), XVIII, b 817; (Sicily), XXII, *b* 24
Phillimore, Sir John, sailor (Knighthood), XIV, a 126
——, Sir Robert Joseph, jurist, *b.* 1810, *d.* 1885 (Ecclesiastical Law), VII, b 543; (International Law), XIII, b 196, *b* 198, a 202, note, a 203
Phillip Island (Norfolk Is.), XVII, a 551; parrot (Birds) (Ill.), III, b 638
PHILLIP, John, painter, XVIII, b 771-2
Phillips, Edward, author (Milton), XVI, a 340, a 348, a 350
PHILLIPS, John, geologist, XVIII, a 772-3; (Geology), X, b 314, b 315, b 320
——, John, poet (Milton), XVI, a 340, a 345, a 350
PHILLIPS, Samuel, author, XVIII, a 773
PHILLIPS, Thomas, painter, XVIII, a b 773
——, Thomas, teacher (Chatterton), V, b 386
——, Wendell, orator, *b.* 1811, *d.* 1884 (American Literature), I, b 634
PHILLIPS, William, mineralogist, XVIII, b 773
—— Academy (Andover), II, a 19
Phillip's *Monthly Magazine* (Periodicals), XVIII, a 548
Phillipsite (Mineralogy) (Ill.), XVI, a 380, b 440-1
Philo, architect (Eleusis), VIII, a 121
PHILO Judæus, philosopher, XVIII, b 773-8
  biography, b 773
  creation, b 775
  God, doctrine of, a b 775
  editions of, b 777-8
  Hellenistic Judaism, b 773-4
  man, conceptions of, b 775-6
  Mosaic theories of, b 774
  spurious writings, b 777
  writings, a 776-7
—— (Alexandrian School), I, a 442; (Angel), II, a 27; (Balaam), III, a 224; (Canon), V, a 4, a b 6; (Circumcision), a 691; (Decalogue), VII, *a* 16; (Eve), VIII, a b 643; (Gnosticism), X, a b 625; (Gospels), *a* 731, a 732-3, a *b* 734, note, *a b* 737, a *b* 738, note, a b 739, notes, a *b* 740, notes, *b* 741, b 742, b 744, notes, *a* b 746, note; (Hebrews), XI, a 541; (Hermeneutics), b 664-5; (Inspiration), XIII, b 161; (Jesus Christ), a 669; (Logos), XIV, b 812, *a b* 813, *a* 814; (Messiah), XVI, b 60; (Monachism), a 725; (Moses), a 888; (Mysticism), XVII, b 137-8; (Neoplatonism), *a b* 344; (Paul), XVIII, a 434, b 436 note, a 437 note; (Prophet), XIX, b 836, note
PHILO, Hellenist poet, XVIII, a 778
PHILO BYBLIUS, author, XVIII, a 778; (Philistines), a 770; (Phœnicia), b 815, a 816, a 823; (Cosmogony), VI, a b 395
PHILO of Byzantine, mathematician, XVIII, a 778
——, Quintus Publilius, consul (Rome), XX, a 765
Philocales, general (Sardis), XXI, a 325
Philocalia (Origen), XVII, a 865
Philocalus, Furius, engraver (Catacombs), V, b 180
Philochorus, writer (Euripides), VIII, a 595
Philocrates, peace of (Demosthenes), VII, a b 62
Philoctetes, archer (Lemnos), XIV, b 437
Philoctetes, play (Sophocles), XXII, a *b* 286, a 287
Philoctetes, statue of (Archæology), II, b 307
Philodemus, epigrammatist (Anthology), II, a 93
——, philosopher (Herculaneum), XI, *b* 648
Philodina, animalcule (Rotifera) (Ill.), XXI, *a* b 8, b 9, a *b* 10, a *b* 11, a 12
Philodoxius (Alberti), I, a 401; (Manutius), XV, b 521
PHILOLAUS of Crotona, philosopher, XVIII, a b 778; (Astronomy), II, a 653; (Boeckh), III, a 740
—— of Thebes, philosopher (Pythagoras), XX, *b* 144
Philologia Sacra (Glassius), X, a 601
Philological Mythology, XVII, b 144-8
—— Society (Dictionary), VII, a b 156, a b 157
Philologists (German Literature), X, b 485; (Greece), XI, b 136; (Russian Literature), XXI, a b 117
PHILOLOGY, XVIII, a 778-803
  COMPARATIVE STUDY OF ARYAN LANGUAGES, a 794-803
    analogical change, b 796-7
    Aryan groups, b 797
    Benfey, a b 795
    Bopp and Grimm, b 794-5
    genealogical system, a 799-800
    grammatical structure, a b 803
    historical sketch, a 794-7
    new school, a 796, a b 797
    phonetic change, a b 796
    phonology, b 800-2
    pitch, function of, b 802
    root and stress, a b 802
    Schleicher, b 795
  SCIENCE OF LANGUAGE, a 778-94
    African families, b 793-4
    American families, b 794
    anthropological relations, b 779-80
    Aryan family, b 791
    borrowing forms, a b 787
    brute speech, b 782-3
    Caucasian family, b 793
    change and growth, laws of, b 786-7
    classification, a 791-4
    culture and growth, a b 783
    development of Aryan forms, b 784-6
    dialect variation, b 789-90
    divisions, a 778-9
    Dravidian, a 793
    families of speech, b 790
    Hamitic family, b 791-2
    imitation, b 781
    individual influences, a b 789
    isolating languages, b 787
    language, conventional, b 781-2
    nature of, a b 779
    Oceanic families, a b 793
    origin and instrumentalities, b 780-1
    phonetic forms, character of early, a b 784
    recapitulation, b 790-1
    remnants of languages in Europe, b 793
    root stage, b 783
    Semitic family, b 791
PHILOLOGY, *continued*
  SCIENCE OF LANGUAGE
    Southeastern Asiatic families, b 792
    structural methods, a b 788
    unity of origin, b 788-9
    Ural-Altaic family, b 792-3
—— (Diez), VII, a 186; (Ethnology), VIII, a b 546; (Europe), a 613-6; (Finland), IX, b 190, a 191; (Folk-Lore), a 313; (Formosa), a 367; (France), b 593; (Frisians), b 692-3; (Gaelic), X, b 7; (Gipsies), b 547-9, a b 551; (Humboldt, W.), XII, a 360; (Hupfeld), a 415; (Hungary), b 389, b 395; (Hyde, T.), b 442-3; (Iceland), b 664-5; (Inscriptions), XIII, a 125; (Marsh), XV, a 581; (Mexico), XVI, a 215; (Micronesia), b 267; (Rask), XX, b 298-9; (Tibet), XXIII, a 369-70
——, African (Marsden), XV, a 578
——, classical (Boeckh), III, b 739; (Donaldson), VII, a 310; (Homer), XII, a b 118; (Wolf), XXIV, b 663; (Wyttenbach), a 750
——, comparative (Anthropology), II, a 104-6; (Long), XIV, a 867; (Persia), XVIII, a 665-8; (Sanskrit), XXI, a b 282; Aryan or Indo-European (Bopp), IV, a 44-5; (Greece), XI, a 113-17
——, German (Grimm), XI, b 178-9; (Lachmann), XIV, b 193
——, rise of English (Trench), XXIII, b 575
Philomela, myth (Nightingale), XVII, b 512
Philonexidæ, family (Mollusca), XVI, a 696
Philopatris (Lucian), XV, a b 44
PHILOPŒMEN, general, XVIII, a 803-5; (Greece), XI, a 97; (Polybius), XIX, *a* b 425, b 427
Philoprogenitiveness, organ of (Phrenology), XVIII, a 859
Philosophe school (Morellet), XVI, *a* 847
Philosophers (Germany), X, a 476, a b 478, a 483, *a* 484, a *b* 486-7; (Scotland), XXI, b 568; (Spain), XXII, b 373; Athenian (Justinian I.), XIII, a 806; Byzantine (Greece), XI, a 131; Greek (Diogenes Laertius), VII, b 214; (Greece), XI, a 126, a b 127, a 129; (Slavery), XXII, a b 139; modern (Greece), XI, a 136; Mohammedan (Theism), XXIII, a 261
——, *On the Opinions Accepted by the* (Plutarch), XIX, b 246
Philosopher's stone (Alchemy), I, a *b* 410, b 413; (Chemistry), V, a 398; (De Loutherbourg), VII, a 47; (Witchcraft), XXIV, b 654

Philosophia Botanica (Linnæus), XIV, a 680
Philosophic insight (Church History), V, b 666; poetry (Italy), XIII, b 511, b 512
——Radicals, party (Grote), XI, a 190, a 191
Philosophic writings of Cicero, V, a 675
Philosophical basis of Theism, XXIII, b 265
Philosophical Essays (Hume), XII, *b* 362
—— Institution (Edinburgh), VII, b 577; societies (Copenhagen), VI, a 306; Society of Great Britain (Societies), XXII, a 234
Philosophical System (Rosmini), XX, a b 876
—— *Transactions* (Ivory, James), XIII, a 535; (Mechanics), XV, b 757; (Royal Society), XX, a b 44
—— Zoology, XXIV, b 842
Philosophie, Histoire Comparée der Systems de (De Gerando), VII, b 29-30
——, *Historische Entwickelung der Spekulativen* (Chalybäus), V, a 329
——, *System der* (Lotze), XV, b 15
——, *Traité de* (Buchez), IV, b 372, a 373
—— *Anatomique*, Lamarck (Geoffroy Saint Hilaire), X, a 156; (Morphology), XVI, a 866
—— *Positive* (Political Economy), XIX, b 403-4, a b 405
—— *und Religion* (Schelling), XXI, b 407, a 410
—— *Zoologique* (Lamarck), XIV, *a* 233
Philosophumena Hippolytus), XI, a 763
PHILOSOPHY, XVIII, a 805-10
  historical use of the term, a 805-6
  logic, æsthetics, and ethics, b 808-9
  politics, sociology, and history, b 809
  psychology, epistemology, and metaphysic, a 807-8
  science, relation to, a 806-7
—— (Abelard), I, a b 39; (American Literature), b 639; (Anthropomorphism), II, b 109; (Bacon, F.), III, a 182-3; (Berkeley), b 508-11; (Bruno, G.), IV, a 359-60; (Campanella), b 604-5; (Cartesianism), V, b 121-40; (Category), b 193-7; (Clemens Alexandrinus), a b 717; (Condillac), VI, b 221-4; (Condorcet), b 226-7; (Confucius), a 234-5; (Cousin), b 465-7; (Cudworth), a 609-11; (De Gérando), VII, b 29-30; (Des Cartes), a 106-7; (Duns Scotus), a 471; (English Literature), VIII, a 365, b 384-5; (Erigena), a b 463; (Evolution), a 658-76; (Fauriel), IX, a 48; (Feuerbach), a b 108; (France), a 581-3, a 588-9; (Gioberti), X, a 541; (Gioja), a b 541; (Hamilton, Sir W.), XI, a 373-6; (Hegel), a 531-4; (Helvetius), b 573; (Herbart), a 642; (Hobbes), XII, b 41-2; (Hooker), b 155-6; (Horace), b 166-7; (Hume), a 365-9; (Hutcheson), a 426-7
—— (Jouffroy), XIII, a b 764; (Kant), a 857-64; (Leibnitz), XIV, a 421-4; (Lewes), a b 491-2; (Locke), b 764-9; (Logic), b 787-8, a b 792, a 803-5, a 806, b 807; (Lotze), XV, b 15-7; (Malebranche), a 335; (Mansel), a 805; (Metaphysic), XVI, a 85, b 93, a 104, a 106; (Mill, James), a 320; (Mill, J. S.), a 322-5; (Molière), a 647; (Mysticism), XVII, a 136-42; (Pessimism), XVIII, b 698-704; (Reid, T.), XX, a b 363-5; (Reinhold), b 366; (Renaissance), a 398; (Rosmini), a b 876; (Royer-Collard), XXI, a 46; (Schelling), b 408-10; (Schleiermacher), a 429-30; (Scholasticism), a 435-49; (Schopenhauer), b 476-9; (Spinoza), XXII, b 416-9; (Stewart, D.), b 574-5; (Theism), XXIII, b 262, b 263-4; (Wolff), XXIV, a 665-6
Philosophy, American Journal of Speculative (Hegel), XI, *b* 554
PHILOSOPHY ARABIAN, II, b 232-7; (Al-Gazali), I, b 450; (Averroes), III, a 132; (Mohammedanism), XVI, a b 518, b 615
——, Greek (Alchemy), I, b 407-8; (Aristotle), II, b 453-60; (Eleatic School), VIII, a 3; (Empedocles), a b 164; (Epicurus), b 420-2; (Homer), XII, a b 118; (Iamblichus), b 637-8; (Lucian), XV, b 44, a 45, b 46; (Neoplatonism), XVII, b 341-8; (Parmenides), XVIII, b 320-3; (Peripatetics), a 556-8; (Plato), XIX, b 222-3; (Pythagoras), XX, b 144-6; (Socrates), XXII, a 249-51; (Sophists), a b 281, b 282; (Speusippus), a 411-2; (Stoics), b 589-602; (Thales), XXIII, b 235-7; (Xenocrates), XXIV, b 754-5; (Xenophanes), a 755-6; (Zeno), a 817-8
——, Hindu (Brahmanism), IV, a b 186; (Buddhism), a 383 note, b 387-9; (Category), V, b 193-4; (Evolution), VIII, a b 661; (Sanskrit), XXI, b 302-6; (Vedanta) XXIV, a 128-31
——, Histories of (Ast), II, b 642; (Brucker), IV, *b* 354-5; (Buhle), a 399; (Buonafede), b 474; (Butler, W. A.), b 525; (Cousin), VI, a 467; (De Gérando), VII, b 29-30; (Hegel), XI, a 550, b 553, b 554; (Ueberweg), XXIII, a 764
—— *of History*, XVIII, b 809-10; (Age), I, a 249; (Buchez), IV, b 372; (Comte), VI, a b 210; (Hegel), XI, a b 550, b 553, a 554; (Robertson), XX, a 616; (Saint Simon), XXI, a 208
—— *of Nature*, Hegel (Metaphysic), XVI, a 107
—— of religion (Lotze), XV, a 16; (Theology), XXIII, a 292-3
—— *of Religion* (Hegel), XI, a *b* 550, b 553, a 554
—— *of Right* (Hegel), XI, a 550, *b* 553
—— *of Spirit*, Hegel's (Metaphysic, XVI, a 107
—— and Theology, XXIII, a 289-91; (Dogmatic), VII, a b 295
Philosophy and Theology, Müller (Averroes), III, a 132
—— *of the Unconditioned* (Hamilton, Sir W.), XI, a 372
—— *of the Unconscious*, Hartmann (Pessimism), XVIII, b 698, b 702
——, works on Shakespeare's, XXI, a b 806
Philostorgius, Arian historian (Church History), V, a 668; (Socrates), XXII, b 251
PHILOSTRATUS, sophist, XVIII, a 810-1; (Apollonius Tyanæus), II, a *b* 165; (Enamel), VIII, b 167; (Romance), XX, b 653
—— the Lemnian, XVIII, a 811, note
——, Flavius, biographer, V, a 235; (Gunpowder), XI, b 282-3
Philotas (Alexander the Great), I, a 426, a b 427
PHILOXENUS, poet, XVIII, a b 811; (Sicily), XXII, b 24
—— of Mabbōgh, bishop (Syriac Literature), XXII, a 865, b 872-3
—— of Nisibis, bishop (Syriac Literature), XXII, a 889, a 890
Philpott, John, archdeacon (Baptists), III, b 305
Philpotts, Henry, bishop of Exeter (Convocation), VI, a 292; (Torquay), XXIII, b 480
Philtres (Lucretius), XV, b 52-3; (Mandrake), a 484
Phineus, blind king (Argonauts), II, a 437; (Harpies), XI, *a* 439
Phintias, city. See ALICATA
——, king of Akragas (Sicily), XXII, b 25
Phipps, Constantine Henry. See NORMANBY, Marquis of
——, Constantine John, lord Mulgrave (Geography), X, a b 170; (Polar Regions), XIX, a 331
——, James, physician (Jenner), XIII, a b 634
——, Sir William (Massachusetts), XV, a *b* 622; (Quebec), XX, a 176
Phlæomyinæ, sub-family (Mammalia), XV, a 424
Phlebitis, disease (Surgery), XXII, a 719
Phlegmon, disease (Pathology), XVIII, a b 408, b 410
PHLEGON, chronicler, XVIII, b 811
Phlegræan Fields (Italy), XIII, b 452
Phlipon, Marion Jeanne. See ROLAND
Phlium, promontory (Scio), XXI, b 487
Phlius, city (Hebe), XI, a 530
Phlobaphen (Hops), XII, b 161; (Tannin), XXIII, a 53
Phloëm layers (Botany) (Ill), IV, *b* 82-3, a 89, b 90, a 95; (Histology), XII, *b* 20, a 21
Phlogiston (Alchemy), I, b 412, a 413; (Becher), III, b 412; (Black), a 690; (Cavendish), V, a 237; (Chemistry), a b 399, a b 400, a b 401, a 402; (Guyton de Morveau), XI, a b 301; (Lavoisier), XIV, a 354; (Phosphorus), XVIII, b 827; (Priestley), XIX, *b* 751
Phlogopite (Mineralogy), XVI, b 430
Phlomis, plants (Horticulture), XII, b 259
Phlorol (Tar), XXIII, a 63
PHLOX, plant, XVIII, b 811; (Horticulture), XII, b 255, b 266-7
Phlyctenular ophthalmia, disease (Ophthalmology), XVII, a 803
Phobos, moon (Telescopic Work), XXIII, a 936; (Tides), a 405
Phoca, genus (Greenland), XI, a 151; (Mammalia), XV, b 450; (Seal) (Ill.), XXI, *b* 607, a 608, *b* 609
PHOCÆA, city, XVIII, b 811-2; (Ionia), XIII, a 211; coins of (Numismatics), XVII, a b 402
Phocæna, genus (Mammalia), XV, a b 402; (Porpoise) (Ill.), XIX, a 536
Phocæans, race (Carthage), V, b 140; (Corsica), VI, b 389; (Spain), XXII, a b 319
Phocais (Homer), XII, b 112
PHOCAS, Eastern emperor, XVIII, a 812; (Boniface III. and IV.), IV, b 30; (Persia), XVIII, a b 625; (Popedom), XIX, a b 508. See Nicephorus
—— of Patmos, monk (Carmelites), V, a 103
—— bar Sergius, author (Syriac Literature), XXII, b 875
PHOCION, statesman, XVIII, a 812-4; (Persia), a 592, note
PHOCIS, district, XVIII, a 814-5; (Demosthenes), VII, a b 62; (Greece), XI, b 93; (Numismatics), XVII, b 658; war with (Amphictyony), I, b 678
Phœbias, town. See REGGIO DI CALABRIA
PHŒBUS, epithet, XVIII, a 815; (Apollo), II, a 162
Phœnice, district (Lebanon), XIV, b 394; (Syria), XXII, a 862
——, town (Epirus), VIII, a 429
PHŒNICIA, country, XVIII, a 815-23
  art, a b 823
  authorities, a b 823
  constitution, a 822
  historical fragments, a 820-2
  manufactures and inventions, b 817
  navigation and colonies, a 818-20
  origin of Phœnicians, b 816-7
  Persian rule, a 822
  physical features, a 815
  race and language, a b 815
  religion, b 815-6

Phœnicia (Archæology), II, *a* b 303; (Commerce) VI, b 176-7; (Cosmogony), a b 395; (Etruria), VIII, a b 562, *a* 564; (Numismatics), XVII, b 646, *a* 647, b 661, a b 667, b 668, *b* 677; (Palestine), XVIII, a 181; (Persia), b 580, b 581, b 582-3, b 591, a 593; (Pottery and Porcelain) (Ill.), XIX, a 623-9; (Temple), XXIII, a *b* 182, a 183; (Weights and Measures), XXIV, *a* 509
Phœnician Alphabet, I, a 528, a 529, a 534-5, *a* 538; (Greece), XI, a b 82; (Hieroglyphics), a b 722; (Inscriptions), XIII, a b 122; (S), XXI, a b 128; (U), XXIII, a 762
—— colonies (Libya), XIV, b 554; (Spain), XXII, a 319, a b 320
—— cults, XVIII, b 815-6; (Greece), XI, b 82, b 86; (Mövers), XVII, a 13
Phœnician History (Philo Byblius), XVIII, a 778
—— language, XVIII, a b 815; (Dictionary), VII, b 164; (Hebrew Language), XI, a 533; (Semitic Languages), XXI, *a* 673, b 675, *a b* 676, b 678-9
Phœnicians (Africa), I, b 219; (Cadmus), IV, a 559; (Canaan), b 673-4; (Canaanites), a b 675; (Carthage), V, a 140; (Circumcision), b 690, a 691; (Corinth), VI, b 352; (Cyprus), b 660; (Egypt), VII, b 638, a b 639, a b 644; (Eubœa), VIII, b 569-60; (Festivals), IX, a 100; (Gems), X, a *b* 123; (Geography), a b 157; (Glass), b 576, a b 577; (Gythium), XI, a 317; (Malta), XV, *a* b 344; (Marseilles), b 579, b 580; (Minos), XVI, b 500-1; (Numerals), XVII, a b 640; (Olive), *a* 785; (Pilgrimage), XIX, a 100; (Plate) (Ill.), b 189-90; (Semitic Languages), XXI, a 674; (Ship), b 841, a b 842; (Shipping), *a* 865; (Sicily), XXII, *a b* 20, a b 21, a 22, a 23-4; (Textiles), XXIII, a 225
Phœnico-chroite (Mineralogy), XVI, b 419-a 420
Phœnicopterus, genus (Birds), III, *b* 617; (Flamingo), IX, b 249, *b* 250, note
Phœnissæ, drama (Euripides), VIII, a 594
——, drama (Phrynichus), XVIII, a 868
PHŒNIX, myth, XVIII, b 823-4; (Egypt), VII, b 620
——, palm (Horticulture), XII, b 276
——, sobriquet (Pico), XIX, b 89
Phœnix Artis Memoriæ (Mnemonics), XVI, b 556
Phœnix conspiracy (Ireland), XIII, a b 277
—— Park (Dublin), VII, b 429, b 432
PHŒNIXVILLE, town, XVIII, b 824
Phœnorrhina goliath, bird (Pigeon), XIX, b 93
Pholadacea, family (Mollusca), XVI, a 711
Pholas, genus (Mollusca), XVI, a 711, a 713; (Phosphorescence), XVIII, b 826; (Teredo), XXIII, b 201, a 202
Pholidotus, genus (Mammalia), XV, a 392
Pholoe, mountain (Elis), VIII, a 130
Phonautograph (Acoustics), I, a 103
Phonetic characters (China), V, b 568, a b 569; (Hieroglyphics), XI, b 709-10; earliest (Philology), XVIII a 784
Phonetic Journal (Shorthand), XXI, b 877
PHONETICS, XVIII, b 824-5; (English Language), VIII, a 354; Gothic, X, *a* b 758; Greek, XI, b 115-7; (Iceland), XII, a 664; (Latin Language), XIV, b 327-8; (Philology), XVIII, a b 786, a 787, a 788, a 796, b 800; Romance (Latin Language), XIV, a b 341; (Romance Languages), XX, a 679-81, b 682, a b 683, a b 684, b 685-6; (Sanskrit), XXI, a 283, b 287, a 290; (Speech-Sounds), XXII, a 396-405; of Zulu Kaffres (Kaffraria), XIII, b 829; Zend (Persia), XVIII, b 665, a b 666, a 667. See Phonology
Phonetism (Alphabet), I, a 529, a 530, *b* 533
Phonograph (Telephone) (Ill.), XXIII, b 140, a b 146, a 931 note
Phonography (Shorthand), XXI, b 875, a 877-80, b 881
Phonolite, mineral (Geology), X, b 209
Phonology (France), IX, a 556-8; (Grammar), XI, *b* 34; (Grimm), b 178-9; (Provençal Language), XIX, b 896; of Aryan languages (Philology), XVIII, b 800-2. See PHONETICS
Phonoplex telegraphy (Telegraph), XXIII, a 930
Phonotypy (Phonetics), XVIII, a 825
Phonygama, genus (Manucode), XV, *a* 512
Phoranthium, receptacle (Botany), IV, b 108
Phorminx, musical instrument (Lyre) (Ill.), XV, a b 115
Phormio, philosopher (Peripatetics), XVIII, a 557
PHORMIUM, plant, XVIII, b 825-6
Phoronis (Hellanicus), XI, a 566
Phoronis, genus (Mollusca), XVI, a 655; (Polyzoa) (Ill.), XIX, a 445, a 446, *a* b 447, a 448-9, *a* 454, *b* 455
Phorozooids of doliolum (Tunicata), XXIII, b 654
Phorus, genus (Mollusca) (Ill.), XVI, a 673, a 674
Phosgene gas (Carbon), V, a 78
Phosgenes, luminous impressions (Eye), VIII, a 719
Phosgenite (Mineralogy), XVI, a 416
Phosphates (Agriculture), I, a b 310; (Dietetics), VII, b 177; (Guano), XI, a b 207, a b 208; (Manure), XV, a 519; (Phosphorus), XVIII, b 830-2; anhydrous (Mineralogy), XVI, b 420-1; hydrous (Mineralogy), a 421-4; nerve (Physiology), XIX, a 32; rock (Charleston), V, a b 371; (Agriculture), I, a 310, b 338; (Coprolites), VI, a b 313-4; (South Carolina), XXII, a 302; sub-marine (Geology), X, b 257
Phosphatic calculus (Mollusca), XVI, a 704; (Vesical Diseases), XXIV, a b 205
—— object-glasses (Telescope), XXIII, a b 155
Phosphides (Chemistry), V, b 414, a b 447
Phosphines (Chemistry), V, a b 447, a 501; (Phosphorus), XVIII, a b 830
Phosphites (Chemistry), V, b 448
Phosphor-Bronze, IV, b 330; (Copper), VI, b 311; (Iron), XIII, a 290; (Metals), XVI, a 75; (Phosphorus), XVIII, a 830; (Wire), XXIV, a 648
PHOSPHORESCENCE, XVIII, a 826-7; (Actinozoa), I, b 122; (Annelida), II, a 64; (Fungus), IX, b 728; (Light), XIV, b 583, a 590, b 607-8; (Mineralogy), XVI, b 390; (Phosphorus), XVIII, b 829; (Protozoa), XIX, b 885, b 886; (Tunicata), XXIII, b 657; plant (Physiology), XIX, b 63
Phosphorescent organs (Ichthyology), XII, b 722
Phosphoric acid (Chemistry), V, b 446, b 448, b 450; (Manure), XV, a b 516, *a b* 517, *b* 518, a 519; (Molybdenum), XVI, b 723; (Phosphorus), XVIII, a 831, b 832
—— anhydride (Chemistry), V, a 448, a 450
Phosphorists, school (Hammarsköld), XI, b 379; (Sweden), XXII, a b 795
Phosphorite (Mineralogy), XVI, b 390; (Phosphorus), XVIII, a 831
Phosphorochalcite (Mineralogy) (Ill.), XVI, b 423
Phosphoroscope (Light), XIV, b 607
Phosphorous acid (Chemistry), V, b 446, *b* 447, a b 448, b 450; (Wurtz), XXIV, b 739
PHOSPHORUS and PHOSPHATES, XVIII, b 827-32
  alkaline phosphates, a b 832
  analysis, b 832
  characteristics of, a b 829
  detection of, b 829
  discovery, b 827-8
  hydrogens, phosphuretted, a b 830
  manufacture, a 828-9
  phosphates, b 830-2
  phosphor-bronze, a 830
  red and metallic, b 829
—— (Coal), VI, b 74; (Fuel), IX, a 709, b 710; (Homberg), XII, b 110; (Insects), XIII, b 149; (Iron), a 287, a b 289, a b 295, b 302-3; (Matches), XV, b 631, a b 632-3; in analysis (Iron), XIII, a b 295, a 296; anhydride (Chemistry), V, a 448, a 450; and compounds (Chemistry), a 446-50; constitution of compounds (Chemistry), a b 450; effect on tensile strength (Iron), XIII, *b* 363, a 365; elimination of (Iron), b 298, a 329, a b 334-5, a b 355, a b 356; elimination in Ponsard furnace (Iron), b 359; plant absorption of (Physiology), XIX, b 55-6; poisoning, a 290; (Pathology), XVIII, a 395, a 396, b 398, b 417; quantitative analysis (Chemistry), V, a 474
Phosphuretted hydrogen (Phosphorus), XVIII, a b 830
PHOTIUS, patriarch, XVIII, b 832-4; (Adrian II.), I, b 150; (Clemens Alexandrinus), V, *a b* 716, a b 717; (Greece), XI, a 131; (Greek Church), b 139; (Marinus I.), XV, a 553; (Nicholas I.), XVII, b 496; (Phlegon), XVIII, b 811; (Romance), XX, a *b* 650, a 652
Photo-collotype, charting (Surveying), XXII, b 753-4
Photo-engraving (Photography), XVIII, a b 847
Photographic astronomy (Telescopic Work), XXIII, b 932-3, a 936
—— Barometers, III, a 331
—— instrument mounting (Telescope), XXIII, b 161
—— lenses XVIII, b 853; (Optics), XVII, a 828, a b 829
—— mapping (Surveying), XXII, a b 751, b 753-4
—— object-glasses (Telescope), XXIII, a 154, b 155
—— printing, charts (Surveying), XXII, b 752-3
Photographs for book illustration (Typography), XXIII, a 750
——, lunar (Astronomy), II, a 701; solar (Astronomy), b 690-1; (Parallax), XVIII, b 252-3; (Sun), XXII, a b 682, a 683
PHOTOGRAPHY (Ill.), XVIII, a 834-54
  albumen process on glass a b 837
  camera, b 853-4
  carbon prints, b 844-5
  chromate printing, b 844
  collodion dry plates, b 838-40
  collodion emulsion processes, b 840-1
  collodion process, b 837-8
  daguerreotype, a b 836
  developers, dry-plate, a b 839-40
  discoveries, preliminary, a 834-5
  dry-plate bath process, a b 840

PHOTOGRAPHY, *continued*
  gelatin emulsion process, b 841-3
  iron salts printing, b 845
  Niepce, a 835-6
  PHOTO-LITHOGRAPHY, b 846-53
    colors, photographs in natural, b 847
    dyes on sensitive films, a b 851
    engravings and reliefs, a b 847
    light, action on silver salts, a b 848
    paper, preparation of, b 846-7
    spectrum effects on chromic, iron and uranium salts, and on asphaltum, b 851-2
    spectrum effects on silver salts, a 848-51
    table of light effects on various substances, b 852-3
  photo-mechanical printing, b 845
  printing, a 843-6
  restrainer in alkaline developers, b 839-40
  silver-chloride printing, a 844
  Talbot process, a 837, a 843-4
  uranium salts printing, a b 844
  Woodburytype, a b 846
—— (Chemistry), V, a 439, b 458; (Claudet), a 712; (Gelatin), X, a 120; (Herschel), XI, b 687; (Micrometer), XVI, a 265; (Microscope), a b 281; (Niepce), XVII, a 509; (Radiation), XX, *b* 220; (Spectroscopy), XXII, b 388; (Talbot), XXIII, a 32; binocular (Stereoscope), XXII, b 566-7
Photogravure (Surveying), XXII, a 754
Photo-Lithography, XIV, b 705; (Photography), XVIII, b 846-7; (Surveying), XXII, b 753
Photo-mechanical chart printing (Surveying), XXII, b 753-4
Photometer (Gas and Gas-Lighting), X, b 90
PHOTOMETRY, celestial, XVIII, a 854-6; (Light), XIV, b 587-8; (Wave Theory), XXIV, b 444-5; (Zodiacal Light), a 836; lunar (Astronomy), II, b 701; of planets, a 709; of solar system, a 709; stellar, b 715
Photophone (Telephone) (Ill.), XXIII, b 140, b 145, a 930 note
Photo-reliefs (Photography), XVIII, b 847
Photosphere (Sun), XXII, *a b* 679, b 683
Photo-typography, charting (Surveying), XXII, b 753
Photo-zincography, charting (Surveying), XXII, a 753
Phoxichilus (Arachnida), II, *a* 243
Phraaspa, siege of, 36 B.C. (Persia), XVIII, a 609
Phraates I., Parthia (Persia), XVIII, a 601
—— II., Parthia (Persia), XVIII, a b 605
—— III., Parthia (Persia), XVIII, a 603, b 606
—— IV., Parthia (Persia), XVIII, a 609, a b 611
—— V., Parthia (Persia), XVIII, b 611
Phrabat, Mount (Siam), XXI, b 890
Phragmites, plants (Grasses), XI, a 50, a b 53; (Reed), XX, a 332
Phrantzes, Georgius, historian (Byzantine Historians), IV, b 545
Phraortes, Median king (Persia), XVIII, b 573, b 574
——, pretender (Persia), XVIII, b 580, a 581; (Darius I.), VI, b 726
Phrasius, seer (Busiris), IV, b 513
Phratria, clan (Greece), XI, a 87
Phratry, group of clans (Totemism), XXIII, a b 502
Phreatothrix, genus (Worm) (Ill.), XXIV, a 717, a 718
Phrenic arteries (Anatomy), I, *b* 793; nerve (Anatomy), a 762; (Respiration), XX, b 494
PHRENOLOGY, XVIII, b 856-63
  anatomical relations of, a 860-1
  Arabian and European physicians, a 857-8
  faculties localized, b 858-60
  Gall's school, a b 858
  Greek notions, b 856-7
  literature of, a b 863
  physiological aspects of, b 861-2
  practical warnings, a 863
  psychological aspects of, a 862
—— (Anatomy), I, a b 772; (Combe), VI, a b 160-1; (Gall), X, a b 34; scientific (Surgery), XXII, b 724
Phrixus, legend of (Argonauts), II, a 437
PHRYGIA, country, XVIII, 863-7
  ancient kingdom, b 863-5
  art relations of, b 864-5
  boundaries and divisions, b 866
  fall of the monarchy, b 865
  language, b 867
  monuments, b 864, b 865
  people, origin of, b 863
  Persian, Greek and Roman occupation of, a 866
  physical features, a 867
  religious history of, a b 867
—— (Cybele), VI, a 657; (Embroidery), VIII, a 148; (Festivals), IX, b 100; (Greece), XI, b 81-2, a 83; (Midas), XVI, a 290; (Mithradates), b 553; (Montanism), a b 801-2; (Mysteries), XVII, b 133, b 135-6; (Numismatics), XVII, b 665-6; (Religion), XX, b 373
Phrygian marble (Rome), XX, a 826
Phrygia Paroreios, district (Asia Minor), II, a 617
Phrygilus, genus (Birds), III, a 647
PHRYNE, courtesan, XVIII, a 868; (Apelles), II, a 149; (Archæology), b 315
PHRYNICHUS, general, XVIII, a 869
PHRYNICHUS, comic poet, XVIII, b 868
PHRYNICHUS, tragic poet, XVIII, a b 868; (Greece), XI, a 125
PHRYNICHUS ARABIUS, grammarian, XVIII, b 868-9; (Glass), X, a 612; (Gospels), b 713, note
Phrynides, family (Arachnida) (Ill.), II, *b* 251, b 252, *b* 253-5, b 258
Phrynon, Greek general (Pittacus), XIX, b 159
Phrynosoma, genus (Lizard), XIV, a 742
Phryxus, genus (Crustacea) (Ill.), VI, a 572
Phtha, god. See Ptah, also HEPHAESTUS
PHTHALIC ACID, XVIII, a 869; (Chemistry), V, b 495
Phthaleins (Phthalic Acid), XVIII, a 869
Phthiotis, district (Thessaly), XXIII, a 320
Phthiriasis, disease (Louse), XV, a 26; (Skin Diseases), XXII, b 131
Phthirius pubis, insect (Louse), XV, b 26
PHTHISIS, malady, XVIII, a 869-72
  causes of, a b 870
  pathology of, b 869
  progress and symptoms, b 870-1
  therapeutics in, b 871-2
—— Consumption, VII, a 180; (Dyspepsia), a 507; (Egypt), b 609, b 610; (Hospital), XII, *b* 316, a 317; (Insanity), XIII, b 107-8, a 115; (Iron, Therapeutics of), a 370; (Maine), XV, b 301; (Murrain), XVII, a 67; (Pathology), XVIII, b 415, a b 416
Phukok or Kotran, island (Cambodia), IV, b 641
Phu-tua-tien or Hué, city XII, a 347; (Cochin China), VI, a 86, b 87, b 88; (Tong-King), XXIII, a 470
Phycochrome, color (Lichens), XIV, a 562. See Chlorphyll
Phycoerythin, color (Physiology), XIX, b 59
Phycomycetes, order (Fungus), IX, b 726, a 728, a 729-30; (Vegetable Kingdom), XXIV, *a* b 139
Phycoxanthin, coloring matter (Physiology), XIX, b 59
Phygmalion, king (Phœnicia), XVIII, b 820
PHYLACTERY, XIX, a 5; (Amulet), I, b 685
Phylactolæma, order (Polyzoa) (Ill.), XIX, *a b* 446, a 447, a 448, a b 451, a 454
Phylla or sepals (Botany), IV, b 118
Phyllacanthinæ, sub-family (Tape-Worms), XXIII, b 59
Phyllaries, involucre (Botany) (Ill.), IV, a 108
Phyllidiobranchia, sub-order (Mollusca), XVI, b 668, b 679
Phyllirhoē, genus (Mollusca) (Ill.), XVI, a 657, a b 680; (Phosphorescence), XVIII, b 826
Phyllirhoidæ, family (Mollusca), XVI, a 680
Phyllobothrinæ, sub-family (Tape-Worms) (Ill.), XXIII, a b 59
Phyllocactus, group (Cactus), IV, b 555, a 556; (Horticulture), XII, a 275
Phyllodei, series (Lichens), XIV, b 564-5
Phyllodes, family (Coleoptera) (Ill.), VI, b 117
Phyllodium (Botany) (Ill.), IV, b 101, a 102
Phylloglossum, order (Ferns), IX, a 94; (Vegetable Kingdom), XXIV, *b* 141, a 142
Phyllome, leaf structure (Botany), IV, b 96
Phyllophaga, group (Mammalia), XV, a 387
Phyllophor or phyllogen, bud (Botany), IV, b 93
Phyllophytes, plants (Botany), IV, b 81
Phyllopoda, order (Crustacea) (Ill.), VI, *a* 575, a 579, b 586-7, b 589; (Sex), XXI, b 756-7
Phyllopteryx, genus (Hippocampus) (Ill.), XI, a 761; (Sea-Horse), XXI, b 606
Phyllorhina, genus of bats (Mammalia) (Ill.), XV, a 413, a 417
Phyllorhininæ, sub-family (Mammalia), XV, a b 411
Phyllornithidæ, family (Birds), III, b 659
Phylloscopus, genus (Wren), XXIV, a 724
Phyllosticta, genus of fungus (Vine), XXIV, b 258
Phyllosoma, genus (Crustacea), VI, a 570, note
Phyllostomidæ, family (Mammalia), XV, *a* b 411, b 414, b 418-20
Phyllostominæ, sub-family (Mammalia), XV, a 419-20
Phyllotaxis, arrangement (Botany) (Ill.), IV, b 103-6, b 107; (Morphology), XVI, b 865, b 872
Phylloxera, pest (Hemiptera), XI, a 577; (Horticulture), XII, b 288; (Insects), XIII, a 148, a 160; (Irrigation), a 380; (Portugal), XIX, a 553; (Vine), XXIV, a 255, b 256-8, a 259; (Wine), *b* 636, a 637, *a* b 639, b 640, a 641, b 644
Phyllurus platurus, species (Gecko) (Ill.), X, b 113
Phylogeny (Biology), III, a 597, a 599; (Hydrozoa), XII, b 585; (Trematoda), XXIII, b 574-5; (Tunicata) (Ill.), a b 658; of Algæ (Vegetable Kingdom), XXIV, b 138-9; of fungi, b 139-40; of gymnospermæ, b 142-3; of mosses and liverworts, a b 140; of pteridophyta, b 141-2

Physalia, genus (Hydrozoa), XII, a 598, a 599
Physalidæ, family (Hydrozoa), XII, a 598
Physalospora, fungus (Vine), XXIV, b 258
Physarea, family (Protozoa), XIX, a 863
Physcia, genus (Lichens) (Ill.), XIV, b 557, b 559, *b* 561, a 562, a b 565
Physems, sounds (Speech-Sounds), XXII, a 397
Physeter, genus (Mammalia), XV, a 376, a 397, a b 399; (Whale) (Ill.), XXIV, a 554
Physteridæ, family (Mammalia), XV, a 399-401
Physetoleic acid (Oils), XVII, b 761
Physharmonica (Harmonium), XI, b 432
Physical constants (Weber's Law), XXIV, b 497
—— determination of Parallax, XVIII, b 255-6
—— diagnosis (Medicine), XV, a 825
—— Geography, X, a 157, a 188-9; (Humboldt, A.), XII, b 357; (Johnson, A. K.), XIII, b 740; fossiliferous (Geology), X, b 284-5
—— *Geography* (Kant), XIII, a 855, b 856
—— *Geography of the Sea* (Geography), X, b 175; (Maury, M. F.), XV, b 649
—— isomerism (Chemistry), V, b 476
PHYSICAL SCIENCES, XIX, a 5-7. See Physics
—— Societies, XXII, b 236
—— theory of sensation (Psychology), XX, a 47, a 48
Physicians, Royal College of (Edinburgh), VII, a 577; (London), XIV, *a* 845
Physic nut, XVII, b 683, a 684
Physics (Analysis), I, a 698; (Aristotle), II, a 457, note; (Bacon), III, a b 184, *a* 185; (Descartes), VII, a 103, a 107-9; (Epicurus), VIII, a b 421; (Ethics), a 506; (Gassendi), X, a b 96-7; (Gay-Lussac), a 109-10; (Geissler), b 116; (Hegel), XI, a b 553; (Hobbes), XII, b 35-6, *a* 40, a 42; (Hooke), a b 153; (Hutchinson, J.), b 427; (Hutton), a 431; (Locke), XIV, b 758; (Mohammedanism), XVI, b 618; (Oken), XVII, a 772, b 773; (Parmenides), XVIII, b 320, b 321, a 322; (Socrates), XXII, b 248; (Stoics), b 591; of sunspots, cycle (Sun), a b 684; uses in, of Quaternions, XX, a *b* 170
Physics, Aristotle's, II, a 452, note; (Scholasticism), XXI, b 444
Physiocrats, school of economists (Mirabeau, V. R.), XVI, a 521; (Political Economy), XIX, b 371, b 372-4, a b 378, b 382; (Quesnay), XX, a 183; (Turgot), XXIII, b 668, a 670
Physiognomia et Hominis Procreatio (Scot), XXI, a 491
PHYSIOGNOMY, art, XIX, a 7-9
astrological period, a b 8
authorities, b 9
Greek classics on, a 7-8
Latin classics on, a 8
nature of, a 7, b 9
physiology of, a b 9
sixteenth century to date, b 8-9
—— (Lavater), XIV, a 352
Physiographical geology (Geology), X, b 190, a 329-33
Physiological action of Alcohol, I, b 416; of high altitudes (Aëronautics), a b 178, b 179; of Quinine, XX, a b 192; of Sleep, XXII, a 165-6; of Tea, XXIII, a b 108; of Tobacco, a b 455
—— aspect of Phrenology, XVIII, b 861-2
—— classification of birds (Ornithology), XVIII, a 35, a 50
—— optics (Light), XIV, a b 582-3
—— sensation (Psychology), XX, b 55-6, a 59 note
Physiologie, Handwörterbuch der (Wagner), XXIV, a 334
PHYSIOLOGUS, book, XIX, b 9-11
historical aspects, b 10
literature about, b 11
process of constructing, b 9-10
symbolism of, b 10-1
texts of, b 11
—— (Phœnix), XVIII, b 823; (Zoology), XXIV, b 838, *a* 839
PHYSIOLOGY (Ill.), XIX, 11-72
GENERAL VIEW, 11-26
anastates and katastates, b 22-4
cell theory, b 14-5
chemical changes, b 12-3
consciousness, b 24-5
definition, a 12
differentiation of ectoderm and endoderm, b 18-9
differentiation of protoplasm, b 17-8
endoderm and ectoderm, b 17-9
energy, sources of, a b 13
experimental method, value of, a b 26
evolution of protoplasm, a 16-7
Hering's speculations, b 25
mesostates, b 22
metabolism, a b 17
methods of, b 25-6
molecular action, b 22-4
morphology, a 12
movement, muscular, a b 12
muscular changes, a 23
neural changes, a b 23-4
organs and functions, a b 14
problems of, b 13, a 20-1
PHYSIOLOGY, *continued*
GENERAL VIEW
protoplasmic theory, b 15-7
scope and development of, a 11-2
spontaneity and inhibition, a b 25
survey of the field, a 21-6
tissues, a 16
vascular system, b 19-20
vital phenomena, finer, a 13, a b 25
INDEX, a 71-2
NERVOUS SYSTEM (Ill.), a 26-50
basal ganglia, b 42-4
bibliography, b 50
bloodvessels, influence on, b 34-5
brain, development of (Ill.), a 37-40
brain, size and weight of, b 38-9
cells of central organs (Ill.), b 31-2
central organs (Ill.), b 31-50
cerebellum (Ill.), a b 44
cerebral hemispheres, b 45-6
cerebral vesicles, a 36-7
chemistry of nervous matter, a 32
circulation in brain, a b 49
classification of nerves, a 31, a 35
comparative view of, a 35-9
conductivity of nerves (Ill.), a 29-30, a 42
consciousness, b 48-9
coördination of movement, b 44
corpora quadrigemina, b 42-3
corpora striata, b 43-4
cranial nerves, b 49-50
development of brain, b 37
electrical stimulation of brain, a 47-8
electrical stimulation of nerves, a 28-9
excitability of gray matter, a b 32
excitability of nerves, b 27-9
Farrier's experiments, b 47-8
fibres, b 45-6
glands, influence on, a 35
gray matter, arrangement of, b 46-9
heat production by nerves, a b 30
impressions, semicircular canals and eye, b 44-5
impressions, motor and sensory, a b 40, a 42
inhibitory and accelerating action (Ill.), a b 34, a b 41
introductory, a 26-7
PHYSIOLOGY, *continued*
NERVOUS SYSTEM
invertebrates, comparative view of (Ill.), a 35-6
medulla oblongata (Ill.), b 41-2
motor nerves, electric excitement of, a b 28
nutrition of nerves, b 30-1
nerve currents, b 30-1
nerves (Ill.), a 27-31
optic thalmi, a b 43
peduncles, cerebral, b 42, b 45-6
peripheral impressions, b 44-5
pons varolii, a b 42
reflex action (Ill.), b 32-4
reflex centres, spinal, b 40-1, a 42
sensory centres, a b 48
spinal cord (Ill.), b 39-41, a 50
structure of nerves, a b 27, b 31-2
sympathetic system, a b 50
terminal organs, b 31
trophic centres, spinal, a b 41
tetanus, production of, a 29
velocity in motor nerves, b 29-30
vertebrates, comparative view of (Ill.), a 36-9
VEGETABLE, a 50-72
absorption, a 51-2
anabolism, b 56-7
anaerobiotic plants, b 58
cells, a 50-1
chlorophyll, b 59-60, a 64
circulation, b 52-5
contact, tropism by, b 67-8
Darwinian curvature, a b 68
decomposition, self-b 57-8
direction of growth, a 65-6
distribution of nutriment, b 54-5
elements of food, b 55-6
energy, expenditure of, a 63-4
energy, supply of, b 62-3
excretion, b 60-1
food of plants, a 55-6
galvanotropism, b 67
gases, absorption of, a b 53
geotropism, b 66-7
growth, b 64-9
heliotropism, a b 66
heterauxesis, a b 71
hydrotropism, b 67
katabolism, a 57-62
light, relation to, a 65, a 70
mechanism of movements, a 70-1
mobile organs, b 69-70
movement of plants, b 64-9

PHYSIOLOGY, *continued*
VEGETABLE
  orthotropic organs, b 68
  oxidation, a 58
  plagiotropic organs, a 69
  plastic products, a 61-2
  protoplasmic movements, a b 69
  pulvinus, b 71
  reserve material, b 61-2
  respiration, b 58
  root functions, a b 53
  temperature mobilization, b 69-70
  transpiration, b 53-4
  waste products, b 58-60
— (Biology), III, b 592-5; (Descartes), VII, b 108-9; (Dream), a b 394, a b 395; (Ear), b 513; (Goodsir), X, a b 690; (Hunter, J.), XII, b 401, b 403, b 404; (Leeuwenhoek), XIV, b 411-2; (Liebig), a b 571; (Medicine), XV, a 805; (Morphology), XVI, b 872; (Müller, J.), XVII, a 23; (Protozoa), XIX, a 857-9; (Respiration), XX, b 491-5; (Schizomycetes), XXI, b 423-5; (Sex), b 759-60; (Smell), XXII, a b 178; (Sponges), a b 443; (Touch), XXIII, b 510-12
— of colors (Eye) (Ill.), VIII, a 721; (Hartley), XI, b 445; history of (Botany), IV, a b 72, a 73; nomenclature of (Barclay), III, b 318; problems of, XIX, b 13; restricted use of (Zoology), XXIV, a 839; of speech (Stammering), XXII, a b 464; as science of life (Zoology), XXIV, a 842
—, *Elements of*, Haller (Anatomy), I, a 714
Physophoridæ, family (Hydrozoa) (Ill.), XII, a 598, a 599
Physotegia, plants (Horticulture), XII, b 259
Physostigmine, drug (Calabar Bean), IV, a 577
Physostomi, order (Ichthyology), XII, b 695, b 706, a b 716, a b 717, b 718, b 720, a 723, b 730-3
Phytelephas macrocarpa, genus (Ivory, Veg.), XIII, b 534
Phytobasanos (Academy), I, b 68
Phytomastigoda, group (Protozoa), XIX, b 881, b 882
Phyton, plant-unit (Morphology), XVI, a 868
Phytophaga, section (Insects), XIII, a 156
Phytophthires, insects (Hemiptera), XI, b 576-7
Phytophthora infestans, potato-disease (Fungus), IX, b 729
Phytotomidæ, family (Birds), III, b 646, a 647
Phytotomy (Anatomy), I, b 700
Phytozoa of cryptogams (Botany) (Ill.), IV, b 126, a 127
—, π, computers of (Squaring of the Circle), XXII, b 451; powers of (Tables), XXIII, b 18; value of (Trigonometry), b 296, a b 597, b 607, b 608-9
PIACENZA, city, XIX, a b 72; (Alberoni), I, a 399; (Amphitheatre), b 680; (University), XXIII, a 892
—, council of, 1095 (Urban II.), XXIV, b 12
Piacular rites (Sacrifice), XXI, a 141, b 142, a 143 note, a b 144-5
Pia Desideria (Pietism), XIX, a 92
Piagnoni, party (Savonarola), XXI, a b 352, a b 353, b 354
Piali, village (Tegea), XXIII, b 117
Pialy or Piali, pasha, admiral (Sorrento), XXII, b 289
Pia mater (Anatomy), I, b 758, a 760
Piamentum, forfeit (Roman Law), XX, a 700
Piamonte, Nicolas di, poet (Roland), XX, b 642
Piankhi, king (Egypt), VII, b 643
Piano di Cinqua Miglia, plain (Italy), XIII, b 447
PIANOFORTE (Ill.), XIX, a 72-87
  actions, a 80-4
  bibliography, a 87
  Broadwood, a b 82
  Cristofori, b 78-9
  clavicembalo (Ill.), b 77-8
  clavichord (Ill.), b 73-5
  clavicymbalum (Ill.), a 75-6
  English 18th century actions (Ill.), b 81-3
  Erard's escapement (Ill.), a b 83
  German 18th century actions (Ill.), b 79-81
  harmonic bar, introduction of, b 84-5
  harpsichord (Ill.), b 77-8
  iron, use of, b 83-5
  manufacturing features, a b 86
  monochord, a 73
  organum, b 72-3
  overstringing (Ill.), b 85-6
  regal, a b 73
  Silbermann, b 79-80
  spinet (Ill.), a 76-7
  square piano, a b 80
  virginal, a 75
— (Acoustics), I, a 105, b 110; (Dussek), VII, b 532; (Erard, Sébastien), VIII, b 453; (Hummel), XII, b 370, a 371; (Music), XVII, a 85, a 101; (Patents), XVIII, a 883; (Steinway), XXII, b 926-7; keys (Ivory), XIII, b 532; playing (Chopin), V, a b 596; (Clementi), a 720; wire (Elasticity), VII, b 694, a 697, a b 710; (Wave), XXIV, a b 438
Pianoforte, History of the, XIX, b 77, a 79
PIARISTS, religious order, XIX, a b 87
Piasecki, Paul, historian (Poland), XIX, b 313
Piassava (Fibres, Textile), IX, a 116
Piast, family (Silesia), XXII, b 57
— or Premsyl, king (Poland), XIX, a 297, b 299
PIATRA, town, XIX, b 87
Piat's furnace (Mint), XVI, a 510 note
Piauhy, province (Brazil), IV, a b 202, b 203, b 210, b 212
Piauzite (Mineralogy), XVI, a 447
Piave river (Italy), XIII, a 446; valleys, dialect (Italy), b 502, a 503
PIAZZA ARMERINA, city, XIX, b 87
—, Callista, painter (Codogno), VI, b 97
Piazzi, Giuseppe, astronomer, *d.* 1826 (Astronomy), II, b 662, b 705
Pic in Weights and Measures, XXIV, a b 518
Pic, T. Lad, ethnographer (Vlachs), XXIV, b 288
Pica type (Typography), XXIII, a 743
Picacho de la Sierra (Venezuela), XXIV, b 150
— de la Veleta, mountain (Andalusia), II, b 11; (Granada), XI, b 40
Picard, Jean (Astronomy), II, b 659, a b 661, b 712; (Earth), VII, b 516; (Map), XV, a 529; (Micrometer), XVI, b 251; (Newton), XVII, b 453; (Time), XXIII, b 421
Picards, sect. See BEGHARDS
Picardus, Petrus de Mabarncuria (Bacon, R.), III, a 189
PICARDY, province, XIX, b 87
— sweat (Sweating Sickness), XXII, b 773, a 774
Picaresca Novela (Spain), XXII, b 371-2, b 374
Picariæ, group (Birds), III, a 643, b 671, a 672; (Ornithology), XVIII, b 30, a 32, b 33, a 36, b 45, b 48, b 50, a 51
Picarte, *Division réduite à une Addition* (Tables), XXIII, b 12
Piccadilly, street (London), XIV, a 831, a 832, a 833, a 846, a 858, a 859
Picci, Giovanni Antonio, historian (Siena), XXII, a 49
PICCINI or Piccinni, Niccola, composer, XIX, b 87-8; (Gluck), X, b 619; (Music), XVII, a b 102
Piccinino, Niccolo, general (Italy), XIII, b 489
Piccolo, musical instrument (Flute), IX, a 307
— stop (Organ), XVII, b 855, b 856
Piccolomini, play (Schiller), XXI, b 414
— shrine, Siena (Michel Angelo), XVI, b 238, b 239
—, Æneas Sylvius. See PIUS II., Pope
Piccolpasso, Cipriano (Pottery and Porcelain), XIX, a b 644, b 647; (Urbino), XXIV, a 15
Picea, trees (Fir), IX, a 193, b 194, b 195, a 196
Picentes or Piceni, tribes (Italy), XIII, a 454, b 456; (Rome), XX, a 762, a 763; (Sabines), XXI, a 137
Picenum, colony (Italy), XIII, a 454, b 456; (Rome), XX, b 775, a 776; (Umbria), XXIII, b 770, a 771
Pichard, —, engineer (Lausanne), XIV, b 350, a 351
PICHEGRU, CHARLES, general, XIX, a 88-9; (Austria), III, b 113; (France), IX, a 534, a b 535, b 541; (Holland), XII, b 85; (Moreau), XVI, a 846; (Napoleon I.), XVII, a b 214
Pichiciago, animal (Chlamydophore), V, b 587; (Mammalia), XV, a 390
Pichincha, mountain (Ecuador), VII, a 559, a 560, a b 561, a 563; (Quito), XX, b 195
Pichler, Caroline, novelist (Germany), X, a 486
Picicorvus, genus (Crow), VI, a 546
Picidæ, family (Birds), III, a 629, b 633; (Woodpecker), XXIV, a 686, a 687
Pick, tool (Mining) (Ill.), XVI, a 464
Pickard's crank (Steam-Engine), XXII, b 493
Pickens, county (South Carolina), XXII, b 301
—, fort (United States), XXIII, b 822
PICKENS, Andrew, general, XIX, a b 921
—, Francis W., governor, XIX, b 921
Pickerel, fish (Pike), XIX, b 97
PICKERING, Charles, naturalist, XIX, b 921; (Anthropology), II, a 100
—, Edward Channing, astronomer (Photometry), XVIII, b 855, b 856 note; (Parallax), a 256; (Thermometer), XXIII, a 310; (Telescopic Work), a b 933, note, a 935 note, a 936
—, Henry, poet, XIX, a 922
PICKERING, John, lexicographer, XIX, b 921-2
—, Octavius, jurist, XIX, a 922
PICKERING, Timothy, statesman, XIX, a 922; (West Point), XXIV, b 891
Pickeringite (Mineralogy), XVI, a 419
PICKETT, Albert James, historian, XIX, a 922
PICKETT, George E., general, XIX, a 922
PICKLES, XIX, a 89; (Adulteration), I, a 158; (Loire-Inférieure), XIV, a 818; (Olive), XVII, a 784, a 785
Pickwell-down group, rocks (Geology), X, a 302
Pickwick Papers (Dickens), VII, a b 151, a 152, b 153; (Geoffrey of Monmouth), X, b 155
Pico, island (Azores), III, b 147, a 148, a 149
— mountain (United States), XXIII, b 842
— pass (Spain), XXII, b 308
PICO, Giovanni, of Mirandola, philosopher and theologian, XIX, a b 89
Picori tribes (Indians), XII, a 867
Picos de Europa, mountains (Santander), XXI, a 312

Picotee, carnation (Horticulture), XII, *b* 261; (Pink), XIX, *b* 115
Picotite (Mineralogy), XVI, a 402
Picots, loops (Lace), XIV, a 186
Picquet, mode of Torture, XXIII, b 495, note
Picræna excelsa, plant (Quassia), XX, b 166
Picramic acid (Carbolic Acid), V, b 76
Picric acid (Carbolic Acid), V, b 76; (Coal Tar Colors), XVIII, b 904; colors (Dyeing), VII, b 499, b 500
Picrolite (Mineralogy), XVI, a 432
Picrophyll (Mineralogy), XVI, a 432
Picrosmine (Mineralogy), XVI, a 432
Pictavia, kingdom (Fife), IX, a 134
Pictet, Adolph, philologist (Prichard), XIX, b 742
——, Marc Auguste, physicist (Radiation), XX, b 220
——, Raoul, his gas liquefier (Hydrogen) (Ill.), XII, b 449-51; his machine (Ice), a 649
Pictish Annals (Scotland), XXI, b 498-9
—— language (Celtic Literature), V, b 271-2; inscriptions (Arbroath), II, b 284; (Inverness), XIII, b 206
PICTON, Sir Thomas, general, XIX, b 89-90
Pictor, Fabius. See Fabius Pictor, also Livy, XIV, a 735
Pictou, district and town (Coal), VI, a 57; (Nova Scotia), XVII, a *b* 616, *a* 618; ore (Iron), XIII, b 292, a 294
Picts, race (Britannia). IV, a *b* 319; (Caledonia), *a* 589; (Celtic Literature), V, *a* b 261, a 262; (Columba, St.), VI, *a* 150; (England), VIII, b 240, b 243; (Forfar), IX, *b* 362; (Gaelic), X, a 8; (Ireland), XIII, b 249, a b 252, a 255; (Northumberland), XVII, *b* 533, *a* 584; (Orkney and Shetland), b 872; (Patrick, St.), XVIII, b 421, note; (Primogeniture), XIX, a 756; (Scotland), XXI, *b* 494, a *b* 495, a *b* 496, note, b 497, a 498; Northern (Inverness), XIII, b 206; and Scots, union of (Scotland), XXI, b 499-500
Picts' houses or weems (Archæology), II, a b 296; (Architecture), b 336
Pictured-rocks (St. Lawrence), XXI, b 186
PICTURE GALLERIES OF EUROPE (Schools of Painting), XXI, a 465-9; (Rome), XX, a 859; (Dresden), VII, a 405; (Dulwich), b 449; (Hampton), XI, a 337; Holyrood (Edinburgh), VII, b 575; of San Carlos (Mexico), XVI, b 229; of Vienna, XXIV, b 238-9. See Art Collection, Academy of Fine Arts, British Museum, Louvre, Metropolitan Museum, Museums, National Gallery, Pinakothek, Uffizi, Vatican
—— MAPS, XV, a 523
Pictures (Fine Arts), IX, b 171
Picturesque, the (Æsthetics), I, b 199; (Drawing), VII, a 389
Picture writing (Alphabet), I, b 529, a 530; (America), a b 610; (Drawing), VII, a 386; (Inscriptions), XIII, b 120; (Mexico), XVI, a b 216, b 220; Central American (Mexico), a 222
Picul in Weights and Measures, XXIV, *a b* 518
Piculules, Dendrocolaptidæ (Birds), III, a 645
Picumnus, genus (Birds) (Ill.), III, b 620-1
Picus, myth (Faun), IX, b 47; (Mars), XV, a 577
——, genus (Woodpecker), XXIV, a b 686. See Picidæ
Piddle, river (Dorset), VII, a 321
Piduru Talagala, mountain (Ceylon), V, a b 312
Pie, bird (Crow), VI, b 545; (Magpie), XV, b 286-7
Piedfort, coins (Numismatics), XVII, a 674
PIEDMONT, Italian country, XIX, a 90; (Foundling Hospitals), IX, a 426; (Milton, XVI, b 345, a 346; hegemony of (Italy), XIII, b 496, a b 497, a 498-500. See Sardinia, Savoy, house of
—— district, Virginia (United States), XXIII, a b 844; (Virginia), XXIV, a b 275, *a* 276, a 278
—— plateau (North Carolina), XVII, b 572, a b 574
Piedmontese (Army), II, a 535, a 536; dialect (Italy), XIII, *a* 502, *a b* 503
Piedmontite (Mineralogy), XVI, a 427
Piel, island (Barrow-in-Furness), III, b 341
Pierce, Benjamin, general XIX, b 90
PIERCE, Franklin, president, XIX, a b 90; (Hawthorne), XI, a *b* 480; (United States), XXIII, *b* 819
PIERCE, George Foster, bishop, XIX, a 922
Pierce Penniless (Nash, Thomas), XVII, b 242
Pierce Ploughman's Crede (Langland), XIV, a 286; (Lollards), b 820. See *Piers Plowman*
Pieria, locality (Muses), XVII, b 81
Pieridæ, family (Butterflies and Moths), IV, b 529, a 530; (Mimicry), XVI, a 353
Pieris, genus (Butterflies) (Plate XXVII), IV, b 528, b 529
Pierleoni, Giordano dei, patricius (Rome), XX, a 810, a 811
——, Pietro, prefect (Rome), XX, a *b* 899
PIERO or PIETRO, DE FRANCESCHI, painter, XIX, b 90-1; (Schools of Painting) (Ill.), XXI, b 453, note, b 462, a 465, b 467; (Urbino), XXIV, a *b* 14
Pierre à Bot, rock (Jura), XIII, a 791
—— d' arquebuse (Pyrites), XX, b 134
Pierre de Provence et la Belle Maguelonne (Romance), XX, b 675
Pierrescise, John, bishop (Geneva), X, a 134
Pierres d'Israel, charms (Cameo), IV, b 653
—— perdues or rubble (Breakwaters), IV, a b 217; (Harbors and Docks), XI, a b 415
Pierre sur Haute, mountain (Loire, Department), XIV, b 816
Piers in masonry (Bridges) (Ill.), IV, b 253, b 291-4, a 306-7; (Harbors and Docks) (Plate VIII. Ill.), XI, *a* 407, b 411-6; bridge, effect on flow (Hydromechanics) (Ill.), XII, a 496; (Brighton), IV, a 311
——, Sir Henry, antiquary (Brehon Law), IV, b 225
Pierson, Abraham, minister, (Newark), XVII, a 380
Piers Plowman (Accent), I, b 78; (English Language), VIII, b 353, a 355; (Langland), XIV, b 285-6; (Pilgrimage), XIX, a 104; (Satire), XXI, a 334; (Shakespeare), a 776. See *Pierce Ploughman's Crede*
Piesn Boga Rodzica (Poland), XIX, a 311
Piesse, Septimus, odophone of (Perfumery), XVIII, a 537, a 538
Pieta, carving (Ivory) (Plate VII), XIII, b 533
Pietà by Francia (Schools of Painting), XXI, b 455
Pietá Signore (Stradella), XXII, a 613
Piété, Mont de. See Mont de Piété
Pieter Botte, mountain (Mauritius), XV, b 646
Pietermaritzburg, town (Natal), XVII, b 246, *a b* 248
PIETISM, mystic movement, XIX, b 91-3; (Arndt), II, a 544; (Francke), IX, a b 618; (Hermeneutics), XI, b 668; (Hymns), XII, b 621-2; (Kant), XIII, a 854; (Rationalism), XX, b 301-2; (Spangenberg), XXII, b 382; (Spener), *a* 407; (Tholuck), XXIII, a b 328; Halle University, a 903; primitive (Christianity), V, b 603-4
Pietra dura (Inlaying), XIII, b 88
—— nerra, stone (Ragusa), XX, b 228
Pietro. See Piero
——, Giovanni. See SPAGNA, Lo
——, Imperiola, prefect (Rome), XX, b 806, a 807
——, Lando di, architect (Siena), XXII, b 49
——, Mechitar da, monk (Mechitharists), XV, a b 784
——, Sano di, painter (Siena), XXII, *b* 44, a 49
Pietross, mountain (Transylvania), XXIII, a 555
Pietrossul, mountain (Transylvania), XXIII, a 555
Pietro von Abano, opera (Spohr), XXII, a 427
Piezolo, Gabrielda de, nun (Stigmatization), XXII, b 577
Piezometer, pressures upon (Mechanics), XV, b 753
Pig, farm animal (Agriculture), I, a b 355; (Breeds), IV, a b 221, b 223; (Germany), X, *a* 406; (Hampshire), XI, *a* 385; (Inverness), XIII, a 206; (Ireland), 230-1, a 232, b 261; (Juan Fernandez), b 767, a 768; (London), XIV, a b 838; (Mammalia) (Ill.), XV, b 435; (Mythology) XVII, a 162; (Swine) (Ill.) XXII, b 810-3; (Taboo), XXIII, a 23; (York), XXIV, a 785; diseases of (Veterinary Science), XXIV, b 221; parasite of (Protozoa), XIX, a b 879; (Veterinary Science), XXIV, a b 223; religious regard for (Phrygia), XVIII, b 867, note; as Zodiacal sign, XXIV, b 831, a 832. See Hog, Swine
Pigafetta, Antonio, traveller (Giant), X, a 511; (Magellan), XV, a 199; (Megapode), a 836 note
——, Felipo, traveller (Geography), X, b 163
PIGALLE, Jean Baptist, sculptor, XIX, a 93
PIGAULT-LEBRUN, Charles Antonio Guillaume, novelist, XIX, a 93
Pig-bed, the (Iron), XIII, b 313; boiling (Iron), XIII, *b* 328
PIGEON, bird, XIX, a 93-4; (Birds), III, b 615, b 618, a 629, b 634, a b 641, *a* 642, a *b* 643, b 646, b 655, b 668-9; (Breeds), IV, a 220, a b 221, b 223, a 225; (Dove), VII, a 328-9; (Egypt), b 617; (Ornithology), XVIII, a 50, note; (Poultry), XIX, b 667-8; South Pacific (Sheathbill), XXI, a 819 note; sternum of (Ornithology), XVIII, b 27
—— -hawk (Falcon), IX, a 5
—— -island (St. Lucia), XXI, a 195
—— -river (St. Lawrence), XXI, b 186
Pigeons, carrier (Dove), VII, b 328, a 329; (Instinct), XIII, a 166; (Post-Office), XIX, b 597, note, a 598; flight of (Shooting), XXI, b 873 note
Pighius, Albert, polemic (Calvin), IV, b 635
Pig-iron (Germany), X, a 408; (Iron), XIII, b 302-3; cold blast (Iron), b 328; collection of (Iron), b 313-4; composition of (Iron), a 314; cost of production, fuel (Iron), a b 323, a b 324, a 325; production, statistics (Iron), a b 368-9; puddling, Nova Scotia (Iron), b 333; quality of (Iron), b 290-1, a 317; refining (Iron), a 357

Pigment, physiological (Anatomy), I, b 747; (Iris), XIII, a 282; (Sponges), XXII, b 436; of egg-shells (Birds), III, a b 671; of eye (Anatomy), I, a b 779, a 780, a 781; of skin (Anatomy), a 788
Pigmentary retinitis (Ophthalmology), XVII, a b 806
Pigmentation, morbid (Pathology), XVIII, b 374; (Parasitism), b 274
PIGMENTS, XIX, a 94–7
  American, a b 97
  black, a 97
  blue, b 95
  brown, b 96–7
  definition and manufacture, a 94–5
  green, b 96
  red, a b 96
  white, a b 95
  yellow, b 95–6

—— (Arsenic), II, *b* 555; (Cadmium), IV, b 558; (Calico-Printing), b 612, b 613; (Chromium), V, a 613; (Cobalt), VI, b 76; (Copper), *a* 312; (Copperas), a 313; (Gamboge), X, a 56; (Lead), XIV, b 377, a b 378, *a* 379, (Lichens), *a* 563; (Painting), XVIII, b 142–3, a 144; (Pottery and Porcelain), XIX, b 663; (Ultramarine), XXIII, *b* 769; (Vermilion), XXIV, a b 180; Egyptian (Mural Decoration), XVII, b 46; Etruscan (Mural Decoration), a b 46; mixtures of (Light), XIV, a 605; Roman (Mural Decoration), XVII, a 49
Pignatelli, Antonio. See INNOCENT XII., Pope
Pigneaux de Betaine, Pierre Jean Georges, bishop (Tong-King), XXIII, a 469
Pignerol, fortress (Iron Mask), XIII, b 370–1
Pignoris Capio, process (Roman Law), XX, b 703, b 704, a 711
Pignotti, Lorenzo, fabulist (Fable), VIII, b 734
Pignus (Pledge), XIX, b 231
Pigot, Thomas, writer (Music), XVII, a 96
Pigott, ——, astronomer (Comet), VI, a 172; (Time), XXIII, b 421
Pig-sticking, sport (Hunting), XII, a 412; (India), b 780
Pig-tail fashion, origin of (China), V, b 564
Pígú Arslan, chieftain (Seljuks), XXI, b 666
Pih-chih-li, gulf (China), V, b 549, a *b* 550
Pĭh Keang, river (China), V, b 555
Pĭh-tun-tsze, clay (King-Ṭih Chin), XIV, b 92
PIKE, fish (Ill.), XIX, b 97–8; (Ichthyology), XII, a 688, b 691, b 692, b 702, *b* 703, a 704, a b 714, a 732; fishing for (Angling), II, b 32–3, b 40
——, the (Heraldry) (Ill.), XI, b 625
——, William, on steam-farming (Agriculture), I, a 282–3
PIKE, Zebulon Montgomery, general, XIX, a b 922; (New Mexico), XVII, a 412
Piked dog-fish (Shark), XXI, a b 812, b 814
PIKE-PERCH, XIX, a 98
Pikermi fossil beds, Greece (India), XII, b 773
Pike's Peak (United States), XXIII, a 846
Pikrite, rock (Geology), X, a 210
Pilaga, river (Plate), XIX, b 199
Pilaster (Architecture), II, a 413; Egyptian (Architecture), a 343; Greek Doric (Architecture), b 354; joiners (Building), IV, b 440, modern Italian (Architecture), II, a *b* 385
Pilat or Pila, mont (France), IX, b 445; (Loire, Department), XIV, b 816; (Lyons), XV, a 112, b 113
PILATE, Pontius, governor, XIX, a b 98, note; (Jesus Christ), XIII, a 679; his inscription (Cross), VI, b 539, a 540
Pilato, Leone, professor of Greek (Boccaccio), III, a 734; teacher (Greece), XI, *a* 133
Pilatus, mountain (Lucerne), XV, a b 42; (Pilati), XIX, b 98
Pilau, town (Königsberg), XIV, a b 140
PILCHARD, fish, XIX, b 98–9; (Cornwall), VI, a 378; (Fisheries), IX, a 212, b 213, *b* 218, a 221, a 222, note, a 231; (Ichthyology), XII, b 732
Pilcomayo river (Bolivia), IV, *a* 12, b 14; (Plate), XIX, b 199, a 200
Pile, the (Heraldry) (Ill.), XI, b 620
—— driving, iron (Harbors and Docks), XI, b 415–6
—— dwellings (Lake Dwellings), XIV, a 223–5
—— fabrics (Weaving), XXIV, b 493–4
Pileola (Grasses) (Ill.), XI, a b 51
Pileorhiza, root-cap (Botany), IV, b 83
Piles, builder's (Alder), I, a 418; (Bridges), IV, b 294–5
——, disease (Hæmorrhoids), XI, b 327; (Surgery), XXII, a 719
Pileus, hat (Costume), VI, a 404
PILGRIMAGE, XIX, a 99–104
  American Indians, b 100
  Asiatic, ancient, a 100
  Chinese and Japanese, a b 101
  Christian, b 102–4
  classical, a b 100
  Eastern church, a b 104
  Egyptian, b 99
  Hindu, b 100–1
  Jewish, b 101
  legendary shrines, b 103
  Mohammedan, b 101–2
  origin of, a b 99
  pilgrims, mediæval, b 103–4
  Rome, mediæval, a b 103
  Teutonic and Slavonic, b 100
  tombs of saints, a 102–3
—— (À Becket), I, a 37; (Canterbury), V, b 27; (Caravan), a b 75; (Chili), b 539; (Crusades), VI, b 549, a 550; (Einbeck), VII, a 685; (Einsiedeln), b 685; (Gangotri), X, b 62; (Gaya), b 108, a 109; (Ghazni), b 501; (Gheel), b 502–3; (Hooghly), XII, a 151; (Hwen T'sang), a 434–5; (Kerbela), XIV, b 50; (Japan), XIII, a 581, note; (Lhasa), XIV, a 497; (Loreto), XV, b 5; (Lourdes), a 26; (Lyons), b 111; (Mariana), b 546; (Mariazell), b 546; (Medina), a b 827, a 828; (Mecca), a 677, a b 678, b 681–2; (Nerbudda), XVII, a 355; (Quarantine), XX, b 161, note, a 162; (Sahâranpur), XXI, a 160; (Shi'ites), XXII, *b* 698; (Zwingli), XXIV, a 872; in oriental religions (Penance), XVIII, a 495. See Hajj
—— of Grace, rebellion (England), VIII, b 301, b 306; (Hexham), XI, b 700; (Hull), XII, a 356; (Louth), XV, b 27; (York), XXIV, b 786, b 789
Pilgrimages, narratives of (Palestine), XVIII, b 182
Pilgrimes and *Pilgrimage* (Purchas), XX, *a* 120
Pilgrim Fathers (American Literature), I, b 630; (Smith), XXII, a 186; (Thanksgiving), XXIII, a 937; monument to (Plymouth), XIX, b 249
Pilgrim-flask, Chinese (Pottery and Porcelain) (Ill.), XIX, a 654
Pilgrims, return of, festival (Egypt), VII, b 630
Pilgrims of the Rhine (Lytton), XV, b 123
Pilgrim's Progress (Bunyan), IV, a b 473, *a* 474; (English Literature), VIII, a 378; (Portugal), XIX, a b 572; imitations of (Bunyan), IV, a 474
Pilgrim's Rest, district (Transvaal), XXIII, b 550
—— staff, musical instrument (Flute), IX, a 307
Pílíbhít, town (Bareli), III, b 321
Pilica river (Poland), XIX, b 318; (Radom), XX, b 224, a 225
Pilidium, larva (Nemertines) (Ill.), XVII, a *b* 340
Pilkington, family (Whitefield), XXIV, a 582
Pillar, cape (Tierra del Fuego), XXIII, b 409
——, El, town (Paraguay), XVIII, b 248
—— drilling Machine, XV, b 156
—— of Eliseg (Llangollen), XIV, a 747
—— -hermits (Monachism), XVI, b 727. See Stylites
Pillars or columns in Architecture, II, a 413; (Building), IV, a 433; strength of (Bridges), a 289–90
—— of Hercules (Gibraltar), X, a 523; (Spain), XXII, b 319
Pillar working, method (Coal), VI, b 60
Pillau, town. See Pilau
Pillersdorf, baron, on political movements in Austria, III, b 118
Pilmoor, Joseph, missionary (Methodism), XVI, b 199
PILLORY, mode of punishment, XIX, b 104–5
—— and Tumbrel statute (Adulteration), I, a 152
Pillow Lace (Ill.), XIV, *b* 184, *b* 185, a 188–90
Pilnitz, conventions of, 1791 (France), IX, b 530
Pilocarpine, drug (Jaborandi), XIII, a b 540; (Physiology), XIX, a 34
Pilocarpus, genus (Jaborandi), XIII, b 539–40
Pilocereus, group (Cactus), IV, b 555, a 556
Pilolite (Mineralogy), XVI, b 435
Pilon, Germain, artist (Sculpture), XXI, b 589
—— mills (Gunpowder), XI, b 290
Pilos, hat (Costume), VI, b 402, a 404
PILOT, officer, XIX, a 105; (Navigation Laws), XVII, a 287
PILOT-FISH (Ill.), XIX, a b 105; (Ichthyology), XII, a 728
Pilot Knob, Missouri, mount (Iron), XIII, b 292; (Mining), XVI, b 461
Pilpay, fables. See BIDPAI
PILSEN, town, XIX, b 105–6; basin (Coal), VI, b 54
Pilton group, rocks (Geology), X, a 302
Pilularia, genus (Botany) (Ill.), IV, a 146; (Ferns), IX, *a* 93
Pilulina, genus (Foraminifera) (Ill.), IX, b 328, a 329
Pilulinina, family (Protozoa), XIX, b 868
Pilum, weapon (Arms and Armor), II, a b 486
Pimas, tribes (Indians), XII, b 873; grammar of (Smith), XXII, *a* 911
Pimelite (Mineralogy), XVI, a 432
Pimelodina, sub-family (Ichthyology), XII, *b* 711, b 730–1
Pimelodus, genus (Ichthyology), XII, *b* 711, a 715
Pimental, counts of (Benavente), III, a 480
Pimentel, city (Peru), XVIII, b 687
PIMENTO, spice, XIX, a 106; (Jamaica), XIII, a b 559; (Pepper), XVIII, a 528
Pimlico, suburb (London), XIV, b 827
PIN, implement, XIX, a 106–7; solid-headed (Patents), XVIII, a 882
Pina, river (Pinsk), XIX, b 116
——, Ruy de, chronicler (Portugal), XIX, b 571
—— -Fibre, IX, a 116
Pinacoid, crystal-face (Mineralogy) (Ill.), XVI, b 370, a b 371, b 373
Pinakothek, Munich (Altdorfer), I, b 564; (Heem), XI, b 545; (Hess), b 695, a 696; (Munich), XVII, b 30–1; (Schools of Painting), XXI, a 466

Pina Manique, Dom Diogo Ignacio (Portugal), XIX, b 565
Pinaster, tree (Pine), XIX, *a* b 113
Pinax, platter (Pottery and Porcelain) (Ill.), XIX, a b 629
Pinax Theatri Botanici (Bauhin), III, b 386
Pincers (Hand Tools) (Ill.), XI, a 393
Pinchbeck (Alloy), I,.a 518
Pinchon, Dom, monk (Pisciculture), XIX, b 136-7
Pincian Hill (Rome), XX, a 825
PINCKNEY, Charles, statesman, XIX, b 922; XXIII, b 839
PINCKNEY, Charles Cotesworth, statesman, XXIII, b 839; XIX, b 922; (United States), XXIII, a 805
——, Thomas, governor, XIX, b 922
Pinçon. See PINZON
PINDAR, poet, XIX, a 107-10
  Athens, a 108
  contemporary art, b 109-10
  editions and MSS., b 110
  language and treatment, b 108-9
  life, a 107-8
  sentiments, a b 109
  works, a 108-9
—— (Alexander the Great), I, b 425; (Corinna), VI, b 352; (Etna), VIII, a 551; (Greece), XI, b 124-5; (Hiero I.), a 708; (Horace), XII, b 168, a 169; (Poetry), XIX, a 269, a 273, b 281, a b 282, b 283; (Thebes), XXIII, b 248, a 249
Pindar, edition of (Boeckh), III, b 739
Pindar, Peter, pseudonym. See WOLCOT
Pindarics (Chiabrera), V, *b* 529
Pindarique Odes (Cowley), VI, *b* 472
Pindárís or Pindarhees, race (Málwá), XV, b 349; (Gondwána), X, a 686; (Hastings), XI, a 462; (India), XII, b 844-5
Pindus, mountains (Greece), XI, b 73-a b 74; (Macedonia), XV, *a* 138
PINE, tree (Ill.), XIX, b 110-4
  botanical description (Ill.), b 110-2
  distribution, European, b 111-2
  nurseries, a b 112
  timber, a b 112
  turpentine, b 112
  varieties of, b 112-4
—— (Arboriculture), II, *a* 276, a b 277, a b 280, a 282; (Araucania), a 272; (Australia), III, a 96; (Botany) (Ill.), IV, a 76, *a* 78, a 86, b 99, a 103, a 106, a 107, a b 132. a 143; (California), b 623-4; (Canada), a b 683; (Chili), V, b 541; (Geology), X, b 256; (Histology), XII, b 14; (Japan), XIII, *a* 584; (Louisiana), XV, b 22, note; (Mississippi), XVI, b 546; (Queensland), XX, a 180; (Rosin), b 875, a 876; (United States), XXIII. b 860, b 861, b 862; (Woodpecker), XXIV, b 686; creeping (Alps), I, b 556; legend of the (Atys), III, a 58; screw (Fibres, Textile), IX, a 116
Pineal body (Anatomy), I, a 758; gland (Anatomy), *a* 770, b 771, a 772; (Cartesianism), V, b 129; (Descartes), VII, a b 109
PINE-APPLE, plant, XIX, b 114-5; (Bahamas), III, a *b* 205; (Botany) (Ill.), IV, b 75, b 107, *b* 134, b 138, a 139; (Horticulture), XII, a b 228, a 285-6
—— pattern (Textiles) (Ill.), XXIII, b 227 note
Pine-bender, myth (Theseus), XXIII, b 314
Pine Grosbeak, bird, XI, a b 186
PINEL, Philippe, physician, XIX, a 115; (Insanity), XIII, b 116
Pine mountain (Kentucky), XIV, *a* 43, a *b* 44
—— -Nut, XVII, b 683, a 684
—— Oil, XVII, b 765, b 767
PINEROLO, city, XIX, a b 115
Pine's *Horace* (Bibliography), III, b 564
Pines, isle of (New Caledonia), XVII, b 385
Pineto's *Logarithmes* (Tables), XXIII, a 14, XIV, b 783
Pinetti de Wildalle, Giuseppe, conjuror (Magic), XV, b 208, a b 209, a 210
—— wool (Fibres, Textile), IX, a 116
Pin-eyed flowers (Horticulture), XII, b 219
Piney tallow (Oils), XVII, b 765, a 768
—— varnish (Dammar), VI, b 700
Pin ferrule (Hydromechanics) (Ill.), XII, b 499
Pingai, bay (Corea), VI, a 347
Pingala, prosodist (Sanskrit), XXI, b 287
Ping-ting Chow, city (China), V, *b* 551
Pinguicula, plant (Insectivorous Plants) (Ill.), XIII, *b* 140, a b 144
Pinguite (Mineralogy), XVI, b 443
Ping-yang, city (China), V, b 560
Pin-hole camera (Mollusca), XVI, a 706
Pinion (Mechanics), XV, a 766
Pinite (Mineralogy), XVI, a 436
Pinitoid, mineral (Mineralogy), XVI, b 443
Pink, color (Dyeing), VII, a 497
PINK, plant, XIX, b 115; (Botany), IV, b 111, b 119, a 120; (Horticulture), XII, a 267; Chinese or Indian (Horticulture), b 255, a 256
PINKERTON, John, essayist, XIX, b 115-6
Pinkethman, harlequin, Pope's Pinky (Pantomime) XVIII, b 219
Pinkie Cleugh battle, 1547 (Somerset), XXII, a 273
—— house (Musselburgh), XVII, b 117
Pinkney, Edward Coate, poet, XIX, a 923
——, William, bishop, *b*. 1810, *d*. 1883, XIX, a 923
PINKNEY, William, diplomatist, XIX, b 922-3
Pink salt (Tin), XXIII, a 429
Pin-money (Husband and Wife), XII, a 417
Pinna, town (Civita di Penne), V, b 697
Pinnaces, boat (Navy), XVII, a 289
Pinnacle, mount (South Carolina), XXII, a 301
Pinnacles (Architecture), II, b 413
Pinna squamosa, mollusc (Crab), VI, b 477; (Pearl), XVIII, a 459, note
Pinning (Leather), XIV, b 385
Pinnipedia, sub-order (Carnivora), V, b 109; (Mammalia), XV, b 376-7, a 449-51
Pinnoctopus, genus (Mollusca) (Ill.), XVI, a 695, a 696
Pinnosa or Vinnosa, martyr (Ursula), XXIV, a 18
Pin Oak, XVII, b 712
Piñon, trees (United States), XXIII, b 862
Pinos, island (Cuba), VI, a 601
Pinotières, palm forests (Guiana), XI, a 225
Pins (Joints), XIII, b 742-3. See PIN
PINSK, town, XIX, a b 116
Pintado Petrel, XVIII, b 725
—— Pueblo (Pueblo Indians), XX, b 887
"Pintados," tribe (Philippine Islands), XVIII, a 767
Pintelli, Baccio, architect (Rome), XX, a 858; (Urbino), XXIV, a 14
Pintia, town (Valladolid), XXIV, b 49
Pinto, skin-disease (Parasitism), XVIII, b 274
——, Emmanuel, grand master (St. John of Jerusalem), XXI, b 183
PINTO, Fernão Mendes, adventurer, XIX, b 116-7
Pintsch's buoy (Lighthouse), XIV, b 632; his lighting system (Railway), XX, a 259
PINTURICCHIO, BERNARDINO DI BETTI, painter, XIX, a 117-8; (Fresco), IX, b 679; (Tempera), XXIII, a 174
Pin-wheel escapement (Clocks) (Ill.), VI, a 19
——, teeth of (Mechanics), XV, b 768
Pin-worm, parasite (Veterinary Science), XXIV, b 222
Pinzon, Francesco, navigator, XIX, *b* 118
PINZON, Martin Alonzo, navigator, XIX, b 118; (America), I, b 620-1; (Columbus), VI, *b* 154, *a* 155
PINZON, Vicente Yañez, navigator, XIX, b 118; (Amazon), I, b 575; (America), a 621; (Brazil), IV, b 204; (Columbus), VI, *b* 154
Piombo, Sebastino Del. See SEBASTIANO
Pioneers, Austrian (Army), II, b 530; of Prussian Army, b 522
——, character of (United States), XXIII, a 877
Piorry, Pierre Adolphe, physician (Auscultation), III, *b* 87
PIOTRKOW, town, XIX, a 119; (Poland), a 324; province (Poland), b 301, a 303; (Russia), XXI, a 76
Pious frauds (Apocrypha), II, b 158, a 160
Piozzi, Gabriel, composer, XIX, *a* 119
PIOZZI, Hester Lynch, Thrale, XIX, a b 119; (Johnson, S.), XIII, b 737, b 739-40
Pipa, toad (Amphibia), I, b 658, *a* 660, a 663, *b* 668*, a 669, a 670, *b* 672, a *b* 673, *a* 674, a b 675, b 677; (Ichthyology), XII, b 698
Pi-Pa-Ki (Drama), VII, b 346, a 347, a 348
PIPE, Tobacco (Ill.), XIX, b 119-20; (Gouda), XI, a 3; (Tobacco), XXIII, a 451
PIPE, musical instrument, XIX, b 119; in Oboe, XVII, a 725; in Organ (Ill.), a 853-4; theory of (Acoustics) (Ill.), I, b 106-7
——, stove (Heating), XI, a 528
—— -clay (Geology), X, b 212
PIPE-FISHES (Ill.), XIX, b 120-1; (Hippocampus), XI, a 761; (Ichthyology), XII, a 733
Pipe line transportation (Petroleum), XVIII, b 731, b 893
Piper, bird (Pigeon), XIX, a 93-4
Piper of Hameln, legend of, XI, b 365, a 366
Piperaceæ, family (Botany), IV, b 131, b 133, b 140
Piperin (Pepper), XVIII, a 527, a 528
Piper methysticum, plant (Kava), XIV, a b 20
Pipe Roll of Cloyne, VI, a 38
Pipe Rolls (Finance), IX, b 153; (Records), XX, a 325, note
Piper's wheat (Agriculture), I, a 315
Pipes (Gutta Percha), XI, a 303; (Sewerage), XXI, b 747; for acids (Tar), XXIII, a 64; contraction in (Hydromechanics), XII, b 511-2; drain- (Agriculture), I, b 295, b 296; (Building), IV, a 418; elbows in (Hydromechanics) XII, a b 512; enlargement in (Hydromechanics) b 511-2; friction of water in (Hydromechanics), b 509-10; lead, ancient (Rome), XX, a 849 note; main (Aqueducts), II, a b 194, a b 198; pressure in (Hydromechanics), XII, a b 488, b 544-5; steady flow of water in (Hydromechanics), a 608-15; supply (Gas and Gas-Lighting), X, b 87
Pipin and Spasovich, lexicographers (Slavs), XXII, b 157
Pipings, cuttings (Horticulture) (Ill.), XII, b 243, b 244
Pipino, Francesco, monk (Polo), XIX. a 421

Pipistrette, bat (Mammalia), XV, b 414, b 415
PIPIT, bird, XIX, a b 121
PIPPI, Giulio, painter, XIX, b 121-2
Pippin I., Aquitaine, XIX, b 122
—— II., Aquitaine, XIX, b 122
—— the Short, king of the Franks, XIX, b 122; (Charles Martel), V, b 370; (France), IX, b 469; (Germany), X, *a* b 429; (Paris), XVIII, b 293; (Popedom), XIX, a b 509; (Saxony), XXI, a 367; (Soissons), XXII, a 261
——, king of Italy, XIX, b 122; (Italy), XIII, b 478; (Rome), XX, b 803; (Venice), XXIV, b 153
—— of Heristal, duke of Austrasia, XIX, b 122; (France), IX, a 469; (Germany), X, *a* 429
—— of Landen, or Pippin the Old, mayor of the palace, XIX, b 122
Pippins (Apple), II, a 185
Pippli factory (Balasor), III, a 236; (India), XII, a 840
Pippul, tree (Fig), IX, b 135
Pipridæ, family (Manakin), XV, *b* 462
Piptadenia, tree (West Indies), XXIV, a 540
Piptatherum, genus (Grasses) Ill.), XI, a 50, b 52
PIQUA, Ohio, city, XIX, b 122
Pique, game (Piquet), XIX, b 122, a 124
PIQUET, game, XIX, b 122-5
    hints, b 124-5
    origin, b 122-3
    Rubicon piquet, a 123-4
    rules, a b 125
    scores, especial, a b 124

Piracies, literary (Copyright), VI, b 319-20, a 323, a 325; (Upham), XXIII, a b 963
PIRACY, offence, XIX, b 125-6; (Bahamas), III, a 205; (Brooke, Rajah), IV, *b* 333; (Cæsar), a b 563; (Cochin China), VI, a 86; (Commerce), a b 180; (Concan), b 212; (Congo), b 237; (Crete), b 505; (Etruria), VIII, a 559; (Greece), XI, b 97, a 109, a 111; (Iceland), XII, b 656; (International Law), XIII, b 199, b 202; (Ireland), a 255; (Noákhále), XVII, a 538; (Penn), XVIII, b 507; (Porter), XIX, a 924; (Privateer), a 784; (Slavery), XXII, a 138, a 140; (Tunis), XXIII, a b 661; (West Indies), XXIV, a 538; in the Adriatic (Venice), a 154, b 158. See Pirates
Piræus, port (Athens), III, b 5; (Greece), XI, a 79, a 80, b 89, b 90, a 91, b 97; (Pericles), XVIII, b 540, note, b 541; lazaretto (Quarantine), XX, b 160
Piranesi, Francesco, engraver, XIX, b 126
PIRANESI, Giovanni Battista, engraver, XIX, b 126; etchings (Rome), XX, b 854
Pirata, Il, opera (Bellini), III, a 473
Pirates, Algerine, I, b 498, *a* b 499; (Barbarossa), III, b 312; (Jefferson), XIII, a 627; (Stewart), XXII, b 928; Levantine (Rome), XX, b 781; mediæval (Navy), XVII, a 288; Tripolitan (Narborough), b 236; (Shovel), XXI, a 882. See Buccaneers
Pirates' Bay (Alexandria), I, b 436
Piratininga, S. Vincente, town (Brazil), IV, a 205, a 206
Pireke de-Rabbi Eli'ezer (Midrash), XVI, b 299
Pirene, nymph (Fountain), IX, a 428. See Peirene
Piria, chemist (Salicylic Acid), XXI, b 227
Pirie's double-furrow plough (Agriculture), I, a 278
Pirithous, king of the Lapiths (Theseus), XXIII, b 315
Pirkheimer, Willibald, historian (Dürer), VII, a 479, *a* b 480, a 481, b 482; (Hutten), XII, b 428
PIRMASENS, town, XIX, b 126-7
Pirmin or Pirminius, missionary (Creeds), VI, *a* 497; (Pirmasens), XIX, a 127
PIRNA, town, XIX, a 127; battle of, 1756 (Augustus), III, b 74
PIRON, Alexis, epigrammatist, XIX, a b 127; (Drama), VII, b 368; (Epigram), VIII, b 439
Pir-panjál range (Himalaya), XI, a 738
Pis, Alberto, prince (Manutius), XV, a 520
PISA, city (Plan), XIX, b 127-31
    architecture, a 131
    Florentine domination in, b 129-30
    Genoese wars, b 128, b 129
    Ghibelline and Guelf wars, b 129-30
    origin of, b 127-8
    population, b 130-1
    Saracenic wars, period of the, a b 128

—— (Camel), IV, a 652; (Campanile), *b* 665, a 666; (Cloister), VI, a 36; (Filicaia), IX, b 142; (Florence), a 293; (Genoa), X, *b* 141; (Gherardesca), b 505-6; (Gozzoli), XI, a 23; (Italy), XIII, b 480-1, b 482, b 485, a 486; (Orcagna), XVII, b 838; (Sardinia), XXI, b 324; (Schools of Painting), a b 451, a 462, b 467. See Council of Pisa
——, Leonardo of. See PISANUS
Pisæ, city (Etruria), VIII, a 559
Pisanello. See PISANO, Vittore
Pisani, chemist (Potassium), XIX, b 609
——, Victor, admiral (Venice), XXIV, a 156
PISANO, Andrea, sculptor, XIX, a 131-2
PISANO, Giovanni, sculptor (Ill.), XIX, a b 131, a b 132; (Perugia), XVIII, a 694; (Pisa), XIX, a 130, a 131
——, Giunta, painter. See GIUNTA PISANO
PISANO, Niccola, sculptor and architect (Ill.), XIX, *a b* 132-3; (Architecture), II, *a* 381; (Pisa), XIX, a 130, a 131; (Venice), XXIV, b 166, a 169
——, Nino, sculptor, XIX, b 131-2
PISANO or Pisanello, Vittore, medallist, XIX, b 133-4; (Numismatics), XVII, a 676; (Schools of Painting), XXI, b 455, a 463, a 465, note, b 467; (Verona), XXIV, b 186
PISANUS, Leonardus, mathematician, XIX, a 134-5; (Algebra), I, a 452
Pisatis, district (Elis), VIII, *b* 130; (Olympia), XVII, a b 787
Pisaurum, town. See PESARO
Piscary, Common of, VI, a 187
Piscator, dialogue (Lucian), XV, b 46
Piscator, Johann, philologist (Buxtorf), IV, a 535
Pisces, sign of Zodiac, XXIV, b 829, *b* 830, a b 831, a 833
Piscicola, genus (Leech), XIV, *a* 404
PISCICULTURE, XIX, a 135-8
    artificial propagation, a 137-8
    economists, schools of, a b 136
    extermination of animals, a 135-6
    history of, b 136-7
    literature, b 138
    public hatcheries, a b 138
    treatises, b 138

—— (Connecticut), VI, a 256; (Ichthyology), XII, a b 703; (Maine), XV, a 303; (New Hampshire), XVII, a 402; (New Zealand), a 483, note; (Oyster), XVIII, a 112-4; (Salmonidæ), XXI, a b 237; (Smithsonian), XXII, a 916. See FISHERIES
Piscinæ, church- (Architecture), II, b 413
——, Roman (Baths), III, *b* 375, b 377; (Aqueduct), II, b 192
Piscivorous dentition (Mammalia), XV, a 357
Pisco, city (Peru), XVIII, b 687
Pisdra, Pisren or Pisra, town. See PRISREND
PISEK, town, XIX, b 138
Pisemski, novelist (Russia), XXI, a 116
Pisé-work (Building), IV, b 421
Pishin valley, route to India (Kandahar), XIII, b 844, a 845; (Quetta), XX, b 184, a 185
Pishpek, valley (Syr-Daria), XXII, a 858
Pisides, George, writer. See GEORGE PISIDES
PISIDIA, country, XIX, b 138-9; (Numismatics), XVII, b 665; (Pamphylia), XVIII, b 210, a 211
Pisidium, development of (Mollusca) (Ill.), XVI, a 631, a 720-1
Pisistratidæ, family (Greece), XI, a b 89; reign of (Athens), III, a b 4
PISISTRATUS, tyrant, XIX, b 139-40; (Greece), XI, *b* 85, b 87, b 122; (Homer), XII, a b 119-20; (Libraries), XIV, *b* 509; (Panathenæa), XVIII, b 213, a 214; (Solon), XXII, b 268
Piso, Caius Calpurnius, conspirator (Nero), XVII, b 359
——, Cneius Calpurnius, consul (Germanicus), X, *a* 401
——, Cneius Licinianus, Cæsar (Galba), X, a 21
Pisolite (Mineralogy), XVI, a 414
Pisolitic limestone (Geology) X, a 320; ores (Iron), XIII, a 293, b 303; structure (Geology), X, b 204, a 207
Pisra or Pisren, town. See PRISREND
Pissevache, waterfall (Switzerland), XXII, b 815
Pissoceros of Pliny (Bee), III, b 424
Pissophane (Mineralogy), XVI, b 418
Pistachio Galls X, a 42
PISTACHIO NUT, XIX, b 140; XVII, b 683, a 684; (Afghânistân), I, b 208, b 218; oil (Kurdistan), XIV, a 159
Pistacia, genus (Mastic), XV, b 627-8
Pistia Stratiotes, plant (Nile), XVII, b 518, note
Pistil or gynœcium (Botany) (Ill.), IV, b 113, b 114, b 121, a 122, b 127-9; (Grasses) (Ill.), XI, b 50-1; transformations of (Botany), IV, b 131
Pistillate flower (Botany), IV, b 114
PISTOIA or PISTOJA, city, XIX, b 140-1; retable (Metal-Work) (Ill.), XVI, b 81
——, Cino da, poet. See CINO DA PISTOIA
Pistole, privilege (Prison Discipline), XIX, a 778
Pistol pipe stove (Iron) (Ill.), XIII, a b 310
Pistols, weapons (Colt), VI, b 149; (Gunmaking), XI, b 252-3; (Pistoia), XIX, a 141 note
Piston, construction of (Steam-Engine), XXII, a 538, a b 539, b 541; inertia of (Steam-Engine), b 534, b 535; comparative motion (Mechanics), XV, b 761; slide-valve (Steam-Engine) (Ill.), XXII, a b 528; valves, *b* 540, a 546
Pistons, musical (Ophicleide), XVII, a b 801; (Trombone), XXIII, a b 624; (Trumpet), b 631
Piston ventilators (Coal), VI, b 66
Pistor and Martins, opticians (Transit Circle), XXIII, a b 548
Pistyll Cain, waterfall (Merioneth), XVI, b 43
Pisuerga, river (Palencia), XVIII, a 172
Pisum, plant (Pea), XVIII, a b 452
Pitakas, sacred writings (India), XII, a 824; (Jains), XIII, b 553

Pitard, Jean, physician (Surgery), XXII, a 710
PITCAIRN or PITCAIRN'S ISLAND, XIX, a b 141; (Tuamotu), XXIII, a 640
PITCAIRNE, Archibald, physician, XIX, b 141–2
Pitch (Coal Tar Colors), XVIII, a 900; (Constitution of Bodies), VI, a b 277; (Tar), XXIII, a 63, a 64; hard (Gas and Gas-Lighting), X, a 91
——, musical (Music), XVII, a 109–10; (Organ), b 853; (Telephones), XXIII, a 931 note; (Tuning-Fork), a 659; (Voice), XXIV, a b 295; function of, in language (Philology), XVIII, b 802; of sound (Acoustics), I, b 97, a 98, b 100, a 105, *a* b 107; of tone (Ear), VII, b 512, a b 513
Pitch-blende. See Pitchstone
—— circles (Clocks), VI, a b 32
Pitcher-plant (Botany (Ill.), IV, b 89, a 101, a 102, a 103; (Insectivorous Plants) (Ill.), XIII, a b 140, b 144–6; (India), XII, b 778
Pitching, deposit (Leather), XIV, a 385
Pitch lake, Trinidad (Petroleum), XVIII, a 885; (Trinidad), XXIII, b 610
—— line of pulley or drum (Mechanics), XV, a 770; of wheel-teeth (Mechanics), b 765–6
—— Pine, XIX, b 113
Pitchstone (Geology) (Ill.), X, a 206, b 208; (Mineralogy), XVI, a 387; (Uranium), XXIV, b 11, a 12
Pitea Elf or river (Sweden), XXII, a 774
Pitecchio, fortress (Cino da Pistoia), V, b 686
Pith (Botany) (Ill.), IV, *a* b 89
Pithagoras. See Pythagoras
Pithecia, genus (America), I, b 598; (Ape), II, a 135, a 137, a b 138, a 139, a b 141, *a* 143, b 144, *a* 145
Pithecusa, island. See ISCHIA
Pitho, satrap (Persia), XVIII, a b 597
Pithole, city (Petroleum), XVIII, b 729, a 889
PITHOM, city, XIX, a 143; (Rameses), XX, b 277, a 278
PITHOU, Pierre, jurist, XIX, a 143; (Thou), XXIII, a 336
Pitiscus, Bartholomæus, mathematician (Stevinus), XXII, a 574; (Tables), XXIII, a b 13; (Trigonometry), b 597
Pitlessie Fair, painting (Wilkie), XXIV, b 599–600
Pitman, Isaac, phonographer (Phonetics), XVIII, a 825; (Shorthand), XXI, a 877–9, b 881
Piton, peak (Canary Islands), IV, b 704, *a* 705
——, mountain (Rodriguez), XX, b 634
—— de Fournaise, volcano (Réunion), XX, a 506
—— des Neiges, mountain (Réunion), XX, a 506
—— du Milieu del Ile (Mauritius), XV, b 646
Pitot velocity tube (Hydromechanics) (Ill.), XII, a 536–a b 537
Pitra, Jean Baptiste, cardinal (Hymns), XII, b 614, *a b* 615
Pits, cell-growth (Histology), XII, a 13, b 18, b 20, *a* 21
——, garden (Horticulture) (Ill.), XII, b 230–1
Pitt, mount (Norfolk Is.), XVII, a 551
——, mountain (Oregon), XVII, b 845; (United States), XXIII, a 851
——, Thomas, governor (Chatham), V, a 381
——, William, the Elder. See CHATHAM, Earl of
PITT, William, the Younger, premier, XIX, a 143–59
  Addington ministry, b 155–7
  death, a b 158
  domestic policy, a b 152, a 155
  education, a 144–5
  enters public life, b 145–6
  estimates of, b 158–9
  father's death, a 145
  first administration, a 152–5
  Fox-North coalition, b 147–9
  French revolution, a 153–4
  Irish policy, a b 155
  opposes the House of Commons, as premier, a b 149
  oratorical training, b 144–5
  parentage and childhood, a b 143
  Parliamentary government, a 150–1
  patronage of letters and art, b 151–2
  personal character, a b 151
  policy of first administration, a 154–5
  regency, the, b 152–3
  Rockingham ministry, b 146–7
  second administration, a 157–8
  Shelburne ministry, a b 147
  war administration, a 154–5
—— (Addington), I, b 133, a 134; (Burke), IV, a 487, *b* 489, *a* 490, a 491; (Cabinet), b 550; (Canning), a b 714; (Eden), VII, a 566; (England), VIII, *b* 321–2, a 323–5; (Finance), IX, b 162, a b 163; (Fox, C. J.), b 438, a b 440; (France), b 532, a 533, a 535, b 537, a 540; (George III., IV.), X, a b 382, *a* b 383, a b 384; (Grattan), XI, a 56; (Grenville), b 166; (Grey), b 169–70; (Hastings), *b* 460; (Hunter), XII, b 405; (Ireland), XIII, a 277; (Londonderry), XIV, *a* b 865; (Miranda), XVI, b 521, a 522; (Moore, Sir John), b 830; (Paine), XVIII, a 141; (Parliament), a b 314; (Post-Office), XIX, b 581; (Slavery), XXII, a 148; (Tierney), XXIII, b 409; (Tooke), b 473, a 474; (Thurlow), *a* 354; (Wellesley), XXIV, *b* 519, *a* 520; (Wilberforce), *b* 596, a 597
PITTA, bird (Ill.), XIX, a b 159
PITTACUS, sage, XIX, b 159–60; (Greece), XI, b 85
Pitticite (Mineralogy), XVI, a–b 425
Pittidæ, family (Birds), III, a 662
Pitt Diamond (Ill.), VII, a 143, a 144
Pitti Gallery (Dolci), VII, b 298; (Florence), IX, a 291; (Robusti), XX, b 626; (Sarto), XXI, *a* 331; (Schools of Painting), b 467; (Titian), XXIII, a 443
Pittites, the (Pitt), XIX, b 158
Pitt-Rivers, Lane Fox, general (Sword), XXII, a 839, b 842
PITTSBURGH, city (Plan), XIX, a 160–2; (Natural Gas), XVIII, b 896, a b 897, a 898; (Patents), a 883; (Smoke Abatement), XXII, b 192
—— Coal, VI, a 57; (Ohio), XVII, a 756; (Pennsylvania), XVIII, b 512; (United States), XXIII, a 865
—— gas district (United States), XXIII, a 866
—— Landing, battle of, 1862 (United States), XXIII, a 825, a 838
PITTSFIELD, city, Massachusetts, XIX, a 162
Pitt's Island (Chatham Islands), V, *a* 385
Pittston, Maine, town (Gardiner), X, a 69
PITTSTON, Pennsylvania, XIX, a 162
Pituitary body (Anatomy), I, a 770, b 771; nasal membrane (Anatomy), a 777
Pit-vipers (Rattlesnake), XX, b 305; (Snakes), XXII, a 204, b 210
Pityriasis, disease (Birds), III, a 662; (Parasitism), XVIII, b 274; (Skin Diseases), XXII, a b 131
Pityusa, colony (Lampsacus), XIV, b 250
Pityusæ or Pine Islands (Balearic Islands), III, b 239
Piura, San Miguel de, Peru town and region (Acclimatization), I, b 84; (Peru), XVIII, a 684, b 687
PIUS I., pope, XIX, a 162; (Easter), VII, b 531
PIUS II., Æneas Sylvius, pope, XIX, a 162–3; (Alexander VI.), I, a 431; (Catherine), V, a 201; (Ferdinand I., Naples), IX, a 69; (Ireland), XIII, b 267; (Pinturicchio) XIX, *a* 118; (Popedom), a b 517, a 518, b 524; (Reformation), XX, *a* 336; (Rimini), b 571, a 572, b 573, a 574; (Scotland), XXI, a 557; (Siena), XXII, *a* 47; (Universities), XXIII, b 897, *a* 898; works of (Typography), *b* 735
PIUS III., pope, XIX, b 163–4; (Pinturicchio), a 118
PIUS IV., pope, XIX, a 164; (Borromeo), IV, a 58; (Channel Islands), V, a 341; (England), VIII, a 306; (Ferdinand I.), IX, a 68; (Manutius), XV, a 521; (Palestrina), XVIII, b 183, a 185; (Popedom), XIX, a 519, b 524; (Roman Catholic Church), XX, b 645; (Trent, Council of), XXIII, b 582, a b 583
PIUS V., pope, XIX, a b 164; (Cardan), V, b 81; (Cardinal), b 85; (Inquisition), XIII, a 101; (Jesuits), a 664; (Mary), XV, b 598; (Missal), XVI, b 531, b 534 note; (Popedom), XIX, a 519, b 524
PIUS VI., pope, XIX, b 164–5; (France), IX, b 536, a 537; (Monachism), XVI, a 740; (Napoleon I.), XVII, b 204, b 207; (Popedom), XIX, a b 522; (Subiaco), XXII, a 649
PIUS VII., pope, XIX, b 165–6; (Carnival), V, a 109; (Consalvi), VI, *a b* 259; (Fesch), IX, *a* 99; (Jesuits), XIII, b 666; (Lyons), XV, b 112; (Popedom), XIX, b 522, *a* 523
PIUS VIII., pope, XIX, a 166
PIUS IX., pope, XIX, a 166–9
  biographers, a 169
  deserts the national cause, a b 167
  garrisoned by Napoleon, III., b 168
  last days, b 168–9
  liberal administration, b 166–7
  loss of the papal states, a b 168
  reactionary policy, b 167–8
  youth and advancement of, a b 166
  united Italy period, b 168–9
—— (Gaeta), X, a 14; (Immaculate Conception), XII, b 754; (Inquisition), XIII, b 101; (Italy), a b 498, a 499, b 501; (Jesuits), a 667; (Liguori), XIV, a 642, b 643; (Mazzini), XV, a b 662; (Plain Song), XIX, b 180; (Roman Catholic Church), XX, b 645, *a* 647; (Rome), a b 824; (Vatican Council), XXIV, *a* b 121, a *b* 122, a *b* 123
Pivati, Gianfrancesco, editor (Encyclopædia), VIII, b 179
Pivots (Mechanics), XV, b 776
Pivot tooth (Dentistry), VII, b 87
Pixodarus, prince (Caria), V, a 91
Pixii's machine (Electricity), VIII, a 12
Piyadasa Inscriptions. See ASOKA
PIZARRO, Francisco, brigand, XIX, a b 169; (Almagro), I, a 519; (America), a 615; (Atahualpa), II, a b 723; (Fernandez, J.), IX, b 87; (Geography), X, a 163; (Lima), XIV, b 651; (Peru), XVIII, b 687, a b 690, a 693
——, Gonzalo, rebel (Peru), XVIII, a 691

Pizzofalcone, promontory (Naples), XVII, a 195, a 196
Pizzolo, Niccolò, painter (Mantegna), XV, b 508 note
"Placaart," manifesto (Contraband), VI, b 284
Placcius, Vincent, teacher (Bibliography), III, *a* 569
Placenta (Botany) (Ill.), IV, b 127, a 129-30; (Primrose), XIX, b 756, note
—— (Mammalia), XV, b 371-3; (Pathology), XVIII, b 367; deciduate (Mammalia), XV, b 372; diffused (Mammalia), b 372; discoidal (Mammalia), a 373; formation of (Pathology) (Ill.), XVIII, b 368, a 369, b 371; zonary (Mammalia), XV, b 372; degeneration (Pathology), XVIII, a 399; function in congenital disorders (Pathology), a 381-2, a b 393
Placentia, bay (Newfoundland), XVII, a 392
——, city. See PIACENZA
Placentinus, jurist (Bulgarus), IV, a 463
Placer-mining (California), IV, b 621, a 622; (Gold), X, a 663-4; (New Mexico), XVII, *b* 410
Places of arms, spaces (Fortification), IX, a 393
Placet, legal term (Veto), XXIV, a 225
Placitum regium, royal permission (Concordat), VI, b 215; (Joseph II.), XIII, b 760
Placodei, family (Lichens), XIV, a 565
Placodermi, sub-order (Ichthyology), XII, b 705
Placoids (Agassiz), I, *a* 246; (Ichthyology), XII, b 670, b 676
Placospongidæ, family (Sponges), XXII, a 440
Placuna placenta, mollusc (Pearl), XVIII, a 459, note
Pladda, island (Bute), IV, *a* 516
Plagiaulax, fossil (Kangaroo), XIII, b 850-1; (Mammalia) (Ill.), XV, b 378, *a b* 379
Plagioclase rocks (Geology), X, a 203, b 207-8, b 209-10; (Granite), XI, *b* 43
Plagiodontia, genus (Mammalia), XV, b 425
Plagionite (Mineralogy) (Ill.), XVI, a 411
Plagiostomata, sub-order (Ichthyology), XII, a 672, b 700, a b 705, a 716, b 723-4; (Reproduction), XX, b 421, b 425
Plagiotropic plant organs (Physiology), XIX, a 69
Plagium, law-term (Theft), XXIII, a 253
PLAGUE, pest, XIX, a 169-79
  conditions of, a b 171
  contagion, a 172
  course of, b 170, b 173
  defined, b 169
  early scourges, a b 174
  eighteenth century, a 176-7
  history, a 174-9
  incubation, b 173
  India, b 178-9
  literature, a 179
  London plague, b 175-6
  mediæval scourges, b 174-5
PLAGUE, *continued*
  nineteenth century, a 177-8
  origin and spread, b 171-3
  pathology, b 170-1
  periodicity, b 173
  prevention, b 173-4
  seventeenth century, a 175-6
  symptoms, b 169-70
  trausmission by merchandise, b 172-3
—— (Aleppo), I, a 423; (Apollo), II, a 163; (Aurelius), III, b 76; (Camoens), IV, *b* 661; (Chester), V, b 526; (China), a 560; (Cranmer), VI, b 485; (Egypt), VII, a b 610; (England), VIII, a 292; (Howard), XII, *a* 335; (Newton), XVII, b 450; (New York), a 895; (Norwich), a 610; (Quarantine), XX, b 162, *a* 164; (Vaccination), XXIV, a 33
—— of Athens (Pericles), XVIII, a 544, note; (Thucydides), XXIII, b 344-5; at Bordeaux (Montaigne), XVI, b 795; beneficent effect of (Universities), XXIII, a 894; black (Mongols), XVI, b 773; Byzantine empire (Greece), XI, b 104; cattle (Veterinary Science), XXIV, a *b* 216; cure of (Roch), XX, a 627; of flies, Biblical (Diptera), VII, b 223
—— of London, XIV, b 858, a b 859; (Pepys), XVIII, b 530; (Presbyterianism), XIX, a 710; *History of the* (Defoe), VII, *a* 27, a 29
Plague at Marseilles, painting (Troy), XXIII, b 627
Plague of Milan, 1630 (Torture), XXIII, b 496; of Venice, 1576 (Titian), XXIII, b 442
PLAICE, fish, XIX, a 179; (Fisheries), IX, a 213, *b* 216; (Ichthyology), XII, b 730
Plaid (Costume), VI, b 424
Plaideurs, Les (Drama), VII, b 368; (Racine), XX, a b 213
Plain Dealer, play (Wycherly), XXIV, b 741, *a b* 742, b 743, a 744
Plaine Discovery (Napier), XVII, b 184, a 185, notes
PLAINFIELD, town, N. J., XIX, a 179
Plainpalais, commune (Geneva), X, b 131, b 132, a b 133, b 134
Plains (China), V, b 547, a b 548; (Greece), XI, b 74; (Poland), XIX, a b 318; (Siberia), XXII, b 7; (Texas), XXIII, a 320, *a* 222. See Plateau
——, Great, United States (Prairie), XIX, b 924; (Montana), XVI, a 799; vegetation of (United States), XXIII, b 862
—— of Abraham (Quebec), XX, b 174
—— of Northern India (Himalaya), XI, b 735, b 738, b 740
—— of Portugal (Alemtejo), I, a 422
PLAIN SONG or CHANT, XIX, a 179-80
Plain, submarine (Geology), X, b 254
Plain spirit (Whiskey), XXIV, a 573
Plaintiff (Costs), VI, *b* 399-400
Plain Weaving, XXIV, a b 490
Plaistow, suburb (London), XIV, a 827, b 846
Plakina, genus (Sponges) (Ill.), XXII, *b* 429, a 440, a b 442
Plakinidæ, family (Sponges), XXII, a 440, b 444
Plana, island (Alicante), I, a 506
——, Giovanni Antonio Amedeo, physicist (Electricity), VIII, b 30; on lunar acceleration (Tides), XXIII, a 402
PLANARIANS (Ill.), XIX, b 180-5
  digestive system (Ill.), a b 182
  excretory system, b 182
  external characteristics, b 180-1
  integument (Ill.), a 181-2
  literature, b 185
  names, b 180
  nervous system (Ill.), b 182-3
  reproductive organs (Ill.), b 183-4
  sense organs, a b 183
  systematic arrangement (Ill.), b 184-5
—— (Morphology), XVI, b 869
Planché, James Robinson, dramatist (Drama), VII, a 379; (Heraldry), XI, b 616, b 622, a 623, a 637
Planches Coloriées d'Oiseaux, Temminck (Ornithology), XVIII, b 16
—— *Enluminéez d' histoire naturelle*, D'Aubenton (Ornithology), XVIII, a 10, a 11, *b* 16
Planchon, pass (Chili), V, b 535
——, J. E., botanist (Vine), XXIV, a 255, a 256
Plancius, Peter, geographer (Geography), X, a 165; (Navigation), XVII, b 260; (Polar Regions), XIX, a 329
PLANCK, Gottlieb Jakob, historian, XIX, b 185-6
Plane, tree (Arboriculture), II, b 278, b 281; (Cos), VI, b 393; of Gortys (Numismatics), XVII, a 661
——, equation of (Geometry), X, b 374-5; osculating (Geometry), X, b 377; primary (Optics), XVII, a 823; representation of a (Projection), XIX, a b 822; rotation of a (Measurement), XV, a b 673; tangent to surfaces (Geometry), X, b 377-8; theory of the (Measurement), XV, a b 666
——, Ernest, scholar (Camisards), IV, a 659
—— analytical geometry (Geometry), X, b 336-73
—— curve, order of (Surface), XXII, b 702, a 703; singularities (Surface), XXII, b 703, note
——, figures (Mensuration), XVI, a 18-27; (Projection), XIX, b 814; curvilineal (Mensuration), XVI, a 21-5; irregular (Mensuration), a 25-7; kinematics of rigid (Mechanics), XV, b 697-8; of flexure (Elasticity), VII, a b 702; geometry, Euclid's (Geometry), X, a 335-40, a 342-3; layer motion (Hydromechanics), XII, a 481; mirror and lens (Wave Theory), XXIV, b 450; motion (Hydromechanics), XII, a 469-72; polarization (Wave Theory), XXIV, a 471; projective definition of (Geometry), X, a b 347; uniform wave (Wave Theory), XXIV, a b 464, a 465, a 473; Waves, XXIV, a b 444, a b 446, b 477-8
Planer, Wilhelmina, actress (Wagner), XXIV, a 334, a 337
Planes (Hand Tools) (Ill.), XI, a b 391
——, inclined (Canal), IV, a b 693
Planes and lines in space (Geometry), X, b 343-5; not in perspective (Projection), XIX, b 816; of no distortion in strain (Mechanics), XV, b 701-2
Planet, distortion of plastic (Tides), XXIII, b 404
Planeta cloak (Costume), VI, b 408-9
Plane table (Surveying), XXII, b 755
Planetarium of Archimedes (Astronomy), II, b 654
Planetary aberration (Hodograph), XII, a 46; ellipsoid, capacity of (Electricity), VIII, a 29
Planetary Hypothesis (Ptolemy), XX, b 96
Planetary motion (Astronomy) (Ill.), II, a b 679; (Gravitation), XI, b 63-8; (Kepler), XIV, b 48, a *b* 49; (Lagrange), b 210; (Laplace), b 301; (Leverrier), *b* 486; (Mechanics), XV, a 692-3, a 715-6, b 732-3; (Philolaus), XVIII, b 778; (Nebular Theory), XVII, b 319-20; (Ptolemy), XX, b 95-6
—— orbits (Astronomy), II, 680; secular variations of (Parallax), XVIII, a 250, a 251
——, relative motion of satellites (Moon), XVI, b 828, a 829; (Tides), XXIII, b 400-1; rotation retarded (Tides), a 400
—— sub-systems (Tides), XXIII, a *b* 405-6
—— system, stability of (Astronomy), II, a 665
—— tables (Lalande), XIV, a 226
Planetoids (Telescopic Work), XXIII, a 936
Plane trigonometry (Ptolemy), XX, a b 92, a b 93; (Trigonometry), XXIII, a 598-601
Planets (Alchemy), I, b 407, a 410; (Astronomy), II, b 691-2, b 703-19; densities of (Geology), X, a b 191; light of (Photometry), XVIII, a 856; names of (Saturn), XXI, b 336

Plane vortex motion (Hydromechanics), XII, b 468-9
Planimeters (Mechanics), XV, b 781; (Surveying) (Ill.), XXII, a b 759
Planing machine (Machine Tools) (Ill.), XV, b 155-6
Planipennia, group (Insects), XIII, a 158
Planisphere (Ptolemy), XX, b 96
Planisphere, Chaldæan (Zodiac), XXIV, b 834; Egypto-Greek, b 834; invention of (Astronomy) II, b 655
Plank, bending of (Mechanics), XV, a b 752; horizontal, under vertical forces (Mechanics), b 752; vibration of (Mechanics), b 752-3
Planking (Shipbuilding) (Ill.), XXI, b 857-8
——, foundation (Building), IV, b 408
Planks, defined (Building), IV, b 435
Planorbis, genus (Mollusca), XVI, b 684, a 686
Planorbulina, genus (Foraminifera) (Ill.), IX, *b* 333
Planta of bird's foot (Ornithology), XVIII, b 33, a b 34, b 41
PLANTAGENET family, XIX, a b 186; (Finance), IX, b 154-5
——, Geoffrey, count (Anjou), II, b 52; (Normandy), XVII, a b 558
——, Thomas, earl of Lancaster (York), XXIV, *b* 786
Plantago, plant (Botany), IV, a 106, b 108, b 110, b 113, a b 122, a 125, b 131; (Plantain) (Ill.), XIX, b 186-7
PLANTAIN, plant (Ill.), XIX, b 186-7; (Botany), IV, *b* 75, a 86, a 94, b 98, b 134; (Fibres, Textile), IX, a 116
—— - eater. See TOURAKOO
—— Garden, river (Jamaica), XIII, b 558
Plantamour, A., physicist (Seismometer), XXI, a 661 note
Plantar nerve (Anatomy), I, b 763
Plantations, management of (Arboriculture), II, b 282-3
Plant conjugation (Reproduction), XX, *b* 437-9, a 440-2
Plantes, Familles des (Adanson), I, a b 133
—— houses (Horticulture) (Ill.), XII, a 225-37
Plantigrade (Mammalia), XV, b 362, a 440; fossils (Zoology, American), XXIV, b 923, b 925
PLANTIN, Christophe, printer, XIX, b 187-8; (Typography), XXIII, a 739, a 740; Typographical Museum (Antwerp), II, a b 128
Planting (Horticulture), XII, a b 218, a b 245; fruit tree (Horticulture), a b 245, b 278 *sq.*
Plant-lice (Insects), XIII, a 160
Plants (Acclimatization), I, *b* 80, *b* 81, a b 82, b 83; (Breeds), IV, b 219, a b 220, b 221, a *b* 222, b 224-5; (Distribution), VII, b 248-52; (Hibernation), XI, a 704; (Histology), XII, a 12-21; (Hybridism), b 437 *sq.*; (Longevity), XIV, *a* 868; (Physiology), XIX, a 50-71; (Reproduction), XX, a 435-44
——, annual (Horticulture), XII, b 254-6; aquatic (Aquarium), II, b 189-90; biennial (Horticulture), XII, a b 256; Coal-producing, VI, b 45-6; composition of (Manure), XV, a 513
——, dynamic action of (Geology), X, a 256-7; earliest exogenous fossil (Geology), a 319; fertilization of (Hymenoptera), XII, b 609; food of (Horticulture), b 609; (Liebig), XIV, a b 571; (Manure), XV, a 513, a 514-6; growth of (Physiology), XIX, b 64-9; marine (Atlantic Ocean), III, b 24; mimetic forms of (Mimicry), XVI, a 355; petrified (Mineralogy), b 386; miocene Arctic (Geology), X, a b 323; monœcious (Horticulture), XII, a 220; movement of (Physiology), XIX, b 64-71; perennial (Horticulture), XII, b 256-68; physiology of (Protozoa), XIX, b 852, a 853; polymorphic (Horticulture), XII, b 219; respiration (Horticulture), *b* 216; rest of (Sleep), XXII, b 166; rocks formed of (Geology), X, b 212-3; sprouting sign (Zodiac), XXIV, a 831; subterranean (Peru), XVIII, b 683; training (Horticulture) (Ill.), XII, b 252. See Vegetable, Vegetation
——, *History of*, Cole (Hops), XII, b 161; (Horseradish), a 212
——, *History of*, Theophrastus, XXIII, a 297
Plant stove (Horticulture) (Ill.), XII, b 226-7
—— totems (Totemism), XXIII, b 497
Planudes, Maximus (Æsop), I, b 190, a 191; (Anthology), II, a *b* 92
Planula stage (Hydrozoa), XII, b 590; (Sponges), XXII, b 441, b 442
Plaques (Ivory), XIII, b 532, a b 533; Ancient Egyptian (Pottery and Porcelain), XIX, b 620
PLASENCIA, town, XIX, a 188
Plasma, gem (Agate), I, b 248; (Mineralogy), XVI, b 405
—— in blood (Respiration), XX, b 496, b 497; canals (Anatomy), I, b 746
Plasmodiata, section (Protozoa), XIX, a 860
Plasmodium, stage (Protozoa), XIX, b 858, a b 861, a b 863
Plasmogen or true protoplasm (Zoology), XXIV, a 856
Plasmology, cell-study (Zoology), XXIV, b 842, a b 856
Plasmolysis (Insectivorous Plants), XIII, b 141
Plassenburg, fortress (Kulmbach), XIV, b 155
Plassy, battle of, 1757 (Clive), VI, a 11; (India), XII, b 840
Plaster (Lime), XIV, a 654; painting on (Building), IV, a 458
—— casts (Sculpture), XXI, a 598
—— floors, expansion of (Building), IV, b 407
Plastering (Architecture), II, b 413; (Building), IV, a 451-2
Plastering wine (Adulteration), I, *b* 157; (Wine), XXIV, a 635
Plaster of Paris. See GYPSUM
Plastic art, relation of Poetry to, XIX, b 274-5
—— clay (Geology), X, b 320
Plasticity (Elasticity), VII, a 696; (Metals), XVI, b 69, b 70, b 73
Plastic strain (Strength of Materials), XXII, a 625
Plastides, cells (Mollusca), XVI, a 657; (Morphology), b 868, a 870
Plastidozoa, grade (Zoology), XXIV, a 851
Plastilin, plastic material (Mathematical Drawing and Modelling), XV, b 635
Plastron, integument (Reptiles), XX, b 459; (Skeleton), XXII, b 116, b 120; (Tortoise), XXIII, b 484
Plat, Sir Hugh (Agriculture), I, b 264
Plata, republic. See Argentine Republic
——, Rio de la. See PLATE, river
Platacanthomys, rodents (Mammalia), XV, b 350
Platacanthomyinæ, subfamily (Mammalia), XV, a 422, a 424
PLATÆA or Platææ, city, XIX, b 188-9; (Greece), XI, b 83, b 89, *a* 90; (Isocrates), XIII, a 403; battle of, 479 B.C. (Aristides), II, b 444; (Pausanias), XVIII, b 447; (Tegea), XXIII, b 117; trophy of (Metal-Work), XVI, b 79-80; (Tiryns), XXIII, a 435 note
Plataicus (Isocrates), XIII, a 403
Platalea, genus (Spoonbill), XXII, a b 447
Platanista, genus (Mammalia), XV, a b 397, a 399, a b 401; distribution of (Mammalia), b 376
Platanistidæ, family (Mammalia), XV, a b 401
PLATE (Ill.), XIX, a 189-98
  assay and hall-marks, b 197-8
  Assyrian and Phœnician (Ill.), b 189-90
  authorities, a b 198
  Crimean, a 193
  Egyptian (Ill.), a b 189
  English (Ill.), a 196-7
  Etruscan, a b 190
  German (Ill.), a 195-6
  Græco-Roman and Roman, a 192-3
  Hellenic (Ill.), b 190-2
  Italian, b 194-5
PLATE, *continued*
  Mediæval (Ill.), b 193-4
  metals used, a 189
  Oriental, a b 193, a 198
  Spanish, a 196
——, (Adulteration), I, a b 160
——, island (Princess Islands), XIX, a b 761
PLATE or Plata, La, river, XIX, b 198-200; (America), I, *b* 592, a 593; (Uruguay), XXIV, a 19, a b 20, a 21; basin (America), I, b 588, a b 589, a 593; (Gran Chaco), XI, b 42; (Meteorology), XVI, b 154, b 158
—— Armor (Arms, etc.) (Ill.), II, b 487-8
PLATEAU, Joseph Antoine Ferdinand, physicist, XIX, b 200; (Capillary Action), V, b 52, b 60
Plateaus (Asia and Asia Minor), II, b 599, a 615; (Brazil), IV, *b* 200; India (Asia), II, b 598; Persia (Asia), a 599, b 602; (Siberia), XXII, b 6-7; Tibet (Asia), II, a 598; (Transbaikalia), XXIII, *b* 541, a *b* 542; life forms of Persian (Asia), II, b 604, b 606; submarine (Pacific Ocean), XVIII, b 124. See Plains
PLATED WARE, XIX, b 200-1
Plate gauge (Gauge), X, *b* 99
—— Glass (Ill.), X, a 590-1
Platen presses (Typography) (Ill.), XXIII, b 750-2
PLATEN-HALLERMUND, August, Graf von, poet, XIX, a 201; (Germany), X, a b 487; (Leopardi), XIV, b 465, a 466
Plate printing (Engraving), VIII, a b 391
Plater, Emilia, heroine (Mickiewicz), XVI, b 250
Plate reflections of light (Wave Theory), XXIV, a b 482
Plateresque style (Architecture), II, b 386
Plater's Giants, X, a 511
Platerspil, musical (Tournebout), XXIII, b 521
Plates, colors of (Light), XIV, b 613-4; (Wave Theory), XXIV, a 448-50; vibrations of (Acoustics), I, b 105-6, a 109
Plate Swimming, XXII, a b 809
Platforms (Railway), XX, b 243
Platin-ammonium compounds (Platinum), XIX, b 203
Platinic chloride (Platinum), XIX, a 203; hydrates (Platinum), a 203
Platiniridium (Mineralogy), XVI, b 398
Platinized Charcoal, V, b 346; iron (Iron), XIII, a 368
Platinocyanides (Chemistry), V, a 466; (Platinum), XIX, b 203
Platinodianmonium hydroxide (Chemistry), V, b 466
Platinous chloride (Platinum), XIX, a 203; hydrate (Platinum), a 203

Platinum and **Platinum Metals**, XIX, a 201–5
  alloys, b 202–3
  characteristics of, a b 202
  compounds, a b 203
  extraction of, b 201–2
  history, a b 201
  oxides and salts, a 204
  palladium, osmium and osmiridium, b 204-5
  polyxene metals, b 203-4
  statistics, b 205

—— (Blowpipe), III, a 728; (Chemistry), V, a 465–6; (Elasticity), VII, b 697 note, 708, a b 709; (Iridium), XIII, b 281–2; (Iron), b 290; (Lithium), XIV, b 703 note; (Mineralogy), XVI, a 392, b 398; (Mining), b 490; (Mirrors), a 524; (Nitrogen), XVII, b 529; (Ural Mountains), XXIV, *a* 10; (Wire), a 918; (Wollaston), *a* 667
——, action of light on (Photography), XVIII, b 852; mean specific heat of (Pyrometer), XX, a 139; air (Pyrometer), a 138; black (Platinum), XIX, b 202; coinage (Numismatics), XVII, a 677; metals (Sainte-Claire Deville), XXI, b 174; printing, charting (Surveying), XXII, a 753; reaction (Sulphur), b 669; reaction in gases (Chemistry), V, b 418; retort (Sulphur), XXII, b 670; soldering (Oxyhydrogen Flame), XVIII, a 109
Platner, Ernst, metaphysician (Bretschneider), IV, b 233
Plato, king, coins of (Persia), XVIII, b 601
Plato, philosopher, XIX, a 205–24
  Apology, b 209–10
  biographical notes, a b 205
  Cratylus, b 214
  Crito, b 210
  dialectical dialogues, a 217–20
  dialogues, b 207 *sq.*
  doubted works, b 222
  editions, b 223–4
  Euthydemus, b 217–8
  Euthyphro, a b 209
  Gorgias, b 214–5
  imaginative dialogues, b 220–1
  Laches, Charmides, Lysis, *a* 208
  Laws, b 221–2
  Parmenides, a b 218
  Phædo, b 210-12
  Phædrus, a 213–4
  Philebus, a b 220
  Platonists, b 222–3
  Politicus, b 219-20
  Protagoras, Io, Meno, a 208–9
  Republic, b 215–7
  Socrates, b 206–7
  Sophist, b 218–9
  Symposium, a 212–3
  tendencies of the age, a 206
  Theætetus, b 218
  Timæus, a b 221

—— (Academy), I, a 67; (Adam) a 127; (Æsthetics), b 191, *b* 193–4; (Analysis), a b 696; (Anatomy), a 702; (Antisthenes), II, b 120; (Astronomy), b 653; (Archytas), a 420; (Aristotle), a 449, a 451, b 454, a 455, a 458 note; (Ast), a 643; (Bacon), III, a 186, note; (Book), IV, a 35; (Clemens Alexandrinus), V, a 717; (Dion), VII, b 214, a 215; (Dream), *b* 392, a 393; (Education), a 582; (Epitaph), VIII, a b 438; (Ethics), a 510–2, *a* b 513; note; (Evolution), b 662; (Ficino, M.), IX, b 121, *a* 122; (Fine Arts), b 173; (Gemistus), X, a 122; (Greece), XI, a b 127, b 133; (Grote), a b 192; (Gymnasium), b 310
—— (Homer), XII, a b 113; (Isocrates), XIII, b 398, a b 401, b 402; (John of Salisbury), b 729; (Logic), XIV, *b* 791, *a* 792, b 793; (Logos), a 813; (Lysias), XV, b 118; (Medici), b 795; (Metaphysic), XVI, a 87, a 95–6, b 101; (Metempsychosis), b 111–2; (Mysteries), XVII, *b* 132, a 133; (Mysticism), *a* 138; (Neander), a b 313; (Palæography), XVIII, a 166; (Parmenides), b 320, b 322; (Phaëthon), a 741; (Philosophy), b 805, b 806; (Phrenology), a 857; (Poetry), XIX, a 269, b 270, b 273, a 274; (Political Economy), a 362; (Prodicus), b 813
—— (Prophet), XIX, b 836, note; (Ptolemy), XX, *a* 95; (Pythagoras), *b* 145, a b 147; (Slavery), XXII, b 139; (Socrates), b 244, a b 245, a b 246, a 247, *b* 248, *a* b 249, *a b* 250–1; (Sophists), a 277, *a b* 278, *b* 279, a *b* 280, a *b* 281, *b* 282, *a b* 283, a 284; (Stoics), *b* 591; (Xenocrates), XXIV, a *b* 754, b 755; (Zeno), a b 817, *a* 818; his conception of God (Theism), XXIII, b 257; on rotation of the earth (Boeckh), III, a 740. See Platonism
——, *Questions on* (Plutarch), XIX, b 246
——, *Translation of* (Schleiermacher), XXI, a b 428
——, pseudo- (Alchemy), I, b 409
Platometers (Mechanics), XV, b 781
Platon, Levshin or Beffschin, archbishop, XIX, a 224; (Catechism), V, b 191
Platonism (Animism), II, b 51; (Arabian Philosophy), b 232, b 233; (Bonaventura), IV, a 28; (Category), V, a 194; (Conic Sections), VI, a 242; (Epicurus), VIII, b 420–1; (Eschatology), a 473, b 474; (Ethics), a 506, a 517–8, b 526; (Italy), XIII, b 517; (Longinus), XIV, a *b* 875; (Medici), XV, b 795, b 796; (Michel Angelo), XVI, a 238, a 241; (Mysticism), XVII, a 142; (Scholasticism), XXI, *a b* 437–8, a 440, a *b* 441, *b* 445; (Speusippus), XXII, *a* b 411–2; (Stoics), a 590; (Trendelenburg), XXIII, b 577; (Universities), a 909
Platonists, Cambridge (Cudworth), VI, a 609–11; (More, Henry), XVI, a b 841; (Norris), XVII, b 565–6
Platt or Nieder Deutsch literature (Reuter), XX, a b 509. See Low German
Platte, river (Nebraska), XVII, b 315, a *b* 316
Platten-See, lake (Hungary), XII, b 376
Plattes, Gabriel (Agriculture), I, b 264, b 265
Plattner, Carl Friedrich, metallurgist, XIX, a 224–5; (Blowpipe), III, *a* 729, b 730; (Gold), X, a 666; (Potassium Metals), XIX, b 609
—— Blowpipe, III, *b* 727
Plattner's method (Cobalt), VI, b 76–7; researches (Metallurgy), XVI, b 67, a 68
Plattnerite (Mineralogy), XVI, a 403
Plattsburgh, town, N. Y., XIX, a 225
Platurus, genus (Snakes), XXII, b 208
Platycercomys, genus (Mammalia), XV, a 425
Platycerium, genus (Ferns), IX, a 91
Platycnemic men (Denbigh), VII, a 68
Platygaster (Hymenoptera), XII, a 610
Platyhelmia, phylum of Lankester (Zoology), XXIV, b 852
Platyhelminths (Nemertines), XVII, a b 335, b 338; (Planarians), XIX, b 180, b 184; (Protozoa), b 889; (Reproduction), XX, a 421, a 426; (Tape-Worms), XXIII, b 54–61; (Worm), XXIV, b 714–5, b 716; parasites of (Protozoa), XIX, b 877
Platymeter, instrument (Electricity), VIII, b 35
Platypsillidæ, family (Diptera), VII, a 223
Platypsylla, genus (Insects), XIII, a 149
Platypus, animal (Ill.), XIX, a 225–6; (Australia), III, a 97; (Mammalia), XV, a 380 note. See Ornithorhynchus
Platyrhina, monkey (America), I, b 598
Platyscope (Microscope), XVI, a 271
Platysma (Lichens), XIV, b 563, b 564
Platysomidæ, family (Ichthyology), XII, a 706, a 726
Platysternidæ, family of Chelonians (Tortoise) XXIII, a 486
Plauen, town, XIX, b 226
Plautianus, Lucius Fulvius, prefect (Severus), XXI, a 733
Plautius, Aulus, general (Britannia), IV, b 318; (Vespasian), XXIV, b 207
Plautorius Nepos, Aulus, general (Scotland), XXI, b 493
Plautus, Titus or Marcus Maccius, dramatist, XIX, b 226–8; (Drama), VII, b 355; (Ennius), VIII, a 398, *a* 399; (Molière), XVI, a 652; (Nævius), XVII, a 168, a *b* 169; (Ritschl), XX, a b 584; (Roman Literature), b 736, b 737; (Semitic Languages), XXI, b 678; (Slavery), XXII, a b 138, b 139; (Terence), XXIII, a 203; (Varro), XXIV, b 101; language of (Latin Language), XIV, a b 332; scansion of (Latin Language), a 330–1
Plautus, MS. (Palæography), XVIII, b 166
Playfair, Colonel (Incense), XII, b 757
Playfair, John, mathematician, XIX, b 228–9; (Algebra), I, b 456; (Hutton), XII, *a* 431; (Porism), XIX, b 534, a 535
——, Sir Lyon, chemist (Dietetics), VII, a 183, a 184; (Fermentation), IX, b 84
Playford, John, printer (Music), XVII, a b 95
Playing-cards. See Cards
Playing Cards of Mantegna (Engraving), VIII, a b 392
Play of St. Katharine (Drama), VII, a 357
Plays, Shrove Tuesday (Sachs), XXI, b 139
Play-schools (Kindergarten), XIV, b 81–2
Plaza de Almanor, mountain (Spain), XXII, a 308
Pleading, XIX, a 229–31
  criminal law, a b 231
  development, b 229-30
  Judicature Act, b 230–1
  Roman law, a 229–30
  Scotland, b 231
  United States, b 231

—— (Abatement), I, b 12–3; (Barristers), III, a 340; (Judicature), XIII, a 775, note
Pleasant Hills, Louisiana, battle of, 1863 (Taylor, R.), XXIII, a 929
Pleaskin cliff (Giant's Causeway), X, b 511
Pleasure (Hamilton, Sir W.), XI, b 374; (Hartley), b 445; (Philosophy), XVIII, a 809; (Stoics), XXII, b 595–6, b 600; eating for (Dietetics), VII, b 181; negative (Psychology), XX, b 75–6; theory of (Psychology), a b 72–5; and pain, expression of (Psychology), XX, a b 77–9; qualitative differences of (Psychology), a b 76
Pleasures of Hope (Akenside), I, a 386; (Campbell, Thomas), IV, b 667
—— *of Imagination* (Akenside, Mark), I, *a b* 386
—— *of Melancholy* (Warton), XXIV, *a* 399
—— *of Memory* (Rogers), XX, b 636–7
Plebeian courts (Roman Law), XX, a 704; debts in jus civile (Roman Law), a 711–2; language (Latin), XIV, b 336-7; marriage, jus civile (Roman Law), XX, *b* 705; rights, Roman (Claudius Cæcus), V, a 713; (Patron and Client), XVIII, b 423

Plebeians, Roman (Augustus), III, b 70–1; (Claudius Crassus), V, b 713; (Comitia), VI, b 174–5; (Consul), b 279; (Genealogy), X, b 128–9; (Nobility), XVII, a b 539, a b 540–1; (Quæstor), XX, a 152; admission to office (Tribune), XXIII, b 591; emancipation of (Priest), XIX, b 744; ennobling of (Rome), XX, b 774, note; mediæval (Rome), b 806, b 809–10, b 812; regal period (Roman Law), b 687, *b* 690, a b 691–2, a b 693, note, b 694–5; rise of the (Italy), XIII, b 486–7; struggle for equality (Roman Law), XX, a 696–7; (Rome), a 755–7
Plebiscites, Napoleon III. (France), IX, a 548, b 551
Plebiscitum (Roman Law), XX, a b 696, a 697; (Rome), a b 756, b 757
Plecoglossus, genus (Ichthyology), XII, a 710, a 732; (Salmonidæ), XXI, a 232, b 234
Plecoti, genus (Mammalia), XV, a 412. a 415
Plectida, family (Protozoa), XIX, b 873
Plectognathi, order (Ichthyology), XII, b 687, a 688, a 698, b 701, b 706, a 716, a 717, b 720, a b 733
Plectropterus, genus (Sheldrake), XXI, a 826
Plectrorhynca, genus (Zosterops), XXIV, b 863
Plectrude of Heristal (France), IX, a 469
Plectrum, instrument (Lyre), XV, a b 115; (Pianoforte), XIX, b 75
PLEDGE or PAWN, XIX, b 231–2; (Hypothec), XII, a 633
Pleiad or Pléiade, poets (Baïf), III, a 208; (Bellay), b 469, b 470; (Daurat), VI, a 735; (Drama), VII, *a* b 366; (France), IX, b 572, b 573–4; (Marot), XV, *a* 571; (Montaigne), XVI, a 794, a 796; (Pasquier), XVIII, a 346; (Pastoral), b 350; (Ronsard), XX, *b* 863, a b 864–5; (Rabelais), b 202; (Renaissance), a 403
Pleiades, players (Chess), V, a 523
——, stars (Hottentots), XII, a 325; (Zodiac), XXIV, *b* 832
Pleias, Alexandrian poets (Drama), VII, a b 351, note
Pleistocene Caves, V, a 232–3: Horse, XII, a 177, a b 178; deposit (Geology), X, a 325–7
Pleistus river (Delphi), VII, a 47; (Phocis), XVIII, a 814
Plempius, Volpiscus Fortunatus, anatomist (Harvey), XI, a b 451
Plenius, Roger, manufacturer (Pianoforte), XIX, b 78, *b* 81
Plenty, bay (New Zealand), XVII, b 479, b 480
Plenum method (Ventilation), XXIV, b 174, a 175
Pleochroism (Mineralogy), XVI, b 389
Pleomorphism (Schizomycetes) (Ill.), XXI, b 421–3
Pleonaste (Mineralogy), XVI, a 402
Pleroma, Gnostic term (Ephesians), VIII, *a* *b* 411, a 412, *a* 413; (Heracleon), XI, a 607; (Valentinus), XXIV, b 45, *a* 46
Plerome (Botany), IV, *a* 82; (Histology), XII, a *b* 17
Pleshtcheevo, lake (Pereyaslavl), XVIII, b 535
PLESIOSAURIANS, fossils (Ill.), XIX, b 232–3; (Geology), X, a b 315; (Reptiles), XX, b 478, a 479
Plessing, Friedrich Victor Lebrecht, philosopher (Goethe), X, a 649
Plessis, marshal. See CHOISEUL
Plessis-lès-Tours, palace (Tours), XXIII, a 523
Plessis-Mornay. See MORNAY
Plete, whip (Prison Discipline), XIX, a 782
Pletho, George Gemistus, scholar, X, b 121–2; (Bessarion), III, *a* 532; (Ficino), IX, b 121; (Gennadius), X. *a* 138; (Greece), XI, a b 133; (Rimini), XX, a b 573
Plethora (Medicine), XV, b 821
Plethron in Weights and Measures, XXIV, a b 510, a 511, a 512
Plethysmograph, instrument (Sleep), XXII, b 165; (Vascular System), XXIV, *a* 118
Plettenberg, peak (Würtemberg), XXIV, a 735
——, Hermann von, grand master (Russia). XXI, a 100
Pleura (Anatomy), I, b 744; (Mammalia), XV, b 368
Pleural membrane (Respiration), XX, b 489
Pleurenchyma tissue (Botany) (Ill.), IV, a b 75
Pleureurs, theatrical (Claque), V; b 700
PLEURISY or PLEURITIS, disease, XIX, b 233–5
  chronic, a 235
  dry, a 234, a 235
  with effusion, b 234, a 235

Pleurobrachia, genus (Hydrozoa), XII, b 599
Pleurobranchidæ, family (Mollusca), XVI, b 679
Pleurocarpous mosses (Musciness), XVII, a 78
Pleurococcus, genus (Histology), XII, b 14; generation of (Biology), III, *b* 598
Pleurodira, Chelonians (Tortoise), XXIII, a b 486
Pleurodontes, group (Lizard), XIV, a 739
Pleurolepidæ, family (Ichthyology), XII, b 725
Pleuronectes, genus (Flounder), IX, a 300
Pleuronectidæ, family (Ichthyology), XII, a 672, a 690, a 698, b 700, b 715, a b 716, a b 717, b 718, a b 719, *a* 721, b 730
Pleuro-peritoneum, vertebrate (Animal Kingdom), II, b 48
Pleuro-pneumonia (Agriculture), I, b 271
Pleuro-pneumonia (Murrain), XVII, a b 66, b 67; (Natal), b 247; (Veterinary Science), XXIV, a b 216
Pleuropogon (Grasses), XI, b 53
Pleurosigma angulatum (Microscope) (Ill.), XVI, a 275, a 282; balticun (Diatomaceæ) (Ill.), VII, a 147
Pleurotomaridæ, family (Mollusca), XVI, b 672
PLEVNA, town, XIX, b 235; siege of, 1877 (Fortification), IX, a 380; (Roumania), XXI, *a* 27; (Turkey), XXIII, a 693; (Todleben), b 459; (War), XXIV, *a* 372, b 377
Pleximeter (Auscultation), III, b 87
Plexus, nerve centres (Anatomy) (Plate XVII), I, a 762–3, a *b* 775, *a* *b* 776; (Reptiles), XX, a 474; parietal arterial (Anatomy), I, b 793; venous (Anatomy), a 796
Pleydemourff, Wilhelm, engraver (Wohlgemuth), XXIV, *a* 661
PLEYEL, Ignaz Joseph, composer, XIX, b 235
——, Maria, pianist, XIX, b 235
Plica polonica, disease (Radom), XX, a 225
Plication of rocks (Geology), X, b 232–3
Plimpton, James L., inventor (Skating), XXII, b 113
Plinlimmon, mountain (Cardigan), V, *b* 83
Plinth in Architecture, II, b 413
Plinthite (Mineralogy), XVI, b 443
PLINY the Naturalist, XIX, b 235–7; (Agriculture), I, a *b* 261; (Ale), a 421; (Amber), b 579, *a* 580; (Ammoniac), *a* 650; (Anacreon), a 692; (Ant), II, a 84; (Apelles), a 149; (Archæology), *a* 301, b 305, *b* 307, a 309, *a* 310, *a* 318; (Bees), III, b 430; (Botany), IV, a 70, a 72; (Brewing), *a* *b* 236; (Caledonia), b 587; (Calico-Printing), b 606; (Canary Islands), b 702, a 703; (Crystallography), VI, a 594; (Cumin), b 623, a 624; (Druidism), VII, *b* 412; (Electricity), VIII, *b* 4–5; (Embalming), a b 146; (Encaustic Painting), a b 170; (Encyclopædia), b 173, b 174; (Galls), X, a b 41; (Geography), b 158; (Giants), b 510, a 511; (Gilding), a 530; (Glass), b 576, b 577 note, a b 578, a 580; (Gold), a 659, b 666; (Goldbeating), a 670; (Goths), *a* 753; (Hardouin), XI, b 424; (Herculaneum), b 646–7; (Hornbill), XII, b 172; (Humming-Bird), b 371, note; (Hydromechanics), b 451
——(Latin Language), XIV, b 337; (Medicine), XV, a 813; (Menander), XVI, a 6; (Mistletoe), a 551; (Mosaic), b 877; (Mural Decoration), XVII, b 41, b 44, b 46, a b 47, note, *a* 48, a 49, note; (Ornithology), XVIII, a 7; (Oyster Catcher), b 114 note; (Painting), b 142: (Papyrus), b 235, a b 236, a b 237; (Pathology), b 413; (Photography), a 853; (Plate), XIX, b 190, b 191, a b 192; (Political Economy), *b* 363, a 364; (Roman Law), XX, b 690, b 692 note, b 697; (Rome), b 826 note, b 833; (Salamandra), XXI, a 215 note; (Turquoise), XXIII, b 712; (Yemen), XXIV, b 776, *b* 777, a 778; (Zeuxis), a b 822; (Zinc), a 823
PLINY the Younger, XIX, a 237–8; (Dream), VII, a 393; (Jesus Christ), XIII, b 668; (Juvenal), a 816, note, a 817; (Latin), XIV, a 338; (Libraries), a 511; (Silius), XXII, b 60; (Suetonius), *a* 652; (Tacitus), XXIII, a *b* 24; (Trajan), b 535, a *b* 536, a *b* 537; his *Epistles* (Roman Literature), XX, a 746
Pliny's Doves (Mosaic), XVI, a 878; (Tivoli), XXIII, a 449
Pliocene fauna (America), I, a 600; (Birds), III, b 633; (Corals), VI, a 337, a 343; (Distribution), VII, *b* 245, 246; formation (Geology), X, b 323–4
Pliocerus æqualis, snake (Mimicry), XVI, a 354
Pliohippus (Horse) (Ill.), XII, a 177, a b 178; (Zoology), XXIV, a 926
Pliopithecus, genus (Ape), II, a 146
Plisevica, mountain (Croatia), VI, a 523
Plistoanax, king of Sparta (Pericles), XVIII, b 542
Plitvica, lakes (Croatia), VI, a 523
Ploceidæ, family (Weaver-Bird), XXIV, a 489, note
PLOCK, province, XIX, b 238–9; (Russia), XXI, a 76; city, XIX, a 239; (Poland), b 318, a 324
Ploima, animalcule (Rotifera), XXI, a 12
Plomb-du-Cantal, mountain (Cantal), V, a 26; (France), IX, b 445
Plombgomme, mineral (Mineralogy), XVI, b 424
Plöner See (Schleswig-Holstein), XXI, b 432
Plongeon, Le, explorer (Yucatan), XXIV, b 796–7
Plonsk (Observatory), XVII, a 735
Plot, Robert (Almanac), I, *a* 520; (Brewing), IV, a 237; (Ornithology), XVIII, a 13
Plotidæ, family (Snake-Bird), XXII, a 198–9
Plotina, empress (Hadrian), XI, *a* 325; (Trajan), XXIII, b 535, a 537
Plotinus, philosopher (Æsthetics), I, a 195; (Ammonius Saccas), *a* 652; (Category), V, a 195; (Ethics), VIII, b 517–8; (Evo-

- Plotinus, *continued* lution), b 663; (Iamblichus), XII, b 637, *a* 638; (Longinus), XIV, *a* 875; (Mysticism), XVII, *a* 138; (Mythology), b 152; (Neoplatonism), a 343, b 344, note, a 345-6, *b* 348
- Plotosina, fishes (Ichthyology), XII, b 730
- Plotsk, province. See PLOCK
- Plotting and examination (Surveying), XXII, b 745; instruments (Surveying), a 758-9
- Plötzkau (Anhalt), II, b 43
- Ploug, Parmo Carl, editor (Denmark), VII, a 82
- Plough (Agriculture) (Ill.), I, a 277-8; (Greece), XI, a 79; drain (Agriculture), I, a b 297; improvements in (Patents), XVIII, a 877; invention of (China), V, a 558
- Ploughing (Agriculture), I, b 277, a 299-300
- *Ploughman's Complaint* (Lollards), XIV, b 820
- Ploughman's fee (Primogeniture), XIX, a 754
- *Ploughman's Prayer* (Lollards), XIV, *a* 821
- PLOVER, bird, XIX, a 239-40; (Birds), III, a 633, a 644, a 647, b 653, a 655, b 656, b 658, b 667, a b 668, a 670; (Crocodile), VI, a 525; (Killdeer), XIV, a b 78; (Lapwing), b 308, notes; Norfolk, bird (Curlew), VI, b 628. See STILT
- Plover's-Page, bird (Sandsnipe), XXI, a 273
- PLUCKER, Julius, mathematician, XIX, a 240-3
  - accounts of, a 242
  - analytical geometry, a 241
  - descriptive geometrical work, a b 240
  - early life, a 240
  - line geometry, b 241-2
  - physical researches, a b 241
- —— (Curve), VI, a 634-7, b 639-40; (Electricity), VIII, a 70, b 77; (Geometry), X, b 365
- Plug and collar Gauges (Ill.), X, a 100
- Plugging teeth (Dentistry), VII, a 86-7
- PLUM, tree, XIX, a 242; (Botany), IV, b 78, a 79, b 83; (Horticulture), XII, b 217, a b 286
- Plumage (Humming-Bird), XII, a b 372-3; (Ibis), a 642; (Lämmergeyer), XIV, b 244, note; (Linnet), b 681; (Owl), XVIII, a b 93; (Ruff), XXI, a b 60; (Sand-Grouse), b 271; (Snake-Birds), XXII, b 198, note; (Teal), XXIII, b 112; of crows (Ornithology), XVIII b 52; of thrushes (Ornithology), a 52; unwashable (Touraco), XXIII, b 518. See Feathers
- PLUMBAGO, mineral, XIX, a b 242; (Carbon), V, *b* 77; (Ceylon), a 314, a 321; (Coal), VI, b 45; (Cumberland), a 616, b 617; (Mining), XVI, b 491; (Furnace), IX, b 741; in electrotyping (Typography), XXIII, a 749. See Graphite
- Plumber work (Building) (Ill.), IV, b 449-51
- Plumbocalcite (Mineralogy), XVI, a 414
- Plumbostib, mineral (Mineralogy), XVI, b 411
- Plumentella, genus (Polyzoa), XIX, a 447, b 451
- Plumier, Charles, botanist (Fuchsia), IX, b 707, a 708
- Plummer Hall (Salem), XXI, a 221
- Plummer's pill (Calomel), IV, a 630
- Plumstead, parish (London), XIV, a b 831, b 833; (Woolwich), XXIV, a 700
- Plumule of plants (Botany), IV, a 85
- Plunger pole pump (Trevithick), XXIII, a 589
- Plunging, art (Swimming), XXII, b 808-9
- PLUNKET, William Conyngham Plunket, baron, jurist, XIX, b 242-3
- Plunkett, Oliver, archbishop (Charles II., of England), V, b 354; (Drogheda), VII, b 406
- Pluralistic realism (Herbart), XI, b 642
- Pluralities (Abbot), I, a 28; (Benefice), III, a b 483; controversy (Chalmers), XXI, a 563
- *Plurality of Worlds* (Fontenelle), IX, b 319; (Whewell), XXIV, a 570
- Plural number (Grammar), XI, *b* 36
- PLUSH, fabric, XIX, b 243
- PLUTARCH, biographer, XIX, b 243-7
  - biography, b 243-7
  - editions of, a 247
  - *Opera Moralia*, b 244
  - *Parallel Lives*, b 243-4
- —— (Amyot), I, b 686; (Ethics), VIII, a b 517; (Homer), XII, a 119; (Mythology), XVII, *a b* 158; (Neoplatonism), a 344, a 347; (Pericles), XVIII, a 540, a b 541 notes, a 542 note, a b 544 note; (Phalaris), b 743; (Phocion), *b* 812, a 813 notes; (Pythagoras), XX, b 145, b 146, note, b 147, b 148; (Stephens), XXII, a 563
- PLUTO, deity, XIX, a 247; (Proserpine), a 846
- Plutonic agencies (Geology), X, b 214-34; rock defined (Geology), a 308; rocks (Geology), b 272, a 273-7
- Plutonium, cave (Hierapolis), XI, a 707
- PLUTUS, deity, XIX, b 247
- *Plutus*, of Aristophanes, II, a 448
- Pluvianus or Hyas ægyptius, bird (Plover), XIX, b 239
- Pluvier, bird (Plover), XIX, a 239
- Pluviometer (Raingauge), XX, b 268-9
- Pluvius (Jupiter), XIII, b 789
- PLYMOUTH, England, town, plan, XIX, b 247-9; (Dockyard), VII, b 269, b 273-4, 275; (Fisheries), IX, b 216; (Libraries), XIV, b 520, a 546; Breakwater, IV, b 217; (Harbors and Docks) (Plate IX), XI, a *b* 411, a 415; laboratory at (Zoology), XXIV, b 853
- ——, colony (Connecticut), VI, a 258; (Presbyterianism), XIX, b 717; (United States), XXIII, *b* 777, b 780
- PLYMOUTH, Massachusetts, town, XIX, b 249-50; (Independents), XII, b 761; (Unitarianism), XXIII, b 774 note
- PLYMOUTH, Pennsylvania, XIX, a 250
- PLYMOUTH BRETHREN, religious sect, XIX, a 250-1
- —— Company (United States), XXIII, a *b* 777
- —— pilgrims. See Pilgrim Fathers
- ——-rock fowl (Poultry), XIX, b 665
- Plympton, Priory of (Plymouth), XIX, *a* 249
- Plythanæ, locality (Onyx), XVII, b 798
- Pneuma in Medicine, XV, b 812, b 813, a 822
- —— or primitive substance (Stoics), XXII, *b* 592-3
- —— and Nous (Paul), XVIII, a 437, note
- Pneumatic chemistry (Cavendish), V, b 236
- PNEUMATIC DISPATCH, XIX, a b 251; (Atmospheric Railway), III, a 33; (Paris), XVIII, a 292
- —— dispensary (Beddoes), III, b 414
- —— duct (Ichthyology), XII, *b* 695
- —— lifts, furnace (Iron), XIII, b 308
- —— mechanism (Organ), (Ill.), XVII, a 859
- —— men (Valentinus), XXIV, a 45, a 46
- —— school (Medicine), XV, b 812
- —— shield (Tunnelling) (Ill.), XXIII, a b 665; sinking, mine boring (Coal), VI, a 59; systems (Sewerage), XXI, b 753; traction (Coal), VI, b 71; tubes (Hydromechanics), XII, a 415-17
- PNEUMATICS (Ill.), XIX, a 252-61
  - air-pumps, b 257-9
  - Aitken's experiments, a 259
  - Amagat's experiments, b 254-6
  - atmospheric height and pressure, b 253
  - Boyle's and Mariotte's law, b 253-4
  - Charles's law, a b 255
  - Crookes's radiometer, a b 261
  - fluid friction, b 259-60
  - fluid and solid defined, a b 252
  - isotherms, a 256-7
  - kinetic theory of stress, b 261
  - liquefaction of gases, a b 257
  - manometer, b 257
  - stress, a 252, b 261
  - surfaces, b 252-3
  - Torricelli's experiment, a 253
  - viscosity, a 260-1
- Pneumatocyst (Hydrozoa) (Ill.), XII, a 598, a 599
- Pneumodermidæ, family (Mollusca), XVI, a b 691
- Pneumodermon, genus (Mollusca) (Ill.), XVI, a b 691, a 692
- Pneumogastric nerve (Amphibia), I, b 673; (Anatomy), a 704, a 775, a b 776; (Nutrition), XVII, a b 693; (Physiology), XIX, b 49-50; (Respiration), XX, b 494
- PNEUMONIA, disease, XIX, b 261-3; (Homœopathy), XII, a 132; (Pathology) (Ill.), XVIII, a 405, a b 406, b 407, b 417; (Scrofula), XXI, b 580 See Pleuro-Pneumonia
- Pneumonic Phthisis, XVIII, b 871
- Pneumonochlamyda, suborder (Mollusca), XVI, a 672, a 673; (Snail), XXII, b 197
- P'nom penh, town (Cambodia), IV, a *b* 741
- Pnyx (Athens), III, b 4-5; (Ecclesia), VII, a 539
- Po or Padus, river, XIX, b 263-4; (Geology), X, b 245, *a* 247; (Italy), XIII, b 444-6, a b 455, b 456, *a* 478; (River Engineering), XX, a 588; (Switzerland), XXII, b 814, *a* 815
- Poaceæ, group (Grasses) (Ill.), XI, b 48, a 50, b 51, *a b* 52, a *b* 53
- Poaching (Dog), VII, b 284; (Game Laws), X, a 57
- Poaya (Ipecacuanha), XIII, a 216, a 217
- POCAHONTAS, XIX, a 923; (Smith), XXII, *b* 185, note
- ——, Horse, XII, *b* 189
- POCHARD, Pockard or Poker, duck, XIX, a 264-5
- Pocillopora, genus (Corals), VI, a 334
- Pocket-handkerchiefs (Maine-et-Loire), XV, b 305
- Pocknell's system (Shorthand), XXI, *b* 879
- POCOCK, Edward, orientalist, XIX, a b 265
- POCOCKE, Richard, bishop, XIX, b 265
- Pocomoke river (Maryland), XV, a 609; sound (Pisciculture), XIX, a 135
- Poconchi, group of nations (Yucatan), XXIV, a 798
- Pocosin swamps (United States), XXIII, b 860
- Pod or legume (Botany), (Ill.), IV, b 137-8
- Podagra, disease (Pathology), XVIII, a 397
- Podarginæ, sub-family (Goatsucker), X, *a* 634, a 635
- Podargus, genus (Birds), III, a 617, *b* 619; (Goatsucker), X, a 635
- Podaxonia, phylum (Polyzoa), XIX, a 444, b 454, b 456; (Zoology), XXIV, a 852
- Podesta, magistrate (Italy), XIII, b 484-5, a 487
- Podetium, organ (Lichens), XIV, b 555
- Podgoritza, town (Montenegro), XVI, b 805, note, a 807
- Podhorszky, lexicographer (Hungary), XII, a 390

Podica, genus (Rail), XX, b 230
Podiceps, genus (Grebe) (Ill.), XI, a 72–3; (Loom), XV, a 4
Podicipedidæ, family (Birds), III, b 671, a 672
PODIEBRAD, George of, king of Bohemia, XIX, b 265–6
Po di Ferrara, river (Italy), XIII, b 445
Podilymbus, genus (Grebe), XI, b 72
Po di Primaro, river (Italy), XIII, b 445, a 446
Podium, division of an Amphitheatre, I, b 680
——, foot (Mollusca), XVI, a 658
Podkemennaya Tunguska, river (Yeniseisk), XXIV, b 779
Podlasie, district (Poland), XIX, a 318, b 321
Podlipska, Zofie, novelist (Slavs), XXII, b 162
Podocerides, family (Crustacea), VI, b 568, a 585
PODOLIA, government, XIX, a 266–7; (Kamenets), XIII, a 842; (Russia), XXI, a 76, b 79, b 81, *b* 87, a 88, a 89, a 93, b 94
Podolian cattle (Italy), XIII, a 461
Podol quarter (Kieff), XIV, b 72
PODOLSK, town, XIX, a 267
Podophrya, genus (Protozoa) (Ill.), XIX, a *b* 890
Podophthalmia, group (Crustacea), VI, a 560, a 563, a 567, b 578, a 580–2
PODOPHYLLIN, drug, XIX, a b 267
Podosphena lyngbyii, species (Diatomaceæ) (Ill.), VII, a 147
Podosperm of flower (Botany), IV, a 132
Podura scale (Microscope) (Ill.), XVI, a–b 274, a 281
POE, Edgar Allan, poet, XIX, b 267–8; (Acrostics), I, a 113; (American Literature), b 636–7, a 642; (Baudelaire), III, a 386; (Cryptography), VI, b 593; (Hannay), XI, b 394; (Longfellow), XIV, a 874; (Poetry), XIX, b 272; (Whirlpool), XXIV, a 571
Pœcilopoda, division (Crustacea), VI, a 576
Poelemberg, Cornelis, painter (Heusch), XI, b 699, a 700
Poema del Cid (Spain), XXII, *a* 367. See CID
Poemata et Inscriptiones (Landor), XIV, b 279
Pœnitentiales, Libri (Canon Law), V, b 17; (Casuistry), b 177
Pœnulus, Plautus (Phœnicia), XVIII, b 815
POERIO Carlo, statesman, XIX, b 268
Poetaster (Jonson), XIII, a *b* 752, b 755
Poeterei, die deutsche (Germany), X, a 475
Poeticon Astronomicon (Hyginus), XII, b 603
Poetics, Aristotle's, II, b 456; (Æsthetics), I, *b* 194
Pœtilian Law (Roman Law), XX, a 696, b 701, a 703, b 712; (Slavery), XXII, a 140
Poet laureate (Jonson), XIII, a 751
POETRY, XIX, a 269–85
  absolute poetry, b 269–70
  Eastern and Western epic, a b 281
  elegy, a 285
  energy and art in, a 269
  English songs, b 284–5
  environment, a b 275
  epic and drama compared, a 278–9
  examples of vision, a b 277
  form, rhythmic and metrical, a 270–1
  French ode, a 284
  great Northern epic, b 280–1
  Iliad, a b 279
  imagination, a 275–9, b 281
  Italian improvisation, a b 284
  lyric imagination, b 281–2
  metre, importance of, a b 270
  motive epic, b 279–80
  music, relation to, a 272–3, a 274
  ode, the, a 282–4
  personal qualities, a 271–2
  philosophic motive, a b 280
  plastic art, relation to, b 274–5
  prose, relation to, a 273–4
  scheme and motive, b 279–80
  sibilants, a b 285
  stanzaic and emotional law, b 282–4
  vision, absolute and relative, b 275–8
—— (Æsthetics), I, a b 194, b 196, b 197; (Alliteration), a 516; (Fine Arts), IX, b 171, *b* 175, *a b* 176, b 180–1; (Renaissance), XX, a b 395; (Rondeau), a b 863; theory of (Schopenhauer), XXI, b 472; Bouterwek's *History of Modern*, IV, a 162; criticism of (Wordsworth), XXIV, b 705–9
Poetry, satire (Rosa), XX, a b 870
——, Afghânistân, I, b 213
——, Arabic. See Arabian Poetry
——, Aztec (Mexico), XVI, b 221
——, Byzantine (Greece), XI, b 129–30
——, Celtic (Arthur), II, a 569; (Gaelic), X, a b 9. See CELTIC LITERATURE
——, Chinese, V, a 577–9; (Drama), VII, b 347
——, Dalmatian (Gundulitsch), XI, b 246
——, Dutch (Cats), V, b 211; (Feith), IX, a b 57; (Heemskerk), XI, b 545; (Heinsius, D.), a 561; (Holland), XII, a b 93–4, b 96–101; (Houwært), b 332; (Huygens), a 433; (Pastoral), XVIII, a b 352; mediæval (Holland), XII, a b 93–4
——, English (Dobell), VII, a 267; (Drayton), a b 390; (Drummond), a 415; (Dunbar), b 459–60; (England), VIII, a 285; (English Literature), b 363–4; (Hemans), XI, b 574–6; (Henryson), a 604; (Hood), XII, b 148–9; (Howitt), b 338–9; (Hunt), b 398, b 399, a 400; (Keats), XIV, a 24–6; (Keble), a 26–8; (Roscommon), XX, a 873; (Rossetti), a 882–3; (Shelley), XXI, a 830; (Surrey), XXII, a b 731; (Vaughan), XXIV, a 126; (Warton), b 398–9; (Wordsworth), b 705–9. See ENGLISH LITERATURE
——, *History of English*, Warton's, XXIV, b 399; (Grail), XI, b 31
——, French (Delille), VII, b 44–5; (Gringoire), XI, b 181; (La Fontaine), XIV, a 207; (Pastoral), XVIII, b 350, a b 351; (Regnier), XX, b 360–1; (Ronsard), a b 864–5; (Sainte-Beuve), XXI, a b 172; origin of (Provençal Literature), XIX, b 898. See FRENCH LITERATURE
——, German (Heine), XI, b 558–60; (Herder), b 651; (Hoffmann), XII, a 47; (Hölderlin), a b 60; (Kerner), XIV, a b 52; (Klopstock), b 110–11; ancient (Germany), X, a 464, a 467–70; lyric (Grün, A.), XI, a 199. See GERMAN LITERATURE
——, Greek (Hesiod), XI, a 694–5; (Sappho), XXI, a 318; modern (Greece), XI, a 135–6. See Greek Literature
——, Hebrew (Bible), III, b 551–2; (Job), XIII, b 708, a b 709, b 710, a 711, a b 712, a b 713–4; (Emanuel ben Solomon), VIII, b 145–6. See HEBREW LITERATURE
——, Hindu (Drama), VII, a 346; (Hindustani Literature), XI, a b 753, a b 755; (Sanskrit), XXI, a 294–301
——, Hungarian (Bowring), IV, b 164; (Fay), IX, b 52; (Gyöngyösi), XI, b 313; (Kisfaludy), XIV, a b 103; (Majláth), XV, a 313. See HUNGARIAN LITERATURE
——, Italian (Ariosto), II, a 442; (Dante), VI, a 716–7; (Foscolo), IX, b 416–17; (Francis, St.), a 611; (Grossi), XI, b 188–9; (Guidiccioni), b 228; (Leopardi), XIV, b 464–5; (Petrarch), XVIII, b 723–4; (Tasso), XXIII, a 83; lyric (Guidi), XI, b 228; mediæval (Italy), XIII, b 509–11, a 512–4, a 515–6; modern (Italy), b 508, a b 517–8, b 519–21, b 522, a 524, b 525. See ITALIAN LITERATURE
——, Japanese, XIII, a 581, note, a b 597
——, Latin (Roman Literature), XX, b 735–6, a 737, a b 738, b 740–3, a b 744, *a b* 745; (Horace), XII, a 163–9; (Virgil), XXIV, b 269–74. See ROMAN LITERATURE
——, Malayan, XV, a 329
——, Mongolian, XVI, a 778
——, Norman (English Literature), VIII, b 363–4
——, oral transmission of (Celtic Literature), V, a b 266
——, Persian, XVIII, b 645, a 668–78; (Ferid-Eddin-Athar), IX, a b 78; (Hafiz), XI, b 328–9; (Nazámí), XVII, b 535–6; (Rúdagí), XXI, a b 55
——, Provençal, XIX, a 899–902
——, Siamese, XXI, b 895–6
——, Scandinavian (Denmark), VII, a b 79, *a b* 80, *a b* 81, a 82; (Engelbrechtsdatter), VIII, a b 194; (Fahlcrantz), a b 741; (Fasting), IX, a 44; (Franzén), b 637; (Kellgren), XIV, a 31; (Norway), XVII, a b 604–5; (Runeberg), XXI, a b 66; (Sweden), XXII, a b 792, *a* b 793, a b 794, a 795–6; *Art of* (Snorro Sturluson), b 212. See EDDA, Sagas
——, Urdú (Hindustani Literature), XI, a b 756–7
Poets, Aristotle's division of (Longfellow), XIV, a 873
Poet's corner (London), XIV, b 847
Poets, Lives of the. See *Lives of the Poets*
Poey, Felipe, zoologist (Ichthyology), XII, b 671
Poganovka, town (Nikolaievsk), XVII, a 517
POGGENDORFF, Johann Christian, physicist, XIX, a 285–6; (Electricity), VIII, a 11, a b 12, *a b* 13, *a* 14, a 43, b 53, b 81, a b 83; (Light), XIV, b 610; (Magnetism), XV, a b 222, note, b 262, *a* 263, b 268, b 275; (Mercurial Air-Pump), XVI, b 35
POGGIO, Gian Francesco Poggio Bracciolini, humanist, XIX, a 286–7; (Ana), I, b 687–8; (Italy), XIII, b 516, a 517; (Silius), XXII, b 61; (Statius), b 485; (Tacitus), XXIII, a 25
Pogodine, Mikhail Petrovitch, historian (Russia), XXI, a 117
Pogromna, spa (Transbaikalia), XXIII, b 542
Pogson, Norman, astronomer (Photometry), XVIII, a 856; his comet (Meteor), XVI, a 116
POGY, fish, XIX, a 287. See Menhaden
Pohl, Carl Ferdinand, musician (Haydn), XI, a 483
Poimandres (Hermes Trismegistus), XI, b 671
Poinsettia, plants (Horticulture), XII, b 219, b 275
POINSOT, Louis, mathematician, XIX, a b 287; his rolling ellipsoid (Mechanics), XV, b 745
Point, co-ordinates of a (Measurement), XV, a 668–70; general (Geometry), X, a b 373; curved motion of a (Mechanics), XV, a b 686; definition of (Surface), XXII, b 702; determination of (Geometry), X, a 366–7; kinematics of (Mechanics), XV, a 686–97;

Point, *continued*
  motion of applied (Mechanics), b 761; representation of (Projection), XIX, a 822; rotary, equations of (Measurement), XV, b 668-70
Point Barrow (Alaska), I, b 393; (Meteorology), XVI, a-b 177, a 179
—— Conception, cape (United States), XXIII, a 852
—— Conte (Lace), XIV, b 184; d'Angleterre (Lace) (Ill.), b 188
—— de Galle, town, X, b 37
—— d'Espagne Lace, XIV, b 185
Pointe à Pitre, town (Guadeloupe), XI, a 204
POINTED ARCHITECTURE, (Plates XVIII-XX), II, b 369-72, b 373-82, a 387. See Gothic Architecture
Pointe des Monts (St. Lawrence), XXI, a 191
Pointe, Levi, town (Levis), XIV, a 487; (St. Lawrence), XXI, b 190
Pointer, dog (Breeds), IV, b 224; (Dog), VII, a b 286; (Partridge), XVIII, a 338
Pointing brick walls (Building), IV, a b 415
——, machine (Sculpture), XXI, a 598
—— ropes (Seamanship), XXI, a b 621
Point Lace (Ill.), XIV, a 186-8
—— Parina (America), I, b 588
—— Parker, port (Queensland), XX, a 178
Points, phonetic (Speech-Sounds), XXII, a b 404
Poiret, Pierre, mystic (Mysticism), XVII, a 142
Poirier, J., naturalist (Trematoda), XXIII, a b 571, *b* 573, *a* 575
Poirters, Adriaen, poet (Holland), XII, b 98
Poiseuille, Jean Louis Marie, physician (Vascular System), XXIV, a 106, a 115
Poison (Brodie), IV, b 323; (Carbon), V, a 78; (Gelsemium), X, b 121; (Hellebore), XI, b 567-8; (Hemlock), b 577; (Henbane), a 581; (Honey). XII, b 140; (Hymenoptera), b 607, b 609-10; (Insanity), XIII, a 109, b 115; (Laburnum), XIV, a 180; (Malaria), XV, a 319, a b 322; (Medical Jurisprudence), a 792-3; (Mushroom), XVII, b 82, a 83; (Myriapoda) (Ill.), b 126, a 127; (Narcotics), a b 237-8; (Oleander), b 781; (Ordeal), a 843; (Phosphorus), XVIII, a b 829; (Prussic Acid), XX, *b* 27, b 29; (Ring), b 576; (Snakes), XXII, *a* b 201, note, b 202. a b 209; (Suicide), b 664. a 665; (Tsetse Fly), XXIII, a b 639
—— antidotes (Chloral Hydrates), V. b 588-9; (Digitalis), VII. a 208; (Rattlesnake), XX, a 306
—— arrow (Strophanthus), XXII, a b 640
Poisoned wounds (Surgery), XXII, b 715-6
—— fang, snake's (Reptiles), XX, a b 470; gland (Reptiles), b 470; organs (Ichthyology), XII, a 704-5
Poisonous furnace gases (Iron), XV, a 317
POISONS, XIX, b 287-91
  action of, b 287
  classification, b 288
  corrosives, b 288-9
  gaseous, a b 291
  irritants, a 289-90
  juris prudential views, a 288
  modifying conditions, b 287-8
  neurotics, a 290-1
  treatment, a 288

Poisson, Jeanne Antoinette. See POMPADOUR
——, Siméon, government official, XIX, b 291, a 292
POISSON, Siméon Denis, mathematician, XIX, b 291-3; (Arago), II, b 263. a 264; (Capillary Action), V, a b 52, b 55; (Electricity), VIII, a b 10, b 11, *a* 15, a b 22, a 24. a 25, b 29-30, a 35; (Lagrange), XIV, *b* 210; (Magnetism), XV. b 229, *a* b 230, *b* 232, *b* 242, a 243, a b 244, b 245, a b 250, a *b* 251, *a b* 252, a 253, b 256, a 268, a 269, a 278; (Wave Theory), XXIV, a 452, b 469; his analysis of two spheres (Electricity), VIII, b 29-30; his problem (Probability), XIX, a b 801; his theory (Elasticity), VII, b 699
—— Bleu (Grayling), XI, a 71
Poitevin, Madame (Aëronautics), I, b 173
——, Alphonse, chemist (Photography), XVIII, b 844, b 847, b 848, b 855
POITIERS, town, XIX, b 293-4; (Universities), XXIII, a b 897; (Vienne), XXIV, a 240; battle of, 732 (France), IX, a b 469; (Mohammedanism), XVI, b 598; in 1356 (Edward, Black Prince), VII, b 595; (England), VIII, b 286; (France), IX, a 482
POITOU, province, XIX, b 294; (Mules), XVII, b 20
POKER, game at cards, XIX, b 294-6
——, bird. See Pochard
POKROVSKAYA SLOBODA OR POKROVSK, also KASAKSTADT, village, XIX, a 296; (Saratoff), XXI, a b 320
Pol.Wincenty, poet (Poland), XIX, a 316
POLA, seaport, XIX, a b 296; (Istria), XIII, a 443; (Meteorology), XVI, a 131-4; (Observatory), XVII, b 733; battle of, 1379 (Venice), XXIV, a 156
Polabes, tribe (Lauenburg), XIV, a 348
Polabish language (Slavs), XXII, b 163-4
POLAND (Plate I), XIX, a 296-324
  HISTORY, a 296-310
    Alexander Jagellon, a 302
    Boleslaw I., II. and III., a 298-9

POLAND, *continued*
  HISTORY
    Casimir II. to Sigismund I., b 301-2
    Casimir III., duke, b 299-300
    confederation of Bar, a 309
    Henry of Valois, b 303-5
    Jadwiga, b 300-1
    Jagiellos, the, b 300-3, b 305-6
    John Albert, b 301-2
    John Casimir, a 306-7
    John Sobieski, b 307-8
    legendary period, a b 297
    Lublin union, a b 303
    Michael Wisniowicki, a b 307
    Mieczyslaw, b 297
    Mieczyslaw III. to end of the Premsyl house, a b 299
    origin of, a 296-7
    Pacta conventa, b 303-4
    partition of country, a 309-10
    political organization, early, b 297
    rebellions against Russia, a b 310
    Saxon kings, b 308-9
    Sigismund I., II., a 302-3
    Sigismund III., b 305-6
    Slav communities, early, b 297
    Stephen Batory, a b 305
    Turkish wars, a b 301, b 307-8
    Vienna, siege of, b 307-8
  LITERATURE, b 310-7
    drama, a b 315
    early specimens, a 311
    golden period, 1548-1609, a 312-3
    histories, recent, b 316-7
    language, distribution of, b 310-1
    Latin chroniclers, a b 311
    Kochanowski, a b 312
    Macaronic period, a b 313
    press, modern, b 317
    Protestantism, spread of, a 313
    recent authors, a 316-7
    Romanticism, b 315-6
    Stanislaus Poniatowski, age of, a 314-5
    Szymonowicz, b 312
    Ukraine school, a 316
    Zaluski, a 314
  RUSSIAN POLAND, a 317-24
    administrative features, a b 323
    agriculture, b 321-2
    climate, a 320
    flora and fauna, a b 320
    geology, a b 319

POLAND, *continued*
  RUSSIAN POLAND
    manufactures and mines, a b 322
    minerals, b 319-20
    name, official, a b 317
    population, b 320-1, a 324
    rivers and water system, a 318-9
    roads and commerce, b 322-3
    Russification, b 323-4
    topography, b 317-8

—— (Augustus II.), III, a 74; (Augustus III.), b 74; (Campbell, Thomas), IV, b 668; (Catherine II.), V, a *b* 204; (Coal), VI, a 55; (Constantine Pavlovich), a b 269; (Cossacks), b 396-7; (Czartoryski), a b 665; (Dantzic), *b* 720; (Frederick II.), IX, a b 649; (Grodno), XI, b 183; (Gustavus II.), b 298; (Honey), XII, b 141; (Israel), XIII, b 440, note; (Jews), b 696-7; (Kosciusko), XIV, a b 143; (Lazarites), b 374; (Lithuanians), b 708; (Mongols), XVI, a 768, a b 773, a b 775; (Napoleon I.), XVII, a 223; (Newspapers), a 442; (Nicholas I.), a 499; (Nobility), b 543; (Ochino), b 740; (Paskevitch), XVIII, b 345; (Periodicals), a 555; (Presbyterianism), XIX, b 716-7; (Post-Office), b 604; (Reformation), XX, a 349; (Russia), XXI, a 76, a 79, *b* 81, a 82, b 85, *b* 87, *a* 88, a *b* 93, *a* b 94, b 95; (Saxony), a *b* 370; (Spain), XXII, b 352-3; (Stanislaus), b 467; (Sweden), b 786, a b 787, a b 788, a 789; (Unitarianism), XXIII, a 773; (Universities), b 895; (Veto), XXIV, a 224
——, absorption of (Russia), XXI, b 108, b 109; Jewish learning in (Talmud), XXIII, a 44; partition of (Balance of Power), III, b 232, note, b 233; (Gallicia), X, b 24; (Germany), b 451, a 452; (Prussia), XX, b 14, a b 15, a 16; people (Russia), XXI, a b 75, b 87; wars with (Russia), a 100, *a* 101, a 104, a 110, a 117
Polar Bear, III, *b* 398
—— bodies of ova (Reproduction) (Ill.), XX, b 428-9; cells (Anatomy), I, b 755-6
—— coördinates (Geometry), X, a 373; equation of path (Mechanics), XV, b 691-2
—— currents (Iceberg), XII, b 649-50
—— day (Geography), X, *a* 178
—— expeditions (Barrington, D.), III, b 339; (Cook), VI, b 294; (Dietetics), VII, b 180; (Kane), XIII, a b 847; (Spitzbergen), XXII, a b 425; American (Surveys), b 940. See Arctic and Antarctic Expeditions
—— Hare, XI, b 426

Polar ice (Geology), X, b 249, a b 252; accumulations (Geology), b 227; bottom ice of seas (Baltic), III, a 255; effect of shifting (Geology), X, a 194

Polarimetry (Wave Theory), XXIV, a 477

Polaris expedition (Hall, C. F.), XI, a 347

Polariscope (Arago), II, b 266; (Mineralogy), XVI, a 389; testing for lenses (Telescope), XXIII, b 158

POLARITY AND ENANTIOMORPHISM, XIX, a 324-7; (Mineralogy), XVI, b 384; of crystals (Electricity), VIII, b 8-9; diamagnetic (Magnetism), XV, b 268-9; electrical (Schizomycetes), XXI, a 424: contact force from (Electricity), VIII, b 81-3; of mercury (Capillary Action), V, a 59; history of (Electricity), VIII, b 13-4; resistance in (Electricity), b 44-5

Polarization (Auroral Light), III, a 81; (Brewster), IV, b 246; (Faraday), IX, b 28-9; (Huygens), XII, a 432; (Light) (Ill.), XIV, b 610, a 615-7; (Magnetism), XV, b 227; (Malus), a b 348; (Radiation), XX, b 220, b 222-3; (Sugar), XXII, b 655. a 656; (Wave Theory), XXIV, a 470-3, a 480; in crystals (Mineralogy), XVI, b 388, a b 389; of essential Oils, XVII, a b 769, b 770

——, heat (Forbes, James), IX, a 344; (Melloni), XV, b 849; oblique (Wave Theory), XXIV, a 482; rotary (Wave Theory), b 476-7; theory of (Wave Theory), b 443, a 444

Polar map, Pontanus (Hudson), XII, a 346

—— planimeter (Surveying) (Ill.), XXII, a b 759

—— projection charts (Navigation), XVII, b 269

POLAR REGIONS (Plate II), XIX, a 327-43

  NORTH POLAR REGION, a 327-4

    American expeditions, b 334-5, b 337, a b 333-9

    area, character of, a 327-8

    Bennett expedition, a b 338

    currents, a b 340

    Danish expeditions, b 329, a b 330, a 332, a b 338

    Dutch expeditions, a 329, a 337, b 338

    eighteenth century explorers, b 330-1

    English 19th century expeditions, a 331-4, b 336, *a* 337

    Franklin expedition and searches, b 332-3

    geology, b 340-1

    Greeley expedition, b 838-9

    Greenland, explorations in, a b 336, a b 338

    Hudson Bay Company expeditions,

POLAR REGIONS, *continued*

  NORTH POLAR REGION a 330, a b 332, b 333-4

    ice and currents, a b 340

    life, forms of, a b 341

    Markham, b 336

    meteorology, b 339-40

    Nordenskiöld and the N. E. passage, a b 337

    Norwegian explorers, a b 335, a b 337

    Palæocrystic sea, b 340

    Parry's voyages, b 331-2

    Payer and Weyprecht, b 335-6, b 338

    physical geography, b 339-41

    "Resolute," expedition of the, a b 334

    Russian expeditions, b 330-1, b 332

    seventeenth century explorers, b 329-30

    sixteenth century explorers, a 328-9

    Swedish explorers, b 335-6

    traditional explorers, a 328

    whale fishery, early, b 329, a b 330

  SOUTH POLAR REGION, b 341-3

Polars, conjugate (Measurement), XV, *b* 674; reciprocal (Curve), VI, a 634

Polar snows of Mars (Astronomy), II, a 704

—— star (Dialling), VII, a 137; (Navigation), XVII, a *b* 276

—— stars in Protozoa (Ill.), XIX, b 854, a 855

—— submarine currents (Atlantic Ocean), III, b 20, b 22-3

—— Zones in Meteorology, XVI, a 148

Polcano, monk, organist (Cimarosa), V, a 681

Polders, drained tracts (Holland), XII, a 62, a b 64

Pole and polar (Geometry), X, b 357-8

——, unit north, in closed circuit (Electricity), VIII, a 66

——, Edmund de la, earl of Suffolk (York), XXIV, a *b* 791

——, John de la, earl of Lincoln (York), XXIV, a 791

POLE, Reginald, cardinal, XIX, a 343-4; (Colonna), VI, a 142; (Cromwell), a b 534, a 536; (England), VIII, a 301, a 305; (Fig), IX, b 135; (Trent, Council of), XXIII, b 578, *b* 579, b 580; (York), XXIV, *b* 790

——, Richard de la, earl of Suffolk (York), XXIV, b 791

—— or Poole, Sir Richard (York), XXIV, b 790

——, William, engineer (Whist), XXIV, a 575

POLECAT (Ill.), XIX, a b 344; (Ferret), IX, a 96; (Mammalia), XV, a b 446, a b 447

Polejaeff, biologist (Sponges), XXII, a 439, a 441, a b 443, a b 444

Polejna, genus (Sponges) (Ill.), XXII, b 429, a b 430, a 439

Polemarch, title (Archon), II, a 420; (Greece), XI, a 87

Polemarchus of Athens (Lysias), XV, *a* 119

Polemic theology (Dogmatic), VII, b 289, a 294-5

Polemo, disciple of Xenocrates (Academy), I, a b 67

Polemon, Antonius, rhetorician (Physiognomy), XIX, a b 8; (Pontus), b 473; (Rhetoric), XX, b 529

Polemoniaceæ, plants (Phlox), XVIII, b 811

Polemonium, plants (Horticulture), XII, b 259

Polendos y Primaleon (Romance), XX, a *b* 673, a 674

Polenta, porridge (Pellagra), XVIII, b 486

Polentilla, plant (Botany), IV, a 120, a b 122

Pōlerei, revolt (Schweidnitz), XXI, a 484

Poles of the heavens (Astronomy), II, a 667

——, magnetic (Boothia Felix), IV, a 44; (Birds), III, a 667; (Magnetism), XV, *b* 220, a 221, a b 222, b 223-4, b 231-2, a 237, a 243, b 263; (Meteorology) (Ill.), XVI, b 168-70, b 177; false (Magnetism), XV, a b 237

—— and polar planes, quadric (Geometry), X, b 365

——, race (Germany), X, a b 436, a 437; (Slavs), XX, b 153, a *b* 156, *a* b 157; divisions of (Poland), XIX, a 321

——, De la, merchants (Hull), XII, b 355-6

Polevoi, Nikolai Alexievitch, historian (Russia), XXI, b 116

Polexandre, novel (Romance), XX, a b 676

Poli, Giuseppe Saverio, zoölogist (Mollusca), XVI, b 654

Polia, worms (Nemertines), XVII, a 336, a *b* 337, b 338

Polianite (Mineralogy), XVI, b 394

Polianthes, plant (Tuberose), XXIII, b 640

Polian vesicles (Echinodermata), VII, a 546, a 548, b 549, b 554

Polias, goddess. See ATHENA

POLICE, XIX, b 344-57

  area and strength, b 348-9

  army, connection with, a 346

  British dependencies, b 353-4

  cost, b 350-1

  definition of the inquiry, b 344-5

  duties, general, b 346-7

    miscellaneous, b 347-8

  Europe, continental, a 355-7

POLICE, *continued*

  France, a 355-6

  government supervision, b 345-6

  history of British system, a 351-4

    county force, b 352-3

    metropolitan force, a 351-2

  judicial functions distinguished, a b 357

  management of force, a 349-51

  Scotland and Ireland, b 353

  state, relation to the, a 345-6

  stations, a 349

  United States, a 354-5

—— (Bengal), III, b 488; (Berlin), b 514; (Brazil), IV, b 213; (Constable), VI, b 263; (Criminal Law), b 521-2; (Dublin), VII, a 430; (England), VIII, b 227-8; (France), IX, a 452; (Franklin, Benjamin), a 627; (Gendarmerie), X, a b 127; (India), XII, a 813; (Ireland), XIII, b 244; (Japan), b 588; (London), XIV, b 829, a *b* 843, b 862; (Paris), XVIII, 283, a 284, a b 289, a 290; (Philadelphia), a 752; (New York), XVII, b 476-7

Polichinelle, puppet (Punchinello), XX, b 111

Polichne, suburb (Syracuse), XXII, *b* 852, a 856

Policraticus (John of Salisbury), XIII, a b 729

Policy, fire (Insurance), XIII, a 170; life (Insurance), a 175, a b 186; (Insurance), b 190-1, b 192-3

POLIGNAC, family, XIX, b 357

POLIGNAC, Jules de, count, XIX, b 357

POLIGNAC, Jules de, prince, XIX, b 357; (Charles), X, b 357; (Guizot), XI, b 238

POLIGNAC, Melchior, cardinal, XIX, b 357

Poligraphia (Cryptography), VI, b 592

Poling in refining Tin, XXIII. b 427

Polis, valley (Ithaca), XIII, a 527

Polish Bezique, III, b 540

—— coins (Numismatics), XVII, a 677

—— Draughts, game, VII, a b 385

—— fowl (Poultry), XIX, b 665

—— furniture (Building), IV, b 447

—— historians, XIX, a b 311, b 312-3, b 316-7; (Lelewel), XIV, a 435

—— language (Dictionary), VII, b 163; (Europe), VIII, a 615; (Slavs), XXII, a 160

—— law, XIX, a 314, a 315

—— legions in Italy (Dombrowski), VII, a 391

—— literature, XIX, b 319-7; (Acermus), I, a 83; (Mickiewicz), XVI, a b 250; (Niemcewicz), XVII, b 508

—— Swan, XXII, b 769, notes

Polish Wheat, XXIV, b 561, *a* 562, a 563
"Polishers," nickname (Painting), XVIII, b 143
Polisher's Putty, XX, b 124
Polishing (Glass) (Ill.), X, b 590-1, a 592; (Granite), XI, a 45
Polist, river (Pskoff), XX, a b 40
Polistes, genus (Wasps) (Ill.), XXIV, b 413, a 414
Polite Conversation (Swift), XXII, a 805
POLITIAN or POLIZIANO, Angelo, poet, XIX, a 358-9; (Drama), VII, a 362; (Ficino), IX, a b 112; (Italy), XIII, b 517; (Latin Language), XIV, b 342; (Pastoral), XVIII, b 350
Political Anatomy (Ireland), XIII, b 225, b 248
Political arithmetic (Petty), XVIII, a 738; (Statistics), XXII, a b 479; (Young), XXIV, a 793
Political Discourses (Hume), XII, b 362, a 363
POLITICAL ECONOMY, XIX, a 359-415
  American economists, b 397-8, a 413
  Aristotle, b 362-3
  Bagehot, Walter, a 410-1
  Bastiat, Frédéric, b 398-9
  Bentham and Lauderdale, b 383-4
  Cairnes, John Elliott, a 394-5
  Carey, H. C., b 397-8
  Christianity, mediæval, a b 365
  classical antiquity, a b 361-4
  commerce, Ricardo on, a b 389
  Comte, Auguste, b 403-4
  corporations, mediæval a 366
  Cournot, b 399-400
  critical school, rise of, a 370-1, b 381
  defects of old methods, a 413-4
  Dunoyer, Charles, a b 397
  enfranchisement of mediæval labor, b 365-6
  English historical school b 409-13
  English writers until Smith, a 377-8
  Epigoni, the, a 390-1
  French historical school, b 408-9; modern writers, b 395-7, b 398-400; writers to time of Smith, a 372-4
  German historical school b 404-8; modern writers, b 400-3; writers to the time of Smith, b 376-7
  Germano-Russian school, b 401-2
  Gioga, b 400
  government interference, Smith on, a b 382, b 406
  Greeks, b 361-3
  Historical school, b 403-9
  Histories, b 407-8, a b 415
  Hobbes to Locke, b 370-1
  Hume, b 377-8
POLITICAL ECONOMY, *continued*
  Italian modern writers, b 400, a b 408; writers to the time of Smith, b 374-6
  Jevons, W. Stanley, a b 412
  Jones, a b 391
  jurisprudence, a b 406
  Knies, Karl, a 405-6
  Leslie, Cliffe, a 411-2
  labor and profits, Smith on, a b 380
  Laveleye, a 409
  List, Friedrich, b 402-3
  Malthus, a 384-6, b 389-90
  manufactures, rise of modern, b 367-8
  mercantile system, a 367-70, b 381-2; writers on, a 369-70
  method of approaching the subject, a 259-60; of historical school, a b 406; of J. S. Mill, b 392-4; of Smith, a 379-80, b 382-3
  middle ages, a 364-6
  Mill, John Stuart, b 391-4
  Müller, Adam, a b 402
  natural liberty system, b 371-403
  Oriental theocracies, b 360-1
  Physiocrats, b 372-4, b 382
  Plato and Xenophon, a b 362
  reaction, 18th century, b 371
    19th century, b 409-10
  realistic school, b 407
  rent, Ricardian view of, b 387-9
  Ricardo, b 386-90
  Roscher, b 404-5
  Romans, a 363-4
  Say, Jean Baptiste, a b 396
  seventeenth century, b 369-70
  Sismondi, b 396-7
  sixteenth century, b 368-9
  Smith, Adam, b 378-83
  socialist, b 406-7
  sociology, relation to, a 414-5
  Spanish economists, b 376, b 400
  stock, Smith's theory of, b 380-1
  Toynbee, Arnold, b 412-3
  transition to modern times, a 366-7, a 370-1, b 391-2
  wages fund doctrine, a 395
  Wealth of Nations, a 380-2, b 383

—— (Bastiat), III, a 371; (Bodin), b 736; (Cairnes), IV, a 571-2; (Condillac), VI, b 224; (Faucher), IX, a b 46; (Ferguson, A.), b 76; (France), b 589; (Galiani), X, a b 23; (Ganilh), a 63; (Garnier, G.), b 74; (Gioja), a b 541; (Genovesi), b 142, a 143; (Hamilton, R.), XI, b 371; (Hegel), b 547; (Hermann, F. B. W., von), a b 662; (History), XII, b 25; (Horner), a b 175; (Hufeland, G.), b 349-50; (Hume), a 363; (Jakob), XIII, a b 555; (Land), XIV, b 266-7; (Lassalle), a 322; (Law), a 356; (Leslie, T. E. C), b 477-8; (Libraries), b 521; (Malthus), XV, a b 347; (McCulloch), b 135-6; (Mill, James), XVI, a 319, a 320; (Mill, John Stuart), b 324-5; (Petty), XVIII, a 738; (Quesnay), XX, a 183-4; (Rau), b 306; (Senior), XXI, b 695, a 696; (Smith, A.), XXII, a b 181; (Socialism), a b 217, a b 222-5, b 229-30; (Stewart), b 572; (Turgot), XXIII, a b 669, a b 670; (Walker), XXIV, a b 880; classical (Boeckh), III, a 740
Political Economy (Chalmers), V, b 326, a 328
——, *Illustrations of* (Martineau), XV, a 590
—— *and Taxation, Principles of* (Ricardo), XX, a b 549, a b 550
Political generals, 1812 (United States), XXIII, a 808
—— Geography defined, X, a 157
—— History, XII, b 26-7
Political History of the Devil (Defoe), VII, *b* 27, a 29
—— *Justice* (Godwin), X, b 639, *a* 640
Political liberty (History), XII, b 22, a 23; (Women), XXIV, a 674
—— offenders (France), IX, a 452
—— organization of Araucanians (America), I, b 615; organization under the Incas (America), a 612-4; in Islam (Mohammedanism), XVI, b 611-4; in Tibet, XXIII, b 364-5
—— parties, American. See Parties and specific names
—— parties, British (England), VIII, a b 303; (Government), XI, b 12; (Parliament), XVIII, b 315; (Whig and Tory), XXIV, a 570-1
—— Prerogative, XIX, a b 693
Political Reveries (Napoleon III.), XVII, b 233
Political Society, Austen on (Law), XIV, b 356-7
Politics, science of (Bentham), III, a 498; (Ethics), VIII, a 506, b 507; (Herbart), XI, a 644; (Hertzen), XI, a b 691; (Hobbes), XII, a 42; (Lieber), XIV, b 567-8; (Lyndsay), XV, b 109; (Machiavelli), a 150-2; (Philosophy), XVIII, a 806, b 809-10; (Quakers), XX, a b 155; (Renaissance), b 405-6; (Sophists), XXII, b 278, b 280; Roman imperial (Christianity), V, b 605-6
Politics of Aristotle, II, b 455-6; (Æsthetics), I, a *b* 194, a 195; (Government), XI, b 11; (Isocrates), XIII, a 401, note
Politicus, dialogue (Plato), XIX, a 214, *a* 217, b 219-20, *a* 222, b 223
"Politiques," party (France), IX, a b 495; (Henry IV., France), XI, a 598; (Passerat), XVIII, a 347
Polity (Comte), VI, a 211; (Hooker), XII, b 154, a 155-6; ecclesiastical (Brazil), IV, b 212, *a* 214; colonial (United States), XXIII, a b 779, b 781, b 787; (Church), V, a b 664; of Irish church (Ireland), XIII, b 253-5; primitive church (Christianity), V, a 607-8. See Church, Ecclesiastical Law
Poliziano. See Politian
POLK, James Knox, XIX, a b 415; (United States), XXIII, b 815, *a* 816, b 818; (Wheaton), XXIV, b 892; (Wright), b 727, note
POLK, Leonidas, general, XIX, a b 923
POLLACK, fish, XIX, b 415; (Ichthyology), XII, a 730
Pollaiuolo, Pietro, painter (Schools of Painting) (Ill.), XXI, b 452, note, a 462
POLLAN, fish, XIX, b 415; (Salmonidæ), XXI, a b 234
Pollard trees (Botany), IV, a 86
Polled Cattle, V, a b 214
Pollen (Botany) (Ill.), IV, a b 114, *b* 123, *a* 125-6; (Honey), XII, *a* 140; (Horticulture), b 219-20; (Hymenoptera), b 609, b 611; (Orchids), XVII, a 840-1; -gathering (Bee), III, b 419; -sac (Reproduction), XX, a 437
Pollentia, town (Cherasco), V, b 507
Pollenza or Pollentia, town (Balearic Islands), III, a 239, b 240
Pollet, fishing town (Dieppe), VII, b 172
Pollex, thumb (Ape), II, a 142; (Mammalia), XV, b 362. See Thumb
Pollicipes, species (Crustacea) (Ill.), VI, b 588, b 589
Pollination (Botany), IV, a b 126, b 133-4
Pollino, Monte (Italy), XIII, a 449; (Lucania), XV, a 39
Pollinodia, male organ (Botany) (Ill.), IV, b 126, a 127
POLLIO, Caius Asinius, historian, XIX, b 415-16; (Catullus), V, b 217; (Libraries), XIV, *a* 511
——, Trebellius, historian (Palmyra), XVIII, a b 205, note
——, Vedius, master (Slavery), XXII, a 141
Pollis, king (Syracuse), XXII, b 852
Polli's process (Cremation), VI, b 501
POLLNITZ, Karl Ludwig, Freiherr von, biographer, XIX, b 416
Pollock, Frederick, biographer (Spinoza), XXII, a 419. See List of Contributors
——, Sir George, marshal (Afghânistân), I, b 206, b 215
POLLOK, Robert, XIX, b 416
POLLOKSHAWS, town, XIX, b 416
Poll tax (France), IX, b 454; Athenian (Finance), b 150; Jewish (Pentateuch), XVIII, b 521; on non-Moslems (Mohammedanism), XVI, b 611; Roman (Finance), IX, a 152

Pollution of streams (Water), XXIV, b 420–1; (Water-Supply), a 426
Pollux, hero. See CASTOR AND POLLUX
——, mineral (Mineralogy), XVI, b 439; (Potassium), XIX, b 609
POLLUX, Julius, sophist, XIX, b 416–7; (Dictionary), VII, b 158
——, Julius, chronicler (Byzantine Historians), IV, a 546
POLO, game, XIX, a b 417; (Gilgit), X, a 534; (India), XII, b 791; (Ladác), XIV, b 198, a 199; (Manipur), XV, a 497
——, Andrea, traveller, XIX, a 418
——, Gaspar Gil, poet (Pastoral), XVIII, a 351
——, José Toribio, historian (Peru), XVIII, a 689
——, Maffeo, traveller (Polo), XIX, a b 418, b 419
POLO, Marco, traveller, XIX, b 417–23
  Asia, state of, b 417–8
  documentary relics of, b 420–1
  family of, a b 418
  imprisonment at Genoa, a b 420
  inventions, European acquisition of, a 423
  journeyings, b 418–9
  maps, influence on, a 422–3
  preëminence as a traveller, b 421–2
  versions of the narrative, a b 421, a 422

—— (Asia), II, b 612, a 613; (China), V, a 546, a 554, a 562; (Chinchew), a 585; (Compass), VI, a 203, note; (Ethnography), VIII, a 550; (Geography), X, a 160; (Gobi), a 636; (Hang-Chow-Foo), XI, *b* 393; (Hwen T'sang), XII, b 434; (Italy), XIII, b 509, b 511; (Kublai Khan), XIV, a b 152; (Mandeville), XV, a b 481; (Missions), XVI, a 536; (Prester John), XIX, b 736; (Segan Foo), XXI, a 653; (Turkestan), XXIII, b 680; (Yang Chou-Foo), XXIV, a 764; (Yarkand), b 764; (Yun-nan-Foo), b 798
——, Nicolo, traveller (Polo), XIX, a b 418, b 419, b 420
Polochic, river (Gautemala), XI, a 212, a 213
Polinicum, plant (Wheat), XXIV, b 561, a 562
Polonische, town (Pskoff), XX, b 41
Polophony (Alphabet), I, b 531, a 532, *a* b 533
Poloshek, village (Glukhoff), X, a 620
POLOTSK, Polotesk or Poltesk, town, XIX, a b 423; battle, 1812 (Gouvion St. Cyr), XI, b 9
Polotzki, Simeon, dramatist (Russia), XXI, b 113–4
POLTAVA, government, XIX, b 423–4; (Russia), XXI, a 76, a 80, b 85, a 88
POLTAVA, city, XIX, a b 424. See Pultowa
Polverina, law (Medici), XV, a 800, b 801
Polwhele, Richard, historian (Wolcot), XXIV, a 662
POLYÆNUS, rhetorician, XIX, b 424
Polyakoff, naturalist (Saghalin), XXI, a 156; (Ural Mountains), XXIV, b 9
Polyandry (Coorg), VI, a 303; (Ethnography), VIII, b 543; (Family), IX, a 18–9; (Himalaya), XI, b 735; (India), XII, b 772, a 816; (Khasi Hills), XIV, b 60; (Kullu), b 155; (Tibet), XXIII, b 365
Polyanthus, plant (Horticulture), XII, a b 267; (Primrose), XIX, *a* 757; Narcissus, plant (Horticulture), XII, b 265. See Primrose
Polyargyrite (Mineralogy), XVI, a 412
Polyarthra, animalcule (Rotifera) (Ill.), XXI, *a b* 8–9, a 12
Polyatomic Molecule, XVI, b 636–b 637
Polybasic acids (Chemistry), V, *b* 421; compounds (Graham, T.), XI, b 30
Polybasite (Mineralogy), XVI, a 412
Polybian Camp, IV, a b 663
POLYBIUS, historian, XIX, b 424–8
  books of, b 425–6, b 427
  conformity to his own standard, b 426–7
  editions, b 427–8
  form and style of, a b 427
  impartiality of, a 427
  personal story, b 424–5
  Roman period of his life, a b 425
  standard required in historian, a 426–7

——(Balance of Power), III, a 231; (Chronology), V, a 618; (Greece), XI, a 97, b 128; (Hamilcar), b 366; (Hannibal), a 395, *a* b 397, a 398; (Libya), XIV, a 555; (Livy), b 732, b 735, a 736, a 737; (Philopœmen), XVIII, a 805; (Pytheas), XX, a *b* 149, a 150; (Rome), b 766, a 768, note, b 772, b 773; (Stoics), XXII, a 600, note
Polybius, Continuation of (Strabo), XXII, a 610
Polybus, physician (Anatomy), I, a b 702
POLYCARP, bishop, XIX, a 428–30
  epistle of, a b 428
  Ignatian epistle, b 428–9
  importance of the biography, a 428
  Irenæus's notices, a 428
  personal events, b 429–30
  Smyrnan epistle, a 429

—— (Apostolic Fathers), II, a 171, b 172; (Canon), V, b 8; (Easter), VII, b 531; (Gospels), X, b 724–5, b 726, a b 731, a 732; (John), XIII, *a* b 718; (Saint), XXI, b 163, *a* 164
Polycarp, Martyrdom of (Canon), V, b 10
Polycentridæ, fishes (Ichthyology), XII, a 712, b 727
Polycera, genus (Ill.), (Mollusca), XVI, a 680, a 681
Polychæta, order (Annelida) (Ill.), II, b 58–61, b 64; (Worms), XXIV, b 713, b 714, b 715, b 716
Polychlorite dye (Saffron), XXI, a 154
Polychromatic ware (Pottery and Porcelain), XIX, a b 627, b 654; statues (Sculpture), XXI, b 585, note, b 587, a 594
Polychronicon (Higdon), XI, b 723; (English Language), VIII, a b 353–59; (English Literature), a 369
Polychronius, bishop (Theodore), XXIII, b 274
Polycladida, tribe (Planarians) (Ill.), XIX, a *b* 182, *a b* 183, *a b* 184, b 185
POLYCLETUS, sculptor of Sicyon, XIX, a 430; (Archæology), II, *a* 310, a 311, a b 312, *a* 316; (Hera), XI, b 606; (Lysippus), XV, b 121; (Terra-Cotta), XXIII, a 209
POLYCLETUS the Younger, of Argos, sculptor, XIX, a 430; (Archæology), II, a 313
Polyclinidæ, family (Tunicata), XXIII, a 657
Polyclinum, genus (Tunicata), XXIII, a 657
Polyconic development (Geography), X, a 187–8
Polycotyledonary, reproductive organs (Mammalia), XV, b 372
Polycotyledons, group (Botany) (Ill.), IV, b 142, a 143
Polycrase, mineral (Mineralogy) (Ill.), XVI, a 445
POLYCRATES, of Samos, tyrant, XIX, b 430–1; (Anacreon), I, b 691–2; (Greece), XI, b 85; (Persia), XVIII, a 580, a 581; (Samos), XXI, a 262; his seal (Gems), X, a 124
—— of Athens, rhetorician, XIX, a 431
—— of Ephesus, bishop (Easter), VII, b 531; (Gospels), X, a 739 note; (John), XIII, a 718
Polycyttaria (Protozoa), XIX, b 873
Polydæmonistic magical Religions, XX, *a* 380, a 382
Polydectes, king of Scriphus (Perseus), XVIII, a b 572
Polydesmidæ (Myrianoda), XVII, a 126, b 127; (Wheat), XXIV, b 566
Polydinida (Protozoa), XIX, b 884
Polydorus of Troy (Hecuba), XI, a 544
Polydymite (Mineralogy), XVI, b 407
Polyembryony, process (Reproduction), XX, a b 442
"Polyes," plateau (Herzegovina), XI, a 693
Polyesie, woods (Minsk), XVI, a b 501; (Volhynia), XXIV *a* 302
Polyeucte, play (Corneille), VI, b 370, a b 372
Polyeuctes, patriarch (Nicephorus II.), XVII, b 495
Polygala, plant (Botany), IV, b 119, a 123, a 140
Polygalaceæ, family (Botany), IV, b 133
Polygamy (Bongo), IV, b 29; (Bornu), b 54; (Confucius), VI, a 230; (Egypt), VII, b 628; (Ethnography), VIII, b 543; (Israel), XIII, b 418; (Jews), b 693; (Madagascar), XV, b 173; (Mohammedanism), XVI, a b 584; (Mormons), a b 853, a b 854; (Ochino), XVII, *b* 740; (Unyoro), XXIII, a 916; (Utah), XXIV, a *b* 25, a 26
Polygars, chiefs (Carnatic), V, a 106
Polygastrica, group (Protozoa), XIX, b 889
Polygenesis (Anthropology), II, a b 101
POLYGLOTT Bibles, XIX, a b 431; (Giustiniani), X, a b 558; (Hyde, T.), XII, *b* 442; Antwerp (Arias Montanus), II, b 441; Plantin's, XIX, b 187; Complutensian, a 431; (Bible), III, a *b* 560; (Jimenes), XIII, a 705, note; London (Typography), XXIII, *b* 740; Paris (Typography), b 740; Walton's, XXIV, a *b* 362; (Pocock), XIX, b 265; (Typography), XXIII, *a* 740
——, Dictionaries, VII, b 157. See Heptaglott, Hexapla
—— Printing Press (Propaganda), XIX, b 832
Polyglott Psalter (Typography), XXIII, *a* 740
POLYGNOTUS, painter, XIX, b 431; (Archæology), II, b 313–4; (Mural Decoration), XVII, *a* b 47; (Numismatics), b 649, a 650
Polygon, area of (Geometry), X, a 337; (Mensuration), XVI, b 20, b 25; drawing a (Projection), XIX, a b 825; of forces (Mechanics), XV, a 709; regular (Mensuration), XVI, a 20; spherical (Mensuration), a 30; of velocities (Mechanics), XV, b 688
Polygonaceæ, class (Botany), IV, b 131, a b 133
Polygonatum, plants (Horticulture), XII, b 259
Polygons (Geometry), X, b 339–40; of loads and resistances (Mechanics), XV, b 758–9; theory of similar (Geometry), X, a 343
Polygonum, plant (Botany) (Ill.), IV, b 84, a b 132, b 133, a 134; (Horticulture), XII, b 259
Polygordius, species (Sagitta), XXI, *b* 156; (Worm), XXIV, a b 714, *a* 715, a b 719
Polyhalite (Mineralogy), XVI, a 419
Polyhedra, drawing a (Projection), XIX, b 825–6; regular (Mensuration), XVI, a b 29
POLYHISTOR, Cornelius Alexander, historian, XIX, b 431; (Berosus), III, b 524; *Commentary on*, Solinus's (Salmasius), XXI, b 230
Polyhistor (Morhof), XVI, b 850
Polyhydrite (Mineralogy), XVI, b 443
Polyhymnia, myth (Muses), XVII, a 81

Polyidus of Argos, legion of (Glaucus), X, b 603
Polykrikos, genus (Protozoa), XIX, *b* 883, *b* 884
Polymastidæ, family (Sponges), XXII, b 439
Polymastigina, family (Protozoa), XIX, a 883
Polymerism (Chemistry), V, a 478; (Paraffin), XVIII, b 241
Polymestor of Thrace (Hecuba), XI, a 544
Polymignite (Mineralogy) (Ill.), XVI, b 445
Polymorphina, genus (Foraminifera) (Ill.), IX, a 325, b 332, a 333
Polymorphinina, sub-family (Protozoa), XIX, a 871
Polymorphism (Hydrozoa), XII, b 587, b 597–8
Polymyodæ, family (Birds), III, b 644
Polymemidæ, family (Ichthyology), XII, b 695, a 704, b 715, b 727
POLYNESIA (Plate III), XIX, b 431–42
  amusements, a 440
  atolls, b 433–4
  characteristics, personal, Sawaiori, b 437
  commerce, a 442
  diseases, b 435
  elevated coral islands, b 434
  extent of, b 431–2
  fauna, a b 433, a b 434
  flora, b 432–3, a b 434
  manufactures of Sawaioris, a b 439
  meteorology, b 434–5
  migrations, Sawaiori, a b 437
  missions, Christian, a b 441
  Papuans, a 436–7
  population, decrease of, b 441–2
  prehistoric remains, a b 442
  races, b 435–41
  religious customs of Sawaioris, b 439–40
  Sawaioris, a 437–40
  social system of Sawaioris, a b 438–9
  Tarapon race, a 440–1
  volcanic islands, a 432–3
—— (Cannibalism), IV, a 713; (Magic), XV, a 201; (Missions), XVI, b 539; (Melanesia), XV, a 844; (Taboo), XXIII, a 20–1, b 23; explorers of (Geography), X, a b 169–70
Polynesian Birds, III, a b 643; family of Religions, XX, b 377; languages (Dictionary), VII, b 167; (Philology), XVIII, a b 793; Mythology, XVII, a b 156; (Deluge), VII, b 50–1
Polynoë, genus (Annelida) (Ill.), II, b 59, a b 60
Polyodon, genus (Ichthyology) (Ill.), XII, *b* 684, *a* 685, b 694
Polyodontidæ, family (Ichthyology), XII, a 708, b 725
Poly-Olbion (Drayton), VII, *b* 390; (Geoffrey of Monmouth), X, a 155
Polyommatus, genus (Butterflies) (Plate XXIX), IV, b 528; scale of (Microscope) (Ill.), XVI, a 274
POLYPE, animal, XIX, b 442–3
Polypedatidæ, family (Frog), IX, a 698
Polypetalæ, series (Vegetable Kingdom), XXIV, a 143
Polyphemus, myth (Nereus), XVII, b 355; (Poseidon), XIX, b 574
"Polyphemus," cruiser (Navy), XVII, a 295, 296
Polyphony (Hieroglyphics), XI, b 715–6, b 722; (Music), XVII, b 93
Polyplacophora, order (Mollusca), XVI, a 664
Polyplectrum, bird (Peacock), XVIII, b 454
Polypodiaceæ, class (Ferns) (Ill.), IX, a b 89, *b* 90, *a b* 91, *a* 92, a 93
Polypodium, genus (Ferns), IX, *a b* 91
Polypomorpha, division (Hydrozoa), XII, a 580
Polypompholix, genus (Insectivorous Plants), XIII, *b* 140, b 144
Polyporei, group (Fungus), IX, a 731
Polyporus, fungus (Larch), XIV, a 311; (Matches), XV, b 631; (Parasitism), XVIII, a 272
Polyprion, genus (Ichthyology), XII, a 720, a 727
Polyprotodont, group (Mammalia), XV, *a* 382
Polypteridæ, family (Ichthyology), XII, b 725
Polypteroidei, sub-order (Ichthyology), XII, b 685–6, b 725
POLYPTERUS, genus, XIX, a b 443; (Ichthyology), XII, a b 670, a 676, b 685, a 686, a b 688, a 692, b 694, b 695, b 699, b 700, b 705, b 711, b 725
POLYPUS, tumor, XIX, b 443; (Ear), VII, a 514; (Pathology) (Ill.), XVIII, a b 386
Polyrrhenium, town (Numismatics), XVII, a 661
POLYSPERCHON, general, XIX, b 443; (Olympias), XVII, a 792; (Phocion), XVIII, b 813, a 814
Polysporea, order (Protozoa), XIX, b 878–9
Polystomeæ, parasitic group (Trematoda), XXIII, a 573, a 574
Polystomella, genus (Foraminifera) (Ill.), IX, a b 334, b 338
Polystomellina, sub-family (Protozoa), XIX, b 871
Polystomum, genus (Trematoda), XXIII, a 569, a *b* 571, a 574
Polystyelidæ, family (Tunicata), XXIII, a 657
Polysynodie (Saint-Pierre), XXI, *a* b 205
Polysynthetic language (Grammar), XI, a 34, a b 35; (Indians), XII, *b* 863, note, a 865
Polytelite (Mineralogy), XVI, a 412
Polytheism (Brahmanism), IV, a 183, *b* 186, a 188; (Hume), XII, a 364; (Mahommedanism), XVI, b 569, b 570, b 573, b 583; (Religions), XX, *b* 379, a b 380, a 382; (Theism), XXIII, a b 253, b 255, a b 256
Polytrema, genus (Foraminifera), IX, b 333, b 336, b 338 (Protozoa) (Ill.), XIX, a b 870, a 871
Polytrichium, plant (Botany) (Ill.), IV, a 127, *a* 147; (Muscineæ), XVII, b 72, *a* 77, a b 78, *a* 81
Polytype (Typography), XXIII, b 737, b 749
Polyuria, disease (Diabetes), VII, b 127, a b 128
POLYXENA, heroine, XIX, b 443
Polyxene ores (Platinum), XIX, *a* b 201, b 203–4
Polyxenus, genus (Myriapoda) (Ill.), XVII, a 126
Polyzelus, prince (Hiero I.), XI, a 708
POLYZOA (Ill.), XIX, a 443–56
  bibliography, b 456
  brachiopoda, relation of, b 455–6
  colony (Ill.), a 444–5
  ectoprocta (Ill.), a 451–2
  entoprocta (Ill.), b 452–3
  eupolyzoa (Ill.), a 451–3
  external form of polypide, b 445–6
  genealogical relations (Ill.), a 453–4
  internal structure of (Ill.), a 446–7
  larval forms (Ill.), b 454–5
  place and classification, a 443–4
  pterobranchia (Ill.), a 449–51, b 454
  reproduction, a b 447
  vermiformia (Ill.), b 447–9, a 454
—— (Animal Kingdom), II, a 48; (Brachiopoda), IV, *a* 170; (Distribution), VII, b 241; (Mollusca), XVI, a 655; (Polype), XIX, b 442, a 443; (Sex), XXI, b 756
Polyzonidæ, family (Myriapoda) (Ill.), XVII, b 124, b 125
Poma, assassin (Sarpi), XXI, a 327
Pomacanthus, genus (Ichthyology), XII, a 701
Pomacentridæ, family (Ichthyology), XII, a 716, a 730
Pomades (Oils), XVII, *b* 765, a 768, a b 769
Pomare, kings (Tahiti), XXIII, a *b* 29
——, queen of Otaheite (France), IX, a 547; (Tahiti), XXIII, b 29, a 30
Pomaria, town (Tlemcen), XXIII, b 449, a 450. See Agadir
POMBAL, Sebastian Joseph de Carvalho e Mello, Marquis de, XIX, a b 456; (Brazil), IV, b 207–8; (Jesuits), XIII, a b 665; (Lisbon), XIV, a 699; (Portugal), XIX, a b 565; (Wine), XXIV, a 641
Pome, fruit (Botany) (Ill.), IV, a b 138
POMEGRANATE, plant, XIX, b 456–7; (Botany), IV, b 118, a 119, *b* 130, a 135, a 138; (Kandahar), XIII, a 846
POMERANIA, province, XIX, a 457–8; (Germany), X, a 436, a b 449, b 452; (Prussia), XX, *a b* 18, *b* 20; history of (Bugenhagen), IV, a 399
Pomeranus, reformer. See BUGENHAGEN
Pomerellen, district (Pomerania), XIX, *b* 457
POMEROY, city, XIX, a 458
Pometia, city (Latium), XIV, a 345
POMFRET or PONTEFRACT, town, XIX, a 469–70
POMFRET, John, clergyman, XIX, a 458
Pommel, tool (Leather) (Ill.), XIV, b 386, a 387
Pommeloes, fruit (Shaddock), XXI, b 763
Pommer, musical instrument (Oboe) (Ill.), XVII, b 725, *a b* 726
Pomœrium, district (Rome), XX, a 750, a 756, a b 788, a 830–1
POMONA, goddess, XIX, a 458
—— or Mainland, island (Orkney), XVII, b 870, b 872, b 873
Pomos, tribes (Indians), XII, b 866
POMPADOUR, Jeanne Antoinette Poisson, Marquise de, XIX, a 458–9; (Choiseul), V, *a* b 592; (Crébillon, P. J. de), VI, a 493; (Encyclopædia), VIII, a *b* 180; (France), IX, a b 517, b 519, a 521; (Marivaux), XV, a 558; (Newspapers), XVII, b 435; (Quesnay), XX, a *b* 183
Pompeian libelli (Palæography), XVIII, a b 158
POMPEII, town (Ill.), XIX, a 459–65
  amphitheatre and barrack, b 462
  art and architecture of, a b 464
  authorities, a b 465
  discovery of ruins, b 559–60
  forum, b 460–2
  history, a b 459
  inscriptions, a 465
  plan of city (Ill.), a b 460
  private edifices, a 463–4
  site and area, a 460
  suburban excavations, b 464–5
  temples, not forensic, a 462
  theatrical structures, b 462
  thermæ, b 462–3
—— (Amphitheatre), I, a b 680, *a* 681; (Architecture), (Plate XVII), II, a 364, a b 367–9, a 380; (Basilica) (Ill.), III, b 356; (Baths) (Ill.), a 376–7; (Fountain), IX, *b* 428; (Fresco), *b* 676; (Gladiators), X, b 563; (Herculaneum), XI, *a* 647, b 648; (Inscriptions), XIII, b 139–40; (Mosaic), XVI, b 877, a 878; (Mural Decoration) (Ill.), XVII, b 42–3, b 47–8; (Vesuvius), XXIV, a b 212; paintings at (Archæology), II, b 320; walls of (Italy), XIII, a 455
Pompeii, Fouilles Faites à (Clarac), V, a 701

Pompeii, Overbeck's (Pompeii), XIX, b 465
Pompeiopolis, town (Cilicia), V, a 679; (Paphlagonia), XVIII, a 232
Pompeius, Quintus, general (Metellus), XVI, a 111
——, Sextus, proconsul (Valerius), XXIV, b 47
POMPEIUS Magnus, Sextus, XIX, b 466; (Agrippa, M. V.), I, a 371; (Augustus), III, *b* 69; (Rome), XX, a 787; (Sicily), XXII, b 27
Pompendi, town (Gold Coast), X, b 672
POMPEY, or Cneius Pompeius Magnus, triumvir, XIX, b 465–6; (Afranius), I, a b 219; (Cæsar), IV, *b* 563, a *b* 564, *a b* 566; (Cicero), V, *b* 673, *a* 674; (Drama), VII, *a* 356; (Games), X, a 60. (Israel), XIII, *b* 435; (Messiah), XVI, b 60; (Metellus), b 111; (Milo), a 336; (Mithradates), a 554; (Pamplona), XVIII, b 211; (Persia), b 606–7; (Rome), XX, b 773, b 779, note, a 781–4; (Spain), XXII, *b* 321–2; (Theatre), XXIII, b 242; (Tribune), b 593; (Varro), XXIV, *b* 100
"Pompey's Pillar" (Alexandria), I, b 437; (Egypt), VII, b 666
Pompilus, genus (Pilot-Fish), XIX, a b 105
——sepicola, species (Arachnida), II, a 262
Pomponatius, Petrus, philosopher (Scepticism), XXI, a 399; on immortality (Averroes), III, a 131
Pomponius Mela. See MELA
——, Sextus, jurist (Roman Law), XX, *a* 698, a 714, a 717
Po-mung, mountains (China), V, a 548, a 549
Ponapé island (Polynesia), XIX, *b* 442
Poncas, tribe (Indians), XII, b 872–3
Ponce, town (Porto Rico), XIX, b 547
——, Pedro de, monk (Deaf and Dumb), VII, b 7
Ponce de Leon bay (Florida), IX, b 296
——de Leon, Juan, explorer (Bermudas), III, b 204; (Florida), IX, a 298
—— de Leon, Luis, author. See LEON
PONCELET, Jean Victor mathematician, XIX, b 466–7; (Curve), VI, a b 634; (Geometry), X, a 334, b 366; (Hydromechanics), XII, *a* b 454, b 542, a 543, b 554, a 555, b 562; (Plücker), XIX, a b 240; (Projection), a 820; his waterwheel (Hydromechanics) (Ill.), XII, b 542–3, b 554–5
Poncho pass (United States), XXIII, b 846
POND, Enoch, theologian, XIX, b 923
POND, John, astronomer, XIX, a b 467
Pond culture (Pisciculture), XIX, *b* 136, b 137
Pondero-motive force (Electricity), VIII, a 17
Pond-freshets (Petroleum), XVIII, b 893
PONDICHERRI, town, XIX, b 467; (France), IX, b 465; (India), XII, *b* 839, a 840
Pond-mussel (Mollusca), XVI, a 712, a 720
Pondoland (Kaffraria), XIII, a b 826
Pondomisi tribe (Cape Colony), V, a 43
Pondoros, medicine men (Lycanthropy), XV, b 91
Pond-snail (Mollusca) (Ill.), XVI, b 659, b 684, a 685, a 686, a 687
Pond-weed (Botany) (Ill.), IV, b 77
Poneropolis, town. See PHILIPPOPOLIS
PONEVYEZH, town, XIX, b 467
Poniatowski, king. See STANISLAUS AUGUSTUS
PONIATOWSKI, Joseph, prince, XIX, a 468
PONIATOWSKI, Joseph Anton, marshal, XIX, a 468
PONIATOWSKI, Stanislaus Ciolek, general, XIX, b 467
Ponizie or lowland (Podolia), XIX, b 266
PONS, Jean Louis, astronomer, XIX, a b 468
Pons Ælii, bridge (Newcastle), XVII, b 386, b 388
—— Ælius, bridge (Rome), XX, a 853
—— Æmilius (Rome), XX, a 853
PONSARD, François, dramatist, XIX, a b 468; (Drama), VII, a 368, a b 369; (France), IX, b 594
—— furnace (Iron) (Ill.), XIII, a 330, a 359–60
Pons Fabricius (Rome), XX, a 853
Ponsicchi, Signor (Pianoforte), XIX, a 76
Ponsonby, Caroline, lady (Melbourne), XV, b 847
——, George, politician (Brougham), IV, b 338
——, William, author (Timur), XXIII, b 426
Pons's Comet, VI, a 173
Pons Sublicius (Rome), XX, b 852–3
—— Varolii, cerebric organ (Plate XVIII), I, a b 758, a 765, b 771, a 786; (Physiology) (Ill.), XIX, a b 42; bloodvessels of (Anatomy), I, a 794; cerebellum and (Mammalia), XV, a 369; in heat regulation (Pathology), XVIII, a 403
Pont, Timothy, surveyor (Antoninus, Wall of), II, a 123
Pont Aberglaslyn (Carnarvon), V, a 105
Ponta - Delgada, town (Azores), III, b 147–9
Pontadera, Andrea de, sculptor. See PISANO
Ponta do Sol, town (Cape Verd Islands), V, a 47
Pont à Mousson (Meurthe-et-Moselle), XVI, b 212, a 213
Pontaniana academy (Italy), XIII, b 517
PONTANUS, Jovianus, humanist, XIX, b 468–9
——, Ludovicus de Roma, author (Typography), XXIII, a b 738
Pontarlier, town (Jura), XIII, a *b* 791, a 792
Pontchartrain, lake (Louisiana), XV, a 22, a 24; (New Orleans), XVII, b 412, a 415
——, Louis Phélypeaux, comte de (Academy), I, a 74; (Chazelles), V, a 394; (Lotteries), XV, a 13
Pont du Gard, Nismes (Aqueduct), II, a 192
Ponte, Nicolo da, doge (Venice), XXIV, a 158
Ponteamas or Potaimat, town (Cambodia), IV, b 641
PONTECORVO, city, XIX, a 469. See Fregellæ
—— and Frosinone, state (States of the Church), XXII, *b* 477
Pontécoulant, Louis Gustave Doulcet, comte (Gheel), X, a 503
PONTEFRACT, town and borough, XIX, a 469–70; (York), XXIV, *a b* 786; races (Horse), XII, b 204
PONTEVEDRA, city, XIX, a 470; (Spain), XXII, a 307
PONTEVEDRA, province, XIX, a 470; (Spain), XXII, b 312, a 315, b 318
Pontgibaud, town (Puy de Dôme), XX, *a* 126
Ponthiamus or Potai-mat, town (Cancao), IV, b 706
Ponthus et Sidoine (Romance), XX, a 675
PONTIAC, chief, XIX, b 923
Pontianak, province (Borneo), IV, a 51, b 52, *a* b 53
Pontic mountains (Transcaucasia), XXIII, a 547
PONTIFEX, XIX, a b 470
—— maximus, XIX, a 470; (Annals), II, b 54; (Augustus), III, a 71; (Constantine I.), VI, a 267; (Fire), IX, b 199; (Rome), XX, b 788; (Vesta), XXIV, *b* 209, note, a 210, a 211
Pontiffs, Roman (Bridges), IV, a 296, b 297; (Calendar), a b 591
Pontifical (Liturgy), XIV, a 716; (Mass), XV, b 532
Pontifical indiction (Chronology), V, a 622
Pontificate, republican (Roman Law), XX, a 696, a 698, a 700, a 704, b 708
Pontifices Romanos, Actio in (Paleario), XVIII, a 172
Pontine marshes (Campagna di Rome), IV, a 664; (Italy), XIII, a 448, b 452; (Latium), XIV, b 344, b 345; drainage of (Pius VI.), XIX, b 165
Pontius de Clugny, abbot (Cistercians), V, b 693
—— Pilate. See Pilate
Pontobdella, genus (Leech), XIV, a 404
Pontodrilus, genus (Worm) (Ill.), XXIV, a b 713, a b 714, b 715, a *b* 717
PONTOISE, town, XIX, b 470
Ponton, Mungo, chemist (Photography), XVIII, b 844
PONTOON, XIX, b 470–3; (Harbors and Docks), XI, a 420; troop of British engineers (Army), II, b 507
Pontoporia, genus (Mammalia) (Ill.), XV, b 401
PONTOPPIDAN, Erik, bishop, XIX, a 473; (Denmark), VII, b 79; (Norway), XVII, a 604; (Sea-Serpent), XXI, a 639
——, Erik, bishop (Denmark), VII, b 79
PONTORMO, Jacopo Da, painter, XIX, a 473
Pontresina, village (Engadine), VIII, b 193
PONTUS, country, XIX, b 473–4; (Asia Minor), II, *b* 617, b 620, b 622; (Mithradates), XVI, b 553–4; (Numismatics), XVII, a 662; (Paphlagonia), XVIII, a b 231; diocese of (Greek Church), XI, a 138
PONTUS DE TYARD, poet, XIX, b 474
Pont-y-Cysyllte Aqueduct (Plate IV), II, a 200
PONTYPOOL, town, XIX, b 474
PONTYPRIDD, town, XIX, b 474–5; (Bridges) (Ill.), IV, b 300
Pony (Horse), XII, b 194–5; (Oesel), XVII, b 752; (Orkney), b 871
—— centres (American Journalism), XVII, b 885
—— truck (Steam-Engine), XXII, a 925
PONZA, island, XIX, a 475; (Italy), XIII, a 450
Pool, game (Billiards), III, a b 586
  black or everlasting, a 586
  nearest-ball, a 586
  single, b 585
  skittle, a 586

POOLE, town, XIX, a 475; (Dorset), VII, *b* 320, *a* b 321, a b 322
——, Arthur, conspirator (York), XXIV, *b* 790–1
——, Edmund, conspirator (York), XXIV, b 790–1
——, Jonas, explorer (Polar Regions), XIX, b 329; (Whale), XXIV, a 557
——, Mrs. Lane, traveller (Egypt), VII, b 607 note, a 631, a 668; (Lane), XIV, b 282
POOLE, Matthew, clergyman, XIX, a b 475
——, Moses, inventor (Electro-Metallurgy), VIII, a 109
POOLE, Paul Falconer, painter, XIX, b 475–6
——, W. F., librarian (Index), XII, a 768; (Libraries), XIV, b 536; his *Index* (Periodicals), XVIII, a 549
Poole's Hole, cave (Buxton), IV, a 534; (Cave), V, a b 235
Pools (Jerusalem), XIII, a 649, *a* 650; of Amsanctus, volcanic (Italy), b 452; of Solomon (Palestine), XVIII, b 177
POONA, district, XIX, a b 476
POONA, town, XIX, b 476; (Mahrattas), XV, b 293; treaty of, 1817 (Bundelkhand), IV, b 466
Poor, Henry V., editor (Pacific Railroads), XIX, b 914
—— Clares, nuns (Francis, St.), IX, b 610; (Franciscans), a 616; (Monachism), XVI, b 737
Poore, bishop (Salisbury), XXI, *b* 228, a 229
Pooree, district. See PURI

Poor-Law Amendment Act, 1834, XIX, a b 486, a b 487, a 489
POOR LAWS, XIX, b 476-96
  accounts and expenditures, a b 493-4
  Act of 1834, a 486-7
  administrators, existing, b 486-7
  apprenticeships, a 492
  asylums, a b 490
  Burn's observations, b 484-5
  classification of evils, a 485-6
  Commonwealth, b 480
  countries not British, b 495-6
  desirable reforms, b 495
  districts and unions, cost, b 486-7
  early legislation, a 477
  education, a 491-2
  Edward VI., reign of, b 477-8
  Elizabethan legislation, b 478-80
  evils and remedies suggested, b 483-6
  extent of English pauperism, b 477
  farming pauper labor, a 482
  Gilbert's Act, a b 482
  indoor relief, a 490-1
  local government, b 487-8
  lunatics, a b 492
  maladministration, b 483
  medical relief, b 487, a 492
  Metropolis, a 487
  nature and kind of relief, b 489-91
  necessities to be relieved, b 489
  outdoor relief, a 491
  principles of existing relief, a 488-9
  rates, a 486, a 494-5
  relations, liability of, a b 489
  removal of poor, b 481-2, a 493
  select vestries, a 483
  settlement, b 492-3
  Stuart period, b 480-2
  Tudor period, a 477-80
  vagrants, a 483
  workhouse system, b 479-80, b 482-3, a 487, b 490-1

—— (Famines), IX, a 25; (Foundling Hospitals), b 427; (England), VIII, b 228-9; (Ireland), XIII, a 245; (Malthus), XV, b 347; (Parish), XVIII, a 302, a 303; (Scotland), XXI, b 564; (Wages), XXIV, b 331; (Trajan), XXIII, a 536; beginning of (England), VIII, a 308; commissioners' report (Wages), XXIV, b 331-2; Jewish (Sabbath), XXI, b 135; Malthus on (Political Economy), XIX, a b 386; Ricardo on, b 388; Ricci on, a 376
—— unions (London), XIV, a b 842-3; (Poor Laws), XIX, a 486, a b 494-5
"Poor Men of Lyons," sect (Dominic), VII, b 306; (Reformation), XX, *b* 334; (Waldenses), XXIV, a 344
Poor-rates (Chalmers), V, a 326; (London), XIV, a b 842-3; (Poor Laws), XIX, a 486, a b 494-5
Poor Richard's Almanac (American Literature), I, b 632; (Franklin), IX, a 627
Poot, Hubert Cornelissen, poet (Holland), XII, b 99
Pootai, town (China), V, b 547
Poo-to-ho river (China), V, b 550
POPAYAN, city, XIX, a b 496
Pope, Spiritual Monarchy of the (Pufendorf), XX, *a* 106
POPE, fish, XIX, b 496; (Angling), II, b 40
POPE, Alexander, poet, XIX, b 496-502
  character, estimates of, b 501-2
  Essay on Criticism, b 498-9
  Essay on Man, b 501
  formation of his style, b 497-8
  Homer, Translation of, a b 500
  parentage and youth, a 497-8
  pastorals, early, a b 498
  Rape of the Lock, a 499
  relation to his age, b 496-7
  satire of, b 500-1
  translator and imitator, a 498
  Windsor Forest, a b 499
  Whigs, relation to the, a 499-500

—— (Addison), I, a 135, a b 137; (Akenside), a 386; (Arbuthnot), II, a 285; (Atterbury), III, b 49, *a* b 50; (Boileau Despreaux), *b* 750; (Broome), IV, a b 335; (Cocoa), VI, a 93; (Defoe), VII, a 28; (Dennis), *a* 83; (D'Israeli), b 226; (Dryden), a *b* 425; (English Literature), VIII, a 368, *b* 379, a b 381; (Epigrams), a 425; (Epitaph), b 439; (Fenton, E.), IX, a b 67; (Gay, J.), X, *b* 107, *a* 108; (Halifax, Earl), XI, a b 345; (Hamilton), b 370; (Hervey, John), *a* b 692; (Holland, P.), XII, b 102; (Johnson, S.), XIII, b 730, b 731, a 732, a 733; (Lessing), XIV, b 479; (Mansfield), XV, a 506; (Montagu), XVI, b 793; (Parnell), XVIII, a 324; (Pastoral), b 352; (Philips), a b 768; (Pessimism), b 700; (Rosetti), XX, *b* 882; (Theobald), XXIII, *a* 272; (Twickenham), *a* 716; (Warburton), XXIV, *a* b 389; (Warton), *b* 398, *a* 399; (Wycherley), b 741, a 741; (Jackson, T. J.), XIII, *b* 544, a 545
——, John, general (Pacific Railroads), XIX, b 913; (Stuart), XXII, a 931; (United States), XXIII, a 826
POPEDOM, XIX, a 502-25
  authorities, a 525
  Avignon papacy, a 516
  Carlovingian dynasty, a 509-11
  Clement, Ignatius and Irenæus, b 503-4
POPEDOM, *continued*
  College of Cardinals, rise of, b 512-3
  development of theory, mediæval, a b 510
  earliest list of Roman bishops, a b 503
  eighteenth century, a 521-2
  eighth century, a 509-10
  election, 11th century, a b 513
  eleventh century, a 512-4
  fifteenth century, b 516-8
  fifth century, b 505-7
  fourteenth century, b 515-6
  fourth century, a b 505
  Great councils, fifteenth century, b 516-8
  Great Schism, b 516-7
  Gregory the Great, a 508
  Jews in Rome, b 502-3
  Leo the Great, a b 506
  list of pontiffs, b 523-4
  Metropolitan, creation of, b 504
  nineteenth century, b 522-3
  ninth century, b 510-1
  Peter at Rome, a b 502
  seventeenth century, b 519-21
  seventh century, b 508-9
  sixteenth century, a 518-9
  sixth century, a 507-8
  supremacy, early, a b 504
  third century, a b 504
  thirteenth century, a b 515
  tenth century, b 511-2
  twelfth century, a 514-5. See Papacy

Pope Joan (Blondel), III, b 726; legend of (Photius), XVIII, b 833
Popelicans, sect (Paulicians), XVIII, a 445
"Popery" controversy (Tillotson), XXIII, a 417
Popes, Adoration of, I, b 149; authority of, XIX, a b 513; (Abbot); I, a *b* 28; (Council), VI, a b 454; (Diplomacy), VII, a 219; (Dispensation), b 225; bearded (Beard), III, a 401; change of name (Sergius), XXI, b 708; election of, XIX, a b 504; (Conclave), VI, a 213-4; (Italy), XIII, a 482; German (Italy), a 481; list of (Popedom), XIX, b 523-4; political covenants of (Concordat), VI, a 215; primitive rank of (Cyprian), VI, a 659; venality of (Simony), XXII, a 92. See Infallibility, Papal
Popes, History of the, Ranke's (Popedom), XIX, a 519, a 525
——, *Lives of the* (Abbon), I, b 27
Popham, Andrew, Catholic (Burnet), IV, a 503
——, Sir Home Riggs, admiral (Argentine Republic), II, b 431
——, captain (Hastings), XI, b 459, a 460
Popinjay, bird (Parrot), XVIII, a 327 note
Popish Plot, 1679 (Charles II., of England), V, b 354; (England), VIII, b 313; (Pepys), XVIII, a 531; (Shaftesbury), XXI, a 766
—— recusants (Test Acts), XXIII, a *b* 216
POPLAR, tree, XIX, a 525-7; (Arboriculture), II, *a* b 276, a 279, *b* 281, *b* 282; (Botany), IV, b 76, b 85, a 86, a 90; (Horticulture), XII, a 223; forests (United States), XXIII, a 860, a 862
Poplicola, law of (Consul), VI, a 279
POPLIN or Tabinet, fabric, XIX, a 527; (Ireland), XIII, a 238
Popliteal aneurism (Surgery), XXII, b 718-9; artery (Anatomy), I, b 794; nerves (Anatomy), b 763; vein (Anatomy), a 796
POPOCATEPETL, mountain, XIX, a b 527; (America), I, a 592, b 595; (Mexico), XVI, a 224, notes
Popolo, governing class (Italy), XIII, b 482
Popol-Vuh (Mexico), XVI, a b 216
Popova Balka, town (Nikolaieff), XVII, a 517
Popovich, Yovan, dramatist (Servia), XXI, b 723
Popovtsy, sect (Russia), XXI, a b 90
Poppæa Sabina, empress (Nero), XVII, *b* 358, a *b* 359
Poppo, king (Frisians), IX, a 692
Poppy, plant (Botany) (Plate I) (Ill.), IV, b 114, a b 118, a b 119, b 122, b 124, b 127, *a* b 131, a 135, a 136, b 138; (Horticulture), XII, b 259; (India), b 787-8; (Patna), XVIII, b 419
—— Heads (Architecture), II, a 414
POPPY OIL, XIX, b 527; (Oils), XVII, a 765, a 766, b 767
Poprád, river (Hungary), XII, b 376
Populace, Mohammedan (Sunnites), XXII, b 697-8
Popular Discontents, Temple's (Entail), VIII, a 401
Popular government, rise of (United States), XXIII, *a* b 778-9; voluntary support of (Sanitary Commission), XXI, a b 903, a 905
Popular Ignorance, Essay on (Foster, J.), IX, b 418-9
Popular meetings (Feudalism), IX, b 105
—— party, Roman Republic (Sulla), XXII, b 665, a b 666
—— song, 17th century (Music), XVII, b 63
—— *Science Monthly* (Youmans), XXIV, *b* 922
—— sovereignty (Locke), XIV, b 762
"—— sovereignty," political dogma (Douglas, S. A.), VII, a 327; (United States), XXIII, a 797, a 798, b 799-800

Popular tumults, mediæval (Luther), XV, a b 80; (Medici), a 794; (Lodi), XIV, b 775; (Louvain), XV, a 28; (Rome), XX, b 806, b 809-10, b 812, a 823. See Jacquerie, Peasant War, Pilgrimage of Grace, Wyat

POPULATION, XIX, b 527-32
  age, a b 529
  birth-rate, a b 531
  death-rate, b 531-2
  dynamics of, b 529-32
  increase tables, a b 530
  sex, b 528-9
  statics of, b 527-9
  world's, a b 528
  works on, a b 532

——, checks on (Communism), VI, b 192, a b 193; (Malthus), XV, a b 347; (Political Economy), XIX, a 376, a 385-6, b 393, a 397
——, decay of savage (Polynesia), XIX, b 441-2
——, density of (England), VIII, b 198 201; (Germany), X, b 410-2; (Holland), XII, a 67; (Saxony), XXI, a 374; (Uruguay), XXIV, a 20
Population, Essay on the Principle of, Malthus, XV, b 346-7; (Political Economy), XIX, a b 384-5; (Zoology), XXIV, a b 856
——, Owen on increase of (Socialism), XXII, b 221
——, pressure of (Agriculture), I, a 367
——, speculations on (America), I, b 628-9
—— of United States, altitude distribution, XXIII, b 873-4, b 875; centre of, b 806; conditions of increase, a b 871, a b 875; distribution of, b 831, b 834; geographical movement of, b 871-4; labor distribution of, a b 874, a b 876, a b 879; by nativity, a 874-5
Populonia, city (Etruria), VIII, b 558, a 559; (Numismatics), XVII, b 652, a 653
Populus Romanus, social order (Nobility), XVII, b 538-9
Poquelin, Jean Baptiste. See MOLIÈRE
Poranthera, plant (Botany), IV, b 123, b 124
Pórarenson, Bjarne, poet (Scandinavian Languages) XXI, a 385
PORBEAGLE, fish, XIX, b 532; (Shark), XXI, b 813
Porcaro or Porcari, Stefano, conspirator (Nicholas V.), XVII, a 498; (Rome), XX, a b 823
Porcelain. See POTTERY AND PORCELAIN
—— tower, Nanking (Architecture), II, b 393; (Nanking), XVII, b 178, a 179; (Pottery and Porcelain), XIX, b 654
Porcellana, genus (Crustacea), VI, a 570, b 572, a 577, a 578 note, a b 580, a 581, a 589 note, a 590
Porcellanea, group (Foraminifera), IX, b 329-32, a 339
Porcelos, Diego, soldier (Burgos), IV, *a* 478
Porches (Architecture), II, a 414
Porchester, town (Hampshire), XI, *b* 385, *a* 386
Porcina, author. See LEPIDUS, Æmilius
Porcinari collection of vases (Hamilton, Sir W.), XI, a 376
Porcula, animal (Swine), XXII, a 812
PORCUPINE (Ill.), XIX, b 532-3; (Mammalia), XV, *b* 421, *a* 422, b 425
—— ant-eater (Echidna), VII, b 543
"Porcupine" expedition (Distribution), VII, b 241, b 243; (Dredge), a 399
—— man (Breeds), IV, a 220
—— wood (Cocoa-Nut Palm), VI, b 94
PORDENONE, IL, or Giovanni Antonio Licinio, or Licino, painter, XIX, b 533; (Fresco), IX, a 680; (Titian), XXIII, a 442
Pores (Mollusca), XVI, a 657, b 667, b 710, b 713
——, solar (Sun), XXII, a 682, a 683, *a* b 684
Porfido verde antico, stone (Porphyry), XIX, b 535
Porifera, phylum (Animal Kingdom), II, *b* 46; (Reproduction), XX, a 431; (Skeleton), XXII, b 113-4; (Zoology), XXIV, b 851
Porion evaporator (Paper) (Ill.), XVIII, b 230
PORISM, XIX, b 533-4; (Euclid), VIII, a b 577; (Pappus), XVIII, b 234, a 235
Poritidæ, family (Corals), VI, b 333, b 334, *a* 337
Pork, measles of (Tape-Worms), XXIII, a 57; (Veterinary Science), XXIV, a 223
Porkhoff, town (Pskoff), XX, *a* 41
Pork-packing (Chicago), V, b 531; (Cincinnati), b 684; (Dumfries), VII, a 455; (Indianapolis), XII, b 854. See Hog
Porocidaris, genus (Echinodermata), VII, a b 545
Poronai, river (Saghalin), XXI, *a* 155
POROS or PORO, island, XIX, b 535
Porosity of metals (Elasticity), VII, a 691
Porpezite (Mineralogy), XVI, b 398
Porphyria of Tyre, St. (Pelagia), XVIII, b 481
Porphyrio, bird (Moor-Hen), XVI, a 835
——, commentator (Tibullus), XXIII, a 372
Porphyritic rocks (Geology), X, b 204, b 209
Porphyrogenitus, title (Greece), XI, a 104. See CONSTANTINE VII.
PORPHYRY, XIX, b 535-6; (Geology), X, b 208; (Granite), XI, b 43, a b 44; (Mining), XVI, a 493; argentiferous (Mexico), b 224-5; building stone (Rome), XX, b 826; of Chili (America), I, b 590; quartz-less (Geology), X, a b 209
——, philosopher (Alchemy), I, a 408; (Ethics), VIII, b 517; (Iamblichus), XII, *a* 638; (Longinus), XIV, *a* 875; (Mysticism), XVII, *a* 138; (Neoplatonism), a 343 note, b 344 note, b 345 note, a 346, note, b 347, *b* 348; (Scholasticism), XXI, a 437, a 438
PORPOISE (Ill.), XIX, a 536-7; (Black Sea), III, a 694; (Mammalia), XV, b 397, note, b 402, b 403; (Whale), XXIV, b 551; caudal vertebræ of (Mammalia) (Ill.), XV, b 360
PORPORA, Niccola Antonio, singer, XIX, a 537; (Haydn), XI, b 481; (Metastasio), XVI, a 109; (Music), XVII, a 100
Porquerolles, island (Hyères), XII, a 600
Porrée, schoolman. See GILBERT DE LA PORREE
Porrentrui, town (Switzerland), XXII, a 814, a 818, a 819, b 831
Porro's apparatus, measuring (Surveying), XXII, b 754; his method (Geodesy), X, a 147
Porsa Kala, town (Merv), XVI, *b* 47
Porsena, Lars, prince of Clusium (Rome), XX, b 754; tomb of (Architecture), II, a b 363; (Catacombs), V, a 189; (Etruria), VIII, a b 558, a 560
PORSON, Richard, Greek scholar, XIX, a 537-40
  bibliographical, a 540
  estimate of, a 540
  fellowship term at Cambridge, b 537-8
  Hecuba, a b 539
  library, b 639-40
  loss of fellowship, b 538-9
  professorship period, a b 539
  youth and education, a b 537

—— (Pitt), XIX, b 151
—— Greek type (Typography), XXIII, b 739-40
Port or borough (Municipality), XVII, a 36
Porta, Baccio Della. See BACCIO DELLA PORTA
——, Carlo, poet (Grossi), XI, a 189
——, Giacomo della, architect (Architecture), II, a 384
PORTA, Giambattista della, physicist, XIX, a 540-1; (Academy), I, *b* 68; (Drama), VII, a 362; (Photography), XVIII, b 853; (Steam-Engine), XXII, b 490-1; (Telescope), XXIII, b 146
—— or Porzio, Simone, philosopher (Physiognomy), XIX, a 8, a b 9
Portable engines (Agriculture), I, b 288, a b 289
—— grand Piano (Ill.), XIX, b 83
Port Adelaide, I, a 138
Porta del Popolo (Rome), XX, b 851 note
PORTADOWN, town, XIX, a 541
Portage group, rocks (Geology), X, a 306
—— lake, Michigan (United States), XXIII, a 869
——, town (Wisconsin), XXIV, b 651, a 652
Port Ahuriri, town (Napier), XVII, b 181
Port-à-l'Anglais weir (River Engineering) (Ill.), XX, b 589-90
Portal, Antoine, physician (Anatomy), I, b 715, a 716
Port Alfred, town (Cape Colony), V, a 39, *b* 44
Portal circulation (Vascular System), XXIV, b 118; fissure (Digestive Organs), VII, b 199; veins (Anatomy), I, a 796; (Digestive Organs), VII, a 200. See Hepatic
PORTALIS, Jean Étienne Marie, jurist, XIX, a b 541
Portalupis, Francesco di, spinet-maker (Pianoforte), XIX, a 76
Porta Maggiore (Aqueduct), II, b 191
—— Pandana, gate (Rome), XX, b 845 note
—— Praya, town (Cape Verd), V, b 47
Portarlington town (Queen's County), XX, *b* 177
PORT AU PRINCE, city, XIX, b 541; (Hayti), XI, a 485
Port-Bannatyne, town (Bute) IV, a 517
Port Blair (Andaman Islands), II, a 13, *a* 14
Port Chalmers, harbor (Dunedin), VII, a 468
Port Cornwallis (Andaman Islands), II, *a* 14
Portcullis (Architecture), II, a 414
Port Curtis, district (Queensland), XX, *a* 178, b 180, b 181
Port Darwin (Falkland Islands), IX, a 15
——, district and town (South Australia), XXII, *b* 297
Port de Canfranc, pass (Aragon), II, a 267; (Pyrenees), XX, a 131
Port Desire (Patagonia), XVIII, a b 358
Port Douglas, town (Queensland), XX, a 178, a 181
Port Dundas, town (Scotland), XXI, *b* 553
Porte Conte (Alghero), I, a 502
Port Egmont hen, bird (Skua), XXII, a 133
PORT ELIZABETH, town, XIX, b 541-2; (Algoa Bay), I, b 502; (Cape Colony), V, a b 39, a 41, *a* 42, *a b* 44
Porten, Catherine, child-nurse (Gibbon), X, a *b* 512
Porteous mob (Forbes, D.), IX, b 341; (Mansfield), XV, a 506
Porter, beverage (Adulteration), I, b 156-7; (Brewing), IV, a 241; effects of (Pathology), XVIII, a 397
PORTER, Anna Maria, novelist, XIX, a 542
PORTER, David, captain, XIX, b 923-4; (United States), XXIII, b 808 note
——, David Dixon, admiral, XIX, a 924; (United States), XXIII, b 825
——, Elizabeth, wife (Johnson, S.), XIII, *b* 731, b 734

Porter, George Richardson, publicist (Railway), XX, a 236; (Wages), XXIV, b 332, a 333
PORTER, Jane, novelist, XIX, a b 542
——, Joshua, colonel, XIX, a 924
——, Josias Leslie, missionary (Druses), VII, b 419. See List of Contributors
——, Peter Augustus, colonel, XIX, a 924
——, Peter Buel, general, XIX, a 924
——, Robert P., statistician (Taxation, U. S.), XXIII, a b 926, a 927
PORTER, Sir Robert Ker, painter, XIX, a b 542
——, William David, commodore, XIX, a 924
Porter-Allen Steam-Engine, XXII, a 539, a 922
Porter's governor (Steam-Engine), XXII, b 529
Porteus, Beilby, bishop (Sunday), XXII, a 690
Porteusian Bible Society, III, a 563
Portfolio, Dennie's (Periodicals), XVIII, a 555
PORT GLASGOW, town and burgh, XIX, b 542; (Glasgow), X, *b* 570
Port Hamilton isles (Corea), VI, a 347
Portheven, town (Helston), XI, a 573
PORT HOPE, town, XIX, b 542
Porthouse, Thomas, inventor (Linen Manufacture), XIV, b 670
Port Hudson, surrender of, 1863 (United States), XXIII, b 826
Port Hunter, town (Newcastle, N. S. W.), XVII, a 389
PORT HURON, city, XIX, b 542-3
PORTICI, town, XIX, a 543
Porticos (Architecture), II, a 414; (Antioch), a 116; of Greek temples (Architecture), b 359, a *b* 360; Herod's (Temple), XXIII, a 184; Roman (Architecture), II, b 365; (Rome), XX, a 834, note
Porticus XII. Deorum (Rome), XX, a 840; Octaviæ (Rome), XX, b 847
Portinari, Tommaso, merchant (Goes), X, *b* 642
Portio dura, nerve (Anatomy), I, b 773, *a* 775
Port Jackson (Australia), III, a 99; (New South Wales), XVII, a 418, a 421; (Sydney), XXII, a *b* 845, b 847; Shark (Ill.), XXI, a 812
PORT JERVIS, New York, XIX, a 543
Port Kennedy Observatory (Meteorology), XVI, a 175, 177, 179
PORTLAND, Maine (Plan), XIX, a 543-4
——, town (New Brunswick), XVII, b 384
PORTLAND, Oregon, XIX, a b 544
——, Georges Michel Cavendish Bentinck, duke of (Pitt), XIX, a b 147, a b 154
PORTLAND, William Bentinck, 1st earl of, XIX, a 545; (Penrith), XVIII, a 515
PORTLAND, William Henry Cavendish Bentinck, 3d duke of, prime minister, XIX, a b 545
—— breakwaters (Harbors and Docks) (Plate IX), XI, a b 411, a 415
—— cement (Building), IV, a 411, a 452, a 454; (Harbors and Docks), XI, b 414
—— Club (Whist), XXIV, b 576
PORTLAND, Isle of, XIX, b 544-5; (Dorset), VII, a b 321, *a* 322; (Prison Discipline), XIX, b 771; (Real Estate), XX, b 320
—— oolite series (Geology), X, a 314, a 316
—— Place (London), XIV, a 850, a 861
—— prison (Prison Discipline), XIX, *a* 775
—— stone (Building), IV, a 420
—— vase (Archæology), II, b 320; (Cameo), IV, a 653; (Glass), X, a 579
Portlaw, town (Waterford), XXIV, a 423
Port Lincoln, town (South Australia), XXII, a b 297, a 298
Port Lokko, mission station, (Sierra Leone), XXII, b 50-1
Port Louis, town (Falkland Islands), IX, b 14, *a* 15; (Lorient), XV, *b* 6
—— town and district (Mauritius), XV, *b* 646, *a* 647, a b 648; (Africa), I, b 243
Port Louquez, bay (Madagascar), XV, a 169
PORT LYTTELTON, borough, XIX, b 545
PORT MAHON or Mahon, city, XIX, b 545-6; (Balearic Islands), III, a *b* 240, *a* 241
Portman Square (London), XIV, a 861
Port Mathurin, town (Rodriguez), XX, *b* 634
Portmoak, priory (Kinross), XIV, a b 94
Portmote, parliament (Cinque Ports), V, b 687
Port Nolloth, town (Cape Colony), V, a 39
PORTO ALÉGRE, city, XIX, a 546; (Rio Grande), XX, a 579
PORTOBELLO, burgh of Scotland, XIX, b 546; (Edinburgh), VII, b 569, *a* 571
PORTO BELLO, town of Colombia, XIX, a b 546; (Buccaneers), IV, a b 368; siege of, 1739 (Vernon), XXIV, a 184; (War), a 369, note
Portocarrero, cardinal, statesman (Spain), XXII, a *b* 349
Porto dos Cazaes, town. See Porto Alegre
Porto Empedocle, town (Girgenti), X, *a* 556
Porto Farina, town. See FARINA
Porto Ferrajo, town (Elba), VII, b 716, a 717
Port of Spain, town (Trinidad), XXIII, b 610
Porto Grande, town (Cape Verd Islands), V, b 46, a 47
Portolani, manuscripts (Libraries), XIV, a 529
PORTO MAURIZIO, city, XIX, b 546
Porto Novo, kingdom (Dahomey), VI, a 674, *b* 675
Porto Novo, town (Arcot), II, a 421
Porto Pi, harbor (Palma), XVIII, b 195
PORTO RICO, island (Sketch), XIX, a b 547; (West Indies), XXIV, *b* 538
Porto Sal Rey, town (Cape Verd Islands), V, b 46, a b 47
Porto Santo, island (Columbus), VI, b 153, a 154; (Madeira), XV, b 177, a b 178, *b* 182
Porto Seguro, town (Brazil), IV, a 201, b 205
Porto Silva (Africa), I, b 221
Porto Torres, village (Sassari), XXI, *b* 331
Port Patrick, town (Wigtown), XXIV, a *b* 594, a 595
Port Philip Bay (Melbourne) (Ill.), XV, a b 844, *a* 847; (Victoria), XXIV, a b 232, a 233
Port Pirie, town (South Australia), XXII, b 299
Port Radàma (Madagascar), XV, a 169
Portrait, art (Aikman), I, b 377; (Beechey), III, b 434; (Canini), IV, a 712; (Club), VI, *b* 39; (Cranach), a 483; (Effigies), VII, a 602-3; (Faithorne), VIII, b 748; (Fontana), IX, a b 318; (Forli), b 365; (Gainsborough), X, *b* 15, a 16; (Gérard), a 396; (Ghirlandajo), b 507, a b 508; (Gibson), b 524; (Gordon), a b 696; (Gossart), b 750; (Goya), XI, a 21; (Grant, Sir F.), a 46; (Grün), b 199; (Hayter), a 485; (Heim), a 558; (Helst), b 572; (Hersent), a 688; (Hogarth), XII, b 51; (Holbein), a 56, a b 57, a b 58; (Honthorst), a b 147; (Hoppner), a 163; (Jameson), XIII, b 572; (Janssen), a b 577; (Kit-Cat Club), XIV, a b 105; (Kneller), b 111-2; (Largillière), a b 314; (Leech), b 406; (Lely), a b 435; (Macnee), XV, a b 166; (Massys), a 627; (Mignard), XVI, b 301; (Nanteuil), XVII, b 180; (Nicholson), b 500; (Numismatics), a 648, b 671-2; (Nollekens), a 546; (Opie, John), b 809; (Parmigiano), XVIII, b 323, a 324; (Phillips), a b 773; (Polo, Marco), XIX, b 420; (Raeburn), XX, b 225, a 226; (Ramsay), a b 279; (Raphael), a b 289; (Rembrandt), b 386, a b 387; (Reynolds), a 517-8; (Rigaud), b 569; (Romney), b 861-2; (Sebastiano del Piombo), XXI, b 646-7; (Shakespeare), b 806; (Smith, C.), XXII, b 182; (Stuart), a b 643; (Titian), XXIII, b 444; (Tour), b 517-8; (Van Dyck), XXIV, a b 67, a b 68, *a b* 69, *a b* 70, *a b* 71; (Vanloo), a 75; (Velazquez), a b 146, b 147; (White), b 581; (Wilkie), *a* 600, *a* b 601; (Zuccaro), a 865
Portraits of Children of the Nobility (Leech, J.), XIV, b 406
Portree, town (Skye), XXII, a 135
Portreeve, officer (London), XIV, *a* 854
Port Reitz (Mombasa), XVI, b 723
PORT ROYAL, abbey, XIX, a b 548; (Amelotte), I, b 587; (Arnauld), II, *a* 542, a b 543; (Breviary), IV, b 235; (Education), VII, a 586; (France), IX, a 582; (Jansenism), XIII, b 576-7; (Longueville), XIV, a b 878; (Monachism), XVI, b 739; (Paris), XVIII, a b 548; (Pascal); a b 340; (Racine), XX, a 211, b 212, b 215; (Tillemont), XXIII, b 416
Port Royal (Sainte-Beuve), XXI, a 171, a 173
Port Royal, town. See Fort de France
PORT ROYAL, Jamaica, town, XIX, b 547-8
——, Nova Scotia, town (United States), XXIII, a 782
—— harbor (South Carolina), XXII, a 301; capture of, 1861 (United States), XXIII, b 823
Port Royal logic (Descartes), VII, a 109
Port Rush, town (Coleraine), VI, a 122; breakwater (Harbors and Docks), XI, a b 411
PORT SAID, town, XIX, b 548-9: (Africa), I, b 238, *a* 239; (Canal), IV, b 699
Ports, blockade of (War), XXIV, a b 385
Portsea, island (Hampshire), XI, b 384; (Portsmouth), XIX, a b 549, a b 550
PORTSMOUTH, city (Plan), XIX, a 549-50; (Hampshire), XI, a *b* 385, a 386; Dockyard, VII, b 269, a 272-3, 275; (Block Machinery), III, b 724, b 725
PORTSMOUTH, New Hampshire, town, XIX, b 550
PORTSMOUTH, Ohio, town, XIX, b 550
PORTSMOUTH, Virginia, town, XIX, b 550-1
Port South East, town (Rodriguez), XX, b 634
Portsoy, village, latitude of (Earth), VII, a 521
Port Talbot (Aberavon), I, a 40
Port Townsend (Washington Territory), XXIV, b 406
Portuary, book (Breviary), IV, a 235
Port Tudor (Mombasa), XVI, b 723
PORTUGAL, kingdom (Plate IV), XIX, a 551-74
    GEOGRAPHY AND STATISTICS, a 551-4
        chorography, a b 551
        climate, b 551-2
        commerce and industries, b 552-3
        education, b 554
        finance, b 553-4
        governmental features, a b 554
        population, a b 552
        rivers, b 551

PORTUGAL, *continued*
- HISTORY, a 554–70
  - Affonso I., Henriques, b 555-6
  - Affonso II. and III., a b 557–8
  - Affonso IV., b 558
  - Affonso V., a 560
  - Affonso VI., b 563 4
  - Braganza, accession of house of, a b 563
  - bibliography, b 569–70
  - Diniz or Denis, a b 558
  - Edward, b 559-60
  - Emmanuel, b 560-1
  - events, earliest, a 555
  - Ferdinand and Leonora, b 558–9
  - Henry of Burgundy and Theresa, a b 555
  - Henry the Cardinal, b 562
  - independence, reason of its, a b 554
  - John I., a b 559
  - John II., a b 560
  - John III., a b 561
  - John IV., b 563
  - John V., b 564-5
  - John VI., regency of, b 565–7; reign of, a b 567
  - Joseph, a 565
  - Luis, a b 569
  - Maria I. and Pedro III., b 565–7
  - Maria II., a b 568
  - Pedro I., b 558
  - Pedro II., a b 564
  - Pedro IV., b 567–8
  - Pedro V., b 568–9
  - Peninsular war, a 566-7
  - prior of Crato, a b 562
  - Sancho I. and II., b 556, a b 557
  - Sebastian, b 561–2
  - Spanish domination, a 562–3
- LITERATURE, a 570-4
  - bibliography, b573-4
  - drama, a 572
  - eighteenth century, b 572–3
  - epic and early prose, a 571, a 572
  - fifteenth century, a b 581
  - mediæval, a 570–1
  - nineteenth century, a b 573
  - Provençal influence, a 570–1
  - romances, a 571, a b 572
  - sixteenth and seventeenth centuries, b 571–2
  - troubadours, a 570

—— (Alphonso I. and II.), I, *b* 543; (Army), II, b 536, a 537; (Chronology), V, b 621; (Coal), VI, b 55; (Colonies), a 143, a 145; (Corn Laws), a 366; (Fan), IX, *b* 25; (Forests), b 349, a 350, a 355, (Inquisition), XIII, a 101; (Jesuits), b 634, a b 665, a b 366; (John I., Castile), a 727; (Jews), a 695, b 696; (Junot), a 789; (Libraries), XIV, a b 532, b 551; (Miguel), XVI, a 302; (Mining), a 492; (Monachism), b 740, a 741; (Napoleon I.), XVII, *a* 219, a 220, b 221; (National Debt), a 253, *a b* 254; (Newspapers), b 442; (Numismatics), b 673; (Observatory), a 734; (Oyster), XVIII, b 111; (Patents), a 363; (Periodicals), b 554; (Pottery), XIX, a b 648; (Press Laws), a 733; (Prison Discipline), a b 781; (Quarantine), XX, a 160, a b 163; (Railway), b 262; (Renaissance), *b* 401-2; (Railway), b 262; (Salt), XXI, b 239; (Spain), XXII, *b* 335, a b 341, a 344, b 346, *a* b 347, a 350, *b* 354, *b* 357, *a* b 358, a b 360; (Universities), XXIII, a 895, b 907; (Wines), XXIV, b 634, a 635, a 640–2; constitutionalism in (Brazil), IV, b 208–9; geographical independence (Spain), XXII, a b 307

—— Laurel, XIV, b 348, a 349

Portugalete mines (Bolivia), IV, b 13

Portuguese, people (Abyssinia), I, b 64; (Africa), a b 220, a *b* 221, a 235, b 236, a 237, b 240, a 242; (America), a 623; (Asia), II, a 613; (Azores), III, b 147, a 148; (Benin), a 495; (Brazil), IV, a 205-6; (Cloves), VI, b 37; (Commerce), a b 180; (Congo), b 237; (Coolie), a 297; (Japan), XIII, a 582, b 592, *a* 594; (Madagascar), XV, b 174; (Malay Peninsula), a 326; (Maldive Islands), a 333; (Mauritius), a 648; (Missions), XVI, b 536; (Mombasa), a b 724; (Mozambique), XVII, a *b* 13, *a* 14; (Ormus), b 881–2; (Siam), XXI, b 894; (Timor), XXIII, b 424; (West Indies), XXIV, a 538

—— Academy of Sciences (Correa da Serra), VI, b 386

—— discoverers (Geography), X, a b 161, a 162, b 163, a 166, b 168; (Henry, Prince), XI, b 599–600; (John II.), XIII, b 728

—— Drama, VII, b 363

—— historians, XIX, b 572, a b 573

—— in India (Calicut), IV, a 615; (Camoens), b 660–1; (Castro, João de), V, b 176; (Ceylon), b 316; (Colombo), VI, b 141; (Gaur), X, b 101; (Goa), b 629–30; (Hooghly), XII, b 151; (Jaffna), XIII, b 551; (India), XII, b 782, a 783, b 835–6, a b 837, a b 838; (Indian Archipelago), b 857, a b 859

—— language (Dictionary), VII, a 161; (Europe), VIII, b 614; (Hindustani), XI, b 750, note; (Spain), XXII, a 360, b 365–6

—— slave-trade (Slavery), XXII, a 146, a 149, *b* 152

—— systems (Shorthand), XXI, a 881

Portulaca, plant (Purslane), XX, b 122

Portunidæ, family (Crustacea), VI, a b 579

Portunus, god (Neptune), XVII, a 355

Portus, city (Ostia), XVIII, b 64

—— Albus, town (Algeciras), I, a 496

—— Lunæ, gulf (Liguria), XIV, a 647

—— Magonis, city (Port Mahon), XIX, a 546

—— Mauricii, city. See PORTO MAURIZIO

—— Pisanus. See TAGANROG

Port Vendres, town (Pyrénées), XX, b 134

Port Victoria, town (Seychelles), XXI, a b 762

Port William, inlet (Falkland Islands), IX, *b* 14

Port Wine, XXIV, b 635, a 640–1; (Adulteration), I, b 157; (Oporto), XVII, b 818

Porubejka, village (Nikolaievsk), XVII, a 517

PORUS, Indian king, XIX, a 574; (Alexander the Great), I, a 428; (India), XII, a 826, note, a 827; (Persia), XVIII, b 597, note

Porush (Fibres, Textile), IX, a 116

Porzana, genus (Rail), XX, *a* 230

Posadnitsa, Martha, patriot (Novgorod), XVII, a 623

Posads, political unit (Poland), XIX, b 323

Posaune, musical instrument (Trombone), XXIII, b 623

—— stop (Organ), XVII, *a* 857

Poschiavo valley (Grisons), XI, *a* 182; (Valtellina), XXIV, *a b* 51

POSEIDON, god, XIX, a b 574; (Greece), XI, b 82, *b* 86; (Mythology), XVII, a 161; (Neleus), b 329-30; (Pelops), XVIII, b 490; temple of (Poros), XIX, b 535. See NEPTUNE

Poseidon and Amphitrite (Archæology), II, a 315

POSEN, province, XIX, b 574–5; (Prussia), XX, *a b* 18, *b* 20, *a* b 21

POSEN, city (Plan), XIX, a b 575

Poses weir (River Engineering), XX, b 589

Posets, mountain (Pyrenees), XX, a 131

Posidonia, city (Pæstum), XVIII, a b 137

POSIDONIUS, Stoic, XIX, b 575–6; (Celtic Literature), V, b 263; (Earth), VII, a 516; (Geography), X, b 158; (Ptolemy), XX, b 97; (Stoics), XXII, a b 599, a b 600, note

Posillipo, promontory (Naples), XVII, *b* 194

Position (Mechanics), XV, a 685–6; stability of (Mechanics), b 759

Position Batteries, III, a 383; (Artillery), II, a 584

——, choice of (War), XXIV, b 382

Positive and negative directions (Trigonometry), XXIII, b 598

—— and negative theory (Electricity), VIII, *a b* 7

—— meter (Water-Supply), XXIV, a 432

Positive-motion cut-off (Steam-Engine), XXII, a 922

Positive Philosophy (Comte), VI, b 205-12; (Metaphysic), XVI, a 106

—— *Polity* (Comte), VI, a 207, *a* b 208, b 210, a 212; (Metaphysic), XVI, a 106

—— Prescription, XIX, b 725

—— prints (Photography), XVIII, b 837, b 838

—— school (Medicine), XV, a b 825

Positivism, system (Animism), II, *b* 51; (Comte), VI, a 208–12; (Littré), XIV, b 711–2; (Political Economy), XIX, b 403–4

Posolskoye, town (Transbaikalia), XXIII, a 543

Posquières, rabbi of (Rabad), XX, a 198

Posse, historian (Saxony), XXI, a 375

Posse comitatus (Army), II, b 498

Possessio bonæ fidei (Roman Law), XX, b 717; bonorum (Roman Law), XX, a 720–1

POSSESSION, law-term, XIX, a 576–7; recovery of (Roman Law), XX, b 728; right of (Savigny), XXI, a 342; titles arising from (Roman Law), XX, a b 708, a b 710; in Justinian code, title by (Roman Law), a 733

Possession, Writ, XXIV, a 732

Possession island (Polar Regions), XIX, b 342

Possoschkoff, Ivan (Political Economy), XIX, b 401

Post, courier (Mohammedanism), XVI, b 612

Post, London Morning (Newspapers), XVII, b 427, a b 428

Postage, penny (Finance), IX, a 165; introduction of (England), VIII, b 218; (Post-Office), XIX, a 583–5

Postage rates, British (Post-Office), XIX, b 583–5, *b* 593, a 595; French (Post Office), b 597, a 598; international (Post-Office), a 601; reduction of (United States), XXIII, a 817

—— stamps (Post-Office), XIX, a 602-3; perforation of (Stationery), XXII, a 478

Postal cards (Post-Office), XIX, *a* 594, b 604; envelope, Rowland Hill's (Mulready), XVII, a 25; money orders (England), VIII, a b 217, b 218; (Post-Office), XIX, b 587–8, a b 597; notes (Post-Office), a b 588; service, Roman (Angaria), II, a 25

—— telegraph system, XIX, a 590-3

—— Union (Post-Office), XIX, b 586, b 588 note, b 593, note, b 599, b 600–2

Post and panework (Architecture), II, b 414

Post-Aspirates (Speech-Sounds), XXII, a b 397

Postea, law-term (Nisi Prius), XVII, b 528

Postel, Carl, novelist (Sealsfield), XXI, a 914
——, Guillaume, scholar (Alchemy), I, *a* 410; (Typography), XXIII, *a* 740
Posterior Analytics, Aristotle's (Metaphysic), XVI, b 95, a 101, b 102. See *Analytics*
Postgate, J. P., philologist (Greece), XI, b 115, note
Postillæ Perpetuæ, commentaries (Lyra), XV, b 114
Postill-Book (Iceland), XII, b 662
Postîn, pelt (Afghânistân), I, a 210
POST-OFFICE, XIX, a 578–605
    Austria-Hungary, a b 599, b 604
    Bern treaty, a 601
    FRANCE, b 596-9, a 604
        early history, b 596–7
        money orders, a b 597
        pigeon and balloon, b 597–8
        statistics, a b 598
        tariff, b 597
    German Empire, b 599–600, a 604
    GREAT BRITAIN, a 578–95
        administration, a b 593-4
        Anne's reign, a b 581
        annuities and insurance, a b 590
        Australia, b 594
        bibliography, a b 594
        Canada, b 594
        Charles II., a b 580
        colonies, b 580, a 582, b 594–5
        Cromwell's time, b 579-80
        Dockwra's post, b 580
        expenditure, mail, b 587
        foreign correspondence, b 586, a 587
        government espionage, a 583, a b 585
        Hill, Sir Rowland, a 583-5
        increase since Hill, b 585–7
        India, b 594-5
        James I., b 578-9
        legislation, telegraphic, a 591
        money orders, b 587–8
        packet system, *a* 582
        Palmer's coaches, b 581–2
        postal notes, a b 588
        rates of charges, b 593-4
        resumé, a 594
        savings banks, b 588–90
        Scotland, b 580, a 582
        sixteenth century, a b 578
        statistics, mail, a 586-7
        telegraphic, a 593
        telegraph system, a 590-3
        telephone system, b 592
        Witherings, a b 579

POST-OFFICE, *continued*
    GREAT BRITAIN
        weight of letters, a b 586
        women, employment of, a b 587
    international system, a 600-2
    Italy, a b 600
    origin of, a 578
    postage stamps, a 602–5
    postal congresses, b 600–2
    Russia, b 604
    table of stamp issues, b 604–5
    United States, b 580-1, a 582, a 595–6
—— (Paris), XVIII, a 292; (England), VIII, b 216-8; XIX, a 578-95; (Hill, Rowland), XI, a 731; (Savings Banks), XXI, *a* 343; (Germany), X, b 413–4; (Japan), XIII, b 586, *a* 590; (Mohammedanism), XVI, a 613; (Province), XIX, b 911; (Russia), XXI, b 95–6; (Smallpox), XXII, a 174; (Trollope), XXIII, a b 622, a 623; United States, XIX, a 595-6; XXIII, b 805, b 879–80; building at Washington, XXIV, a 405; violation of (Warrant), a 392
Post-pliocene fauna (America), I, b 600; (Birds), III, b 663; (Distribution), VII, b 245, 246
Post positions (Hindūstānī), XI, b 750, b 751–2
Post-tertiary formations (Geology), X, b 324–9
Post towns (Japan), XIII, b 586–7, a 588
Postulates of Euclid (Axiom), III, *a* 138; (Geometry), X, *a* 335
Postulatio judicis, process (Roman Law), XX, a 701
Postumus, Marcus Cassianus Latinius, tyrant (Rome), XX, *b* 794, a 795
Posturas, decrees (Brazil), IV, b 212
Posy Ring, XX, a 576
Pot in Weights and Measures, XXIV, a 518
Potala palace (Lhasa) (Ill.), XIV, b 496, a b 499–500, *a* b 502, note
Potamochærus, genus (Swine), XXII, a b 812
Potamogale, genus (Mammalia) (Ill.), XV, a 351, b 361, a b 408
Potamogeton, plant (Botany) (Ill.), IV, b 77, b 102
Potamon, bishop of Heraclea (Eusebius Pamphili), VIII, a 633
Potaro river (Guiana), XI, b 221, a 222
Potash (Agriculture), I, b 314; (Alum), b 566; (Forests), IX, a 353; (Glass), X, b 584–5; (Horticulture), XII, b 238; (Manure), XV, a b 513, b 515, b 516, *a b* 517, *b* 518, b 519; (Matches), *b* 631, b 632, a 633; chloride of (Germany), X, b 408; nitrate of (Nitrogen), XVII, a b 531; (Saltpetre), XXI, b 247
—— bulbs (Chemistry) (Ill.), V, a b 472
Potashes (Potassium), XIX, b 605–6
Potash salts (Mining), XVI, a 490; (Oxalic Acid), XVIII, a b 95; (Phosphorus), a 832; (Tartar), XXIII, a b 75; (Tobacco), b 452-3
—— Soaps, XXII, a 214, a b 215
—— water glass (Silica), XXII, b 59
Potassamide (Potassium), XIX, b 607, a 608
POTASSIUM METALS, XIX, a 605–11
    analysis, a b 610
    carbonates of, b 605–6
    caustic potash, b 606–7
    diffusion of, a b 605
    halogen salts, a 608–9
    metal potassium, a b 605, a b 607
    oxides, b 607–8
    quantitative determination, b 610–1
    rubidium and cæsium, b 609-10
    salts, a 608–9
    sulphates, a b 609
—— (Chemistry), V, b 454–5; (Davy), VI, *b* 744; (Gay-Lussac), X, b 110, note; plant absorption of (Insectivorous Plants), XIII, a 142; (Physiology), XIX, a 56
—— bichromate (Chromium), V, *a* 613; (Photography), XVIII, b 844, a 845, b 851
—— carbonate (Cream of Tartar), VI, b 492
—— chlorate (Chemistry), V, b 416–7, a 428, a 429, a 430; (Chlorine), b 590
—— cyanides (Chemistry), V, *a* b 481; (Photography), XVIII, b 843; (Prussic Acid), XX, b 27–8, b 29, b 30
—— oxides (Hydrogen), XII, b 449–50
—— permanganate (Chemistry), V, b 463–4
—— spectrum (Spectroscopy), XXII, b 389-90
—— sulphate (Sodium), XXII, a b 253; sulphocyanate (Prussic Acid), XX, a 30
POTATO, plant (Ill.), XIX, a 611–5
    chemical composition of, a b 611
    culture, a b 613
    description of, a 611
    disease (Ill.), b 613–4
    history of, b 611–2
    peronospora infestans, a 614–5
    species, parental, a 612–3
—— (Acclimatization), I, b 80; (Agriculture), b 266–7, b 268, b 323–5; (Ayr), III, b 141; (Botany), IV, *b* 77, a 86, b 87, b 138, b 142; (Cookery), VI, a b 295; (Corea), b 347; (France), IX, b 458; (Haddington), XI, a 323; (Horticulture), XII, a 221, b 298–9; (India), b 786; (Ireland), XIII, 227, 228, 229, b 230, b 275, b 276; (Italy), a 460; (Night-shade), XVII, b 512; (United States), XXIII, a 878; native region of (Peru), XVIII, b 686
—— brandy (Distillation), VII, a 230
—— bug (Coleoptera), VI, b 121; (Colorado), b 146; (Insects), XIII, a 156
—— disease, XIX, b 613–4; (Agriculture), I, b 271, b 323–4, a 325; (Fungus), IX, b 729; (Ireland), XIII, a b 226; (Parasitism), XVIII, *a* 271
—— farina (Arrowroot), II, a b 552
—— onion, plant (Horticulture), XII, a b 297
"Pot-8-os" (Horse), XII, *a b* 188
Potato Starch, XXII, a 473
POTATO, SWEET, XIX, a 615; (Yam), XXIV, b 763
Potato walk (Heligoland), XI, a 563
—— war (Saxony), XXI, b 370
Pot au feu, boiling (Cookery), VI, a 296
Potchefstroom, district and town (Transvaal), XXIII, *a* b 551
POTEMKIN, Gregory Alexandrovich, statesman, XIX, a b 615; (Catherine II.), V, b 204, a 205; (Ekaterinoslaff), VII, b 688
Potentia, city. See POTENZA
Potential, abstract term (Aristotle), II, *b* 458
——, in physics (Electricity), VIII, b 12, a b 23, note; (Wave), XXIV, a b 443; characteristic equation of (Electricity), VIII, a 24; coefficients of (Electricity), a 27; of the earth (Magnetism), XV, b 235–6; generating (Tides), XXIII, b 378–80, b 387–8; measurement of fall of (Telegraph), a b 126; in terms of hour, angle and declination (Tides), b 379–80; variations of (Constitution of Bodies), VI, b 278
—— Energy, VIII, b 187; (Capillary Action), V, a 52, a 53
—— function (Electricity), VIII, a 12; (Laplace), XIV, b 303; of solids (Elasticity), VII, b 714
"Potentiality" (Medicine), XV, a 824
Potentilla, plants (Horticulture), XII, b 267
POTENZA, city, XIX, b 615–6; district (Basilicata), III, a 363
Poterat, Louis, potter (Pottery and Porcelain), XIX, b 656
Poteriocrinus, genus (Echinodermata) (Ill.), VII, a b 551, *b* 552
Potgieter, leader (Transvaal), XXII, a *b* 551
Pothinus, bishop of Lyons (Irenæus), XIII, *a* 279
Pot holes (Caves), V, *b* 231; (Geology), X, a 245
POTI, town, XIX, a 616; (Transcaucasia), XXIII, a 547
Potidæa, colony (Greece), XI, b 91, b 93
Potin, alloy (Numismatics), XVII, b 666, a 669
Potiron jaune, plant (Gourd), XI, b 5

Potmaochloa (Grasses), XI, a 49
Pot-metal (Glass), X, b 594
Potocki, Waclaw, poet (Poland), XIX, a b 313
POTOMAC, river, XIX, a 616; (Maryland), XV, *a* b 609
Potoroos, genus (Kangaroo) (Ill.), XIII, a 850
POTOSI, Bolivia, town, XIX, a b 616; (Bolivia), IV, b 12, b 13, a b 15; department, IV, *a* 11, *b* 13, *a* 14, *a* 15, a 17; (Mining), XVI, b 493
Potrerillo, pico de, or mountain (Cuba), VI, a 601
POTSDAM, Brandenburg, city (Plan), XIX, b 616-7; (Glass), X, a b 583; (Observatory), XVII, a 733
—— group, rocks (Geology), X, *a* 293
"Pot" stills (Distillation), VII, b 230
Potstone (Flint), IX, b 285; (Geology), X, b 211; (Mineralogy), XVI, a 432
Pott in Weights and Measures, XXIV, a 518
——, August Friedrich, philologist, *b.* 1802, *d.* 1887 (Gipsies), X, a 549, a b 551, a 552; (Philology), XVIII, a 795, b 797 note
——, Johann Heinrich, chemist (Chemistry), V, b 399
——, Percival, surgeon (Hunter, J), XII, a b 401, b 402, a b 404; (Surgery), XXII, *b* 711
Pottawattamies, tribes (Indians), XII, b 871-2
POTTER, Alonzo, bishop, XIX, a 924
——, Cipriani, teacher (Music), XVII, b 102, b 104
——, Dirk, poet (Holland), XII, a 94
——, Horatio, bishop, *b.* 1802, *d.* 1886, XIX, b 924
——, Humphrey, inventor (Steam-Engine), XXII, a 492
POTTER, John, archbishop, XIX, b 617
POTTER, Paul, painter, XIX, b 617; (Schools of Painting), XXI, b 459, a 464
——, Richard, inventor (Transverse Flute), XXIII, b 553
——, Thomas, author (Wilkes), XXIV, a b 598
Potteries, Staffordshire (Brick), IV, b 250
Potters' marks (Pottery and Porcelain) (Ill.), XIX, b 641, b 645, a b 646, a b 647, a b 649, b 650, a 651, a b 656, a 657, b 658, a b 660, a b 661, a b 662
"Potters' Stone" (Alabaster), I, b 359
POTTERY AND PORCELAIN (Ill.), XIX, a 617-64
Assyrian (Ill.), b 621-3
China (Ill.), a 653-4
decoration methods, modern, b 663
Egyptian (Ill.), a 620-1
English, from 16th century (Ill.), a 651-2
Etruscan and prehistoric (Ill.), a 633-5
black ware, a b 633
imitation vases, a b 634
POTTERY AND PORCELAIN, *continued*
Etruscan and prehistoric inscriptions, dates and localities, a 635
literature, a b 635
painted and relief vases, b 633-4
painted wall slabs (Ill.), b 634-5
Europe, modern, b 655-63
early development, b 655-6
English (Ill.), b 660-2
French, b 656-9
German and Austrian (Ill.), a 659-60
Italian and Spanish, b 660
manufacture, a 658-9, a b 663
Medici, a b 656
processes, Sèvres, a 658-9
Sèvres ware (Ill.), a 657-9
French, 16th to 18th centuries (Ill.), b 648-50
German mediæval, Dutch, Scandinavian (Ill), a 650-1
Græco-Roman and Roman (Ill.), b 635-8
black ware, a b 637
glazed ware, b 635-6, b 637
inscriptions, b 638
kilns (Ill.), b 637-8
mortaria, lamps and bricks, b 637
plain biscuit, b 636
relief work, b 636-7
Samian ware, a b 636
Hellenic (Ill.), a 629-33
archaic (Ill.), a 629-30
black vases with red figures (Ill.), a 631-2
dates and shapes, a b 632
decadence, a 632
localities, where found, a 633
panathenaic, b 632
red vases with black figures, a b 630
subjects of painting (Ill.), b 632-3
Japan, b 654-5
literature, a 620, b 621, a 623, a b 635, a 638, a 642, a 648, a 650, a 651, b 652, b 655, a 659, b 660, a b 664
manufacture (Ill.), b 618-9
materials and classification, a 618
mediæval and Italian (Ill.), a 643-8
collections, a 648
decoration (Ill.), b 644-5
Faenza, b 646-7
Giorgio of Gubbio (Ill.), b 645-6
literature, a 648
majolica, a b 643, b 645-6, b 647-8
manufacture (Ill.), a b 644
materials, b 643-4
sgraffiato ware (Ill.), a 643
Siena, Florence and Venice, a b 647
Urbino (Ill.), a b 646
POTTERY AND PORCELAIN, *continued*
Mexican, Peruvian, etc., b 652-3
museums, a b 664
Nevers enamel, a b 649
Persian and Moslem (Ill.), b 638-42
ancient coarse ware, a 639
Chinese influence (Ill.), b 640-1
Damascus ware (Ill.), b 639
enamel patterns, a b 639
lustred ware, b 638-9
material, b 638
Moorish (Ill.), a 641-2
Rhodian ware (Ill.), b 639-40
sgraffiato ware, a 636
Phœnician and archaic (Ill.), a 623-9
enamelled, a 624
form and material (Ill.), b 623-4
inscriptions, a 628-9
painted ornament (Ill.), a 624-5
technical methods, a 626-8
vases with animals and flowers, b 625-6
prehistoric (Ill.), b 619-20
Ptolemaic period, b 621
Spanish and Portuguese, a b 648
technical terms, b 618
Teutonic, Saxon and Gaulish (Ill.), a 642-3
Wedgewood ware, a b 652. See Ceramics

—— (Archæology), II, a 297, *a* b 304; (Arezzo), b 428; (Babylonia), III, a 164, a 165; (Corinth), VI, a 353; (Denmark), VII, b 71; (Derby), b 94; (Edfu), b 566; (Egypt), b 673; (Etruria), VIII, b 563-4; (Fine Arts), IX, b 184; (France), b 460; (Gilding), X, a 531; (Hala), XI, b 339; (Hanley), a 394; (India), XII, b 801-2, a 805; (Italy), XIII, b 464; (Japan), b 598, a b 600-1; (Kaolin), XIV, b 3; (King-Tih-Chin), b 92; (Krishnagar), b 149; (Leeds), b 408; (Limoges), a 658; (Liverpool), b 721; (Mineralogy), XVI, a 410, b 442; (Nagova), XVII, a 171; (Palissy) (Ill.), XVIII, b 190, a b 191; (Rome) (Plate VI), XX, a 830, notes; (Sèvres), XXI, a 743; (Scio), a 487; (Stafford), XXII, b 459; (Wedgewood), XXIV, a b 503; (Worcester), b 702
Pottery Coal-field, VI, a 49
Pottier and Reinach, antiquaries (Terra-Cotta), XXIII, a 208, b 212
Pottinger, Eldred, major (Afghânistân), I, a 207, b 217; (Persia), XVIII, a 662
——, Sir Henry, diplomatist (China), V, b 565
Potting plants (Horticulture), XII, b 245-6
Potto, animal (Lemur), XIV, a 444
POTTSTOWN, borough, XIX, a 664
POTTSVILLE, city, XIX, a 664
Potumayo, river (Colombia), VI, a 138
Pouce, mountain (Mauritius), XV, b 646
Pouncey's process (Photography), XVIII, b 844
Pouch or marsupium (Phalanger), XVIII, a 741
Pouched rats (Mammalia), XV, *b* 421
Pouchenie, chronicle (Russia), XXI, a 112
Poudrette, manure (Horticulture), XII, b 238
POUGHKEEPSIE, city, XIX, a b 664
Pouillet, Claude Servais Matthias, physicist (Pyrometer), XX, b 135, a 138, b 139; his compasses (Galvanometer), X, b 47
Poukpa, town (Burmah), IV, b 492
Poulaines, shoes (Costume), VI, a 416
Pouls, tribe (Senegambia), XXI, *a* 695
Poulterer, king's (Napier), XVII, a 192
Poultices, application of (Veterinary Science), XXIV, a b 218
Poulton, E B., biologist (Zoology), XXIV, a 858
POULTRY, XIX, b 664-8
breeding fowl, b 666
common fowl, b 664-6
ducks, a b 667
geese, b 667
guinea fowl, a 667
meaning of name, b 664-5
pigeons, b 667-8
turkeys, b 666-7

—— (Agriculture), I, a b 356; (Egg), VII, b 604; (Instinct), XIII, a b 165; (Ireland), 230-1, a 232; (Japan), a 585; (Mans), XV, a 505; (United States), XXIII, b 878
POUND, enclosure, XIX, a 668
——, standard in Weights and Measures, XXIV, b 506-7
Poundage (Finance), IX, a b 156, b 157; (Tonnage and Poundage), XXIII, a 472
Poundal, unit (Dynamics), VII, a 504
Poundbury camp (Dorchester), VII, a 317
Pounding-mill (Metallurgy), XVI, b 63
Pound Scots, money (Payment), XVIII, b 451 note
—— sterling (Decimal Coinage), VII, *b* 19; (Finance), IX, a 156; (Mint), XVI, a 503, b 504; (Money), b 756, a 760; (Numismatics), XVII, a 673
Poung-Loung, mountains (Burmah, British), IV, b 499; river (Burmah), a 492
Poupart's ligament (Anatomy), I, a 730
Pourcel's experiment (Iron), XIII, a 355, note
Pourtales, L. F., count, naturalist (Dredge), VII, a 399

POUSHKIN, Alexander, poet, XIX, a 668–9; (Russia), XXI, a *b* 115, b 117
Poussin, Gaspar, XIX, a 670
POUSSIN, Nicolas, painter, XIX, b 669–70; (Schools of Painting) (Ill.), XXI, a 460, a 464, *a* 466
POUT, fish, XIX, b 670
Pouter-pigeon (Dove), VII, b 328
Poverty, aphorisms on (Theognis), XXIII, b 280
Poverty, Book of Spiritual (Tauler), XXIII, b 88
Poverty, diseases of, or morbus miseriæ (Cretinism), VI, a b 507; (Pathology), XVIII, b 381, a 382, a 397, b 405, b 413, b 415; (Pellagra), b 486–8; (Phthisis), a b 870; (Plague), XIX, b 171, a 176; (Quarantine), XX, b 162, b 163–4; (Tea), XXIII, b 108; (Typhus), b 718; (Vaccination), XXIV, b 33
——, evangelical (Occam), XVII, b 739
——, vow of (Buddhism), IV, a 390; (Monachism), XVI, b 736, a 737
—— Point (Louisiana), XV, a 24
Povey, Charles, postmaster (Post-Office), XIX, b 580
Povindahs, merchants (Afghânistân), I, b 210; (Punjab), XX, a 116
POWAN or Powen, fish, XIX, b 670
Powder. See GUNPOWDER
——, river (Oregon), XVII, *a* 846; mountains (Oregon), *a* 846
Powders, testing of (Magnetism), XV, b 264–5
Powell, H. J., manufacturer (Glass), X, a b 595
——, John Wesley, scientist, (Colorado River), VI, a 147; (Geology), X, a 266, a 330, a 333; (Indians), XII, *a* 870; (Prairie), XIX, *b* 925; (Pueblo Indians), XX, b 888, b 889; (Smithsonian), XXII, a 915; (Surveys), b 936, b 937, b 938
——, Mary (Milton, John), XVI, b 341, a b 343
Powen, fish (Gwyniad), XI, b 309
Power, Locke on, XIV, a 767
Power-loom weaving (Cotton), VI, b 444; (Weaving) (Ill.), XXIV, a 492–3; (Wages), b 332–3
Power of Attorney, III, b 55
—— of the correspondence (Geometry), X, b 352
—— of the Keys (Indulgence), XII, a 888
—— of marine engines (Steam-Engines), XXII, a 546–7
POWERS, Hiram, sculptor, XIX, b 670–1; (Sculpture), XXI, b 597, note
Power-transmitter, pneumatic (Mechanics), XV, b 761
Powhatan, chief (Pocahontas), XIX, *a* 923; (Smith), XXII, a b 185
Powys, district (Montgomery), XVI, b 815
Po-yang Lake (China), V, b 548, b 549–50, *b* 552; (Kew-Keang-Foo), XIV, a *b* 57
Poyas, Indians (Honduras), XII, b 133, b 134
——, mountains (Ural Mountains), XXIV, b 7
Poynet, John, bishop (Gardiner), X, a 70
Poyning's Act (Act of Parliament), I, b 114; (Ireland), XIII, a 268, b 271, a 275, a 276; (Statute), XXII, a 488
Poynting's polarimeter (Wave Theory), XXIV, a b 477
Pozharski, Prince (Russia), XXI, *a* 104
Pozsony, town. See PRESSBURG
Pozuzu, river (Peru), XVIII, a 686
Pozzo, Bartolomeo del, historian (St. John of Jerusalem), XXI, a 184
POZZO DI BORGO, Carlo Andrea, diplomat, XIX, a 671
Pozzuolana, cement (Building), IV, b 407, a b 410; (Catacombs), V, b 185; (Fresco), IX, b 680; (Latium), XIV, a 344; (Rome), XX, *b* 825
POZZUOLI, town, XIX, a b 671
Praam Berg, mountain (Cape Colony), V, a 38
Prabodha-chandrodayn (Sanskrit), XXI, a 300, note
Practica (Medicine), XV, a 816
Practical Education (Edgeworths), VII, a 567, a 569
—— navigation, XVII, b 270–85
—— Theology, XXIII, a 294
Practical View of Prevailing Religious Systems (Wilberforce), XXIV, a 597
Practice (Arithmetic), II, b 469
Prade, Eugène de, abbot (Trappists), XXIII, a 558
Pradier, Jacques, sculptor (Sculpture), XXI, b 590
PRADIER, James, sculptor, XIX, a 672
Prado, Mariano Ignacio, president (Peru), XVIII, b 692, note
Pradon, Nicolas, dramatist (Racine), XX, a 214
Pradt, Dominique Dufour, abbé de, ambassador (Napoleon I.), XVII, b 224, a 225
Præcentor, See Precentor
Præcipe, Writ, XXIV, a 729
PRAED, Winthrop Mackworth, poet, XIX, a b 672
Prædial slaves (Slavery), XXII, b 144
PRÆFECT, officer, XIX, b 672–3
Præfectus Ægypti, XIX, b 673
    Annonæ, b 673
    Augustalis, b 673
    Classium, b 673
    Fabrum, b 673
    Socium, b 673
    See Prefect
——, institution of (Rome), XX, b 764–5; urbani (Rome), b 801, *b* 802, a 803, b 804, *a* b 807, a 809, a b 812
Præfloration (Botany), IV, a 118
Præiotization phonics (Slavs), XXII, a 157
Prælectiones Academicæ (Lowth), XV, *a* b 32
Prælector, officer (Cathedral), V, a 199
Præmonstratensian order (Honorius II.), XII, b 146
"Præmunientes" (Convocation), VI, *b* 289, a 290, b 291
PRÆMUNIRE, writ, XIX, b 673–4; (Habeas Corpus), XI, a 321; (Treason), XXIII, a b 562
PRÆNESTE, city, XIX, a 674–5; (Mirror), XVI, a 525; (Rome), XX, b 779, note, a 780
Præparatio (Missal), XVI, b 533
Prætexta or Prætextata (Drama), VII, b 354–5
Præsus, city (Numismatics), XVII, a 661
PRÆTOR, officer, XIX, a 675–6; (Italy), XIII, a 473; (Province), XIX, b 910; fidei commissarius (Roman Law), XX, a 728; imperial (Roman Law), a b 723, b 789–90; jurisdiction of (Gaius), X, b 16; peregrin (Roman Law), XX, b 713–4, a 716, b 723; republic (Roman Law), *b* 696, b 701, b 704, b 705; Syllan (Rome), b 780, note, a 781, note; urbanus (Rome), *b* 757
Prætorian Camp, IV, a 663; (Rome), XX, a 849; edicts (Roman Law), XX, b 715, a b 716; equity (Roman Law), b 714, a 716; (Women), XXIV, a 672; law of inheritance (Roman Law), XX, a 720–1; prefect, imperial (Roman Law), b 722; testament (Roman Law), b 725, note, b 733
PRÆTORIANS, soldiers, XIX, a b 676; (Galba), X, *a* b 21; (Gordianus), a 695; (Nerva), XVII, b 362; (Præfect), XIX, a b 673; (Province), a 911; (Rome), XX, b 791; (Severus), XXI, a b 732, b 733; (Tiberius), XXIII, a 358; (Trajan), b 534, b 535
Prætorium, XIX, b 676; (Camp), IV, a 663; palace (Pilate), XIX, a 98
Prætorius, Franz, philologist (Semitic Languages), XXI, a b 687 notes
PRÆTORIUS, Michael, composer, XIX, b 676–7; (Oboe), XVII, b 725, a 727; (Pianoforte), XIX, b 73, b 74, b 76; (Trombone), XXIII, b 623; (Trumpet), *b* 630; (Zincken), XXIV, b 826
Prag. See PRAGUE
Praga, suburb (Warsaw), XXIV, b 395, a 397
Pragâthâh (Sanskrit), XXI, b 288
Pragel, pass (Glarus). X, b 566
Pragmatic method of Polybius, XIX, a 426
PRAGMATIC SANCTION, XIX, a b 677; (Concordat), VI, a 215; (Germany), X, b 441, b 450, a 451
——, Austrian, 1713, XIX, a 677; III, *a* 111, b 122; (Charles VI. and VII.), V, b 362, a 363; (Florence), IX, b 294; (France), a 516; (Frederick II.), b 647; (Hungary), XII, a 381, a 385, b 388
—— of 1430, XIX, a 677; (Charles VII.), V, b 356, a 357; (France), IX, b 485; (Popedom), XIX, b 517
—— of Louis IX. (France), IX, a 480; (Gregory IX.), XI, a 159; (Pius II.), XIX, a 163; (Popedom), b 515
——, Roman, 554, XX, *b* 800
PRAGUE, city, plan, XIX, b 677–9; (Huss), XII, a b 420; (Libraries), XIV, b 549; (London), b 829; (Newspapers), XVII, b 440, note; (Observatory), b 733; (Plague), XIX, a b 176; (Universities), XXIII, a b 895, a 897, b 899, b 901, a 905; congress of, 1813 (Metternich), XVI, b 208; opera house (Weber), XXIV, *a* 495
Praguerie, party (France), IX, a 486; (Louis XI.), XV, a 20
Prahasana (Drama), VII, b 344
PRAHRAN, city, XIX, b 679
Praia or Praya, Villa da, town (Cape Verd Islands), V, a 47
PRAIRIE, XIX, b 924–5; (Illinois), XII, b 742; (Kansas), XIII, b 852; black (Texas), XXIII, b 219, a *b* 221, *a b* 222; vegetation of the (United States), XXIII, *b* 862–3
—— dog (Marmot) (Ill.), XV, b 566, a *b* 567
—— -hen (Grouse), XI, b 198
—— du Chien, town (Wisconsin), XXIV, *a* 652
Prajāpati, deity (Brahmanism), IV, *a* 183, a *b* 186; (Mythology), XVII, a 164
Prakarana (Drama), VII, b 343, b 344
Prakrama Bahu, king (Cambodia), IV, b 640
PRAKRIT, language, XIX, b 679; (Dictionary), VII, a 166; (Hindustani), XI, b 750, note, a 751–3, a 756; (Philology), XVIII, b 797–8; dramatic (Sanskrit), XXI, b 298; Jaina (Jains), XIII, b 553
Prākrit-Prakāsa (Hindūstānī) XI, a 751
PRAM, Christen Henriksen, poet, XIX, b 679; (Norway), XVII, b 604
Pramantha (Prometheus), XIX, *b* 830, a 831
Pranhítá, river (Chándá), V, b 338, a 339; (Godávari), X, b 636
Prantl, metaphysician (Galen, C.), X, b 22; (Scholasticism), XXI, b 435, a b 438, a b 440, note, *a* 441, b 442, a 444, a 449
Prase, mineral (Mineralogy), XVI, a 405
Praseolite (Mineralogy), XVI, a 436
Prasias, lake (Lake Dwellings), XIV, *b* 223; (Macedonia), XV, b 138
Prasius, stone (Heliotrope, Stone), XI, a 566
Prasutagus, king of Britons (Boadicea), III, b 731
Pratábgarh, district. See PARTÁBGARH

Pratensis, Jodocus. See DEPRES
Prater, park (Vienna), XXIV, a 239
Prätigau valley (Grisons), XI, *a* 182
Pratinas of Phlius, poet (Drama), VII, a 350
PRATINCOLE, bird, XIX, b 679-80; (Wheatear), XXIV, a 567
Pratique des Hautes Etudes, École (Universities), XXIII, a 907
Prâtisâkhya (Sanskrit), XXI, b 287, a 290, a 293, note
PRATO, city, XIX, a b 680; (Lippi), XIV, b 690
—— Magno, mountains (Italy), XIII, b 447
Pratt, Charles, lord chancellor. See CAMDEN, Earl
——, John H., archdeacon (Earth), VII, b 521 note, b 523, a 526; (Geology), X, a 194, a 199
——, John Tidd, barrister (Friendly Societies), IX, b 686; (Savings Banks), XXI, b 344
Praudha-brâhmana(Sanskrit), XXI, a 291
Pravada, Ruskaia (Russia), XXI, b 97, b 112
Pravia river (Asturias), II, b 721
Pravoslavs, people (Herzegovina), XI, b 692
Prawn, shell-fish (Crustacea) (Ill.), VI, b 561 note, a 566 note, a b 570, b 577, a 579; (Fisheries), IX, b 231; (Shrimp), XXI, b 886
Praxagoras of Cos (Anatomy), I, a 703
Praxeas, controversialist (Montanism), XVI, a 802
PRAXITELES, sculptor, XIX, b 680; (Archæology), II, a 310, a 311, *a* b 315; (Hera), XI, b 606; (Phryne), XVIII, a 868, note
Prayâgs, shrines (Ganges), X, *a* 62
Prayer Book of Charles the Bald (Creeds), VI, b 498-9
——, *Book of Common* (Baptism), III, b 303; (Confirmation), VI, b 229; (Convocation), a b 291; (Copyright), a 321; (Cranmer), a 488; (England), VIII, b 303-4, b 305-6, b 307; (England, Church of), a 337, b 339-40; (Knighthood), XIV, a 121; (Liturgy), a 716-7; (Reformation), XX, b 349; (Hymns), XII, a b 624, a b 625; American (Liturgy), XIV, b 717; (Reformed Episcopal Church), XX, a b 904; (Seabury), XXI, b 913; (Thanksgiving Day), XXIII, b 937; Irish (Liturgy), XIV, b 717; Scotch (Liturgy), a b 717; (Laud), b 347; introduction of (Scotland), XXI, b 533-4
—— *-Book of Maximilian* (Dürer), VII, a 482
Prayer-books, Jewish (Mahzor), XV, b 294-5
—— niche, Moslem (Tiles), XXIII, b 415-6
Prayers, Aztec (Mexico), XVI, a 220; of Druses, VII, *b* 418; Moslem (Mohammedanism), XVI, b 583; (Mosque), a 891; Roman Catholic (Rosary), XX, a 871. See BREVIARY, LITURGY, MISSAL
Prayer thongs, Jewish (Phylactery), XIX, a 5
Preachers (Methodism), XVI, b 195, a b 196, b 197, b 198; travelling (Methodism), b 200; (Wycliffe), XXIV, *a* b 746, a 747
Preaching, duty of (Trent, Council of), XXIII, b 580; early (Christianity), V, b 607-8; (Homily), XII, b 128-9; mediæval (Germany), X, b 470; street (Penn), XVIII, b 503, a 504
—— friars (Abbey), I, a b 27; (Inquisition), XIII, b 98, a 99
Preaching of John Knox before the Lords, picture (Wilkie), XXIV, a 601
—— *of Peter and Paul* (Peter), XVIII, a 709, a 710
Preanger regencies (Java), XIII, b 616
Pré aux Clercs, Le (Hérold), XI, a 679
Prebendary (Cathedral), V, a b 199
Prebends, appropriation of (Universities), XXIII, *b* 896, b 898-9
PREBLE, Edward, commodore, XIX, b 925
——, George Henry, sailor, XIX, a 926
——, William Pitt, jurist, XIX, a 926
Precarium, tenancy (Land), XIV, b 261; (Landlord and Tenant), b 273
PRECEDENCE, absurd artifice for obscuring merit, XIX, a 680-7
  academical, b 687
  colonies and dependencies, a b 687
  courtesy-titles, b 685
  disadvantages of, b 685-6
  government officials, a b 686
  growth of custom, b 680-2
  men, a 682-4
  records of College of Arms, b 681-2
  special tables, b 686-7
  women, a 684-5
—— (Ambassador), I, a 578; (Knighthood), XIV, b 122 note; (Peerage), XVIII, b 470, a 478; (Sergeant-at-Law), XXI, b 714
Precedent (Common Law), VI, a 186; (Constitution and Law), a 276; (Law), XIV, b 365; rule of (Reformation), XX, a b 333; rise of (Roman Law), b 716 note
Precentor (Cathedral), V, *a* b 199
Precepts of Jesus (Roy, R.), XXI, a 41
Precession and Nutation (Tides), XXIII, b 384-5
—— of the Equinoxes (Astronomy), II, a 655, a b 656, b 694-5; (Geology), X, a 193, b 196, *a* b 201
—— instruments (Gyroscope), XI, a 314
—— of a viscous spheroid (Tides), XXIII, b 401-2, a b 403
"Précieuses, Les," literary coterie (France), IX, a 578; (Rambouillet), XX, a 277
Précieuses Ridicules, comedy (Molière), XVI, b 649; (Rambouillet), XX, a 277
Preciosa, opera (Weber), XXIV, *a* 496
Precious metals (Finance), IX, a 161; (Value), XXIV, b 57. See GOLD, SILVER
—— stones (Europe), VIII, b 621; (Ural Mountains), XXIV, a 10. See GEMS and specific names
Precipitates, drugs (Mercury), XVI, a 38, *a* 39
—— of Mercury, drugs, XVI, a 38, *a* 39
Precipitation process (Gold), X, a b 668
—— of Sewage, XXI, a b 747
Préciput, le, legal privilege (Primogeniture), XIX, b 753, a 754
Précis des Evénements Militaires (Dumas, M.), VII, *a* 452
Precision Balance (Ill.), III, b 227-30
PREDESTINATION, XIX, a 688-91
  Augustine, a b 689
  Calvinism, a b 688, note b 690
  mediæval views of, b 689-90
  modern controversies, b 690-1
  nature of the problem, a b 691
  pagan forms of, a b 688
  Reformation views, a b 690
  scholasticism, a b 690
—— (Calvin), IV, b 635, b 637; (Gottschalk), X, a 760; (Hincmar), XI, a 747; (Suarez), XXII, a b 646; dynamic effects of (Pelagius), XVIII, b 483, a 484; Pauline docrine of, b 437
Predial Tithes, XXIII, a b 439
Predicables (Analytic Judgments), I, a 700
Predicate (Grammar), XI, b 38; quantified (De Morgan), VII, b 58; (Hamilton), XI, a b 375; paradox of (Zeno), XXIV, a 834
Predications, classes of (Aristotle), II, b 452-3
Predicting instrument (Tides) (Ill.), XXIII, a 390, a b 396
Prediction, graphical (Tides), XXIII, a b 394
Predictions of Astrologers, II, a b 649; (Zodiac), XXIV, a 834. See Augury, Auspices, Divination, Horoscope, Necromancy, Omen, Oracle, Prophecy, Soothsayers, Witchcraft
Predictive forms (Tides), XXIII, b 389-90
Pre-emption (Homestead), XII, b 125, a b 126; right (Sale), XXI, b 219
Pre-existence of Christ, John's doctrine of (Gospels), X, a 744
—— of souls (Kabbalah), XIII, b 821-2. See Metempsychosis, Transmigration
Preface, The (Wordsworth), XXIV, b 705-6, a 707, note, *a* 709, a 710 note
Prefect of congregation (Roman Catholic Church), XX, a 645
Prefects, officials (France), IX, b 450; Moslem (Mohammedanism), XVI, b 612, b 613; of Vico (Rome), XX, *a* 823. See PRÆFECT
Prefecture of Seine (Paris), XVIII, a b 283-4, b 287, a 289, a 290
Prefectures (Præfect), XIX, a 673; imperial (Rome), XX, *a* 796, notes; system of (Japan), XIII, a 589
Preference in Bankruptcy, United States, III, b 297
Préfet de Police, XIX, b 355
Preformation, doctrine (Embryology), VIII, a b 151
Pregel river (Germany), X, a 402, b 403, a 404, b 413; (Königsburg), XIV, *b* 139; (Prussia), XX, *b* 24
Preger, W., historian (Mysticism), XVII, b 139, b 142
Pregnancy (Dietetics), VII, b 178; (Hernia), XI, b 672; (Insanity), XIII, b 108-9, b 115; (Jury), b 795; (Medical Jurisprudence), XV, a b 789; detection of (Auscultation), III, a 88; diseases of (Pathology), XVIII, a 382, b 383, a 393, a 395, a 396, a b 400; syphilitic (Surgery), XXII, a 722. See Obstetrics
Prehistoric archæology (Anthropology), II, a 102-3, b 107-8; Cannibalism, IV, a 714; cookery (Baking), III, b 215; dwellings (Thera), XXIII, b 300
—— edifices (Architecture) (Ill.), II, b 335-6; (Marietta), XV, b 549; (Peru), XVIII, a b 690; (Polynesia), XIX, a b 442; (Rome) (Ill.), XX, b 829-31
—— Egypt, VII, b 633
—— England, VIII, b 195
—— Engraving, VIII, a 391
—— man (America), I, b 607; (Archæology), II, a *b* 294-6, a 299; (Cave), V, *b* 232, a 233, a b 234; (Mammoth), XV, a 455, note; (Mammoth Cave), b 455-6; (New York), XVII, b 465; (Palestine), XVIII, a b 178; (Russia), XXI, b 85-6
—— Pottery (Ill.), XIX, b 619-20, a 624, a b 626, a 633-5
Prehnite (Mineralogy) (Ill.), XVI, a 385, *b* 391, b 438, a 442
Prejevalsky, explorer. See Prjevalsky
PRELLER, Friedrich, painter, XIX, b 691
PRELLER, Ludwig, mythologist, XIX, b 691
Prelude (Wordsworth), XXIV, b 703, a b 704, notes, a 709, a 710 note
Prémare, Joseph Henri, missionary (Drama), VII, b 346

Premaxillæ, bones (Amphibia), I, b 661, a 662, b 664, a b 665, b 666, *a* b 667; of Birds and fishes, III, b 608, b 611; (Mammalia), XV, b 355
Premier, English. See Prime Minister
Premiums (Annuities), II, b 72; (Bottomry), IV, a b 153; aggregate of fire (Insurance), XIII, a 169, a 170, b 174–5; life (Insurance), b 175, b 177–9, a 180, a 183, a 186; rates of fire (Insurance), a 172–3
Premolar teeth (Digestive Organs), VII, b 202; (Mammalia), XV, b 355, *b* 356
Premonstratensians or order of Prémontré (Abbey), I, b 25; (Monachism), XVI, a 735, a 742
Prem Sāgar (Hindustani Literature), XI, *b* 758
Premysl Ottocar I., king (Bohemia), III, a 748
Preñadillas, fishes (Siluridæ), XXII, b 75
Prendergast, suburb (Haverfordwest), XI, b 470
——, Maurice (Ireland), XIII, b 264
Préneley, mountain (Nièvre), XVII, a 509
PRENTICE, George Denison, journalist, XIX, a 926
PRENZLAU or Prenzlow, town, XIX, b 691–2
Prepositions (A), I, a 10; (Grammar), XI, a 37; (Greece), XI, a 115; (Homer), XII, a 117; Latin (Priscian), XIX, b 764
"Prepotency of transmission" (Breeds), IV, a 221
Preradovic, Peter, poet (Servia), XXI, *a* 724
Pre-Raphaelite art (Overbeck), XVIII, b 80; Rossetti), XX, b 880–1; (Schools of Painting), XXI, b 461
PRERAU, town, XIX, a 692
PREROGATIVE, suppression of freedom, XIX, b 692-4
  courts, a 694
  ecclesiastical, a 694
  exercise of, b 692–3, a 694
  fiscal, a 694
  judicial, b 693–4
  personal, a 693
  political, a b 693
  royal, laws regulating, a b 692

—— (Bacon), III, a b 178, *b* 186; (Convocation), VI, a 289–30; (Government), XI, a b 12, note, b 13; (James I.), XIII, b 568 9; (Labor), XIV, b 167, note; (Pamphlets), XVIII, b 209; (Pardon), b 276 7; (Parliament), b 311, a 312, a 316; (Patents), b 359, b 360; (Sale), XXI, b 219; (Waste), XXIV, b 414; (Wreck), b 722, b 723
—— writs (Habeas Corpus), XI, a b 320
Presbyopia, disease (Ophthalmology), XVII, b 807; (Spectacles), XXII, a 387
PRESBYTER, XIX, a 694–6; (Episcopacy), VIII, b 430; meaning of term (Priest), XIX, b 743
PRESBYTERIANISM, XIX, a 696–721
  Bohemian Brethren, a 717
  Calvin's system, b 696–8
  church and state, Calvin on, a b 697
  ENGLAND, a 705–11
    Charles II., b 709–10
    Commonwealth, a b 709
    dissent, b 710–11
    early movements, a 705-6
    James I., a b 706
    Long Parliament, action of, a 708–9
    Stuart toleration, a b 710
    Puritan age, a 705–6
    Scotch influence on Puritanism, b 706–7
    Westminster Assembly, a 707–8
  FRANCE, b 712-5
    Court, Antoine, a 715
    early organization, b 712–3
    Empires, under the, a b 715
    officers and synods, a b 713
    persecution period, b 714–5
    political divisions, a b 714
    progress and Catholic resistance, b 713-5
  Genevan church polity, b 697–8
  Hungary, a 717
  Ireland, a 711–2
  Lasky, b 698–9
  Netherlands, b 715–6
  Poland, b 716–7
  Reformation theories, a 696
  Rhine provinces, b 716
  SCOTLAND, a 699–705
    Charles I., a b 702
    clerical rule, b 702–3
    Crown, struggles, a 701–2
    educational system, a 700
    Episcopacy restored, a b 703
    final establishment of the kirk, b 703–4
    James VI., b 702-3
    Melville and discipline, b 700–1
    nobles' struggle, a b 700
    organization of kirk, first, a 699-700
    schisms, b 704–5
  UNITED STATES, a 717–21
    authorities, b 721
    colonial period, a 717–9
    Cumberland presbytery, b 719
    New and Old Sides, a 718, b 719–20
    Philadelphia presbytery, old, b 717–8
    recent state, b 720–1
    revival period, b 719
    revolution to the civil war, a 719–20
    Ulster settlement, a b 711
    Waldenses, a 717
—— (Catechism), V, a 192; (Channel Islands), a 341; (Council), VI, b 454–5; (Elder), VII, *a* 719; (Edinburgh), b 577, b 578, a 579; (Eucharist), VIII, a b 574; (Hodge), XII, a b 43; (Hooker), b 155; (Independents), a 761, a b 765, a 766; (Ireland), XIII, b 245, a 247, b 272, a 273, b 275; (James I., England), *a* 568; (Liturgy), XIV, b 717–8; (Milton), XVI, b 342; (Monk), a b 779; (Owen), XVIII, a b 89; (Penance), a 499; (United Presbyterian Church), XXIII, a 775–6; (Whig and Tory), XXIV, *a* 570; (Whitelocke), b 583, a 584; German, XIX, b 718, a 719, b 720; Lindsay's view of primitive in United States, XIX, a 717–21; XXIII, b 884; (Christianity), V, *b* 608
——, Scotch, XIX, a 699–705; (Gillespie), X, a 535; (Henderson), XI, a b 581; (Knox), XIV, a b 89; (Methodism), XVI, b 195; (Montrose), a b 822; (Scotland), XXI, a 529, *b* 530–1, a 560, a 562–5; re-established (Scotland), a 540, *b* 541, b 542
——, Welsh (Methodism), XVI, a 202
Presbyterian reunion in America (Smith, H. B.), XXII, b 911. See specific titles of various branches
Presbyteries, organization of English (Presbyterianism), XIX, *b* 708
Presbytery (Architecture), II, a 403, b 414
—— of Relief (Gillespie, T.), X, a 535
——, Scotch (Presbyterianism), XIX, *a* 701
Preschel of Vienna (Matches), XV, a 632
PRESCOT, town, XIX, a 721
Prescott, Canada, town (St. Lawrence), XXI, *a* 190
PRESCOTT, Oliver, general, XIX, a 926
PRESCOTT, William, soldier, XIX, a 926
PRESCOTT, William Hickling, historian, XIX, a 721–3; (American Literature), I, a 635; (Architecture), II, b 394; (Gonzalo Fernandez y Aguilar), X, a b 688; (Isabella the Catholic), XIII, b 385; (Mexico), XVI, b 215, note; (Ticknor), XXIII, *b* 374, a 375
PRESCRIPTION, law-term, XIX, b 723–6
  custom distinguished, a 725
  England, a 724–5
  international law, b 725
  Roman law, b 723–4
  Scotland, b 725–6
    negative, a 726
    positive, b 725–6
    shorter, a b 726
  United States, a b 725

—— (Brehon Law), IV, b 227, a 228; (Nuisance), XVII, *a* 628
Preseley, mountains (Pembroke), XVIII, a 492
Presentation, by differences (Psychology), XX, a 54–5; intensity of (Psychology), a 47, a b 52, a 55, b 58–9, b 62–3, a 66; theory of (Psychology), b 49 54
——, feast of (Mary), XV, b 598
Presentations, conflict of (Psychology), XX, a b 67
Presentive words (Grammar), XI, a 36
Presern, Francis, poet (Slavs), XXII, b 159
PRESERVED FOOD, XIX, b 726–8
  air exclusion, b 727–8
  antiseptics, a b 727
  commerce, b 728
  drying, b 726–7
  refrigeration, a b 728

Preserves, fruit (Jams and Jellies), XIII, b 573–4
——, optical (Spectacles), XXII, b 386
Presidencies of India (Calcutta), IV, a 583
President, French (Government), XI, a 14
—— of United States, XXIII, *b* 797, a *b* 798, b 800, b 806, b 832, *b* 833; (Calhoun), IV, b 606; (Government), XI, b 13–4; list (United States), XXIII, a 836; succession, law of (United States), b 797, note, a 798
Presiding elders (Methodism), XVI, a 200
Presidios (Prison Discipline), XIX, b 782
Presl, Jan Svatopluk, naturalist (Slavs), XXII, a 163
Presova, town (Eperies), VIII, b 406
Presqu' Isle, fort (United States), XXIII, *b* 782
Press, hydraulic (Mechanics), XV, b 761
——, printing (American Journalism), XVII, a b 883; (Lithography), XIV, a b 706; (Typography) (Ill.), XXIII, b 750 5
Presse, La (Newspapers), XVII, a 437, *a* 438
Pressblei, metal (Lead), XIV, b 375
Press-box (Gunpowder) (Ill.), XI, a 291
PRESSBURG, city, XIX, b 728–9; (Libraries), XIV, b 549
—— Basin (Hungary), XII, a 376
Pressed glass (Glass), X, b 591–2; (Patents), XVIII, b 882–3
Presser, Land- (Agriculture) (Ill.), I, a 285
Pressers, extracting (Oils), XVII, a 762, a 763
PRESS LAWS, XIX, a 729–33
  colonies and India, b 731
  existing restrictions, a 730-1
  foreign laws, b 731–3
  France, a b 732
  Germany, b 732
  growth of freedom of press, a 729 30
  Italy, b 732-3
  Russia, a b 733
  Scotland and Ireland, a 731
  United States, a b 731

Press Laws (Almon), I, a 523; (Contempt of Court), VI, a b 283; (England), VIII, b 315; (Japan), XIII, b 589, a 598; (Milton), XVI, a b 372; (Pamphlets), XVIII, b 208, a 209; French (Newspapers), XVII, b 437, a b 438–9; German (Newspapers), b 439; Indian (Newspapers), b 443–4; Italian (Newspapers), b 442
—— prosecutions (Broughton, Lord), IV, b 343; (Newspapers), XVII, a 426, a b 427, a 428, a 436; (Political Economy), XIX, a 396
Pressure (Mechanics), XV, b 755, *b* 775, b 776
——, Atmospheric, III, a 26–9; (Pneumatics), XIX, a b 252, a 253, b 254–5, b 261. See Barometer; aqueous vapor, table of (Evaporation), VIII, a 641; of cord on surface (Mechanics), XV, a 749; deep sea (Ichthyology), XII, b 721; distribution of (Mechanics), XV, a b 737; Hydraulic (Hydromechanics), XII, b 539–49; hydrostatic (Hydromechanics), a b 455, a 456–61; hypogene (Geology), X, b 231, a 232–3, a 234; line of (Mechanics), XV, b 759; of Molecules, XVI, b 635; negative (Elasticity), VII, a 692; powder (Gunmaking), XI, b 259, 260; (Gunnery), b 266; (Gunpowder), b 288; relation to volume in compound cylinders (Steam-Engine), XXII, b 514, b 515; steam under constant (Steam-Engine), a 502, a 503; thermodynamic, XXIII, *b* 307; (Radiation), XX, b 223
—— gauge (Manometer) (Ill.), XV, a 502
—— Log (Ill.) XIV, b 777–8
—— temperature tables (Elasticity), VII, b 706, a 707
Press telegrams, recorders for (Telegraph), XXIII, a b 129
Press-work (Typography), XXIII, b 750–5, b 756
Prest, Godfred, goldsmith (Sculpture), XXI, a 586
PRESTER JOHN, myth, XIX, a 734–7
  Abyssinian identifications, b 736–7
  bibliography, b 737
  Caucasian theory, a 736
  causes of the legend, a 734
  central Asian identifications, a b 736
  documentary accounts, a 734–5
  Gabala tradition, a b 734, b 735
  Georgian and Nestorian heroes, a 736
  Gur Khan, b 735–6
  letter to emperor Manuel, b 734–5
  literature, b 737
  Pope Alexander III.'s letter, a b 735
—— (Gama), X, b 52; (Mongols), XVI, b 771
Presternum, bone (Mammalia), XV, a 361
Prestidigitation (Legerdemain), XIV, a 415–16
Prestin's Inn (Inns of Court), XIII, a 97
PRESTON, town, plan, XIX, b 737–8; (Libraries), XIV, b 520–1, a 546; battle of, 1648 (Cromwell), VI, b 530; (Milton,), XVI, a 344; (Walton), XXIV, a 362
PRESTON, Ann, physician, XIX, a b 926
PRESTON, William Campbell, orator, XIX, b 926
PRESTON, William Ballard, statesman, XIX, b 926
Prestonpans, town (Haddington), XI, *b* 323; battles, 1650 and 1745, XI, a 324; (Hamilton, W.), b 376
PRESTWICH, town, XIX, b 738
——, Joseph, geologist (Geology), X, b 191 note, b 199 note
Presumption (Evidence), VIII, b 650–1
Preswick, village (Ayr), III, a 143; club (Golf), X, a 682
Pretender, The. See Charles Edward and James the Pretender
Pretension, arms of (Heraldry), XI, a 614
Preti, Matteo, artist (Malta), XV, a 343
Pretoria, town and district (Transvaal), XXIII, b 550, a b 551; (Newspapers), XVII, a 444
Pretorium. See Prætorium
Pretorius, Andries, boer (Cape Colony), V, a 41; (Transvaal), XXIII, b 551
——, Marthinus Wessels, president (Transvaal), XXIII, b 551, *a* 552
Pretrea zanzibarica, species (Botany), IV, b 134
Pretyman, afterwards Tomline, George, bishop (Pitt), XIX, a 144, note, a 145, a 158
Prevertebral, cardiac plexus (Anatomy), I, a 776
PREVESA, town, XIX, b 738; (Ali Pasha), I, b 505; (Nicopolis), XVII, a 504
Prevost, Louis Constant, geologist (Geology), X, b 220
PRÉVOST, Pierre, scientist, XIX, b 738–9; (Radiation), XX, a b 220–1, b 222
PRÉVOST D'EXILLES, Antoine François, abbé, XIX, a b 739; (Ant), II, b 85–6; (Thou), XXIII, b 336
PRÉVOST-PARADOL, Lucien Anatole, journalist, XIX, b 739–40
Prévôt des marchands (Paris), XVIII, a 294, a b 295, a 297, b 298
Prezygopophysis (Ape), II, a 140, a 141
Priam, king (Troad), XXIII, b 615, a 620; his palace (Troad), a 619; his treasure (Plate), XIX, b 190
Priansus, city (Numismatics), XVII, a 661
Priapea, poems (Tibullus), XXIII, b 371, a 373
PRIAPUS, god, XIX, a b 740; (Lampsacus), XIV, b 250
PRIBRAM or Przibram, town, XIX, b 740
Pribyloff Islands (Birds), III, a 653; (Seal), XXI, a *b* 610, note
Price, J. E., on London, XIV, b 851
PRICE, Richard, philosopher, XIX, b 740–2; (Ethics), VIII, a b 531, note, a 536; (Hutcheson), XII, a 427; (Rogers), XX, *b* 636
Prices (Finance), IX, a 156; (Free Trade), b 663, b 664, a b 665; (Money), XVI, a b 747; (Statistics), XXII, b 482, *a* b 483; (Value), XXIV, b 52–3, *a b* 54; (Wages), b 329
——, Cairnes on (Political Economy), XIX, b 394–5; market (Political Economy), a 395; rent and (Political Economy), b 387; rise of (Political Economy), a 369; Smith on (Political Economy), a *b* 380; speculative oil (United States), XXIII, b 865; tariff effect on (Protection), XIX, b 932
Prices, History of, Tooke (Finance), IX, b 164, a 166; (Money), XVI, b 762
Price's, James, durability test machine (Iron), XIII, b 364
—— process (Glycerin), X, a 623
—— reheating furnace (Iron), XIII, a 340
PRICHARD, James Cowles, ethnologist, XIX, b 742–3; (Anthropology), II, a b 95, b 97, a 101; (Archæology), a 292; (Gaelic), X, b 7
"Pricking out" (Horticulture), XII, b 245
Prickles (Botany) (Ill.), IV, a 80; (Histology), XII, a 20
Prickly pear (Cactus), IV, b 555, b 556; (Horticulture), XII, a 275; (United States), XXIII, b 862
Prickwood (Dogwood), VII, a 297
Pride, fish (Lamprey), XIV, a 250
PRIDE, Thomas, soldier, XIX, a 743
Prideaux, Edmund, postmaster (Post-Office), XIX, b 579
PRIDEAUX, Humphrey, historian, XIX, a b 743
"Pride of India," tree (Pepper-Tree), XVIII, a 530
Pride's Purge (Pride), XIX, a 743
Pridhimám Sáh, chief (Garhwal), X, b 73
Prieger, physician (Kreuznach), XIV, a 149
Priessnitz, Vincenz, hydropathist (Baths), III, a 379; (Hydropathy), XII, *a* b 575, a 577
PRIEST, XIX, b 743–9
  Arab and Canaanite forms, a 746–7
  Christian church, a b 749
  Greece and Rome, a b 744
  Hebrew form, b 746–9
  high priest, aggrandizement of, b 748–9
  Oriental forms, a b 745
  origins of the office, a 744–5
PRIEST, *continued*
  post-exile Jewish, a 748–9
  pre-exile Jewish, b 746–7
  sanctuaries, rise of Hebrew, a b 747
  Semitic forms, b 745–9
  term, history of the, b 743–4
  Zoroastrian forms, b 745
——. See Priests
Priestcraft, Popular History of (Howitt), XII, b 338
PRIESTLEY, Joseph, philosopher, XIX, b 749–52
  Birmingham to America, a b 751
  parentage and education, b 749–50
  Shelburne connection, a 751
  Suffolk and Nantwich life, b 750
  theological training, a 750
  Warrington and Leeds, b 750–1
  works of, b 751–2
—— (Birmingham), III, b 679, a 680, a 681, *b* 682; (Chemistry), V, b 399, a b 400, *b* 401, *a* 402, a 404, *b* 415; (English Literature), VIII, b 384, a 385; (Evolution), b 665; (Horsley, S.), XII, a b 213; (India-Rubber), a 876; (Mercury), XVI, a 38; (Price), XIX, a b 741; (Protozoa), a 881; (Unitarianism), XXIII, *b* 773; (Zoology), XXIV, a 855
Priestly Code (Israel), XIII, b 428, a 429, note; (Pentateuch), XVIII, a b 517, a b 518, b 520–1, b 523–4; (Tabernacle), XXIII, b 9; (Tithes), b 438; contrasted with the Jehovist (Pentateuch), XVIII, b 522–3; date of (Pentateuch), b 518–22, a b 524
Priests (Burmah), IV, b 494; (Concubinage), VI, a b 217; (Egypt), VII, b 618, b 638, a 641, *a* 643
——, absolution of (Luther), XV, a 74; ancient Roman, XIX, a b 744; (Curia), VI, b 627; Aryan primitive (India), XII, b 820; Aztec (Mexico), XVI, a 218, b 219, a b 220; Brahman, IV, *b* 183–4, *a* b 185, a 186, a 187, b 189, a 190; (Caste), V, a b 165, notes, a b 166; (India), XII, b 821–3; classes of (Sanskrit), XXI, b 286; Comtean System, VI, b 211; English (Roman Catholic Church), XX, b 647; functions of (Roman Catholic Church), a 646
——, Hebrew, XIX, b 746–9; (Aaron), I, a 11; (Bible), III, a 548; (Ezekiel), VIII, b 726; (Genealogy), X, a 128; (Haggai), XI, a b 331; (Israel), XIII, b 408, b 409; b 419, a 423, a 426, a 428, a 429; (Levites), XIV, b 487–9; (Pentateuch), XVIII, b 520–1; (Proverbs), XIX, a b 906; growth of service

Priests, *continued*
(Temple), XXIII, b 183; partaking with the altar (Sacrifice), XXI, *a* b 142, a 145; support of (Tithes), XXIII, b 438
——, Mohammedan (Ispahán), XIII, b 404, b 405; Parsee, XVIII, b 332, a 333; Persian, b 578, b 579; Peruvian, b 689, a 691; Zoroastrian, XIX, b 745; XXIV, b 862 3
—— of the Mission, congregation of (Lazarists), XIV, a b 374
Prieta, Peña (Spain), XXII, a 308
Prieto, president (Chili), V, b 537
Prieur, Barthélemy, sculptor (Sculpture), XXI, b 589
Prignani, Bartolommeo. See Pope URBAN VI.
PRIM, Juan, Marquis de los Costillejos, statesman, XIX. a b 752
Primacy (Popedom), XIX, b 503. a b 506, a 507, b 508, b 517
Primaleon y Polendos (Romance), XX, a *b* 673, a 674
Primary Number, XVII, a 637
PRIMATE, title, XIX, b 752; (Armagh), II, a 479; (Bishop), III, a 684; (Episcopacy), VIII, a 433
Primates, order (Anthropology), II, a b 96; (Ape), *a* 130, b 147; (Lemur), XIV, b 440, note, a b 445; (Mammalia), XV, a 410; (Morphology), XVI, b 872; anatomy of (Mammalia), XV, b 356, b 357; brain of (Mammalia), b 369; (Physiology), XIX, a *b* 38; classification (Mammalia), XV, b 375
Primato Morale e Civile degli Italiani (Italy), XIII, b 497
Prime, game at cards (Poker), XIX, b 294
Prime factors (Numbers), XVII, *a b* 630, *a b* 631, b 632, b 636–7
Prime minister (Cabinet), IV, a b 551; (England), VIII, a 318; (Government), XI, *b* 13; (Ministry), XVI, a b 495, b 496; list (England), VIII, a b 330
Prime movers, theory of (Mechanics), XV, b 782–4
Prime numbers (Arithmetic), II, a 464; (Tables), XXIII, a b 11, a 12
Primer, Henry VIII.'s (Hymns), XII, b 623
Primer, sizes of type (Typography), XXIII, a 743
Prime residues to modulus (Numbers), XVII, b 631
—— roots (Numbers), XVII, b 632, a b 633
Primer seisin, feudal burden (Seisin), XXI, b 657
Primes, reciprocals of (Tables), XXIII, a 18
Primeval Being (Neoplatonism), XVII, a 345
Primicerius notariorum (Rome), XX, a 803
Priming (Mechanics), XV, b 694; (Steam-Engine), XXII b 509
Primitive culture (Animism), II, a 50
Primitive Culture (Mythology), XVII, b 165
—— forms (Numbers), XVII, a b 635
—— Friends (Quakers in United States), XX, b 893
—— Government, XI, a 11
—— language (Semitic Languages), XXI, b 673–4
—— man, type of (Veddahs), XXIV, b 131
Primitive Marriage (M'Lennan), XV, b 163
Primitive Methodism, XVI, b 200; Wesleyans (Methodism), a 199
Primnoa, genus (Corals), VI, b 338, a 340, a 342
PRIMOGENITURE, XIX, b 752–6
  Aryan origin of, a b 755
  Continental customs, b 753–5
  English rules, b 752–3
  feudal succession, a b 756
  heirlooms or principals, a b 753
  Irish customs, b 754–5
  modes of altering tenures, b 754–5
  royal succession, b 755–6
—— (England), VIII, a 269; (Free Trade), IX, b 669; (Inheritance), XIII, a b 84; (Prussia), XX, b 8; (Russia), XXI, a 110; (Saxony), a 372
Primordial zone, fossiliferous (Geology), X, b 291, a 293
Primorskaya. See MARITIME PROVINCE
PRIMROSE, plant, XIX, b 756–7. (Botany) (Ill.), IV, a 79, a 81, a 85, b 103, b 108, a 123, a 126, a 131, b 139; (Horticulture), XII, b 219, a 259, a *b* 267; Chinese (Horticulture), a b 273; evening (Horticulture), a 259. See Primula
—— Hill (London), XIV, b 827, b 833
Primula, plant (Botany), IV, *b* 120, a b 122, b 130, a 131; (Horticulture), XII, a 221, b 259, a b 261, a b 267, a b 273; (Insectivorous Plants), XIII, a 144; (Primrose), XIX, b 756, *a* 757
Primulaceæ, family (Botany), IV, *a* 115, b 117, *a* 130, b 131, b 133, a 142
Primula japonica, plant (Horticulture), XII, a 219
PRINCE, title, XIX, a 757–8; (Titles of Honor), XXIII, a 446
Prince Arthur's Landing, town (Ontario), XVII, b 796
Prince Charles's Foreland, island (Spitzbergen), XXII, a 423
PRINCE EDWARD ISLAND, XIX, b 758–60
  climate and vegetation, b 759
  geology, a b 759
  history, b 760
  industrial features, b 759–60
  physical features, b 758–9
  population and political order, a b 760
—— (Canada), IV, 680–1, 689
"Prince of the Captivity" (Saadia), XXI, b 129
"Prince of the Peace." See GODOY
"Prince of True Believers" (Mohammedanism), XVI, b 591
Prince of Wales (Precedence), XIX, a 682, note; (State, Great Officers of), XXII, a 476
PRINCE OF WALES ISLAND or Penang, XIX, b 760–1
——, Australasia, XIX, b 760 note
PRINCE OF WALES LAND, XIX, a 761
Princeps, title (Prince), XIX, a b 757; (Rome), XX, b 787, note, a 788; Senatus (Augustus), III, b 70
Princes, extravagance of (Germany), X, a 450; pauperism of (Germany), b 419; treachery of (Germany), a 453, b 456
Princes du sang, title (Prince), XIX, b 757, a b 758
PRINCE'S ISLANDS, XIX, a b 761
Princes légitimés, title (Prince), XIX, a b 758
Princes of the Empire (Diet), VII, b 173
Princesse Marianne Straits (New Guinea), XVII, b 397
PRINCETON, New Jersey, XIX, b 761–2; battle of, 1777 (United States), XXIII, b 791
—— College, XIX, b 761–2; (Hodge), XII, a b 43; (Libraries), XIV, b 553; (Newark), XVII, b 380; (Observatory), a 736; (Presbyterianism), XIX, a 718; (Princeton), b 761; (Smith), XXII, *b* 912; (Universities), XXIII, a b 955, *a* 961; (Witherspoon), XXIV, a 907; Evelyn College at (Women), b 911
Princeton Review (Hodge), XII, a b 43
Princetown (Prince Edward Island), XIX, a 760
Principal and Agent, I, a 250–a 251
Principalis, genus (Weaver-Bird), XXIV, b 489
Principalities (Prince), XIX, a 758, note; division of (Germany), X, a 440, a 442, a b 450
Principal Navigations, Voyages, Traffiques and Discoveries of the English Nation (Hakluyt), XI, b 338
Principals (Criminal Law), VI, a 521
Principal stop (Organ), XVII, b 854, a 855, *b* 856, b 857
Principe, treatise (Italy), XIII, a 519; (Machiavelli), XV, b 147, a 148, *a* b 150, a *b* 151, b 152, a 153
Principe, island (St. Thomas), XXI, b 210
Principes, troops (Army), II, *b* 492, note
Principia of Hobbes, XII, b 40
Principia of Newton (Halley), XI, a 355; (Hydromechanics), XII, b 452; (Mechanics), XV, a 757; (Newton), XVII, a 454–6, *a* b 459; (Tides), XXIII, b 377
Principii d'una Scienza Nuova (Vico), XXIV, b 228, a *b* 229–30
Principiis, De sex (Scholasticism), XXI, a 442
Principle of sufficient reason (Mechanics), XV, a 757
Principle of Sufficient Reason (Schopenhauer), XXI, b 470–1
Principles of Geology (Lyell), XV, a b 102, note
—— *of Philosophy* (Descartes), VII, a 103, a 104, a 107
—— *of Political Economy*, Mill's, XIX, b 392, a 393
—— *of Political Economy and Taxation*, Ricardo's, XIX, a 387–9
—— *of Social Science*, Carey's (Political Economy), XIX, a 398
Prindsens Palais (Copenhagen), VI, a b 305
Prineide, La (Grossi), XI, b 188–9
Pring, Martin, navigator (New Hampshire), XVII, a 403
PRINGLE, Sir John, physician, XIX, a 762; (Medicine), XV, b 824
Pringlea, plant (Kerguelen's Land), XIV, a 51
Pringsheim, Nathaniel, botanist (Horticulture), XII, b 216, a 217
Prinkipo or Kyzyl-Ada island (Prince's Island), XIX, a *b* 761
Prinsep, James, orientalist (Inscriptions), XIII, a *b* 124, a 125, *a* b 126
Prinsep's alloys, fusing point of (Pyrometer), XX, a b 138
Printed Bibles, III, a 560–1
—— hangings (Mural Decorations) (Ill.), XVII, b 44–5
Printers, early (Manutius), XV, a 520–1; devices of (Bibliography), III, b 565; names for (Typography), XXIII, a 724
Printers' errors (Typography), XXIII, a 747; specimen exchange (Typography), a 756
Printing, rise of (Bibliography), III, b 564–6; (Caxton), V, a 243; (China), b 575; (Denmark), VII, a 79; (Didot), a 170; (Dunbar), a 460; (English Literature), VIII, b 368–9; (Fano), IX, b 26; (Florence), b 293; (Foulis), a 423; (Froben, J.), b 694; (Fust, J.), a b 750; (Geneva), X, a 133; (Gutenberg), XI, b 300; (Haarlem), b 317, a 318; (Hindustani Literature), a 759; (Holland), XII, a 76; (Iceland), b 662; (Ivan IV.), XIII, a b 529; (Japan), b 596, a 598; (Libraries), XIV, a 529; (Lithography), a 706–7; (Manutius), XV, a 520–1; (Norway), XVII, a 604; (Oxford), XVIII, b 99; (Paris), b 296, a 297; (Photography), a 843–6; (Pilsen), XIX, a 106; (Poland), b 311; (Roumania), XXI, b 22, a 23;

Printing, *continued*
  (Russia), b 112; (St. Albans), b 164; (Schongauer), a 450 note; (Scotland), b 519; (Scutari), b 600; (Sorbonne), XXII, b 282; (Tamils), XXIII, a 49; (Tahiti), b 29; (Turkey), a 699; (Valencia), XXIV, b 39 note
— in America, early (Typography), XXIII, b 729, note; bibliography of (Typography), a 739, b 741, b 757; defined (Typography), b 741-2; early, cost of (Manutius), XV, b 520; establishment (Typography), XXIII, a 757; invention of, b 730-6; old style, b 756-7; practical, b 741-7; speed in, b 751-2, b 753-4, a 756; in two colors, a 755; without type, a 749
— Club (Abbotsford Club), I, a 31
— ink (Ivory), XIII, b 534; (Linseed), XIV, a 684. See Ink
—, Map, XV, a 527; (Surveying), XXII, b 751-4
— -paper, sizes of (Paper), XVIII, b 230-1
— -presses. See Presses
— recorders (Telegraph) (Ill.), XXIII, b 129-30
Prinz, title (Prince), XIX, b 758
Priodon, genus (Mammalia), XV, a b 390
Prion, mountains (Cos), VI, a 393
Prionites, genus (Motmots), XVII, a 9 note
Prioniturus, genus (Birds), III, a 662
Prionoteles, genus (Birds), III, b 650
Prionus giganteus, beetle (Coleoptera), VI, a 121
Prior (Abbey), I, a 17; (Abbot), a 28-9
—, Sir James, physician (Goldsmith), X, b 680
PRIOR, Matthew, poet, XIX, a 762-3
—, Thomas, philanthropist (Ireland), XIII, b 234, b 239, b 248
Prior Analytics, Aristotle's, II, a b 453; (Metaphysic), XVI, a 101
"Prioress" (Horse), XII, a 207
Priority in competition (Protection), XIX, a 933
Priory (Bari), III, b 323; (Birkenhead), *a* 676; (Bridlington), IV, *b* 309; (Canterbury), V, b 27; (Capgrave), a 50; (Chamouni), V, a 334; (Christ Church), b 597; (Dove), VII, b 329, a 330; (Dunstable), b 471; (Gower), XI, *a* 20; (Guisborough), b 235; (Hexham), a b 700; (Hounslow), XII, b 330; (Kinross), XIV, a b 94; Wenlock, XXIV, a 529; (Shropshire), XXI, b 887. See Abbey, Monastery
Pripet, river (Minsk), XVI, a b 501; (Russia), XXI, a 80 a 81, a 82
Pripris, swamps (Guiana), XI, a 225
Prisca, prophetess (Montanism), XVI, b 801, a 802, a 803
Prisca version (Canon Law), V, a 16
PRISCIAN, Cæsanensis, grammarian, XIX, a 763-5
  biography, a b 763
  Institutiones, character of, b 763-4
  phonetics of, a 764
  parts of speech, a 764-5
  syntax, a b 765
  weights, measures and metres, b 765
— (Grammar), XI, a 39
PRISCILLIANISTS, sect, XIX, b 765-6; (Martin, St.), XV, b 588; (Severus), XXI, b 735
Priscus, historian (Huns), XII, *a* 397, a 398
Prisdra, town. See PRISREND
PRISHTINA or Pristina, town, XIX, a b 766
Prism and prisms (Light) (Ill.), XIV, a 596-7, a 617-8; (Lighthouse) (Ill.), b 624-5, a b 626, a b 627, b 628-9; (Mineralogy) (Ill.), XVI, b 359-60, b 370, a 371, a 372, a 373-4; (Optics), XVII, b 823-6; (Spectacles), XXII, b 386; (Spectroscope), *b* 387
—, binocular (Microscope), XVI, a b 284, b 285; lava (Geology), X, a b 222, b 230; oblique (Mensuration), XVI. a 27; optical power of (Wave Theory), XXIV, a b 460; polarized light of (Wave Theory), a b 470; polarizing (Nicol), XVII, a b 502; reversing (Micrometer) (Ill.), XVI, b 265; right (Mensuration), a 27; Rochon's (Micrometer), a 262; spectrum (Wave Theory), XXIV, a 446, a b 450; torsion of (Elasticity) (Ill.), VII, b 702, a 703, a b 704, a 705; triangular (Mensuration), XVI, b 28; volume of (Geometry), X, a *b* 345-6
Prismatic balance (Watch), XXIV, b 417
— compass (Surveying), XXII, b 755
— *Decomposition of Light* (Wheatstone), XXIV, b 568
— powder (Gunpowder) (Ill.), XI, *a* b 294
— reflection theodilites (Surveying), XXII, b 757
Prismatoid (Mensuration), XVI, a 28
"Prismoidal formula" (Mensuration), XVI, a 32
Prison Acts, 1865, 1877, British (Government), XI, a 20; (Prison Discipline), XIX, *b* 773, b 776
— congresses (Wines), XXIV, b 897
PRISON DISCIPLINE, XIX, b 766-84
  American colonies, deportation to, a b 767
  Australian penal colonies, b 769-71
  Belgium, b 777-8
  Bentham plan, a 768
  Brazil, b 778
  British colonies and India, a b 777
PRISON DISCIPLINE, *continued*
  Crofton or Irish plan, a 774
  Denmark, b 778
  deportation, origin of, a b 767
  early views of detention jails, b 766-7
  existing English system, b 774-7
  expense, English, b 776-7
  female and juvenile convicts, a b 776
  financial statistics, b 776-7
  France, b 778-9
  Germany. b 779-80
  Grey's scheme, b 771-2
  Italy, b 780
  mark system, introduction of, a 774
  Mexico, b 780-1
  Millbank system, a b 768
  Netherlands, a 781
  Norway, a 781
  obstacles to reform, a 769, a b 773
  penal colonies, English, b 769-71
  penal servitude, b 773-4, a b 775
  penitentiaries, origin of, English, b 767-8
  Portugal, a b 781
  Prison Discipline Society, a 769
  Quaker agitation, b 768-9
  Russia, b 781-2
  Spain, b 782
  Sweden, b 782-3
  Switzerland, a 783
  ticket-of-leave system, b 775-6
  uniformity, b 776
  United States, influence of, a b 772
    system of, a 783-4
  Van Diemen's land, a b 771
— (Court Martial), VI, b 460; (England), VIII, a b 227; (Howard), XII, a b 334-5; in United States (Reformatories), XX, b 901-4. See Jails, Penitentiaries, Prisons, Reformatories
Prisoners' aid societies (Fliedner), IX, a 268; (Prison Discipline), XIX, a 776, b 777, b 778, *a* b 780, *a* 781, *a* 783; in United States (Reformatories), XX, b 903
Prisons (Auburn), III, a 59; (Barracks), a 338; (Bastile), b 371-2; (Belgium), b 451-2; (Devonshire), VII, a 122; (Dietetics), b 183, *b* 184-5; (Edinburgh), b 578; (Fliedner), IX, a 268; (France), a 452; (Fry), b 706, a 707; (Howard), XII, b 333-4; (India), a 813; (Italy), XIII, a b 473; (London), XIV, a 844, b 862; (Nepāl), XVII, b 352; (Paris), XVIII, a 289; (Venice), XXIV, a 166; (Ventilation), a 171. See specific names of great prisons
—, military, British (Army), II, a 514; (Court Martial), VI, b 460; radiating (Santander), XXI, b 312
Prisons, State of, in England and Wales (Howard), XII, b 333, b 334, a 335
PRISREND, Prisdren or Prisdra, town, XIX, a 784; (Albania), I, b 396-7
Prisse Roll (Papyrus), XVIII, a 236
Pristidæ, family (Ichthyology), XII, a 716, a 724
Pristina, town. See PRISHTINA
Pristiophoridæ, family (Ichthyology), XII, a 716, a 724
Pristis, genus (Ray) (Ill.), XX, b 311-2
Prisylnie prison (Prison Discipline), XIX, a 782
Pritchard, Charles, astronomer (Photometry), XVIII, a b 856 note. See List of Contributors
Pritchard affair (France), IX, a 547
Prithivi Rájá (Delhi), VII, a 43
Prithwīrāj, king (Hindustani Literature), XI, a *b* 753
Prithwīrāj Rāsau (Hindustani Literature), XI, a b 753
Pritter, village (Wollin), XXIV, b 667
Privados, poets (Portugal), XIX, *b* 570
Private Acts (Act of Parliament), I, a 114; (Government), XI, b 20; (Statute), XXII, a 486
Private Devotions, Collection of (Cousin), VI, a 394
PRIVATEER, XIX, a b 784
Privateering (Dampier), VI, a b 701; (Drake), VII, a b 337; (Finance), IX, a 157; (Hawthorne), XI, *b* 479; (International Law), XIII, a 197, a b 200; (Jefferson), b 626; (Liverpool), XIV, b 723; (St. Malo), XXI, a 196; English Confederate (United States), XXIII, b 826. See Marque, letters of
Private rights, supremacy of (Land), XIV, b 266-7
— vengeance, regal period (Roman Law), XX, b 692-3, b 695; XII. Tables (Roman Law), a 698, b 702, a b 703
Private warfare (Nobility), XVII, b 542
Privernum, town (Rome), XX, b 760
PRIVET, XIX, b 784; (Botany), IV, b 106, a 113; Egyptian (Henna), XI, b 583
— -hawk, moth (Butterflies), IV, b 528
PRIVILEGE, law-term, XIX, 784-5; (Arrest), II, b 550; Writ of, XXIV, a 731
Privileged classes (Nobility), XVII, a b 539, b 541, a 542; evidence (Witness), XXIV, a b 658
Privilege of Parliament, XVIII, b 316, a b 317, b 318; (Charles I.), V, b 352
— of Union (Spain), XXII, *b* 337, a 338
Privilegio General of Aragon (Pedro III.), XVIII, a 461

PRIVY COUNCIL, XIX, a 785-6; (Appeal), II, *a* 183; (Brougham), IV, a b 342; (Cabinet), b 549, *a* 550, a 551; (Canada), a b 689; (Court), VI, b 459; (England), VIII, a 268; (Judicature), XIII, a 775; (Ministry), XVI, a 494; (Saxony), XXI, b 370, a 371; (Star Chamber), XXII, b 473, *a* 474; (Trade), XXIII, a 529; judicial committee of (England), VIII, a 237; reform of (Temple), XXIII, a 188
—— earth (Agriculture), I, a 311
—— -purse, keeper of (Royal Household), XXI, b 43
—— -seal (Ministry), XVI, b 495
Prix de Rome (Paris), XVIII, b 286
Priyadarsikâ (Sanskrit), XXI, b 299
Prize money, XIX, a b 787; (Navy), XVII, a 307
PRIZE of war, XIX, a 786-7; (Admiral), I, b 143, b 145, *a* b 146, a 147; (Blockade), III, a 726; (International Law), XIII, *b* 201-2; (Privateer), XIX, a 784
Prizes, Greek (Games), X, b 58-9
Prjevalsky, Nicholas, explorer (Tibet), XXIII, a 360, *a* 363, a 364; (Turkestan), a 673 note, b 675, b 678, b 679, b 681
Proatlas, bone (Reptiles), XX, a 460
Probabiliorists (Liguori), XIV, b 642
Probabilism, system (Casuistry), V, b 177; (Ethics), VIII, a 524; (Jesuits), XIII, b 657, a b 661; (Liguori), XIV, b 642-3, a 646
PROBABILITY, XIX, a 788-809
  compound events from known simple events, 790-3
  expectation, b 795-7
  explanatory observations, a 788-9
  future events deduced from experience, a 793-5
  history of theory, b 789, b 790
  literature, b 809
  local probabilities, b 804-9
  mean values and theory of errors, b 800-4
  sources of error, b 789-90
  testimony, b 797-800
——(Algebra), I, a b 494; (Annuities), II, b 68, a 69, 78; (Arbuthnot), b 284; (Backgammon), III, a 172; (Butler), IV, a 520-1; (Condorcet), VI, a 226; (De Morgan), VII, *a* 58; (Insurance), XIII, a 178; (Laplace), XIV, a *b* 304; (Pascal), XVIII, b 343; (Rhetoric), XX, a b 523, a 525; (Scepticism), XXI, b 396, a b 397
—— of action (Drama), VII, b 340
Probate courts (Will), XXIV, a *b* 603-4, *b* 605-6
Proberkunst mit dem Löthrohr (Plattner), XIX, b 224
Problem defined (Analysis), I, b 696
—— of three bodies (Astronomy), II, *a* b 663; (Gravitation), XI, a 65-7; (Moon), XVI, a b 828
Problemata Physica (Hobbes), XII, a 40, note, a 41
Problems, attributed to Aristotle, II, a 452, note
——, mechanical (Physiology), XIX, a b 21; molecular (Physiology), a b 21
Problems of Life and Mind (Lewes), XIV, a b 491-2
Proboscida, family (Planarians), XIX, b 183, a 185
Proboscidea, sub-section of insects (Diptera), VII, a 223
——, sub-order of mammals (Ivory), XIII, a 530; (Mammalia), XV, a 368, *a* 375, b 428-31; (Mastodon), XV, b 628-30; (Smell), XXII, b 176
Proboscis, organ (Annelida), II, a b 63; (Arachnida), b 240, b 242; (Bee), III, a 419; (Mollusca), XVI, b 672, b 675, a b 676; (Mosquito), a 895; (Nemertines) (Ill.), XVII, a 336-7, b 339, b 340; (Tape-Worms), XXIII, b 60
Proboscis-monkey (Ape) (Ill.), II, a 133, b 139
Probus of Antioch, translator (Syriac Literature), XXII, b 871
PROBUS, Marcus Aurelius, emperor, XIX, a 810; (Egypt), VII, b 648; (Persia), XVIII, b 619; (Rome), XX, a 794, *a* b 795
——, Valerius, grammarian (Roman Law), XX, a 701
Procambium, tissue (Histology), XII, b 17, b 20, a 21
Procarpium, organ (Reproduction), XX, a 438
Procedendo, Writ of, XXIV, b 325-6
Procedure (Libel), XIV, b 505; (Real Estate), XX, b 320; (Registration), b 354-5; (Summary Jurisdiction), XXII, b 675-6; (Treason), XXIII, a b 561, b 562, a 563; (Trusts), b 636; (United States), b 799; (Wager), XXIV, b 325-6; (Women), a 674, a b 675; extra ordinem (Roman Law), XX, a 728; formular system of (Roman Law), a b 721, a 726-8; imperial (Roman Law), a b 730; jus civile (Roman Law), b 698-704; jus naturale (Roman Law) a 726-9; outside legis actiones (Roman Law), b 703-4; prætorian (Roman Law), a 726-8; rules of (Law), XIV, a b 359, b 364, b 365-6; simplification of (Roman Law), XX, a 714; Syllan judicial (Rome), *a* 781, note
Procellariinæ, sub-family (Petrel), XVIII, a b 725
Proceres, Sundevall's order of (Ornithology), XVIII, b 42
PROCESS, law-term, XIX, a b 810; court (Brehon Law), IV, b 227-8; execution of (Police), XIX, b 347, b 354
—— -blocks (Typography), XXIII, b 749-50
Processes of manufacture, patentable (Patents), XVIII, b 359, a 360
Processi di Rubiera (Panizzi), XVIII, b 215
Processional moth (Butterflies), IV, a 531
Processionals, Greek Church (Hymns), XII, b 614
Processions, religious (Litany), XIV, a 702
Prochaska of Vienna, anatomist (Phrenology), XVIII, b 857 notes, a 858, a 863
PROCIDA, island and town, XIX, b 810
——, John of, patriot (Charles of Anjou), V, b 366
Procla or Claudia Procula, wife of Pilate, XIX, b 98
Proclamations (Prerogative), XIX, a 693
Proclus, grammarian (Greece), XI, a 123
—— of Constantinople, patriarch (Mary), XV, b 597; (Nestorius), XVII, b 364, note
——, Diadochus, philosopher (Axioms), III, a b 138; (Euclid), VIII, b 576, *a* b 577; (Iamblichus), XII, *b* 637; (Neoplatonism), XVII, *a* 347, *b* 348; (Porism), XIX, a 534; (Pythagoras), XX, *a* *b* 146 note, b 147, a 149 note
Procne, myth (Nightingale), XVII, b 512
Procnias, genus of birds, (Tanager), XXIII, a 50
Procœlia, family (Reptiles), XX, a 457
Proconsulare imperium (Rome), XX, *a* b 788, b 791, b 792
Proconsuls, VI, a b 280; (Prætor), XIX, b 675; (Rome), XX, a 765, a 775, a 781 note, a 786; imperial (Rome), b 792, a 793; (Trajan), XXIII, b 534
PROCOPIUS, historian, XIX, b 810-2
  Anecdota, a b 812
  biography, b 810-1
  character of, b 812
  De Ædificiis, a 812
  Histories, a 811-2
—— (Goths), X, *a* *b* 753; (Joshua), XIII, a 763; (Justinian I.), *b* 804, a 806, a b 807; (Persia), XVIII, a 623 notes; (Scotland), XXI, a 495; (Theodora), XXIII, b 272, a b 273, a 274; (Tribonian), *b* 590; (Vandals), XXIV, b 65, a 66
PROCOPIUS, Andreas, the Great, soldier, XIX, a 813
PROCOPIUS the Little, soldier, XIX, a 813
—— of Gaza, critic (Hermeneutics), XI, a 667
—— of Prague, St. (Slavs), XXII, a b 160
—— Rasa, general (Hussites), XII, b 422, a 423
——, Feofane, author (Russia), XXI, a 114
Procopus, prefect (Procopius), XIX, a 811
Procris, myth (Mythology), XVII, a 147
Procrustes, myth (Theseus), XXIII, a 315
Procter, Adelaide Anne, poetess, XIX, a b 813
PROCTER, Bryan Waller or Barry Cornwall, poet, XIX, a 813; (Anagram), I, a 694; (Jonson), XIII, a 755, a 756
——, H. R., physicist (Aurora), III, b 82, b 86
Proctodæum (Mollusca), XVI, a 656, a 657, b 658, b 687
PROCTOR, official term, XIX, b 813; (Convocation), VI, b 289, a 290, *b* 293-4; (Universities), XXIII, b 890, a 891
——, Richard Anthony, astronomer, *b.* 1837, *d.* 1888 (Astronomy), II, a 686, a 688, b 704, a 705, b 717, a 718, *b* 719; (Zodiacal Light), XXIV, b 836, a 837. See List of Contributors
Proctotrypidæ, family (Hymenoptera), XII, a 611; (Insects), XIII, b 154
Procurator (Admiralty), I, b 147; (Proctor), XIX, *b* 813
Procuratores, imperial (Rome), XX, b 792, a 793; Roman (Israel), XIII, b 436, a 437
Procyon, genus (Mammalia), XV, b 447; (Raccoon), XX, a 210
Procyonidæ, family (Zoology, American), XXIV, b 923
PRODICUS of Ceos, Sophist, XIX, b 813; (Gymnasium), XI, b 310; (Sophists), XXII, *a* *b* 278, *a* b 280, a 281, *a* 282
Prodigal Son (Führich), IX, a 713
Prodotiscus, genus (Honey-Guide), XII, b 143
Prodromal period (Insanity), XIII, b 109-10, a 111, a 114 *sq.*
Prodromus, Theodorus, poet (Greece), XI, b 106, b 121, b 129-30, a 132
Prodromus, De Candolle's (Herbarium), XI, b 639, *b* 640
—— *Floræ Novæ Hollandiæ* (Brown, Robt.), IV, b 347
—— *Historiæ Avium*, Klein's (Ornithology), XVIII, a 9, note
—— *Historiæ Generationis Hominum et Animalium* (Wagner), XXIV, b 333-4
Produce exchange (New York), XVII, a b 897
—— theory of Wages, XXIV, a b 330
Productidæ, family (Brachiopoda), IV, *a* 172, a 174, a 177
Production (Wealth), XXIV, a 488; Cairns on (Political Economy), XIX, b 394-5; cost of (Money), XVI, b 747; (Value), XXIV, a b 55, a 56, b 57-8; diminishing, law of (Land), XIV, a b 267; general formula for expenses of (Value), XXIV a b 56; Hermann on, XI, b 662; immaterial (Say), XXI, a 377; Leslie on cost of (Political Economy), XIX, b 411; Marx on (So-

Production, *continued* cialism), XXII, a 224, a 225; Mill on (Political Economy), XIX, a 392; physiocratic theory of (Political Economy), a 373; Smith on (Political Economy), a 381, b 382
—— and distribution (Political Economy), XIX, *a* 393
Productiveness of Armies, II, a 496
Productus, genus (Brachiopoda) (Ill.), IV, b 170, *b* 171, b 177
Proedria (Olympia), XVII, b 791
Proëll's valve-gear (Steam-Engine) (Ill.), XXII, b 527, a 532
Proem (Rhetoric), XX, a 528
Proesti, title (Greece), XI, b 110
Prœtus of Tiryns (Bellerophon), III, a 471
Profanity (Oaths), XVII, b 719, a 720
Professional population (United States), XXIII, a b 876; training, American (Universities), a b 961, a 962, a b 963
Professions (Apprentice), II, b 185, *a* 186; (Free Trade), IX, a 668; (Registration), XX, a 357; (Women), XXIV, a b 674
——, noble mediæval (Ireland), XIII, a 264
Professors, European statistics (Universities), XXIII, b 904-5
Profit and loss (Arithmetic), II, a 471
—— of life Insurance, XIII, b 184-5
Profits (Wages), XXIV, a 327, b 329, a 333; (Walker), a 880; maximum (Value), b 54-5; participation in (Partnership), XVIII, a 335; Smith on (Political Economy), XIX, a *b* 380; taxes on (Taxation), XXIII, a b 94; wage share of (Workingmen in United States), XXIV, a 917
—— à prendre (Prescription), XIX, a 724, *a* 725
Proglottides (Tape-Worms), XXIII, b 54, b 55, a b 57
Progne, genus (Martin), XV, b 588; (Weaver-Bird), XXIV, a 489
Prognosis (Medicine), XV, b 810
Prognostications (Almanac), I, b 520
Progress, port (Yucatan), XXIV, a 796
——, elements of (Buckle), IV, b 378, a 379; law of human (Socialism), XXII, b 230
Progressive Friends (Quakers in United States), XX, b 893
Progression. See Proportion and Progression
Progress of Dulness, satire (Trumbull, John), XXIII, b 944
Progymnasia, schools (Germany), X, b 423
PROHIBITION, writ, XIX, b 813-4
Prohibitory Liquor Laws, XIV, a 695; (Gin), X, a 538
Project for the Good of England, One (Penn), XVIII, b 505
Projectiles (Ammunition), I, b 652-4; (Arms and Armor), II, *b* 483; (Gunmaking), XI, b 259-60, a b 261, b 262-3; (Gunnery), a 264-70, a 271-2, 275, b 280; elliptic motion of (Mechanics), XV, b 714; motion of (Gravitation), XI, b 61-2; penetration of (Fortification), IX, 397, a b 399; rotation (Hydromechanics), XII, b 476; steel (Fortification), IX, b 400-1; unresisted (Mechanics), XV, a 690, a b 714
PROJECTION (Ill.), XIX, b 814-29
    conics, a 819-21
    definition, b 814
    descriptive geometry, b 821-6
    elliptic areas, b 319-20
    line representations, b 822-6
    literature, a 829
    orthographic, b 818
    parabolic segments, area of, b 819
    parallel projection, a b 818
    perspective, b 826-9
    plane figures, b 814-6
    plane representations, a b 822
    planes not in perspective, b 816-8
    point representations, a 822
    properties, projective, a 820-1
    shadows in perspective, a 828-9
    solids, geometrical representation of some, b 825-6
    symmetry and skew-symmetry, b 818-9
—— of maps (Ptolemy), XX, a 100; by balance of errors (Geography), X, a 180; de Bonne (Geography), b 184; Mercator's (Geography), b 184, a 186-7; (Map) (Ill.), XV, b 527-8; (Navigation), XVII, b 269; of meridians and parallels (Geography), X, b 179-88; Wright's (Navigation), XVII, a b 262
—— and cross ratios (Geometry), X, b 348-50
—— of energy (Mechanics), XV, b 780
—— of impressions in Psychology, XX, a 58-60, a 63, b 86, a 87
—— parallel (Mechanics), XV, a 760
—— of straight lines (Trigonometry), XXIII, b 598
Projective geometry (Geometry), X, b 346-66; (Poncelet), XIX, b 466-7; pencils (Geometry), X, a b 364; rows (Geometry), b 350-2, b 363-4; metrical relations of (Geometry), b 352
Proletariatism of Socialism, XXII, a b 223, a 224, a 226, b 228, b 230, b 232; Florentine (Italy), XIII, b 489; Roman admission to a tribe (Rome), XX, a 756 note
Proliferous leaves (Botany), IV, a 87
Prologue (Drama), VII, a 340, b 351, b 355
PROME, district and town, XIX, a b 829; (Burmah), IV, b 496, *a* 498, *a* 500
Promenade, La, painting (Meer), XV, a 834
Promerops, genus (Sun-Bird), XXII, b 686
Promessi Sposi, novel (Italy), XIII, a 525; (Manzoni), XV, a *b* 522
"Prometheaus" (Matches), XV, b 631
PROMETHEUS, myth, XIX, b 829-31; (Adam), I, *b* 126-7; (Fire), IX, a 201; ring of (Gems), X, *a* 124
Prometheus, play (Germany), X, a 481; (Goethe), *a* 647
—— *Unbound* (Poetry), XIX, a b 280; (Shelley), XXI, *b* 830
—— *Vinctus*, play (Æschylus), I, *b* 188; (Zeus), XXIV, a b 821
Promise (Contract), VI, b 286, a 287; casuist doctrine of (Liguori), XIV, b 645
Promissory declaration (Police), XIX, a b 345, b 349
Promonthoux, strait (Geneva), X, b 135
Promorphology (Morphology), XVI, b 868, a 870, b 871
Promotion (Navy), XVII, a b 303; in British Army, II, a b 500, a b 504; Prussian Army, b 523-4
Promotus Archimedes (Hydromechanics), XII, a 451
Pronaos (Architecture), II, b 414; at Edfoo (Architecture) (Plate VII), II, a 341; Greek Doric (Architecture), b 354, b 359, b 360
Pronation (Mammalia), XV, b 361
Pronectus, town (Phœnicia), XVIII, a 819
Prong-buck or bok (Antelope) (Ill.), II, a 91; (Mammalia), XV, b 437; (Skeleton), XXII, a 116
Proni or Pronni, ruins (Cephalonia), V, a 299
Pronouns (Grammar), XI, a b 37; (Hieroglyphics), XI, a b 721; (Hindûstânî), a b 752; (Tibet), XXIII, b 368-9; Chinese (China), V, a 572; Dutch (Holland), XII, b 92; Græco-Italic (Greece), XI, b 116; Latin (Priscian), XIX, b 764
Prontschicheff, explorer (Geography), X, b 170
Pronunciation (Greek), XI, a 121; (Latin Language), XIV, a b 331; (Philology), XVIII, a 796; Aryan (Philology), b 800-2; changes of (Latin), XIV, a b 340; Hebrew (Semitic Languages), XXI, a 677; of Persian names (Persia), XVIII, a 618 note
PRONY, Gaspard Clair François Marie Riche de, engineer, XIX, a 831; (Hydromechanics), XII, b 453
Pronya, river (Ryazañ), XXI, a 124
Proof (Logic), XIV, b 796-7; (Rhetoric), XX, a b 525, a b 526, a 528; Bacon's theory (Logic), XIV, a b 800; fallacy of (Scepticism), XXI, a 398, a 401; nature of (Schopenhauer), XXI, a 472
—— plane (Electricity), VIII, a 19, a *b* 21, note
—— -reading (Typography), XXII, b 745, a 747
—— sphere (Electricity), VIII, a b 21, note
—— -spirit (Distillation), VII, a 230
Pro-otic bone (Amphibia), I, a 661, *b* 664, a b 665, a 666; (Ichthyology), XII, a 678
PROPAGANDA, congregation XIX, a 831-4
    colleges, b 831-2
    history, a b 831
    missions, distribution of, b 832-4
    property sequestrated, a 834
    revenues, a b 832
—— (Missions), XVI, a 537; (Greek Church), XI, a 140; for oriental affairs (Roman Catholic Church), XX, b 645
Propagation of heat (Radiation), XX, a b 220
—— of light (Wave Theory), XXIV, b 445; velocity of (Wave Theory), b 464-5, a b 473, a 474
—— of plants (Arboriculture), II, b 281-3; (Horticulture) (Ill.), XII, a b 217, a 240-5
—— of Sponges, XXII, b 445
Propaladia (Spain), XXII, a b 370
Propane, paraffin (Chemistry), V, *a b* 483
Propellers (Shipbuilding), XXI, a b 862, a b 863-4
Propensities, localized (Phrenology), XVIII, a b 859
Proper names, change in (England), VIII, b 270. See Names
PROPERTIUS, Sextus, poet, XIX, a 834-6
    biography, a b 834
    editions, b 836
    poems, b 834-5
    restoration and interpretation of poems, b 835-6
    style of, a b 835
—— (Latin Language), XIV, a 336; (Mæcenas), XV, b 196; (Menander), XVI, a 6; (Ovid), XVIII, *a* 82, a 83; (Pausanias), b 448, note; (Roman Literature), XX, a 743; (Tibullus), XXIII, *a* 370, a 371, b 372; (Varro), XXIV, b 102
Property (Comitia), VI, a 175; (Communism), b 188, b 189, b 193; (Domicile), VII, b 305; (Land), XIV, a 261, a 262, b 263, a b 264, a b 266-7; (Personal Estate), XVIII, a 677-8; (Real Estate), XX, b 317-21
—— of Bankrupt, III, a 296; church (Ecclesiastical Commission), VII, b 542; development of idea of (Socialism), XXII, b 218, b 229; jus civile of (Roman Law), XX, a 707-8; Justinian law of (Roman

Property, *continued*
  Law), b 732-3; literary (Copyright), VI, a 316-25; (Protection), XIX, a 927, a b 930-1; primitive (Ethnography), VIII, b 545-6; regal period (Roman Law), XX, a b 690, b 691-2, b 693-4; in war (International Law), XIII, a b 200, a b 201; Women's rights in, XXIV, b 674-5, a b 676, b 908-9; wrongs to (Tort), XXIII, a b 483
—— tax (Finance), IX, b 163; Athenian (Finance), b 151
Prophecies, Observations on (Newton, Sir I.), XVII, a 460
—— *of Isaiah*, XIII, a b 388, a 391, note, b 392, *a* b 394, note, b 394
Prophecy (Bible), III, a 553; (Bourignon), IV, b 160; (Camisards), b 657, b 658; (Collins), VI, b 132; (Comenius), a 163; (Daniel), b 709-10; (Hebrew Language and Literature), XI, b 534-5; (Hosea), XII, a 309-11; (Isaiah), XIII, a 388-95; (Jeremiah), *a* 638; (Micah), XVI, b 233-4; (Montanism), b 801-2; (Mohammedanism), a b 571, b 584, a 585; (Zephaniah), XXIV, a b 819; fulfilment of (Gospels), X, b 715; gifts of (Irving, E.), XIII, a b 382; theory of, (Avicenna), III, *b* 134-5; written (Israel), XIII, b 418
——, Blake's Books of, III, b 699
PROPHET, XIX, b 836-45
    Christian church, a 844-5
    HEBREW, a 837-44
        Amos, school of, a b 839
        characteristics of the schools, b 839-40
        Elijah and Elisha, age of, b 838-9
        Isaiah, position of, b 840-1
        Jeremiah, position of, b 841-2
        matter of prophecy, b 839-40, a 842
        national sentiment, effects of, a b 838
        predictive element in, b 843
        resumé, a 842-3
        seers of *Samuel*, a 837-8
        vindication of history, a b 843
    introductory, b 836-7
        literature, b 843-4, a 845
——. See Prophecy and Prophets

Prophète, Le, opera (Meyerbeer), XVI, b 231
Prophet Elias, mountain (Hydra), XII, b 446
Prophetic rhetoric (Isaiah), XIII, b 389, a 390, a 392
Prophets (Bible), III, a b 548, a b 549, b 553; (Canon), V, b 3, *b* 5-6; (Israel), XIII, a 417-8, b 419, a 420-8; (Messiah), XVI, b 58, a b 59; (Midrash), a b 300; (Proverbs), XIX, a b 906, a 907; canonical (Israel), XIII, a b 421; decay of (Malachi), XV, a 317; in the Koran (Mohammedanism), XVI, b 621-2; reading of (Targum), XXIII, a b 68; schools of (Monachism), XVI, b 724; Yonathan on (Targum), XXIII, a 70, note
Prophylactics, protective processes (Murrain), XVII, a b 65, b 66
Propithecus, genus (Lemur) (Ill.), XIV, a 442
Propolis (Bee), III, b 422, a b 424
Proportion, compound (Arithmetic), II, a 470; simple, b 469
——, determinate (Analogy), I, b 695
—— and progression (Algebra), I, b 472-4; and ratios (Geometry), X, a 340-3
——, rhetorical (Church History), V, b 667
Proportional compasses, plotting (Surveying), XXII, a 758; logarithms (Tables), XXIII, b 17
—— metaphor (Rhetoric), XX, b 527
—— parts (Arithmetic), II, b 470
Proportionals, mean (Pythagoras), XX, *b* 148, note, *a* 149, note
Proportions in Architecture, II, b 334, a 386
—— in Statistics, XXII, b 482
Proposition (Grammar), XI, a 34, a 35; hypothetical (Logic), XIV, a 799
Propraetors (Praetor), XIX, b 675; (Province), b 910
Proprietary colonies (Maryland), XV, a b 611; (United States), XXIII, *b* 778
—— life companies (Insurance), XIII, b 180
Proprietorship of copyright by employment (Protection), XIX, a b 930; in letters (Post-Office), b 601
Propriety (Rhetoric), XX, b 527
Proprium de Tempore (Missal), XVI, b 532, b 533
—— *Sanctorum* (Missal), XVI, b 533
Propulsion (Shipbuilding), XXI, a 861-4
Propylæa (Architecture), II, b 414; at Athens, III, b 7-8; (Archæology), II, b 314; (Architecture), a 355, b 360, b 362; (Greece), XI, b 91; Egyptian (Architeccure) (Plate VII), II, *b* 340, *a* b 341; of Xerxes (Architecture), b 350-1
Propyläen, journal (Goethe), X, b 652
Propyl alcohol (Chemistry), V, *b* 488; (Distillation), VII, a 228
—— group, isomerism of (Chemistry), V, b 476-7
Propylite rock (Geology), X, b 209
Prorastomus, fossil (Mammalia), XV, b 394
Prorhynchus (Planarians), XIX, b 184, a 185
Prorocentrum (Protozoa) (Ill.), XIX, b 860, *b* 883, a b 884
Proscription, Sulla's (Rome), XX, a 780, a 782, a 785; (Sulla), XXII, b 666; triumviral (Rome), XX, a 787
Proscolex, embryo (Tape-Worms), XXIII, a b 57, a 58
Prose (Provençal Literature), XIX, b 901-2; characteristics of (Latin), XIV, b 333-4; development of (Germany), X, b 470, a b 473, b 475, a 476, a b 477; Greek, XI, a 126-7; (Homer), XII, a 116; growth of (Latin), XIV, a b 333; Hebrew (Israel), XIII, b 418; Hindī (Hindustani Literature), XI, b 758, b 759; mediæval (Italy), XIII, a b 509, b 511-2, b 514-5; modern (Italy), b 508, b 521, a 522-6; relation to Poetry, XIX, a 270, a b 271, a b 273, a b 274; rise of (France), IX, a 568; rhythm of (Isocrates), XIII, a b 402; (Rhetoric), XX, b 527; (Southey), XXII, b 304; Urdū (Hindustani Literature), XI, a 758-9
Prosecutor, official (Court-Martial), VI, b 460; (Criminal Law), b 521; (Police), XIX, *a* 347
PROSELYTE, XIX, a 845-6
Prosenchyma, tissue (Botany) (Ill.), IV, a 75
PROSERPINE, goddess, XIX, a b 846; (Thesmophoria), XXIII, b 316. See Persephone
Proserpine (Rossetti), XX, *a* 882
Prosimiæ, animals (Lemur), XIV, b 440
PROSKUROFF, town, XIX, b 846
Proslogion (Anselm), II, b 81, *b* 82, a 83; (Scholasticism), XXI, a 440
Prosobranchia, order (Mollusca), XVI, b 679
Prosodus or aditus (Sponges), XXII, b 429-30
Prosody (Grammar), XI, b 34; (Sanskrit), XXI, b 287, b 288, a 308
Prosopa, manifestations (Sabellius), XXI, a 136
Prosopite (Mineralogy), XVI, b 399
Prosopyle or pore (Sponges), XXII, *b* 429
Prospect Hill (Hudson), XII, a 345
—— Hill (Peking), XVIII, b 480
Prospecting (Mining), XVI, a 462, b 463
Prospect park (Brooklyn), IV, b 334
PROSPER OF AQUITAINE, Aquitanus or Aquitanicus, theologian, XIX, b 846-7; (Ireland), XIII, *a* 253
——, Louis, duke (Aremberg), II, *a* 424
PROSSNITZ, town, XIX, a 847
Prosthaphæresis, mathematical process (Napier), XVII, b 189-90
Prosthemadera, bird (Honey-Eater), XII, a 143
Prostitution (Canaanites), IV, b 674; (Lydia), XV, b 100; (Police), XIX, a b 348
Prostomium (Mollusca), XVI, a 656, a 657
Protagon in nerve (Chemistry), V, b 503
PROTAGORAS of Abdera, sophist, XIX, a 847; (Ethics), VIII, a 508; (Scepticism), XXI, *a* 396; (Socrates), XXII, *b* 248; (Sophists), *b* 277, a *b* 278, *a* b 280, *a* b 281, *a b* 282, *a b* 283; (Zeno), XXIV, b 817
Protagoras, dialogue (Plato), XIX, b 207, a b 208, a 212, a 213, b 216, b 217, b 218
Protamæba primitiva (Protozoa), XIX, b 861
Protaxonia, organic forms (Morphology), XVI, b 870
Proteaceæ, order (Botany), IV, b 125, b 135
Proteana, section (Protozoa), XIX, a 860
PROTECTION, economic, XIX, b 926-41
    COPYRIGHT, a 927-32
        applications of the law in the United States, a 929-31
        author's rights, a 932
        commercial aspects of, a 931-2
        common law rights, a 927, a b 930-1
        conditions of obtaining, a 929
        Congressional acts, b 927-9
        employment, proprietorship by, a b 930
        Encyclopædia Britannica, b 930
        English legislation, a b 927
        importer's trade, a b 932
        manuscripts, foreign, b 930-1
        publisher's rights, b 931
    nature of the problem, b 926-7
    TARIFFS, b 932-41
        agriculture, effects on, a 934-5
        foreign competition, b 932-3
        labor, effects on, b 933-4
        literature, a 940-1
        general effects on the state, a 935-6
        history, a 936-40; agriculture, a b 937; Cobdenism, b 937-8; Continental system, b 937; mediæval trade, a b 936; mercantile school, b 937-8; Morrill tariff, b 939-40; nullification tariffs, a 939; reactions, a b 938; Smith, Adam, a 937; tariffs, United States, b 939-40
        shipping, American, a 940
        war, relations to, b 937-8

Protection (Canada), IV, b 686-7; (Ceylon), V, b 321; (Commerce), VI, b 181-2; (Cotton), b 450-1; (Finance), IX, b 164, a b 165; (Free Trade), a b 662, a b 663, b 665-6, a 667; (Germany), X, a b 418; (Greely, H.), XI, a 144; (Moscow), XVI, a 886; (Patents), XVIII, a 359, a b 884; (Pennsylvania), a 513; (Prussia), XX, a 17; (Rome), a 785; (Spain), XXII, a b 317; (United States), XXIII, a 805, b 809, a 810, a 811, a 812, *a* 813, a 815, b 824; (Victoria), XXIV, a 235, a 236; Bastiat on, III, a 371; (Political Economy), XIX, b 398; List on (Political Economy), a 403; rise of (Political Economy), b 367-8. See TARIFFS

Protection, Writ of, XXIV, a 731

—— of mercantile marine (War), XXIV, b 384-5

—— Union (Hungary), XII, a 386

Protective coatings (Iron), XIII, a 367-8.

—— mimicry. See MIMICRY

Protectorate, English (Cromwell), VI, b 532; (England), VIII, a b 312; (Lambert), XIV, a 237; (Post-Office), XIX, b 579-80, notes. See Commonwealth

Proteids (Biology), III, a 588; (Chemistry), V, b 502-3; (Gelatin), X, b 117, a 118; (Nutrition), XVII, *a b* 695; formation of (Physiology), XIX, a 57, b 61-2

Proteles, genus (Mammalia) (Ill.), XV, b 443

Proteolepas, genus (Crustacea), VI, b 589

Proteolytic ferment (Nutrition), XVII, b 690, b 693

Proteomyxa, class (Protozoa) (Ill.), XIX, a 860, b 861, a 862, b 867, b 879, a 881, a 883

Proterosaurus, fossil (Reptiles), XX, b 478

Proterospongia, genus (Protozoa) (Ill.), XIX, b 882, *a* 883; (Sponges), XXII, b 443, b 444

Protestant, origin of the name (Luther), XV, a 82

—— association (Ewald, H.), VIII, a 677; (Gordon, G.). X, b 695

—— consistory, France (Guizot), XI, a b 241

—— constitution of Hesse (Luther), XV, b 81

—— Duke (Monmouth), XVI, a 872

—— Methodists (Methodism), XVI, a 198

PROTESTANTENVEREIN, society, XIX, a 847-8; (Germany), X, *b* 448

Protestant Episcopal Church of the United States, VIII. a b 437; (Bunsen), IV, a 469; (New York), XVII, b 474; (Liturgy), XIV, b 717; (Seabury), XXI, a 755; (Reformed Episcopal Church), XX, a 904; (Philadelphia), XVIII, a 755; (White), XXIV, b 896-7

Protestantes, Histoire des Variations des Églises (Bossuet), IV, b 63

Protestant missions. See MISSIONS

—— Patent (Hungary), XII, a 388

—— Reformation (Amyraut), I, a b 687; (Angel), II, a 27; (Antichrist), b 111; (Apocrypha), a 161; (Areson), b 427; (Baptism), III, a b 302; (Buxtorf), IV, a b 536; (Casuistry), V, a b 178; (Catechisms), b 191-2; (Church History), b 668-9; (Dogmatic), VII, a b 291, a b 296; (Elizabeth), VIII, a b 133-4; (Europe), b 625, a 626; (Excommunication), b 699-700; (Fathers of the Church), IX, a 45; (Geneva), X, a 134, a 135; (Germany), a 421-5, *b* 423; (Gustavus Adolphus Union), XI, b 299-300; (Hermeneutics), a 669; (Heresy), a 656, a 657; (Holland), XII, b 77-9; (Huguenots), b 351, a b 353; (Inspiration), XIII, a b 163; (Ireland), b 269-70, b 271, b 272, a b 273, a b 274, *a b* 275, b 276; (Knox), XIV, b 133; (Latimer), a 326-7; (Liturgy), b 716-8; (Marguerite), XV, b 545; (Mary I.), a 600-1; (Poland), XIX, b 308, a b 309, a 312, a 313; (Political Economy), b 366; (Prussia), XX, b 8, a *b* 9, a 12, b 13; (Russia), XXI, *a* b 90; (Saumur), b 337; (Socialism), XXII, a 227; (Theism), XXIII, b 262-3, note; (Trent, Council of), a 578-80, a 583; (Vaud), XXIV, a 126; (Waldenses), a 343. See REFORMATION

—— in France (Presbyterianism), XIX, b 713, a 715; philosophy of (Cartesianism), V, b 139; tendency of (Metaphysic), XVI, b 96; league (Scotland), XXI, b 529-30

Protestant Reformation, History of (Spalding), XXII, b 917

—— versions of Bible, III, b 560-1

PROTESTANTS, XIX, b 848; (Bastard), III, b 369; (Council), VI, b 453, b 454-5; (Cromwell), b 532-3; (Cromwell, Thos.), b 535; (France), IX, b 452; (Holland), XII, a 69, b 86; (India), b 784, a 785; (Ireland), XIII, b 225, b 245, a b 246, a 247; (Italy), a b 469; admission of (Trent, Council of), XXIII, a b 579, a *b* 581, a b 583, *a* 584; persecution of (Rudolph II.), XXI, a b 59. See Protestant Reformation

Protestants, Religion of (Chillingworth), V, *b* 543

Protesters, party (Presbyterianism), XIX, a 703, a 704, b 711; (Scotland), XXI, b 536 note

Protests of the Lords (Campbell, Lord), IV, b 670

PROTEUS, deity, XIX, a 849

Proteus, genus (Amphibia), I, *a* 659, *a* 660, *b* 664, a *b* 665, a *b* 668, a 668*, a b 670, *b* 672, b 673, a 675, b 676; (Distribution), VII, b 234

——, cabinet of (Magic), XV, a 208

PROTEUS ANGUINUS, reptile, XIX, a b 849

Protevangelium Jacobi (Mary), XV, b 596

Prothallium, organ (Ferns) (Ill.), IX, b 88, a *b* 92, a 93, *a b* 94; (Reproduction), XX, b 442-3

Prothallus, organ (Botany) (Ill.), IV, a 127, b 143, a *b* 146

Protistæ, group (Anatomy), I, a 740; (Morphology), XVI, a 872; (Protozoa), XIX, b 853

Protocampus, genus (Ichthyology), XII, b 720, a 733

Protococcaceæ, family Vegetable Kingdom), XXIV, a b 137

Protococcoideæ. order (Vegetable Kingdom), XXIV, *a b* 137

Protococcus, genus (Biology), III, b 588, a 590; (Botany) (Ill.), IV, b 73, *b* 81

Protocol, origin of (Papyrus), XVIII, a 237

Protodrilus, genus (Worm), XXIV, *a b* 719

PROTOGENES, painter, XIX, b 849-50; (Apelles), II, a 149; (Archæology), b 318

—— primordialis, species (Protozoa) (Ill.), XIX, b 861, a 862

Protohippus, fossil (Zoology), XXIV, a 926

Protomyces, plants (Reproduction), XX, b 438, a 442

Protonema, organ (Muscineæ), XVII, a b 79, a 80

Protophyta, class (Biology), III, b 599; (Protozoa), XIX. a *b* 853-4

PROTOPLASM, XIX, a 850-2; (Anatomy), I, b 739-44; (Biology), III. a 588, a b 589, *a* b 590; (Botany), IV, b 73, b 74; (Fungus), IX, a 727; (Morphology), XVI, a 867, b 873; (Oken), XVII, b 771; (Physiology), XIX, b 24, a b 25, b 56, a 70-1; (Zoology), XXIV, a b 855, *a* 856: animal (Histology), XII, a 6, b 7, *b* 10, a b 11; in ciliata, differentiation of (Protozoa), XIX, b 889; degenerations of (Pathology), XVIII, b 398-9; of ova (Reproduction), XX, b 426, a b 427-8; neural (Anatomy), I, b 756; of sporozoa (Protozoa), XIX, b 879; varieties of (Physiology), a b 24-5; vegetable (Biology), III, *a* 598; (Histology), XII, b 12-3, a b 14-5

Protoplasmic continuity (Sponges), XXII, b 436; movements of plants (Physiology), XIX, a 69-71; theory (Physiology), b 15-7

Protopterus, genus (Ichthyology), XII, a b 696, *b* 697, b 700, *a* 704, b 711, a 725; (Lepidosiren), XIV, a 468

Protorosaurus, fossil (Distribution), VII, a b 245

Protospongia, group (Sponges), XXII, a 438, b 444

Prototheria, sub-class (Mammalia). XV, b 373, *a* b 374, a 377, b 379-80

Protoxide of Lead, XIV, b 378

PROTOZOA or plastidozoa, grade (Ill.), XIX, a 852-91
  classification, b 859-60
  CORTICATA (Ill.), b 876-91
    acinetaria (Ill.), b 889-91
    ciliata (Ill.), b 886-9; characters, b 886-7; orders, b 887-8; physiology, a 888-9
    dinoflagellata (Ill.), b 883-5; choanoflagellata, a 883; lissoflagellata, b 880-3; flagellata (Ill.), b 880-3; rhynchoflagellata (Ill.), b 885-6
    sporozoa (Ill.), a 877-80; coccidiidea, b 878-9; gregarinidea, b 877-8; myxosporidia, a 879; sarcocystidea, a b 879; special characteristics, b 879
  GYMNOMYXA (Ill.), a 860, a 861-76; heliozoa (Ill.), b 866-7; labyrinthulidea, b 866; lobosa (Ill.), b 864-6; mycetozoa (Ill.), b 862-4; proteomyxa (Ill.), a 861-2
    radiolaria (Ill.), b 872-6; acanthometridea, a b 874; reproduction, b 875-6; silica skeleta, b 872-4; structure, b 874-5
    reticularia (Ill.), b 867-72; imperforata (Ill.), b 868-70; perforata (Ill.), b 870-1; shell-making, b 871-2
  literature, b 860, a b 891
  MORPHOLOGY, a 854-7
    cortical substance, b 855
    ectoplastic products, b 855-6
    entoplastic product, a b 856
    form of protozoon cell, b 856-7
    nucleus, b 854-5
    protoplasm, a b 854
  PHYSIOLOGY, a 857-9
    chemistry, a 858
    death, b 859
    motion, a b 857
    nutrition, b 857-8
    reproduction, a 858-9
    respiration, a 858
  plant life, difference of, b 852-3
  protophyta, distinguished from, b 853-4
  unicellular structure, a b 852
  volvocina, reproduction of, b 881-2

Protozoa (Animal Kingdom), II, b 45-6; (Digestive Organs), VII, a 192; (Distribution), a b 241-6; (Embryology), VIII, b 155; (Mollusca), XVI, b 655; (Morphology), b 868, a b 869; (Parasitism), XVIII, a 263, a 264; (Reproduction), XX, a 431; (Sex), XXI, a 756, a 760; (Skeleton), XXII, b 113; (Variation and Selection), XXIV, *a* 92; (Zoology), b 849, a 851. See Infusoria

Protracheata, group (Myriapoda) (Ill.), XVII, a 123-4

Protractor, plotting (Surveying), XXII, a b 758

Proud flesh (Pathology), XVIII, b 368

PROUDHON, Pierre Joseph, socialist, XIX, a 891-2; (Socialism), XXII, *b* 227

Pro unitate ecclesiæ, bull (Pole), XIX, a b 343, a 344

Proust, Louis Joseph, chemist (Chemistry), V, b 402; (Gunpowder), XI, b 284, a 295; (Sugar), XXII, b 655

Proustite (Mineralogy), (Ill.), XVI, a 411

PROUT, Samuel, painter, XIX, b 892; (Lithography), XIV, *a* 707

——, Father, pseudonym. See MAHONY, Francis

Proveditorato Centrale, council (Italy), XIII, a 471

PROVENÇAL LANGUAGE AND LITERATURE, XIX, b 892-902
- LANGUAGE, b 892-7
  - ancient state, b 893-4
  - bibliography and texts, a 897
  - different names, a b 893
  - distribution of, b 892-3
  - existing state, a 896-7
  - geographical limits, a 893
  - grammatical features, a 895-6
  - phonetic characteristics, a b 894-5
- LITERATURE, a 897-902
  - bibliography, a 902
  - didactic and religious, b 901
  - distribution and quality of, a b 897, a 900
  - drama, b 901
  - forms of, b 900-2
  - jongleurs, b 898-9
  - narrative poetry, b 900-1
  - prose, b 901-2
  - rise of, b 897-9
  - troubadours, a 899-900

—— (Dictionary), VII, b 160; (France), IX, a 554, *a* 556; (Italy), XIII, a b 502; (Latin Language), XIV, *a b* 341; (Fauriel), IX, b 48; (France), *b* 561, a b 569; (Portugal), XIX, a b 570-1; (Italy), XIII, b 509-10. See Catalan

PROVENCE, country, XIX, a 902-4; (Immortelle), XII, a 755; (Jourdain), XIII, a 765; (Renaissance), XX, *a* 395

Proverbs (Agricola), I, a 259; (Gaelic), X, b 11; (Hungary), XII, a 392; (Iceland), a b 663; (Malays), XV, b 328-9; (Mohammedanism), XVI, b 617

PROVERBS, Book of, XIX, a 904-9
- age of collections, b 907-9
- divisions of the book, b 904-5, b 907-9
- literature, a 909
- period of composition, b 906-7
- prophets contrasted with the wise, a 906-7
- Solomon, authorship of, a b 905
- title, a b 904
- wise in Israel, the, b 905-6

—— (Bible), III, b 552; (Isaiah), XIII, b 390; (Job), b 713

Proverbs of Alfred (English Language), VIII, b 354

Providence, dogma of (Christianity), V, b 606; (Predestination), XIX, a 690; and Fate (Hierocles), XI, *b* 708; Malebranche on (Cartesianism), V, a 132; rationalistic view of (Syriac Literature), XXII, a 895

Providence, On (Stoics), XXII, a 601

PROVIDENCE, Rhode Island, city, plan, XIX, a 909-10; (Libraries), XIV, b 540, b 553; (Rhode Island), XX, *b* 538, *a* 539

——, island (Slavery), XXII, a 907

Provident banks in Scotland (Banking), III, b 288

PROVINCE, XIX, a 910-1; ecclesiastical (England), VIII, b 224, a b 254; (York), XXIV, b 789; Roman (Prætor), XIX, *b* 675

Provinces, ancient, table of (France), IX, b 449-50

Provincetown Harbor (Massachusetts), XV, a 618

——, Wellesley (Straits Settlements), XXII, a *b* 615

Provincial Banks of England, III, b 274, a 290

—— congresses (United States), XXIII, b 788

—— government (China), V, b 580; (Prussia), XX, b 22-3; imperial (Rome), a 788, a 789, b 792-3, a 794

Provincial Letters (Gibbon), X, a 514; (Jansenism), XIII, b 576; (Jesuits), a 661; (Molina), XVI, a b 653; (Pamphlets), XVIII, a 210; (Pascal), b 340, b 341-2, a 343

—— system (Roman Law), XX, a b 714; (Rome), a 796, b 797

Provings (Homœopathy), XII, a b 130

PROVINS, town, XIX, b 911-2

Provinzialrath, official (Prussia), XX, a 23

Provision Opium, XVII, a 813

Provisions of Oxford, 1258, ordinances (England), VIII, *b* 279; (Henry III., England), XI, *a* 588; (Montfort), XVI, a b 814

Provisor, official (Præmunire), XIX, a 674

Provo, river and town (Utah), XXIV, b 24, a 25

Provocatio, in Roman Law (Appeal), II, a 182

Provocation (Murder), XVII, a b 59

Provoked Wife, play (Wycherly), XXIV, *b* 61

Provoost, Samuel, bishop (Seabury), XXI, b 913; (White), XXIV, a 897

Provost, The (Galt), X, *b* 43

Provost of Paris, XVIII, b 294

Provostaye and Desain's experiments (Radiation), XX, a 221, *a* 223

Proxenos, title (Hospitium), XII, b 321

Proxy (Proctor), XIX, b 813

Pruculian school (Labeo), XIV, *a* 165

Prude, La, play (Wycherley), XXIV, *a* 840, note

Prudentes, jurists (Roman Law), XX, a 717

PRUDENTIUS, Aurelius Clemens, poet, XX, a 5; (Hymns), XII, *b* 616; manuscripts of (Palæography), XVIII, b 156

Prud'hommes, inspectors (Fair), VIII, a 742

PRUD'HON, Pierre, painter, XX, a b 5

Prumangan or Mahabu, mountain (Celebes), V, b 251

Prunes, fruit (Lot-et-Garonne), XV, a 11; (Plum), XIX, a 242

Pruning (Arboriculture), II, a b 283; (Horticulture) (Ill.), XII, b 218, b 239, a 247-50; cordon shape (Horticulture), a 248, a 249; fan shape (Horticulture) (Ill.), a b 248; flower (Horticulture) (Ill.), a b 250; grape (Horticulture), a b 288; horizontal (Horticulture) (Ill.), b 248-9; peach tree (Horticulture), b 283-4; pyramidal (Horticulture) (Ill.), b 247; root (Horticulture), a 216, b 250; summer (Horticulture) (Ill.), b 249-50

Prunus, genus (Horticulture), XII, b 279, a b 286; (Laurel), XIV, a 349; (Plum), XIX, a 242

Pruritus, eruption (Skin Diseases), XXII, b 131

Prusa, city. See BROUSSA

Prusias I., king, Bithynia (Hannibal), XI, b 397

—— II., Bithynia (Nicomedes II.), XVII, b 503

PRUSSIA, kingdom (Plate I.), XX, b 5-26
- area, b 5-6
- bibliography, a 24
- chronology, a b 17
- GEOGRAPHY AND STATISTICS, b 17-24
  - army and navy, a 24
  - constitution, a 22-3
  - education, b 21-2
  - finances, b 23-4
  - industries, a b 19

PRUSSIA, *continued*
- GEOGRAPHY AND STATISTICS
  - live stock and fisheries, b 18-9
  - minerals, a 19
  - physical features, b 17
  - population, a 20-1
  - religion, a b 21
  - soil and crops, b 17-8
  - trade and communications, b 19-20
- HISTORY, a 6-17
  - Ascanian line, b 6-7
  - Bavarian margraves a 7
  - Brandenburg mark, a 6-9
  - Brandenburg under the Great Elector, a 11-2
  - Frederick I., king, a b 12; II., king, b 13-5
  - Frederick William, Great Elector, b 10-2
  - Frederick William I., king, b 12-3; II., king, a 15; III., king, a 15-6; IV., king, a b 16
  - George William, elector, b 10
  - Hohenzollerns in Brandenburg, a 8-9
  - internal condition of Brandenburg to fourteenth century, b 7-8; in fifteenth century, a 9
  - Luxemburg margraves, a b 7
  - Prussia, acquisition of, b 9-11
  - Teutonic order, a b 10
  - William I., b 16-7

——(Adulteration), I, b 152; (Balance of Power), III, a b 234; (Coal), VI, b 53, *a* b 54, b 73, b 74; (Code), b 96, b 97; (Contraband), a 286; (Coöperation), a b 301; (Copyright), a 323; (Cousin), b 464; (Denmark), VII, b 77-8; (Forest), IX, *a* 350, *a b* 352; (France), b 531, b 533, *b* 550; (Frederick William), b 645; (Frederick I.), a b 646; (Frederick William I.), b 646; (Frederick II.), b 647-50; (Germany), X, a b 452; (Hanover), XI, b 400; (Hegel), b 548, b 549-50

——(Hohenzollern), XII, b 54, a 55; (Holland), b 85; (Humboldt, W.), b 359; (Insanity), XIII, a 105; (Jesuits), b 666; (Land), XIV, a 264, a 270; (Longevity), b 869; (Metternich), XVI, b 207-9; (Napoleon I.), XVII, b 215, a b 216, a b 217, a b 220, *a b* 225, b 230; (National Debt), b 249-50, b 252, 254; (Neuchatel), b 370; (Old Catholics), a b 777, a 778; (Periodicals), XVIII, b 551; (Prison Discipline), XIX, a 780; (Prussia), XX,

Prussia, *continued*
  a b 18, b 20, a 21; (Savings Banks), XXI, b 346; (Saxony), a b 371-2; (Stein), XXII, a b 558; (Suicide), b 662, *a* b 663, *a* 664, a 665; (Veto), XXIV, b 224, a 225; health laws (Medicine), XV, b 808; (Vaccination), XXIV, a *b* 35; modern history (Germany), X, a 451-61; statistical view of (Germany), b 404, *a* 405, *b* 407, a *b* 409, b 411, a *b* 413, b 414, a 417, a 418, b 419, a b 420, *b* 421, *a* b 423
PRUSSIA, provinces or duchy, XX, a 24-5; (Albert I.), I, b 399; conquest of (Germany), X, a 441; growth of (Germany), a 441, a 451
Prussian army, XX, a 24; (Ambulance), I, a 586; (Army), II, a 521-4; (Artillery), a 575, a 577; (Battle), III, b 385; (Cavalry), V, b 228, a 229; (Dietetics), VII, a b 184; (Surgery), XXII, a 711; (War), XXIV, *a b* 364, a 365, *a b* 368, a 375, b 386, a b 373, b 378
—— blue (Calico-Printing), IV, *a* 614; (Chemistry), V, a 481; (Dyeing), VII, a b 499; (Ink), XIII, b 87; (Mineralogy), XVI, a 418; (Prussic Acid), XX, *a b* 29
—— Church (Protestantenverein), XIX, b 847
—— free corps, 1813 (Körner), XIV, b 142
—— guns (Gunmaking), XI, a b 250; (Gunnery), b 272, a b 273, *b* 279, *b* 280
Prussian History, Nine Books of (Ranke), XX, a 895
—— language (Dictionary), VII, a 163; (Philology), XVIII, b 798; old (Slavs), XXII, a 157
—— Poland, XIX, b 309, a b 310
—— Saxony, XXI, a 375-6
—— Silesia, province, XXII, a 58-9
—— war of 1866. See Austro-Prussian War, Schleswig-Holstein, Sadowa
—— war of 1870. See Franco-Prussian War
—— war treasure (Spandau), XXII, a 382
Prussiate green (Dyeing), VII, a b 500; of potash (Prussic Acid), XX, b 26-7
PRUSSIC ACID, XX, b 26-30
  analysis, b 29-30
  cyanide of potassium, b 27-8
  cyanogen, b 27
  ferro- and ferri-cyanides, a b 29
  hydrocyanic acid, a b 27
  metallo-cyanides, *a* 28-9
  prussiate of potash, b 26-7
  sodium, ammonium and mercuric cyanides, a 28
  synthesis, b 30
  thiocyanates, a b 30
—— (Chemistry), V, b 480-1; (Laurel), XIV, a 349; (Poisons), XIX, a b 290; (Scheele), XXI, a 405. See Hydrocyanic Acid
Pruth, river (Bessarabia), III, b 531; (Russia), XXI, b 80
Prybilov islands (Birds), III, a 653; (Seal), XXI, a *b* 610, note
Prydain, king and district (Celtic Literature), V, b 260, *b* 262
Prydydd, Bychan, poet (Celtic Literature), V, b 277
Pryer, H., ornithologist (Japan), XIII, a 585 note
PRYNNE, William, statesman, XX, b 30-3; (Pamphlet), XVIII, a 209; (Records), XX, b 326
Prytaneion or Prytaneum, public building (Athens), III, a 3, b 4; (Fire), IX, b 199, a b 200; (Hestia), XI, b 698; (Olympia), XVII, b 791; (Vesta), XXIV, a b 209; court of the (Areopagus), II, a 425; XX, a 33
PRYTANIS, official, XX, a 33; (Ecclesia), VII, a 539; (Fire), IX, b 199
Prytz, Andreas, of Linköping, bishop (Sweden), XXII, b 792
PRZEMYSL, town, XX, a b 33
Przemyslaw, king (Poland), XIX, b 299
Przhevalski, N., traveller (Gobi), X, *b* 635, *a* 636. See Prjevalski
Przibram, town (Uranium), XXIV, b 11
Przypkowski or Przipcovius, Samuel, theologian (Socinius), XXII, *a* 242, a 243
PSALMANAZAR, George, impostor, XX, b 33; (Johnson, S.), XIII, a 733
Psalmists of Great Britain (Hymns), XII, b 625
Psalm of Hezekiah (Isaiah), XIII, a 394
—— *of Life* (Longfellow), XIV, b 871, b 873
PSALMS or PSALTER, XX, b 33-9
  authors and title of, b 33-4
  date of collection, a 35-7
  Davidic psalms, a 37-9
  exegetical works, a b 39
  musical execution, a 39
  nature and origin of, a 34-5
  version, ancient, a 39
—— (Acrostic), I, a 113; (Ahab), b 373; (Bible), III, a b 552-3, b 559; (Bibliography), a 565; (Breviary), IV, a 235; (David), VI, a 737, a b 740; (Ecclesiastes), VII, a 541; (English Bible), VIII, *a* b 342, *a* 343; (Gaelic), X, a 13; (Haggai), XI, a 331; (Hebrew Language and Literature), *a* b 535; (Hymns), XII, b 612-3; (Jerome), XIII, b 641; (Job), b 713; (Messiah), XVI, a b 58; (Solomon), XXII, a 265 note
——, Anglo-Saxon (English Bible), VIII, a 342; Ashburnham's (Miniature), XVI, b 458; *of Bologna* (Slavs), XXII, b 158; Columba's (Palæography), XVIII, a 162; 46th-48th (Isaiah), XIII, b 394; French version (Goudimel), XI, b 3; Genoa (Polyglott), XIX, b 431; Greek uncial (Palæography), XVIII, b 152, a 153; Latin (Palæography), b 156, a 162, b 168; mediæval (Holland), XII, b 95
——, metrical (Brady), IV, b 180; (Hessus), XI, a 698; (Hymns), XII, b 623, a b 624, a b 625; (Marot), XV, *b* 570; (Music), XVII, b 92, b 99; (Tallis), XXIII, a 39; (Tate), b 86
——, trilingual manuscript (Palæography), XVIII, a 155; Utrecht (Miniature), XVI, b 457
Psalms of Solomon (Apocrypha), II, b 158-9, a 160; (Messiah), XVI, *a* b 60-1
——, *Commentary on the* (Horne), XII, *b* 174
Psalterium, Mainz, 1457 (Typography), XXIII, b 728, a 731, a 736
—— *Gallicanum* (Psalms), XX, a 39
—— *Romanum* (Psalms), XX, a 39
Psalter of Queen Margaret (Poland), XIX, a 311, note
PSALTERY, instrument, XX, b 39; (Pianoforte), XIX, *b* 73, a 74, b 77, a 79
Psamma arenaria, species (Reed), XX, *a* 332
Psammechinus, genus (Echinodermata) (Ill.), VII, b 544, a b 546
Psammenitus or Psametik III., king (Cambyses), IV, b 648; (Egypt), VII, b 644
Psametik I. or Psammetichus, king (Egypt), VII, *a* b 644; (Scythia), XXI, a 604; (Zephaniah), XXIV, a 818
—— II. (Egypt), VII, a 644
Psammites, treatise (Archimedes), II, b 333
Psammobia, genus (Mollusca) (Ill.), XVI, a 711, a 714
Psammophidæ, family (Snakes), XXII, a b 203
Psara, island (Greece), XI, b 110, b 111
PSELLUS, Michael, theologian, XX, b 39-40; (Greece), XI, a 130, *a* b 131; (Occam), XVII, *b* 738
PSELLUS, Michael Constantine, philosopher, XX, a 40; (Encyclopædia), VIII, a 175
Psephotis, genus (Birds), III, *b* 619
Pseudechineis, genus (Siluridæ), XXII, b 75
Pseudechis, genus (Snakes), XXII, b 207, a 208
Pseud-Isidoriana, Collectio (Canon Law), V, b 16-7, b 21
Pseudobranchiæ, organs (Ichthyology) (Ill.), XII, b 694, a 695; (Salmonidæ), XXI, b 231
Pseudobranchus, genus (Siren), XXII, a 105
Pseudochirus, genus (Phalanger), XVIII, a 742
Pseudocrinus, genus (Echinodermata) (Ill.), VII, *a* 553
Pseudo-Dionysius, forgery (Mysticism), XVII, a b 138
Pseudodoxia Epidemica (Brown, Sir T.), IV, *b* 350
Pseudofungidæ, family (Corals), VI, a 333
Pseudogryphus (Birds), III, b 652; (Vulture), XXIV, b 322
Pseudo-hæmal system (Echinodermata), VII, a 546, a 548, b 554
Pseudo-hypertrophic Paralysis, XVIII, a 261; (Pathology), b 401-2
Pseudo-Martyr (Donne), VII, b 315, a 316
Pseudo-Messiah, XVI, a 61, note
Pseudomorph crystals (Geology), X, a 233; (Mineralogy), XVI, b 385-7; origin of (Mineralogy), b 386-7
Pseudomyrmabicolor, species (Ant), II, b 87
Pseudophyllidæ, family (Tape-Worms), XXIII, b 59
Pseudopodia, organs (Histology), XII, a 6; (Protozoa) (Ill.), XIX, b 857, a 860, a b 861, a 864, a b 868, a 872, a 879, a 881; (Rotifera) (Ill.), XXI, a 8, a 9; of plants (Physiology), XIX, a b 69, a b 70
Pseudopropyls, isomerism of (Chemistry), V, a b 477
Pseudorca, genus (Mammalia), XV, a 376, b 402-3
Pseudo-rhabdites, family (Planarians), XIX, b 181
Pseudoscope, instrument (Stereoscope) (Ill.), XXII, b 568
Pseudoscopic effect (Microscope), XVI, a 284, a 285
Pseudoscops, genus (Birds), III, b 650
Pseudosphere (Measurement), XV, a 666, b 670
Pseudostachyum, genus (Grasses), XI, b 50, a 51
Pseudotetramera, section (Coleoptera), VI, b 120
Pseudotrimera, section (Coleoptera), VI, b 121
Pseudotrionychidæ, family (Tortoise), XXIII, a 486
Pseudoturbinolidæ, family (Corals), VI, a 333, b 336, a 337
Pseudo-velum (Hydrozoa), XII, a 584, a 592
Pshent, crown (Persia), XVIII, a 579 note
Psi, Greek letter (ψ), XXIV, *a* 752
Psidium, trees (Guava), XI, *a* 215
Psiloi, troops (Army), II, a 491, note
Psilomelane (Manganese), XV, *a* 487; (Mineralogy), XVI, a 388, a 404
Psiloriti, mount (Crete), VI, *b* 503, a 504
Psilotaceæ, order (Vegetable Kingdom), XXIV, a 141
Psilotum, genus (Ferns), IX, a 94
Psiol river (Russia), XXI, a 81
Psittaci, order (Lory), XV, *a* b 9; (Nestor), XVII, b 363-4
Psittacidæ, family (Parrot), XVIII, a 329
Psittacinite (Mineralogy), XVI, a 421
Psittacomorphæ, group (Birds), III, a b 619
Psittacula, genus (Love-Bird), XV, a 30
Psittacus, genus (Parrot), XVIII, b 327, a b 328, notes, a 329

- Pskoff, government and city, XX, a 40-2; (Russia), XXI, b 96, *a* b 98, *b* 99, b 100, b 102; provincial features (Russia), a 76, a 84, a 98
- ——, lake, XX, *b* 40
- Psocidæ, group (Insects), XIII, a 159
- Psolus, genus (Echinodermata), VII, a b 554
- Psophia, genus (Trumpeter) (Ill.), XXIII, a 632
- Psoriasis, eruption (Skin Diseases), XXII, a 131
- Psoric miasm (Homœopathy) XII, b 129
- Psoroma, genus (Lichens), XIV, *a* 557, a 565
- Psorosperms, spores (Protozoa), XIX, a 879
- Psusennes II. or Har-Psiunkha, king (Egypt), VII, a 643
- Psyche, myth (Cupid), VI, a 626; (Mythology), XVII, b 164
- *Psyche and the Butterfly* (Canova), V, b 23
- Psychical men (Valentinus), XXIV, a 45, a 46
- Psychidæ, family (Butterflies), IV, a 528, a 531; (Insects), XIII, b 157
- Psychological aspect of Phrenology, XVIII, a b 862; Hermeneutics, XI, b 668; insight (Church History), V, b 666; origin of Theism, XXIII, b 264
- Psychologico - empirical Logic, XIV, b 800-2
- Psychology, XX, a 42-90
  - Action, conative and emotional, a 77-9
    - desire, b 78-9
    - emotional expression, a b 77
    - feeling and desire, a b 79
    - purposive action, b 77-8
  - Association and memory, a 65-71
    - contiguity, b 65
    - duration, b 69-71
    - expectation, b 68
    - generic ideas, b 66-7
    - imagination and memory, b 67-8
    - memory continuum, b 65-6
    - obliviscence, a b 66
    - presentations, conflict of, a b 67
    - similarity, a 65
    - succession, a b 69
    - time distinctions, b 68-9, a 71
    - train of ideas, a 67
  - Bibliography, a b 90
  - conduct, b 89-90
  - Feeling, b 71-7
    - æsthetic feeling, b 74-5
    - causes of, b 71-2
    - combinations of sensation and movement, b 73-4
    - egotistic and social feeling, a b 75
    - ideation, a b 74
    - negative pleasures, b 75-6
    - pleasures, qualitative, a b 76
    - sensation and movement, b 72-3
    - summary, b 75
- Psychology, *continued*
  - Imagination or ideation, a 62-5
    - characteristics of ideas, b 62-3
    - connection of impressions and images, b 63-5
    - impressions and ideas, a b 62
    - memory, image, a 64-5
  - Intellection, b 79-88
    - analytic thought, a b 82
    - causality, a 86-7
    - difference and likeness, b 84-5
    - duality, law of, a b 84
    - formal categories, b 84-5
    - growth and character of, b 81-2
    - identities, a b 85
    - logical bias, b 82-3
    - objectivity, b 87-8
    - real categories, b 85-8
    - synthesis, a 83-8
    - thought and ideation, b 80-1
    - thought and speech, a b 80
    - understanding and sense, b 79-80
    - unity, b 83-4
  - Internal and External, differentia of, a 42-3
  - mental and material defined, a 43
  - Mind, analysis of, a 44-9
    - action, a 48-9
    - attention, b 46-7, a b 49
    - cognition and conation, b 45, a b 48
    - consciousness, continuity of, a b 47
    - feeling, a 45-6, b 48, a b 49
    - motor presentations, b 47-8
    - presentation, a b 46, a b 49
    - primordial facts, summary, a b 49
    - sensation, b 45, b 46
    - subject or Ego, a 44-5
  - Perception, b 56-62
    - assimilation of impressions, b 57-8
    - impenetrability, b 60-1
    - integration, b 56-7
    - intuition of things, a 60-2
    - localization of impressions, a 58-9
    - local signs, a b 59
    - meaning of term, a b 57
    - movement, b 59-60
    - reality, b 60
    - substantiality, b 61-2
    - time-continuity, b 61
    - unity and complexity, a b 61
  - Presentations, theory of, b 49-55
    - diffusion and restriction, a b 51
    - hypothetical individual, b 49-50
    - incopresentability, b 51
- Psychology, *continued*
  - Presentations
    - presentation - continuum, a 50-1
    - relativity, a 54-5
    - retentiveness, b 51-2
    - subconsciousness, a 52-4
  - Self-Consciousness, a 88-9
  - sensation and movement, b 55-6
  - standpoint of, a 42, a b 43
- —— (Abstraction), I, a b 59; (Æsthetics), a 192-3; (Analysis), b 698; (Anthropology), II, *a* 95, b 96; (Apologetics), a b 166; (Association of Ideas), b 639-42; (Bailey), III, a 209; (Belief), a 461; (Beneke), b 483-4; (Bonnet), IV, a 32; (Brown, Dr. Thomas), b 348-9; (Buffier), b 397; (Butler), a 522-3; (Cabanis) b 548; (Charron), V, b 373; (Condillac), VI, a b 223-4; (Cousin), *a* 466, a b 467; (Descartes), VII, a b 109; (Dream), b 391, a b 393-4, a b 395-7; (Ethics), VIII, b 506, b 507; (Evolution), b 670, b 673; (Hamilton, Sir W.), XI, b 372-4, a 375; (Hartley), b 445; (Hegel), b 553; (Herbart), b 643, a 644; (Hobbes), XII, b 38, a 42; (Hume), *a* b 365-9; (Insanity), XIII, a b 109; (Jouffroy), b 764; (Kant), b 857-8, b 861; (Leibnitz), XIV, a b 422; (Lewes), b 491; (Logic), b 787-8; (Lotze), XV, *a* 16; (Maine de Biran), a 305; (Mansel), a 505; (Metaphysic), XVI, b 86, b 87, a 88, b 89, b 93, a b 94-5; (Mill, James), a 320; (Phrenology), XVIII, a 862-3; (Philosophy), a 806, a 807-8; (Schleiermacher), XXI, b 429-30; (Schopenhauer), b 478; (Stoics), XXII, b 593-5; (Theism), XXIII, b 264; (Theology), b 293, b 294, a b 296; (Touch), b 512; (Tracy), a 529; (Wordsworth), XXIV, b 707
- *Psychopannychia* (Calvin), IV, b 633-4
- Psychopannychy, sleep (Eschatology), VIII, a 475
- Psycho-physical law (Weber's Law), XXIV, b 496, b 497
- Psychosis (Psychology), XX, a 49, a 77
- Psyllidæ, family (Insects), XIII, a 160
- Ptah, god (Apis), II, a b 152; (Bubastis), IV, b 366; (Cosmogony), VI, a 396; (Egypt), VII, b 619, *a* 620, a 622; (Mythology), XVII, b 158
- Ptah-hotep, king (Egypt), VII, a 636
- P'táhíl, æon (Mandæans), XV, a *b* 476
- Ptarmigan (Bird), III, b 653, b 656; (Grouse) (Ill.), XI, b 197-8; (Newfoundland), XVII, a 393; (Norway), b 595; moult of (Birds), III, a 673
- Ptenoglossa, genus (Mollusca) (Ill.), XVI, b 663, b 672
- Pteranodon, fossil (Pterodactyle), XX, b 91, *a* 92; (Reptiles), b 456
- Pteraspis, fish (Geology), X, b 297; (Ichthyology), XII, *a* 705, a 725
- Pteria, city (Phrygia), XVIII, a 864, note, a 865
- Pteridophyta, sub-kingdom (Biology), III, a b 601; (Ferns), IX, *b* 88, a 89-95; (Vegetable Kingdom), XXIV, a 136, b 140-2, b 142-3
- Pteris, genus (Botany) (Ill.), IV, *b* 145; (Ferns), IX, a b 90
- Pterobranchia, division (Polyzoa) (Ill.), XIX, b 445, a 446, a 447, a 449-51, a 454
- Pterocarpus, genus (Dragon's Blood), VII, a 337; (Kino), XIV, *a* b 93; (Sandalwood), XXI, a 269
- Pterocles, genus (Sand-Grouse), XXI, *a* b 271, note
- Pteroclidæ, family (Ornithology), XVIII, a 50
- Pterocymodoceidæ, family (Mollusca), XVI, a 691
- Pterodactyle, fossil (Ill.), XX, b 90-2; (Reptiles), *a* 479; (Dragon), VII, b 333, (Ornithology), XVIII, a 47; (Zoology, American), XXIV, *b* 925
- Pterodinadæ, animalculæ (Rotifera), XXI, a 12
- Pteroglossus, genus (Toucan), XXIII, a *b* 507
- Pteromys, genus (Mammalia), XV, b 422; (Squirrel), XXII, b 455
- Pteronura, genus (Mammalia), XV, b 397
- Pterophanes, genus (Humming-Bird), XII, a 373
- Pterophorina, group (Butterflies and Moths) (Ill.) (Plate XXXI), IV, b 531
- Pteropoda, branch (Atlantic Ocean), III, b 24; (Mollusca), XVI, a 690-710; (Pacific Ocean), XVIII, b 128, a 129
- Pteropodidæ, family of bats (Mammalia), XV, *b* 410, *a* 411, a 412, b 413-4, b 418.
- Pteropod ooze (Pacific Ocean), XVIII, a 127, b 128, a 129, a b 131
- Pteroptochidæ, family (Birds), III, *a* 647; (Tapaculo), XXIII, a 54
- Pteropus, genus of bats (Mammalia), XV, a 411, b 413-4
- Pterosauria, fossil (Pterodactyle), XX, *b* 91-2; (Reptiles), *b* 450, a b 456
- Pterotic bone (Birds), III, b 618
- Pterotrachea, genus (Mollusca) (Ill.), XVI, b 677, b 678, a 679
- Pterotracheacea, sub-order (Mollusca), XVI, b 677
- Pterygium, disease (Ophthalmology), XVII, b 802
- Pterygoid bones (Amphibia), I, b 661, *a* 663, b 664, a b 665, a b 666, b 674; (Anatomy), b 722, a 729; (Birds), III, *b* 611-2, a 616, a 617
- Pterygotus, fossil (Crustacea) (Ill.), VI, b 560, a 561, b 579, b 586, a 587; (Geology), X, b 304, *a* 305

Pterylographie of Nitzsch (Ornithology), XVIII, a b 30, note, a 31
Pterylosis of birds (Skeleton), XXII, a 116
Ptilocercus, genus (Mammalia) (Ill.), XV, b 405–6
Ptilopus, genus (Pigeon), XIX, b 93
Ptilorrhis, genus (Rifleman-Bird), XX, b 567–8
Ptilotis, genus (Honey-Eater), XII, *b* 142, a 143
Ptolemæum at Athens, III, b 8
Ptolemæus, teacher (Valentinus), XXIV, a *b* 44, b 46
Ptolemaic Pottery (Ill), XIX, b 621
—— system (Alexandrian School), I, a 441; (Astronomy), II, b 655, b 679
Ptolemais. See Acre
Ptolemies, kings of Egypt (Anatomy), I, a 703; (Geography), X, b 157, a 158; (Israel), XIII, *a* 430; (Libraries), XIV, a b 510; (Numismatics), XVII, b 667, a b 668
Ptolemy I. Soter or Lagus (Academy), I, a 68; (Alexandrian School), b 439–40; (Antigonus I.), II, *a* 113; (Demetrius Phalereus), VII, a 52; (Egypt), b 645–6; (Macedonian Empire), XV, b 142, a 143; (Numismatics), XVII, *b* 668; (Pyrrhus), XX, *a* 143; (Serapis), XXI, b 706, a 707; (Weights and Measures), XXIV, a b 515
—— II., Philadelphus (Alexandrian School), I, a 440; (Arsinoë), II, a 556; (Carpets), V, b 112; (Egypt), VII, a 646; (Septuagint), XXI, b 699
Ptolemy III., Euergetes (Abyssinia), I, a 64, a 66; (Alexandrian School), a 440; (Egypt), VII, a b 646
—— IV., Philopator, king (Egypt), VII, b 646
—— V., Epiphanes (Egypt), VII, b 646
—— VI., Philometor (Egypt), VII, b 646–7; (Rome), XX, a 773
—— VII., Euergetes II. (Egypt), VII, b 646–7
—— VIII., Soter II. or Lathyrus (Egypt), VII, *b* 647
—— IX., Alexander I. (Alexandria), I, b 436; (Egypt), VII, b 647
—— X., Alexander II. (Egypt), VII, b 647
—— XI., Auletes (Egypt), VII, b 647
—— XII., Egypt (Cleopatra), V, b 721; (Egypt), VII, b 647
—— XIII., Egypt (Cleopatra), V, b 721; (Egypt), VII, *b* 647–8
Ptolemy, Claudius, geographer, XX, a 92–101
  Almagest, analysis of, a 94–6
  bibliographical, a b 96, b 101
  biographical, a b 92
  geography of, b 96–101
  inhabited world, extent of, a 98–100
Ptolemy, *continued*
  maps, projection of, a b 100
  mathematical geography, a 97–8
  progress of geography, b 100–1
  trigonometry of, b 92–3
—— (Allen, Thomas), I, b 513; (Arithmetic), II, b 461, a 462; (Astronomy), a b 655–6, a b 699; (Australia), III, b 89; (Caledonia), IV, b 587–8; (Cambodia), b 640; (Chronology), V, *b* 620; (China), b 544, *a* 545; (Climate), VI, *b* 3, a 4; (Geography), X, b 158; (Gerard of Cremona), b 395; (Gilgit), a 534; (Libya), XIV, a 555; (Light), b 581; (Map), XV, a 523, *a* 524, *a* b 527; (Moon), XVI, *a* 826, b 828; (Music), XVII, a 86, b 87; (Pappus), XVIII, b 233, a 254; (Petra), b 718 note; (Scotland), XXI, b 493–4; (Slavs), XXII, a 155; (Time), XXIII, a b 419 note, a 421; (Volga), XXIV, a 301; (Yemen), b 776; (Zarlino), b 809; his list of kings (Babylonia), III, a 160, b 161; his star catalogue (Photometry), XVIII, a 854
——, recluse of Memphis (Palæography), XVIII, a 153
—— Ceraunus of Macedonia, king (Arsinoë), II, a 556
Ptomaines (Medical Jurisprudence), XV, b 792; (Septicæmia), XXI, a b 699; (Surgery), XXII, b 714
Ptomopteris, genus (Annelida), II, b 58, a 59, a b 60
Ptosis, disease (Ophthalmology), XVII, a 808
Ptyalin, ferment (Nutrition), XVII, a 694
Ptyas, genus (Snakes) (Ill.), XXII, b 200, *b* 204
Ptychodus, genus (Ichthyology), XII, b 706, a 724
Ptychophysa, genus (Tape-Worms), XXIII, a 61
Puberty (Medical Jurisprudence), XV, b 788, a 789; (Reproduction), XX, a 419–20; (Totemism), XXIII, a 500
Pubescence (Insanity), XIII, b 108, a 115
Pubic bones (Ichthyology), XII, b 680, b 683, a b 684, a 685, a b 686
Pubis (Ill.) (Anatomy), I, b 726–7, b 729, a 730; (Mammalia), XV, a 363
Public Advertiser (Junius), XIII, b 784
Publication in law (Patents), XVIII, a 875
Publications (Libel and Slander), XIV, a b 505, *a* 506; cheap (Periodicals), XVIII, b 548
Public credit, Hume on (Political Economy), XIX, a 378
Public debt (Finance), IX, b 161, a b 162; (Taxation, United States), XXIII, b 924, a 925, b 926, a 927. See National Debt
Public Health, XX, b 101–3; (Medicine), XV, a 807–8
Publician Edict (Roman Law), XX, a b 717
Publick Occurrences (Newspapers), XVII, a b 444
Public lands (Homestead), XII, a b 126–7; surveys of (United States), XXIII, a 812
Public Libraries of United States (Libraries), XIV, a 534, b 536, b 539 note, a 540 note, a 542
Publicola, consul. See Valerius, Publius
Public Roman slaves (Slavery), XXII, a 140, b 142, b 143
—— rooms (Ventilation), XXIV, *b* 171–2, a b 174
—— safety committee (Danton), VI, a b 719; (France), IX, a 533; (Robespierre), XX, a 619–20; (Saint Just), XXI, b 185
—— schools (England), VIII, b 225–6; (Education), VII, b 589–90. See Schools, also Eton, Harrow, etc.
—— School Society (New York), XVII, b 473–4
—— Trust, XXIII, b 634
—— works (Government), XI, a 18; (Japan), XIII, a 590; (Prison Discipline), XIX, a b 775; Roman (Inscriptions), XIII, a b 135
—— Worship Regulation Act (England, Church of), VIII, b 341
Publilia, a beauty (Cicero), V, b 674
Publilian Law (Roman Law), XX, b 696; (Rome), *a* b 756, note, *b* 757; (Tribune), XXIII, b 592
Publilius Philo, consul (Naples), XVII, b 197
Publilius Syrus, dramatist, XX, a b 103
Publishers' copyrights (Protection), XIX, b 931
Pucci, Antonio, humorist (Italy), XIII, a 516
——, Orazio, nobleman (Medici), XV, b 801
Puccinia graminis, species (Fungus) (Ill.), IX, a 730
Pucellas, tool (Glass), X, b 591
Pucelle, La, epic (Chapelain), V, b 343, a 344
——, poem (Voltaire), XXIV, b 307, *a* 308, a 311, *b* 312
Pucherite (Mineralogy), XVI, a 421
Puchta, Georg Friedrich, jurist (Roman Law), XX, b 729
Puckler-Muskau, Hermann Ludwig Heinrich, prince, XX, b 103
Pudding Lane Market (London), XIV, a 837
Puddingstone (Geology), X, b 211–2
Puddled metal, decline of manufacture (Iron), XIII, b 369; steel (Iron), a b 341
Puddling in Canal, IV, a 691
—— (Iron) (Ill.), XIII, b 291, a 297, a 327, b 328–35; fuel for (Iron), b 329, b 330; furnaces for (Iron) (Ill.), a 329–34, a b 348
—— machine (Gold), X, b 663
Pudic nerve (Anatomy), I, b 763
Pudsey, town, XX, b 103
Puebla, Mexico, city, XX, b 103–4; (Mexico), XVI, a 223, a–b 909, a 910
Pueblo Indians, XX, a 887–90
  authorities, b 889–90
  cliff houses, a b 888
  existing Pueblos, b 888–9
  location, a 887
  religion and customs, b 889
  ruins, a 887–8
—— (Indians), XII, a b 866–7, b 873, a 874; (New Mexico), XVII, b 410, b 411, *a* 412
Puelche, tribes (Indians), XII, b 869
Puemunus, deity (Pomona), XIX, a 458
Puente Grande (Guadalajara), XI, b 203
Puerperal fever (Peritonitis), XVIII, b 558; (Rokitansky), XX, a 640; in ewes (Agriculture), I, b 350
—— Insanity, XIII, b 115; (Tetanus), XXIII, a b 217; thrombosis (Pathology), XVIII, b 411
Puerta del Sol, public square (Madrid), XV, b 191
Puerto Caballos, town (Honduras), XII, a 134, b 135, a 136
Puerto Cabello, Venezuela, town, XX, a b 104; XXIV, a 152
—— de Isabel, island (Fernando Po), IX, a 88
—— de la Luz, town (Canary Islands), IV, a 706
—— lar Mar or Cobija, VI, b 82; (Atacama), II, a 723
Puerto de Santa Maria, town, XX, b 104
Puerto Principe, town, XX, b 104
Puerto Rico, island. See Porto Rico
Pufendorf, Samuel, jurist, XX, b 104–6
Puff-adder (Viper), XXIV, a 266
Puff-bird, XX, b 106
Puffin, bird, XX, a b 107; migration of (Birds), III, b 665
Puffinus, genus (Shearwater), XXI, a *b* 818
Pufflerite (Mineralogy), XVI, a–b 441
Pugatcheff, Yemelka, pretender (Catherine II.), V, a 204; (Russia), XXI, a 108, a 117; (Suwaroff), XXII, a 766
Pug Dog, VII, a b 287
Puget, Pierre, sculptor, XX, b 107–8; (Sculpture), XXI, b 589
Puget Sound (Washington), XXIV, *a* b 406, b 407, a 408; forests (United States), XXIII, a b 861
Pugging floors (Building), IV, a 441
Pughe, William Owen, antiquary (Celtic Literature), V, a 273, b 276, b 284
Pugin, Augustus Welby Northmore, architect, XX, a b 108; (Barry), III, b 344

Puglia, Francesco di, friar (Savonarola), XXI, *a* 353
Pug-mill (Brick), IV, a b 250, a b 251
Puim, insect (Brazil), IV, b 204
Puits-Herbault, Gabriel du, monk (Rabelais), XX, a 202
Pujades, Hieronim, historian (Spain), XXII, a b 378
Pukhtu, race. See Pushtu
Pukhtûnwali, law (Afghânistân), I, b 212
Pul, Old Testament king (Babylonia), III, a 162
PULASKI, Casimir, count, soldier, XX, a 890; XXIII, b 839; (Berdicheff), III, a 505; (Poland), XIX, a 309; monument to (Savannah), XXI, a 340
——, Joseph, count, patriot, XX, a 890
Pulcheria, princess (Eudocia), VIII, *b* 578
PULCI, Luigi, poet, XX, a 109; (Italy), XIII, a 518
Pulcinella, puppet (Punchinello), XX, *a b* 11
Pulex, genus (Flea), IX, b 262, a 263
PULGAR, Fernando, chronicler, XX, a 109; (Spain), XXII, b 373
Puliars, tribe (India), XII, a 816
Pulicat, lake (Madras), XV, b 185
Pulicidæ, family (Diptera), VII, a 223
Pulkava, chronicler (Slavs), XXII, b 160
Pulkova or Pulkowa, village (St. Petersburg), XXI, b 199, a 200, a 204
—— Observatory, XVII, b 731; (Micrometer), XVI, b 261; (Telescope) (Ill.), XXIII, b 161, b 162, a b 165, a 166, b 169
Pulleyn or Pullen, Robert, theologian (Scholasticism), XXI, b 440, b 443, note; (Universities), XXIII, a 893
Pulleys (Mechanics), XV, a 770. See BLOCK MACHINERY
PULLMAN, Illinois, city, XX, a 890-91
——, George M., manufacturer, XX, a 890, a 891
—— cars (Railway), XX, b 257, b 258
Pullo empire (Houssa), XII, b 331
Pulmonaria, plants (Horticulture), XII, b 259
Pulmonary Apoplexy, II, b 169; arteries (Respiration), XX, b 489; circulation (Vascular System), XXIV, b 118-9; its discovery (Vascular System), b 103, a b 104; nerves (Anatomy), I, a 775, *a* 791, a *b* 792, b 797, a *b* 798; plexus (Anatomy), b 775, a 776; veins (Anatomy), a b 791, b 795
Pulmonata, order (Mollusca), XVI, b 684-8; (Snail), XXII, b 197; stylommatophorous (Mollusca) (Ill.), XVI, a 685
Pulney, town. See Palni
Pulo-Condore island (Cambodia), IV, a 641; (Cochin China), VI, b 86, a 89
—— Jarajah, island (Prince of Wales Island), XIX, a 761
—— Pasi or Hog island (Saleiyer), XXI, a 220
—— Penang, island (Malay Peninsula), XV, b 323. See Penang
—— Rond or Roon, or Chamber island (Banda Islands), III, *b* 267, a 268
—— Way or Water island (Banda Islands), III, *b* 267
Pulp, dental (Digestive Organs), VII, *a* 203, a b 204, a b 206; (Mammalia), XV, a 352, *a b* 353; persistent a b 353, a 354; vascular (Ivory), XIII, b 530, a 531
Pulping (Coffee), VI, a b 102
Pulpits, examples of (Architecture), II, a 415; Italian (Pisano), XIX, *b* 132, a b 133; (Pistoia), a 141; (Prato), a 680; (Rossellino), XX, a 880; Spanish (Metal-Work), XVI, a 82
Pulque, liquor (Brewing), IV, b 236; (Mexico), XVI, a b 219, b 221, a b 226, a b 910
Pulse, food (Bean), III, a 398; (New-Chwang), XVII, a 391
——, physiological (Heart), XI, a 494; arterial (Vascular System), XXIV, a 113-4; capillary (Vascular System), b 115; cardiac (Vascular System) (Ill.), b 109-10, a 111; characteristics of (Vascular System), b 113-4; comparative table of (Vascular System), a 118; hepatic (Vascular System), b 118; venous (Vascular System), b 115-6
Pulsometer (Steam-Engine) (Ill.), XXII, b 541-2
Pultamarca, sulphur springs of (Caxamarca), V, b 242
PULTENEY, William, earl of Bath, XX, a 109-10; (Bolingbroke), IV, *a* 8
——, William Johnstone, legatee, XX, *a* 110
Pultney, town (Wick), XXIV, *b* 587, a 588
Pultowa, battle of, 1709 (Charles XII. of Sweden), V, *a* 365. See Poltava
Pulu, vegetable fibre (Hawaiian Islands), XI, a 473
Pulverizers (Mining), XVI, a b 485
Pulvinus, group (Botany) (Ill.), IV, a *b* 101; function of (Physiology), XIX, b 71
Pulvis antilyssus, drug (Lichens), XIV, b 563
Pulwar, valley (Persepolis), XVIII, b 569, note, a 570
Pulwul, town. See PALWAL
PUMA, mammal (Ill.), XX, a b 110; (America), I, a 599; (Mammalia), XV, a 441
Pumacagua, Mateo Garcia, patriot (Peru), XVIII, b 691
Pumbaditha, academy (Talmud), XXIII, b 40, b 43, a 44
PUMICE, mineral, XX, b 110-1; (Geology), X, b 204, a 209, b 254; (Pacific Ocean), XVIII, a b 129; South America, I, a 591; plains (Canary Islands), IV, b 704, *a* 705
Pump (Hydromechanics) (Ill.), XII, a 565-7; (Mining) (Ill.), XVI, a 479-80; (Shipbuilding), XXI, b 853-4; Appold's (Canal), IV, b 696-7; dynamic (Mercurial Air-Pump), XVI, b 35-6; statical (Mercurial Air-Pump), a b 35; temporary (Seamanship), XXI, b 631
Pump-Brake, IV, b 191
—— governors (Steam-Engine), XXII, b 533
Pumping (River Engineering), XX, a 588
—— engines (Coal), VI, b 59; (Haarlem Lake), XI, b 318-9; (Steam-Engine) (Ill.), XXII, b 540-1; Cornish (Steam-Engine), a b 495, b 528; Newcomen's (Steam-Engine) (Ill.), a b 492; Savery's (Steam-Engine) (Ill.), a b 491; Watt's (Steam-Engine) (Ill.), a b 493; marine engine (Steam-Engine), a 546
Pumpkin, vegetable (Gourd), XI, b 5; (Horse-radish), XII, a 295; (Oils), XVII, a 765
Pump-system of Ventilation (Ill.), XXIV, a b 175
Puna, regions (Bolivia), IV, a *b* 12; (Peru), XVIII, a 685
Punása forest (Nimár), XVII, b 522
Punch, London (Brooks, C. Shirley), IV, a 335; (Caricature), V, a 93; (Jerrold), XIII, b 643, a b 644; (Leech, J.), XIV, b 406-7; (Satire), XXI, b 335; (Thackeray), XXIII, a 233
Punch and Judy, puppets (Punchinello), XX, b 111-2
Punches (Die-Sinking), VII, b 171; (Hand Tools) (Ill.), XI, b 392, a 393; type-making (Typography) (Ill.), XXIII, a 744
PUNCHINELLO, puppet, XX, a 111-2
Punching machine (Iron), XIII, a b 339
—— metal, effects of (Iron), XIII, b 364; (Strength of Materials), XXII, b 630
—— and shearing machine (Ill.), XV, a b 158
Punch Mahauls, district. See PANCH MAHALS
Punch-printing (Typography), XXIII, a 749
Punctuation (Hebrew Language and Literature), XI, *a* 536, note; in manuscript (Palæography), XVIII, a b 167; Roman (Inscriptions), XIII, a 132
Punctum vegetationis (Botany), IV, a 82, b 83
Puncture diabetes (Nutrition), XVII, a 701
Pund, weight (Denmark), VII, a 72
Punderpoor, town. See PANDARPUR
Pund-jel, myth (Mythology), XVII, b 153, a 163
Puniál or Punya, state (Gilgit), X, a b 533, a 534
Punica, epic (Silius), XXII, b 60-1
Punic wars (Carthage), V, b 141-2; (Hamilcar), XI, a 366-7; (Hannibal), a 395-7; (Hiero), a 708; (Marcellus), XV, b 539; (Malta), a b 344; (Masinissa), a b 615; (Metapontum), XVI, a 108; (Samnites), XXI, a 261; (Roman Literature), XX, a *b* 736; (Rome), b 765-70; (Scipio), XXI, *a* b 488, a b 489; (Sicily), XXII, b 26
—— wax (Encaustic Painting), VIII, a b 170
Punishment (Brehon Law), IV, a 227; (Burmah), a 494; (China), V, b 581; (Contempt of Court), VI, a 284; (Court-Martial), b 460, *a* 461; (Crime), b 517; (Criminal Law), b 521; (Dietetics), VII, b 183; (Homicide), XII, a 128; (Hottentots), a 325, note; (Military Law), XVI, b 309-10; (Navy), XVII, b 301, b 305; (Pillory), XIX, b 104-5; mediæval (Women), XXIV, a b 673, note, a 674; regulation of (Witness), a 658; Roman servile (Slavery), XXII, b 140, a 141, a 143, a 144; Russian (Prison Discipline) XIX, a 782; in the United States (Prison Discipline), b 783
Punishment of Death (Wakefield), XXIV, b 339
PUNJAB or Panjab, province (Map), XX, a 112-8
  area, a b 113
  army, b 115
  authorities, b 118
  communications, a 116
  education, a b 115
  history, a 116-8
  manufactures, b 115-6
  population, b 114-5, b 116
  products and agriculture, b 113-4
  Ranjit Singh, b 117-8
  river system, a 112-3
  Sikh sect, b 116-8
  Sikh wars, a b 118
  states and languages, a 115

——(Ahmed), I, a b 376; (Amritzar), b 682; (Dalhousie), VI, b 684, b 685, b 686; (Himalaya), XI, a 735; (India), XII, a 776, b 777, b 778, a 779, a b 782, a *b* 783, *a b* 784, a 785, *a* 786, b 787, a 788, *b* 789, *a b* 791, b 792, b 794, b 797, b 799, b 803, a *b* 804, a 805, b 810, a b 811, b 813, a b 815; (Indus), b 888; (Law), XIV, b 359; (Lawrence, John L.), b 371-2; (Lawrence, H. M.), a b 373; acquisition of (India), XII, a 847, b 849; Alexander's invasion of (India), a b 826, a 827; Greek kings in (Persia), XVIII, a 610, a 614
Punjabi Dictionaries, VII, a 166
PUNNAH or Panna, state, XVIII, a 217
Puno, town (Bolivia), IV, a 14
Púnpún, river (Patna), XVIII, a 419

Punt fishing (Angling), II, b 30-1
Punt, land of (Incense), XII, b 757; (Religions), XX, b 374
Punta Arenas, town (Chili), V, b 536; (Patagonia), XVIII, b 357, note; (Terra del Fuego), XXIII, a 411
——, province (Costa Rica), VI, *b* 398, a 399
Punta del Nasone (Italy), XIII, b 452
—— del Palo, peak (Italy), XIII, b 452
Punto in aria (Lace), XIV, *b* 184, a 185, a 186-7
Punya, state. See Punial
Pupa or chrysalis (Butterflies and Moths) (Plates XXVII-XXX), IV, b 528-9; (Housefly), XII, a 331; (Hymenoptera), a b 608; (Insects), XIII, *a b* 153
—— vetusta, shell (Lyell), XV, b 102
Pupikofer, J. A., historian (Thurgau), XXIII, b 352
Pupilage, Scotch (Age), I, b 249
Pupil of the eye (Anatomy), I, a b 779
Pupipara, group (Insects), XIII, a 157
Pupivora, class (Ichneumon-Fly), XII, b 665
Pupluna, city (Etruria), VIII, a 559
Puppet-plays (Java), XIII, a 615, b 619
Puppet-show (Faustus), IX, b 49; (Java), XIII, a 615, b 619; (Marionettes), XV, b 553-4; (Punchinello), XX, a 111-2
Purace, volcano (Sulphur), XXII, b 667; (Popayan), XIX, b 496
Purana, Bhawishya (Chess), V, b 519, a 520
Puranas (Brahmanism), IV, b 189; (Caste), V, a *b* 164, a 165; (Hindú Kúsh), XI, b 747; (Sanskrit), XXI, b 296-7
Purang, city (Tibet), XXIII, *b* 367
Purbach or Beurbach, George (Astronomy), II, b 656-7; (Regiomontanus), XX, a b 354; (Time), XXIII, b 419; (Trigonometry), a 597
Purbeck, Isle of (Dorset), VII, b 321; fauna (Distribution), VII, 246, *b* 247; rocks (Geology), X, a 314, a 316, a 317
—— Marble, XV, a b 536
PURCELL, Henry, composer, XX, b 118-20; (Drama), VII, a 378; (Handel), XI, *b* 389; (Music), XVII, a b 95, a b 97
PURCELL, John Baptist, archbishop, XX, b 891
PURCHAS, Samuel, compiler, XX, a 120; (Geography), X, b 164; (Hakluyt), XI, b 338; (Persia), XVIII, b 645, b 647
Purchase (Mechanics), XV, b 772-3
Purchaser, law (Inheritance), XIII, *a b* 84
Purchase system of British Army, II, a b 500, a 504
—— of Writs, XXIV, *b* 728
Purdue university (Indiana), XII, b 853; (La Fayette), XIV, a 202
Pure lyrists (Poetry), XIX, a b 276
—— mechanisms (Mechanics), XV, a 761-74
—— premiums (Insurance), XIII, b 179
—— strain (Mechanics), XV, a b 701, a 702; characteristic of, a b 702; conditions, b 702
Purgatives (Mercury), XVI, a 40
PURGATORY, Roman Catholic resort, XX, a 120-1; (England, Church of), VIII, b 336; (Eschatology), a b 475; (Fire), IX, a 202; (Genealogy), X, a 129 note; (Penance), XVIII, a 498
Purging-nut oil (Oils), XVII, a 765, b 767
PURI or Pooree, district, XX, a b 121; (Orissa), XVII, a *b* 869; town, XX, *b* 121
Purification, ceremony (Ablution), I, a b 52; (Lustration), XV, a b 71; (Parsis), XVIII, b 330, a 331; of temples (Terra-Cotta), XXIII, a 208; St. John's view of (Gospels), X, a b 737-8, b 739
—— process (Gas and Gas-Lighting) (Ill.), X, b 84-6; (Gutta-Percha), XI, a 303; (Petroleum), XVIII, b 890-1; (Water-Supply), XXIV, b 430-1
—— of the Blessed Virgin, feast (Carnival), V, b 107, a 109; (Mary), XV, b 598
Purifiers (Gas and Gas-Lighting) (Ill.), X, a 85-6
PURIM, feast, XX, b 121; (Esther), VIII, b 494, *b*. 495
Purists, literary school (Italy), XIII, b 524-5
Puritan, cutter (Yachting), XXIV, a 760
Puritanism (Abbot), I, *a b* 30; (Ainsworth), b 378-9; (Alleine), b 512, *a* 513; (Bancroft), III, b 266-7; (Cromwell), VI, b 528; (Drama), VII, b 370, b 374-5; (England), VIII, b 305, b 306, b 307, a b 308, b 310, a 311; (England, Church of), b 337-8; (English Literature), a b 372, b 375, a 376, b 377, *a* b 378; (Hindley), XI, b 747; (Hobbes), XII, b 33, a 34; (Hooker), a 155; (Howe), a 336-7; (Independents), XII, *b* 761-2, a b 764, a 765; (Knox), XIV, a 132; (Manchester), XV, *a* 472; (Massachusetts), a 622; (Milton), XVI, b 342, b 351; (Novatianus), XVII, b 618; (Parker), XVIII, b 305; (Parliament, a 313; (Presbyterianism), XIX, a b 705-6; (Renaissance), XX, b 405; (Unitarianism), XXIII, a 774 note; (Wheelwright), XXIV, a b 893; Cambridge, IV, a 647; (Universities), XXIII, b 908; Moslem (Mohammedanism), XVI, a 617
Puritans, History of the (Neal), XVII, *a* 313
Purity (Ethics), VIII, b 519, b 520
—— of spectrum (Spectroscopy), XXII, b 387, a 388
Purkinje or Purkyne, Jan Evangelista, physiologist (Embryology), VIII, a 153; (Slavs), XXII, a 163; his cells (Physiology), XIX, *a* 44
Purley Lodge (Tooke), XXIII, b 473, a 474
Purlieu, district (Forests), IX, a 361
Púrná, river (Akolá), I, b 387
Purnábhábá river (Maldah); XV, *a* 330
PURNIAH, district, XX, b 121-2
PURNIAH, town, XX, a 122
Purohita, priest (Caste), V, b 165
PURPLE, color, XX, a 122; (Dyeing), VII, a 493, b 500; (Phœnicia), XVIII, b 817, b 818, note; (Tarentum), XXIII, b 67
Purple Book of Bruges (Sea Laws), XXI, a b 611
—— Emperor, species (Butterflies), IV, a 529, a 530
—— forbidden-city (Peking), XVIII, b 480, a 481
Purple Island, poem (Fletcher, P.), IX, *b* 266
Purple ore (Copper), VI, a 311; (Iron), XIII, b 291, b 294
Purposive action (Psychology), XX, a b 77-8
Purpesture, offence (Forests), IX, b 360
PURPURA, disease, XX, a b 122
——, genus (Mollusca) (Ill.), XVI, b 673, a 676
Purpureo-cobaltic chloride (Chemistry), V, b 466
Purpurin, dye (Calico-Printing), IV, a 609
PURSLANE, plant, XX, b 122
Pursuivants, in Heraldry, XI, a 612
Purusha, deity (Brahmanism), IV, a 183, a 184, b 188; (Mythology), XVII, *b* 163; (Vedanta), XXIV, b 130
Pûrva-Mîmâmsâ (Sanskrit), XXI, b 303-4
Pûrvârchâka, tune book (Sanskrit), XXI, b 290
Purvey, John, reformer (Lollards), XIV, a b 820; (English Bible), VIII, a b 343; (Wycliffe), XXIV, a 746
Purveyance, an extorted gratuity (Agriculture), I, b 262; (Finance), IX, b 155; (Prerogative), XIX, b 692; (Sale), XXI, b 219
Purveyors (Monopoly), XVI, b 784
Purwakarta, town (Java), XIII, b 616
Purworedjo, town (Java), XIII, b 617, note
Pus, formation of (Pathology) (Ill.), XVIII, b 370; (Surgery), XXII, a b 717; hæmatoblastic origin of (Pathology), XVIII, b 410; disintegration, a 399; of inflammation, b 409, a 410
PUSEY, Edward Bouverie, theologian, XX, b 122-4; (Daniel), VI, b 708, b 709, a 710; (Hosea), XII, b 309 note, b 310, b 311; (Rationalism), XX, a b 303
Pushan, deity (Brahmanism), IV, b 187
Pushkaram, festival (Godávari), X, b 636
Pushkin. See Poushkin
Pusht-i-Voh, mountains (Luristan), XV, *a* 70
Pushtû or Pukhtu language (Afghânistân), I, b 213, a 214; (Dictionary), VII, a 166
Püspökfürdö, spa (Grosswardein), XI, a 189
Pussly, plant. See PURSLANE
Puss-moth (Butterflies), IV, b 528
PUSTULE, malignant disease, XX, a 124
Putamen or stone (Botany), IV, b 137
Puteaux, town (Seine), XXI, b 655
Puteo, Paris de, jurist (Torture), XXIII, a b 496, note
Puteolanus pulvis (Rome), XX, b 825
Puteoli, town (Pozzuoli), XIX, a b 671; (Rome), XX, a 770, note
Putnam, Fort (Hudson), XII, b 345
PUTNAM, George Palmer, publisher, XX, b 891
PUTNAM, Israel, general, XX, b 891-2; XXIII, b 839; (United States), b 789, a 791
PUTNAM, Rufus, soldier, XX, a 892
PUTNEY, suburb, XX, a b 124; (London), XIV, a b 831, *b* 832; Bridge (London), *b* 832; Heath, common (London), b 833, b 861
Putorius, genus (Mammalia), XV, a b 447; (Mink), XVI, b 496; (Polecat), XIX, a b 344; (Weasel), XXIV, b 488; (Zoology), b 923
Putrefaction (Antiseptics), II, b 119; (Drowning), VII, a 410; (Fermentation), IX, a b 83, a 86; (Schizomycetes), XXI, b 416, a 417, b 424; (Surgery), XXII, a b 714, a 718
Putrid fever (Typhus), XXIII, b 718
—— Sea or Sivash (Azoff), III, a 147; (Black Sea), b 691; (Crimea), VI, a b 518
Puttalam, town (Ceylon), V, *a* 313, a 314
Putte, Samuel Van de, traveller (Geography), X, a 168; (Lhasa), XIV, b 502
Puttenham, George, poet (Ballads), III, a 246; (English Language), VIII, *a b* 358
"Puttock," bird (Buzzard), IV, b 536
PUTTY, cement, XX, b 124
Puy, society (Music), XVII, a 91 note
Puyallup, river (Washington), XXIV, a 406, b 407
PUY, Le, or Le Puy en Velay, town, XX, b 124-5
PUY DE DOME, department, XX, a 125-6; mountains (France), IX, b 445
—— de Pariou (Puy de Dôme), XX, b 125
——-de-Saucy, mountain (France), IX, b 445; (Mont-Dore-les-Bains), XVI, b 804; (Puy de Dôme), XX, *b* 125

Puynipet, island (Caroline Islands), V, a b 111
Puységur, de, Armand Marie Jacques de Chastenet, marquis (Magnetism, Animal), XV, b 280
Pu-zwon-doung, creek (Rangoon Town), XX, b 283–4
Puzzle jug (Pottery and Porcelain), XIX, a 652
Puzzolano. See Pozzuolano
Pwelheli, village (Carnarvon), V, *b* 105
Pyæmia, disease (Pathology), XVIII, a 411; (Septicæmia), XXI, a 699; (Surgery), XXII, b 712–4, b 716
PYATIGORSK, town, XX, a b 126; (Terek), XXIII, b 202, *a* 203
Pycnides, organs (Lichens) (Ill.), XIV, a 557, a 559; (Reproduction), XX, a 437
Pycnite (Mineralogy), XVI, a 426
Pycnodontidæ, family (Ichthyology), XII, b 725
Pycnodontoidei, sub-order (Ichthyology), XII, b 725
Pycnogonidea, order (Arachnida) (Ill.), II, *b* 239, b 242–3, b 247, b 258
Pycnogonida, entozoon (Parasitism), XVIII, b 263, b 267
Pycnogonum, genus (Arachnida) (Ill.), II, a 243
Pycnotrop (Mineralogy), XVI, b 431
Pydna, battle of, 168 B.C. (Greece), XI, a 97; (Paulus), XVIII, b 446
Pye, Henry James, poet (D'Israeli, Isaac), VII, a 226
Pye-book (Index), XII, a 767, note
PYGMALION, myth, XX, b 126
PYGMIES, dwarfs, XX, b 126–7
Pygobranchia, sub-order (Mollusca), XVI, a 680
Pygopodes, group (Ornithology), XVIII, a 49
Pygopodidæ, family (Lizard), XIV, b 739
Pygostyle bone (Birds), III, b 623
Pyhajarvi, lake (Finland), IX, b 188
Pylæ Ciliciæ. See Cilician Gates
Pylæmenes, kings (Paphlagonia), XVIII, b 231
Pylagoros, officer (Amphictyony), I, b 678
Pylangium of heart (Amphibia), I, b 669, b 670–1
Pylas, king of Tyre (Phœnicia), XVIII, a 821
Pyloric valve (Digestive Organs), VII, a 196
Pylorus, orifice (Digestive Organs), VII, a b 195; (Nutrition), XVII, b 687, b 689, b 692–5; (Stomach), XXII, b 604
Pylus, town (Elis), VIII, b 130
PYM, John, statesman, XX, a 127–8; (Charles I. of England), V, b 351, *a b* 352; (Hampden), XI, *a b* 383
——, Sir William, physician (Quarantine), XX, b 160 note, b 164
Pynchon, John, founder, XX, a 892
PYNCHON, William, founder, XX, a 892
Pynsent, Sir William, hero worshipper (Chatham, Earl of), V, a 382
Pynson, Richard, printer (Typography), XXIII, b 738
Pyralidæ, family (Insects), XIII, b 157–8
Pyralidina, group (Butterflies and Moths) (Ill.), (Plate XXXI), IV, a 531
Pyrallolite (Mineralogy), XVI, b 32
Pyrame et Thisbe, tragedy (Viau), XXIV, b 225, a 226
Pyramid (Mensuration), XVI, b 27–8; (Mineralogy), a 369, a 370–1, b 374; drawing a (Projection), XIX, b 825; volume of (Geometry), X, b 345–6
PYRAMID, structure, XX, a 128–30
  architecture, a b 129
  assimilated forms, b 130
  definition, a b 128
  descriptive list, b 129–30
  inscriptions and tools, b 130
  types, b 128–9
—— (Architecture) (Ill.), II, a 337–9; (Busiris), IV, a 514; (Chazelles), V, a 394; (Cheops), b 505, a 506; (Chephren), a 506; (Combaconum), VI, a 160; (Egypt), VII, b 623, a 626, a b 634, a b 635, note, a b 636, *b* 668, a 669–71; (Greaves), XI, *a* 72; (Mexico), XVI, b 219, a 220, b 222; (Yucatan), XXIV, *a* 797; sepulchral (Rome), XX, b 852
—— lake (California), IV, b 618; (Nevada), XVII, b 376
Pyramids, game (Billiards), III, a 585
——, battle of the, 1798 (Egypt), VII, a 659
——, encephalic (Anatomy), I, *a b* 764, a 765
Pyramid tree training (Horticulture) (Ill.), XII, b 247–8, b 249–50, a b 251
Pyramus river (Asia Minor), II, b 619; (Cappadocia), V, b 67; (Cilicia), a 679
Pyramus and Thisbe (Drama), VII, b 366
Pyranga, genus (Birds), III, a 651; (Tanager), XXIII, a 50
Pyrard de la Val, François, adventurer (Maldive Islands), XV, b 330, a b 332, a b 333, b 334
Pyrargillite (Mineralogy), XVI, b 394, a 436
Pyrargyrite (Mineralogy) (Ill.), XVI, a 411
Pyrenean ore (Iron), XIII, a 293
PYRENEES, mountains, XX, b 130–2; (Caucasus), V, b 219–20; (Europe), VIII, b 600; (France), IX, b 445; (Gers), X, b 490; (Navarra), XVII, a 256; (Salt), XXI, a 242; (Spain), XXII, b 307, b 309, *a* 310, a 311; combats in (Wellington), XXIV, b 524; peace of the, 1659 (Turenne), XXIII, a 667
PYRÉNÉES, BASSES, department, XX, a 132–3
PYRÉNÉES, HAUTES-, department, XX, a b 133
PYRÉNÉES-ORIENTALES, department, XX, b 133–4
Pyreneos, mountains (Brazil), IV, a b 200, a 201
Pyrenocarpei, tribe (Lichens), XIV, b 557, b 559, a b 565, a b 566
Pyrenodei, series (Lichens), XIV, a b 565
Pyrenomycetes, sub-order (Fungus), IX, a b 733; (Parasitism) (Ill.), XVIII, a b 272; (Vegetable Kingdom), XXIV, *a* 139; (Vine), *b* 258
Pyrethrum, plants (Horticulture), XII, a 255, b 259, b 267
Pyrgia, genus (Coral) (Ill.), VI, b 334, b 337
Pyrgos, town (Bourgas), IV, a 160; (Olympia), XVII, *a* 787; Aqueduct of (Plate III), II, a 193
Pyrgoteles, engraver (Archæology), II, a 317; (Gems), X, b 124, *a* 125
Pyriform cells (Anatomy), I, b 755
PYRITES, mineral, XX, b 134–5; (Cobalt), VI, *a* 76, a 77; (Copper), b 308, b 310, a b 311, a 312; (Copperas), b 312–3; (Cretinism), b 507; (Gold), X, *b* 660, a 666, b 669; (Huelva), XII, b 347, *a* 348; (Ireland), XIII, a 224; (Iron), b 286, b 291, b 294, a 295, b 297; (Marcasite), XV, a b 539; (Metallurgy), XVI, a 66, a 67; (Mineralogy), a 367, a b 368, a 382, a 383, a b 386, a 388, b 394, b 406; (Silver), XXII, b 77; (Sulphur), b 668, b 669; (Thallium), XXIII, b 237, a 238; (Tin), a 427; magnetic (Iron), XIII, a b 286; (Mineralogy) (Ill.), XVI, a 392, a 407; in mine water (Irrigation), XIII, a 374. See Cobaltspath
Pyrmont, principality (Waldeck-Pyrmont), XXIV, *a b* 342
——, suburb (Sydney), XXII, a 847
Pyroaurite (Mineralogy), XVI, a 404
Pyrocatechin, chemical product (Physiology), XIX, a 58; (Tar), XXIII, *a* 63
Pyrochlore (Mineralogy) (Ill.), XVI, a 392, a 445
Pyrochroite (Mineralogy), XVI, a 404
Pyro-Electricity, VIII, b 8–9, b 92–3; (Haüy), XI, b 467; (Mineralogy), XVI, a b 391; (Topaz), XXIII, b 474
Pyrogallic acid (Chemistry), V, b 489; (Leather), XIV, a b 381
Pyroguaiacin, drug (Guaiacum), XI, a 205
Pyrola, plant (Botany), IV, b 124, a 130
Pyroligneous acid (Tar), XXIII, b 62, a 63
Pyrolusite (Mineralogy), XVI, b 394, a 403; (Manganese), XV, b 486, *a* 487
PYROMETER (Ill.), XX, a 135–41
  calorimetric method, b 138–9
  constant pressure method (Ill.), b 136–7
  continuous intrinsic thermoscopes (Ill.), a 139–40
  discontinuous intrinsic thermoscopes, a b 138
  divergence of high measurements, b 140
  electric methods (Ill.), b 139–40
  gas pyrometry, b 135–8
  history, a b 135
  manometric gas thermometer (Ill.), b 137–8
  mercury and iodine vapors, a b 137
  numerical results, methods of reaching, b 135
—— (Encaustic Tiles), VIII, b 172; (Iron), XIII, b 311–2; (Musschenbroek), XVII, b 116
Pyrometrie (Lambert, Johann), XIV, a 237
Pyromorphite (Mineralogy) (Ill.), XVI, a 386, b 424; (Phosphorus), XVIII, a 831
Pyronema, plant (Reproduction), XX, *b* 438, *a* 439
Pyrope, mineral (Garnet), X, *a* 74; (Mineralogy), XVI, b 428–9
Pyrophorus, genus (Insects), XIII, b 149
Pyrophosphate of soda (Clark), V, b 707
Pyrophosphoric acid (Chemistry), V, a 449, *a* b 450
Pyrophyllite (Mineralogy), XVI, a 443
Pyrophysalite (Mineralogy), XVI, a 426
Pyropissite (Mineralogy), XVI, b 447; (Paraffin), XVIII, b 247
Pyroretinite (Mineralogy), XVI, a 447
Pyrorthite (Mineralogy), XVI, b 427
Pyroschists (Geology), X, a 213
Pyrosclerite (Mineralogy), XVI, b 431
Pyro-silvered Iron, XIII, b 367
Pyrosmalite (Mineralogy), XVI, a 431
Pyrosoma, ascidian (Phosphorescence), XVIII, b 826; (Tunicata) (Ill.), XXIII, b 657–8
Pyrostilpnite (Mineralogy), XVI, b 412
PYROTECHNY, XX, a 141–3; (Mineralogy), XVI, a 415, a 417; (Potassium), XIX, b 608, a 609
Pyroxene (Mineralogy) (Ill.), XVI, b 384, b 433
Pyroxilin (Chemistry), V, a 490; (Collodion), VI, a 134; (Gun-Cotton), XI, b 245; (Shooting), XXI, a b 874, note
Pyrrha, myth (Deucalion), VII, *a* 116
——, town (Lesbos), XIV, b 474
Pyrrhite (Mineralogy), XVI, a 445

- Pyrrho of Elis, philosopher and Pyrrhonism (Pascal), XVIII, b 341, b 342; (Scepticism), XXI, b 396
- Pyrrhocorax, genus (Crow), VI, b 545
- Pyrrhotite (Mineralogy) (Ill.), XVI, a 407
- Pyrrhula, bird (Finch), IX, b 167
- PYRRHUS of Epirus, king, XX, a b 143; (Carthage), V, a 141; (Numismatics), XVII, a 655, a 658; (Rome), XX, b 762–3; (Sicily), XXII, a 26
- Pyrula, genus (Mollusca) (Ill.), XVI, a b 673, a b 674
- Pyrus, tree (Apple), II, a 185; (Arboriculture), a 279, a 281, b 282; (Horticulture), XII, a 279, b 284, a 287; (Pear), XVIII, b 456, à 457; (Quince), XX, b 188
- Pyruvic acids (Chemistry), V, b 494
- PYTHAGORAS and PYTHAGOREANS, XX, b 143–9
  - biography, b 143–4
  - geometry, a 146–9
  - philosophy of, b 144–6

——— (Archytas), II, b 420; (Aristoxenus), a 460; (Astronomy), b 652–3; (Carmelites), V, a 103; (Category), a 194, note; (Confucius), VI, b 233; (Crotona), a 544; (Druidism), VII, *a* 413; (Epicharmus), VIII, *b* 418; (Essenes), *a* 487; (Ethics), b 507; (Evolution), b 661, note; (Gems), X, a b 124; (Magic), XV, b 203; (Metapontum), XVI, a 108; (Metempsychosis), b 111–2; (Music), XVII, b 84 note, a 86; (Orpheus), XVIII, a 55; (Philolaus), b 778; (Philosophy), a 805; (Phrenology), a 857; (Physiognomy), XIX, b 7; (Sicily), XXII, a 24; theorem of (Euclid), VIII, b 575; (Geometry), X, a 337, b 343

- ——— of Rhegium, sculptor (Archæology), II, b 307, a 310
- ———, tyrant, Sicily (Selinus), XXI, a 665
- Pythagorean triangles (Tables), XXIII, b 18
- ——— tetrachord (Zarlino), XXIV, b 809
- PYTHEAS of Massilia, navigator, XX, a 149–50; (Astronomy), II, b 653; (Denmark), VII, a 74; (Geography), X, b 157, a 158; (Thule), XXIII, *b* 349
- Pythia, priestess (Oracle), XVII, a 832
- Pythian Games, X, a 59; (Greece), XI, b 88; (Laurel), XIV, b 349
- *Pythian Responses, On the* (Plutarch), XIX, a 246
- Pythias, character (Damon), VI, b 700
- ———, goldsmith (Plate), XIX, b 191, a 192
- Pythium, temple (Athens), III, a 4
- Pythium, fungus (Potato), XIX, b 614
- Pythmen, factor (Numerals), XVII, a 641
- Pythogenic fever (Typhus), XXIII, b 720
- PYTHON, snake (Ill.), XX, b 150–1; (Assam), II, b 630; (Cochin China), VI, a 87; (Natal), XVII, a 247; (Reptiles) (Ill.), XX, b 458, *b* 461, a 464, a 467, a b 470, a 472, a b 482
- Pythoness, legend of (Heraclides), XI, a 607; (Hercules), a b 649
- Pythonidæ, family (Snakes), XXII, a 204
- "Pyx, trial of the." See Trial of the pyx
- Pyxicola, genus (Protozoa) (Ill.), XIX, b 885, a 888
- Pyxidium, organ (Botany), IV, b 138

- Q, letter, XX, a b 151; (K), XIII, b 819
- ———, Tables involving (Tables), XXIII, a 19
- Qasîdehs, odes (Hamasah), XI, b 359, a 360
- Qat, god (Mythology), XVII, *a* 155
- Qinbill, drug (Kamala), XIII, a 840
- Qua river (Calabar), IV, *a* b 576
- Quaben, town (Gaboon), X, *a* 5
- Quader sandstein (Geology), X, a 319
- Quadi, tribes (Aurelius), III, b 76; (Austria), a 108; (Valentinian I.), XXIV, b 42
- Quadragesima, feast (Lent), XIV, a 447
- Quadrangular Bells, III, a 463
- Quadrant, instrument (Graduation), XI, b 25, a b 26; (Gunter), b 295; (Navigation) (Ill.), XVII, a 261, b 262, a b 264, b 266, a 275; (Time), XXIII, b 419; of altitude (Globe), X, b 610; meridian (Earth), VII, b 525; origin of (Transit Circle), XXIII, b 547
- ———, condensing (Lighthouse) (Ill.), XIV, a 630
- Quadrate bone (Amphibia), I, b 661, b 664, a b 665, a 666, *b* 667
- Quadratic equations (Algebra), I, b 474, b 477–80; (Projection), XIX, b 820; problems of (Geometry), X, b 343
- ——— forms (Numbers), XVII, b 634–6, a 639; (Smith), XXII, b 182–3
- ——— reciprocity, law of (Legendre), XIV, a b 414
- ——— residues (Numbers), XVII, b 633–4
- ——— surds (Algebra), I, a 472
- *Quadratorum, Liber* (Pisanus), XIX, a b 134
- Quadratrix, curve (Pappus), XVIII, b 234
- Quadrature of Circle. See SQUARING OF THE CIRCLE
- ——— of curves (Gregory, James), XI, a 163; (Huygens), XII, b 431; (Infinitesimal Calculus), XIII, a 7, a 8, b 36
- ———, method of (Infinitesimal Calculus), XIII, a 7
- ——— of the Moon, XVI, a 826; (Astronomy), II, b 697; (Gravitation), XI, b 68
- ——— of the parabola (Conic Sections), VI, a 242
- ——— of surfaces (Infinitesimal Calculus), XIII, a 60–1
- Quadratus, proconsul (Polycarp), XIX, a 429
- Quadric Curve, VI, a b 633
- ——— cone (Geometry), X, a 366
- ——— functions of position (Quaternions), XX, b 170
- ——— surface (Geometry), X, a 364–5, a 376–7; defined (Surface), XXII, *a* b 704, b 705, *a* 706; ruled (Geometry), X, b 363, a 364, a 365
- Quadrilateral (Mensuration), XVI, b 19–20; complete (Geometry), X, a 350, b 353, *a* b 356; hyperbola inscribed (Geometry), b 359; skew (Geometry), b 374
- QUADRILATERAL forts, XX, b 151; (France), IX, b 549
- Quadriradiate spicules (Sponges) (Ill.), XXII, *a* b 432, a 433, a 434
- Quadrivium, course of study (Boetius), III, b 744; (Pythagoras), XX, a 149; (Universities), XXIII, b 889 note
- Quadrumana, group (Acclimatization), I, a 81; (Africa), a 231–2; (America), I, b 598; (Ape), II, a b 130; (Mammalia), XV, a 451; (Negro), XVII, a 326, note; (Smell), XXII, a 177
- Quadruplane (Diagrams), VII, a 131
- Quadruple Alliance, 1718, I, a 515; (Alberoni), b 398; (France), IX, a 515; (Spain), XXII, *b* 351, a 352; (Talleyrand), XXIII, b 37
- ——— expansion engines (Steam-Engine), XXII, b 516–7, a 546
- Quadruple Treaty, 1834 (Clarendon), V, b 705
- Quadruplex working (Telegraph), XXIII, a b 133, a 930
- Quærne, vortex (Whirlpool), XXIV, a b 572
- *Quæstiones ac Monita* (Roman Law), XX, a 735
- ——— *et Solutiones* (Philo), XVIII, a 776
- ——— *Medico-legales* (Medical Jurisprudence), XV, a 793
- QUÆSTOR, magistrate, XX, b 151–2; (Roman Law), a 696; (Rome), a 757, note, b 780, notes; imperial (Rome), a 790; Italian, b 152
- QUAGGA, animal (Ill.), XX, b 152–3; (Africa), I, a 232; (Dauw), VI, a 735; (Horse), XII, a b 179; (Zebra), XXIV, *b* 810, a 811
- QUAIL, bird, XX, a 153–4; (California), IV, b 623
- Quail-hawk (Kestrel), XIV, a 56
- Quai Mehemet Ali (Ismailia), XIII, a 398
- Quain's *Anatomy*, I, b 716
- QUAKERS, sect, XX, a 154–9
  - America, a 158–9
  - bibliography, b 159
  - continental Europe, a 159
  - discipline, a b 157

QUAKERS, *continued*
  - doctrine, a 156–7
  - Fox period, a b 154
  - history, a 154–6
  - organization period, b 154–5
  - philanthropy, b 157–8
  - political status, a b 155
  - Scotland and Ireland, a 158
  - statistics, a b 159, note
  - traditional period, b 155–6
- QUAKERS IN THE UNITED STATES, XX, a 892–3

——— (Boehme), III, a 742; (Bunyan), IV, b 472; (Darlington), VI, b 728; (Fox), IX, a 442 note; (Hicks), XI, a 706; (Ireland), XIII, a 274; (Mysticism), XVII, a 142; (New Jersey), *b* 408; (New York), b 473; Penn, XVIII, a 503–4, a 505, b 506, b 507; (Slavery), XXII, b 147, a *b* 908

- Quality (Locke), XIV, b 767; (Hamilton, Sir W.), XI, a 373, a 374
- ——— of tone (Music), XVII, a 112
- *Qual Maniera si*, etc., treatises (Valdes), XXIV, b 38
- Quan, bird (Guan), XI, a 206, note
- Quandang Nut, XVII, b 683
- Quang Duk, town. See HUÉ
- *Quanta cura* (Pius IX.), XIX, a 168
- QUANTAMPOH, town, XX, b 159
- Quantification of the predicate (Hamilton, Sir W.), XI, *a* b 375
- Quantity, Electric, VIII, b 17–8
- ———, idea of (Hamilton, Sir W.), XI, a 373, a 374; (Logic), XIV, a b 810
- ——— in Mathematics, XV, a b 637; Cayley's and Klein's theory of (Measurement), XV, b 671–4
- ——— in Old Latin (Romance Languages), XX, b 681
- Quantock range (Somerset), XXII, *a* 271
- Quantz, Johann Joachim, flutist (Transverse Flute), XXIII, *a* b 553, note
- Quanza river. See COANZA
- Quaqua coast (Ivory Coast), XIII, a 535
- QUARANTINE, XX, b 159–65
  - Europe, continental, a 160–1
  - history, a b 164
  - land, a 161
  - literature, b 164–5
  - principles, b 162–4
    - cholera, b 163–4
    - plague, small-pox, b 162
    - yellow fever, b 162–3
  - Red Sea and Suez, b 161–2
  - United Kingdom, b 159–60
  - Western Hemisphere, a b 161

——— (Flag), IX, a 244; (Medicine), XV, b 807, a 808; (New York), XVII, b 895; (Plague), XIX, *a* b 173–4, b 175, a b 176, a 177. See Public Health, Sanitary

- ———, Cattle, XX, a 165
- ———, Widow's, XX, a 165

Quarantine Bay (Sebastopol), XXI, a 647
QUARE IMPEDIT, law-term, XX, a 165
QUARLES, Francis, poet, XX, b 165
Quarnholm, island (Calmar), IV, b 628
Quarrelton, district (Coal), VI, a 51
Quarries (Blasting), III, b 701; (Coal), VI, b 58; (Egypt), VII, a 671, a b 679, a 680; (France), IX, b 461; (Rome), XX, b 825, *a b* 826; (Seine), XXI, b 655; (Slate), XXII, *a b* 136; (Vermont), XXIV, a 181, a 182; water (Geology), X, a 233; working (Geology), *a* 263; (Mining), XVI, b 474-5
Quartan fever (Pathology), XVIII, a 404, a 405
Quartation (Assaying), II, b 634; (Gold), X, b 666
Quarter, the (Heraldry) (Ill.), XI, b 620, a b 630–1, a 632
—— Clocks, VI, a b 24, a b 29
Quarterlies (Periodicals), XVIII, b 546-7, a 549; (American Journalism), XVII, b 892-3
Quarterly meeting (Methodism), XVI, b 195, a 197, b 198, a 200
Quarterly Review (Croker, J. W.), VI, b 526; (Gifford), X, a 527; (Lockhart), XIV, b 770; (Periodicals), XVIII, a 547; (Wilson), XXIV, b 623, a 624
Quartermaster-General, British (Army), II, a 502, *a* 506
Quarteroon, hybrid (Negro), XVII, a 329, note
QUARTER SESSIONS, court, XX, b 165-6; (Criminal Law), VI, a 521
Quarter-Square (Tables), XXIII, a b 12
Quartic Curve, VI, a 637, *b* 639
—— Surface, XXII, b 704
Quartier Latin, district (Paris), XVIII, b 286
Quartodecimani, sect (Calendar), IV, a 593; (Easter), VII, *b* 531-2; (Good Friday), X, a 689
Quart Pierre, town (Kharput), XIV, b 59
QUARTZ, mineral, XX, b 166; (Aravalli Hills), II, b 272; (Geology), X, a 203, a b 212; (Granite), XI, *a b* 44, a 45; (Heliotrope), a 566; (Hone), XII, a 138; (India), a b 804; (Jasper), XIII, b 606, a 607; (Mineralogy) (Ill.), XVI, b 367, b 371, a 377, b 383, b 384, a 386, b 387, b 388, b 390, a 391, *b* 392, a 393, a b 394, b 404-5; (Western Australia), XXIV, b 535; mining (California), IV, a 622; porphyry (Geology), X, a b 208; rose (Mineralogy), XVI, b 387; trachyte (Geology), X, b 208–9
—— rotation (Wave Theory), XXIV, b 476-7
—— vein, Mother lode or Great (California), IV, a 622
Quary, Col., judge (Penn), XVIII, b 507
Quass, liquor (Larch), XIV, a 311
Quassaic, parish (Newburg), XVII, b 384
QUASSIA, plant, XX, b 166-7
Quaternary Caves, V, a 232; formations (Geology), X, b 324-9; (Russia), XXI, a 82; fossils (Reptiles), XX, a 480; (Zoology), XXIV, b 926; man (Anthropology), II, b 102-3; (Archæology), b 291, a 294
QUATERNIONS, XX, a 167–71
  definition, a 167
  Grassman and contemporaries, b 169-70
  Hamilton, a 168-9
  history of method, a 167-8
  science, relations to, a b 170
  treatises, b 170–1
—— (Algebra), I, a 451–8; *Elements of* (Hamilton, Sir W. R.), XI, a b 377
Quatorzes in play (Piquet), XIX, b 123
Quatre Bras, battle of, 1815 (Napoleon), XVII, b 230; (Wellington), XXIV, a 525
Quatrefages de Breau, Jean Louis Armand de, naturalist (Anthropology), II, *a* 101; (Teredo), XXIII, b 201, *a b* 202
QUATREMÈRE, Étienne Marc, orientalist, XX, a 171; (Tabarí), XXIII, *a* 9
Quattro Tempora, fasts (Cardinal), V, b 86
Quawteaht, myth (Mythology), XVII, b 155
Quays (Harbors and Docks) (Plates VIII, X) (Ill.), XI, a 407, b 413, b 418; (Nice), XVII, b 493; walls of (Harbors and Docks), XI, b 419-20; (Rome), XX, a 833, note
QUEBEC, province (Plate II), XX, a 171-4; (Canada), IV, a b 676, b 677, a b 678, b 679, a 680–1, a b 685, a 686, *a* 689, b 690; (Tithes), XXIII, b 440 note; trade of (Canada), IV, 689
QUEBEC, city (Maps), XX, a 174-6; (Canada), IV, b 675, a 676, b 677, a 684, *b* 686, a 687; (St. Lawrence), XXI, b 190-1; capture of, 1759 (United States), XXIII, a 783; (Wolfe), XXIV, a b 664; settlement of (Champlain), V, a 336
—— Act, 1774 (Canada), IV, b 675; (United States), XXIII, *b* 787
Quebedo, Vasco Mousinho de, poet (Portugal), XIX, a 572
Quebracho wood (Leather), XIV, a 382
Quedah or Keda. See MALAY PENINSULA, XV, 325
QUEDLINBURG, town, XX, a 176
Queen, carved figure (Chess), V, b 514, b 515, b 521
——, hymenopterous (Ant), II, b 84, b 88; Bee, III, a *b* 418, b 421; (Hymenoptera), XII, a 609; (Reproduction), XX, b 423; cells (Bee), III, *a* b 425; impregnation of (Bee), b 425-6; length of life of (Bee), b 428; metamorphosis of (Bee), a 427; mutilation of (Bee), b 429-30; providing a (Bee), a b 429; rivalship of (Bee), a b 427
——, title of Honor in Great Britain, XXIII, *b* 445, note; her communications with her guardians (Parliament), XVIII, b 317, a b 318; a magnate in Egypt, VII, a 619, b 634
Queen Adelaide Archipelago (Patagonia), XVIII, a 357
QUEEN ANNE'S BOUNTY, XX, a b 176; (Annates), II, b 55; (Dilapidations), VII, a 209; (Ecclesiastical Commission), b 542; (Prerogative), XIX, b 692
QUEEN CHARLOTTE ISLANDS, XX, b 176–7; (Totemism), XXIII, a 499
Queengold, tribute (Warwick), XXIV, b 401
Queenhithe, market (London), XIV, a 838, a 840
Queen Mab, poem (Shelley), XXI, a 828, *b* 830
"Queen Mary" (Horse), XII, b 189
Queen of Arragon, poem (Habington), XI, *b* 321
Queen of the Hebrides (Islay), XIII, b 397
Queen's Bench, court of, III, a 480; (Records), XX, b 324
Queensberry, mountain (Dumfries), VII, a 454
——, Charles Douglas, duke of (Gay, J.), X, a 108
QUEENSBERRY, James Douglas, duke of, pensioner, XX, a 177
——, William Douglas, duke of (Scotland), XXI, *a* b 539, b 540
—— rules (Wrestling and Boxing), XXIV, b 726
Queen's College, Benares, III, b 479
—— College, Cambridge, IV, b 646; (Libraries), XIV, b 519, a 543
—— College (Cork), VI, a 360
—— College, London (Maurice), XV, a b 645
—— College (Oxford), XVIII, a 101; (Wycliffe), XXIV, b 744, note
QUEEN'S COUNTY, Ireland, XX, a b 177
Queen's English, The (Alford, Henry), I, b 446
QUEENSLAND (Plate III), XX, b 177–82
  agriculture, b 179–80
  climate, b 178
  flora and fauna, a b 180
  geology, b 178-9
  history, b 181–2
  industrial features, b 180-1
  minerals, b 179
  physical features, b 177–8
  political features, a b 181
—— (Australia), III, b 99, a 100; (Coal), VI, b 56; (Gold), X, a *b* 662; (Mining), XVI, b 493; (Opal), XVII, b 799; (Railway), XX, a 264
Queen's Manor (West Ham), XXIV, b 538
Queens of England, Lives of (Strickland), XXII, a 639
Queen's printer (Press Laws), XIX, b 730 note
—— proctor (Solicitor), XXII, b 264
Queen stock, flowers (Horticulture), XII, a b 256
Queen's Square (London), XIV, a 861
QUEENSTOWN, Ireland, town, XX, a 182
——, Canada (St. Lawrence), XXI, a 189
——, suburb (Willesden), XXIV, *b* 606
Queen's University (Ireland), XIII, b 247
Queen's Wake, poem (Hogg), XII, a b 53
Queen Victoria Street (London), XIV, *b* 831, a 832
"Que estate," law-term (Prescription), XIX, b 724, a 725
Queipo, meteorologist (Weights and Measures), XXIV, a 508, *a* 511
Quellin or Quellyn, John Erasmus, painter (Teniers), XXIII, b 190; (Fyt), IX, *b* 752
Quelpart isle (Corea), VI, a 347
Quenaudon, Madame Thérèse (Piron), XIX, b 127
Quenstedt, F. A. von (Crystallography), VI, a 598
——, Johann Andreas, theologian (Inspiration), XIII, b 163
Quental, Anthero do, poet (Portugal), XIX, b 573
——, Bartholomeo do, monk (Portugal), XIX, b 572
Quentel, Peter, printer (English Bible), VIII, a 344
Quercetan, Josephus, physician (Alchemy), I, a b 413; (Phrenology), XVIII, b 857 note
Quercia, Giacomo della, sculptor (Siena), XXII, b 49
Quercistannic acid (Oak), XVII, a 711; (Tannin), XXIII, a 53
Quercite, sugar (Oak), XVII, b 711
QUERCITRON, dye, XX, a b 182; (Oak), XVII, b 712-3; bark (Dyeing), VII, a 494, b 499
Quercus, genus (Oak), XVII, b 108
Querela inofficiosi testamenti (Roman Law), XX, a 715
Queres, tribes (Indians), XII, a 865, a 867; (Pueblo Indians), XX, b 888
QUERETARO, town, XX, b 182; state (Mexico), XVI, a 223, b 901, b 908, b 909, a 910
Querimba, islands (Mozambique), XVII, b 13
Quern, mill (Archæology), II, b 296; (Flour), IX, a 301
Querquedula, genus (Shoveller), XXI, b 882
Quesal, bird. See QUEZAL
Quesaltennago, volcano (Guatemala), XI, a 212
QUESNAY, François, economist, XX, b 182–4; (Mirabeau, V. R.) XVI, a 521; (Political Economy), XIX, *b* 372, *b* 373-4, *b* 382; (Smith, A.), XXII, b 179

QUESNEL, Pasquier, theologian, XX, a 184; (Jansenism), XIII, a 577; his *Codex Canonum* (Canon Law), IV, b 16
Quest du St. Graal (Map), XV, a 531
Quester, Matthew de, postmasters(Post-Office), XIX, *b* 578, a 579
Questiones Romanæ et Græcæ (Plutarch), XIX, b 246
Questions de droit administratif (Cormenin), VI, a 361
—— *of Milinda* (Lāmāism), XIV, a 228, note
Quetelet, Ernest, astronomer, XX, b 184 note
QUETELET, Lambert Adolph Jacques, astronomer, XX, a b 184; (Anthropology), II, b 99 100; (Giant), X, *a* 511; (Statistics), XXII, b 479-80, a 484; his theory of Probabilities(Ill.), XIX, a 793
QUETTA, valley and town, XX, b 184-5
Quetzalcoatl, god (Cholula), V, a 595; (Mexico), XVI, a 217, b 219; (Mythology), XVII, a 157; (Quezal), XX, a 186 note
Quetzalcohuatl, chief (America), I, b 618, a 619
QUEVEDO VILLEGAS, Francisco, satirist, XX, a 185-6
QUEZAL or Quesal, bird (Ill.), XX, a 186-7; (Guatemala), XI, a 213; (Honduras), XII, a 135
QUEZALTENANGO, town, XX, a 187
Quiabo, plant (Gumbo), XI, b 244
Quia Emptores, statute (Commons), VI, b 186; (Manor), XV, *a* 504; (Real Estate), XX, b 318
Quiberon, peninsula (Morbihan), XVI, a b 839; battle of, 1759 (France), IX, a 520
Quiché tribes (Dictionary), VII, a 168; (Mexico), XVI, a 215, a 216, a 222; (Yucatan), XXIV, a 798. See Maya race
Quicherat, Jules Étienne J., archæologist (Joan of Arc), XIII, *a* 708
Quichua Indians (Bolivia), IV, *b* 14; (Indians), XII, a b 865, a 868, a 869; (Peru), XVIII, b 689, a 690, a 693; (Religions), XX, a 377
—— language (America), I, b 614; (Dictionary), VII, a 168; (Peru), XVIII, a 690. See Maya and Maya-Quiché
Quick-hand traverse (Machine Tools), XV, a 155
Quicklime (Lime), XIV, b 653-4; flux (Iron), XIII, b 303
Quicksand drains (Agriculture), I, a 297
Quicksilver (Almaden), I, b 518; (America), b 597; (California), IV, b 622; (Carniola), V, a 107; (China), b 556, *a* 557; (Idria), XII, 737; (Mancha), XV, a 466; (Mercury), XVI, b 36, a 40; (Mexico), a 907, b 909; (Mining), a b 490, a b 492; (Sarawak), XXI, b 321; (Spain), XXII, *b* 315, a b 316; (United States), XXIII, b 851, a 864; product (United States, b 868-9, b 870. See MERCURY
Quicunque, creed. See Athanasian Creed
Quidditas, doctrine (Scholasticism), XXI, a 446, a 447
Quien Loch (Bute), IV, b 516
Quiersy-sur-Oise, diet of, 877 (France), IX, a 472
QUIETISM, experience, XX, a 187; (Bossuet), IV, b 63; (Eckhart), VII, b 557; (Fénelon, IX, a b 65; (Guyon), XI, a 305-7; (Luther), XV, b 82; (Methodism), XVI, a 194; (Molinos, b 653-4; (Mysticism), XVII, a 142
Quiétisme, Dialogue sur le (La Bruyere), XIV, b 178, a 179
Quieto, stream (Istria), XIII, a 443
Quignon, Francisco, cardinal (Breviary), IV, b 235
Quilca Mountain (Cavan), V, *b* 229
QUILIMANE, river and town, XX, a b 187; (Africa), I, a 242; (Mozambique), XVII, *b* 13; (Zambesi), XXIV, a 804
Quillay, tree (Chili), V, b 541; (Soap Bark), XXII, b 216
QUILLOTA, town, XX, b 187
Quills (Feathers), IX, *b* 53; for writing (Pen), XVIII, a 494
QUILON, town, XX, b 187; (Travancore), XXIII, b 558
Quimauve, plant (Mallow), XV, a 338
QUIMPER or Quimper Corentin, town, XX, b 187-8
Quinarius, coin (Numismatics), XVII, a 670
Quinary system (Ornithology), XVIII, b 18-20, a 22, b 36
QUINAULT, Philippe, dramatist, XX, a b 188; (Dance), VI, a 705; (Drama), VII, a 367, b 368, note
QUINCE, tree, XX, b 188-9; (Horticulture), XII, b 286
Quincey, de. See De Quincey
Quincke, George Hermann, physicist (Capillary Action), V, b 50, a b 52, a 56, a 57, b 63; (Electrolysis), VIII, *b* 104, b 107; his theory (Electrolysis), b 107
Quincuagenas de los Notables de España (Oviedo y Valdez), XVIII, a 88
Quincunx (Browne, Sir Thomas), IV, a 351; leaf-(Botany), a 106
QUINCY, Illinois, town, XX, a 189
QUINCY, Massachusetts, town, XX, a 189
QUINCY, Edmund, author, XX, a 189, note, b 893
QUINCY, Josiah, mayor, XX, b 189, note, b 893
QUINCY, Josiah, Jr., patriot, XX, a b 189; (United States), XXIII, b 786
Quindecagon, inscribed (Geometry), X, a 340
Quindiu, Cordillera of (Colombia), VI, b 137
QUINET, Edgar, critic, XX, b 189 91
Quinetum, drug (Quinine), XX, a 192
Qui-nhon, port (Cochin China), VI, a 86
Quinidine, drug (Cinchona), V, a *b* 683; (Quinine), XX, *b* 191, a b 192
QUININE, drug, XX, a 191-3; (Cinchona), V, *a* b 683; (Fever), IX, b 110-1; (India), XII, a b 789; (Malaria), XV, b 322; (Peru), XVIII, a 687
Quinisext council. See Council in Trullo
Quinn river (Nevada), XVII, b 376
Quinnat, fish (Gwyniad), XI, b 309
Quinones (Chemistry), V, b 487, a 489, a 497
—— de Benevente, dramatist (Spain), XXII, a 373
Quinquatrus, festival (Minerva), XVI, b 456
Quinquennial Prescriptions, XIX, b 726
Quin's Hydrometer, XII, b 571
Quinsy, inflammation (Throat Diseases), XXIII, b 341
Quintal, measure (France), IX, a 459
Quintaña, Juan de, confessor (Servetus), XXI, b 716
QUINTANA, Manuel José, XX, a b 193; (Spain), XXII, *a* 375
Quinté Bay (St. Lawrence), XXI, b 189
Quinteroon, hybrid (Negro), XVII, a 329, note
QUINTILIAN, Marcus Fabius, rhetorician, XX, b 193-5; (Afer), I, a 203; (Education), VII, b 582; (Encyclopædia), VIII, b 173-4; (Isocrates), XIII, b 402, b 403; (Juvenal), a 814; (Latin Language), XIV, a b 337, a 338; (Martial), XV, a b 586; (Rhetoric), XX, b 528-9; (Roman Literature), *b* 745; (Varro), XXIV, a b 102; (Vespasian), a 208
Quintinus, Caius, martyr (St. Quentin), XXI, b 206
Quinti-tube, instrument (Ophicleide), XVII, a 801
Quinton, instrument (Violin), XXIV, *a* 262
Quintus Curtius. See Curtius, Quintus Rufus
Quintus Icilius, Karl G. G. von, physicist (Electricity), VIII, a b 54, a 98; (Magnetism), XV, b 256
QUINTUS SMYRNÆUS or Calaber, poet, XX, a b 195; (Romance), b 653
Quinua, plant (Peru), XVIII, b 686, b 693
Quinzani, Stephano of Soncino, monk (Stigmatization), XXII, b 577
Quinze Joies du Mariage (France), IX, b 571
Quinze-Vingts, asylum (Paris), XVIII, a 288
Quipus, counting invention (America), I, a b 614, b 615
Quiraing mountain (Skye), XXII, a 135
Quires in books (Palæography), XVIII, a 149
Quirilha, river (Caucasus), V, a 221, a 224
Quirinal Hill (Rome), XX, *a* *b* 750, a 751, a *b* 831; palace (Rome), b 857
Quirinius, census of (Israel), XIII, b 436; (Jesus Christ), a 671
Quirinus, god (Mars), XV, *a* *b* 577; (Romulus), XX, b 862
Quirites, citizens (Cures), VI, a 627; (Roman Law), XX, b 686-7
Quiritium, Jus (Roman Law), XX, b 686, b 687, a 688, b 690, b 721
Quiros, Pedro Fernandez de, sailor (Geography), X, b 165-6; (Tahiti), XXIII, a 27, b 29
Quirotoa, mountain (Ecuador), VII, b 559
Quiscalus, genus (Grackle), XI, b 24-5
Quitman, Frederick Henry, divine, XX, b 893
QUITMAN, John Anthony, soldier, XX, b 893-4
QUITO, city XX, b 195; (Ecuador), VII, a 560, *a* 561, *a* *b* 562, *a* b 563; plain (Ecuador), b 558, a 559, a 561
Quit Rent, XX, a 415
Quixote, Don (Cervantes), V, b 303, *a* *b* 304, *a* 305, *a* 306-7, a 308-9
Quoad sacra Parishes, XVIII, a 303
Quoddy Head (Maine), XV, a 300
Quohaug bay (Maine), XV, b 300-1
Quoins (Architecture), II, a 415; (Bridges), IV, b 273
——, wedges (Typography), XXIII, a 746, b 756
—— -stones (Building), IV, a 422
Quoit, angular velocity (Mechanics), XV, a 746
QUOITS, game, XX, b 195-6; (Discus), VII, b 224
Quorra or Joliba River (Africa), I, b 220, a b 227; (Niger), XVII, a 510, a 511
Quorum (Parliament), XVIII, b 317, a 318
Quotation Dictionary, VII, b 155, note
Quotidian fever (Pathology), XVIII, a 405
QUO WARRANTO, Writ, XX, a b 196; (Warrant), XXIV, a 393
Quominus, Writ, XXIV, a *b* 730

R, letter, XX, a b 196; (L), XIV, a b 163
Ra, god (Circumcision), V, a 691; (Cosmogony), VI, a 396; (Deluge), VII, b 49-50; (Egypt), a *b* 619, *a* b 620, note; (Mythology), XVII, b 158
RAAB, town, XX, b 196-7
—— river (Eisenburg), VII, b 685
Raabe, Professor (Infinitesimal Calculus), XIII, b 56
Raamses, district. See RAMESES
RAB, RABBI, RABBAN, RABBONI, RABBENU, titles, XX, a b 197
Rab or Abba Arekha or Arikho (Mishnah), XVI, b 530; (Talmud), XXIII, b 40 note, a 41, note
RABA, Jewish judge, XX, b 197

Rab Ab-Beth-Din, teacher (Rabad), XX, a 198
Rababia, David, rabbi (Jews), XIII, b 695
Rababy, Wady, valley (Jerusalem), XIII, b 647
RABAD, title, XX, a 198
RABAN, teacher, XX, a b 198
—— of Cologne, XX, b 198
Rabanus Maurus. See HRABANUS MAURUS MAGNENTIUS
Rab Asshi or Ashe (Rab), XX, a 197; (Talmud), XXIII, b 41
RABÁT or Ribat, town, XX, b 198
Rabato, town. See Gazo
Rabaut, Paul, preacher (Camisards), IV, a 658
RABBA, town, XX, b 198–9; (Soudan), XXII, b 292
——, goddess of Taif (Mohammedanism), XVI, b 583–4
Rabbah or Rabbath (Ammonites), I, a b 651
Rabbah or *Rabbath* (Midrash), XVI, a b 299, a b 300
Rabban, title (Gamaliel), X, *a* 54
—— Judah the Holy, rabbi (Israel), XIII, b 438
Rabbinical, Bibles (Abenezra), I, b 39; (Bible), III, a 560; (Hebrew Language and Literature), XI, b 536; court (Synedrium), XXII, b 851; Dictionaries, VII, a b 164; Hermeneutics, XI, b 664–5
—— literature (Balaam), III, a 224; (Buxtorf), IV, a b 535, b 536; (Isaiah), XIII, a 388; (Kimhi), XIV, a b 80; (Maimonides), XV, b 297–9; (Ramban), XX, a b 276; (Rashba), a 296; (Rashbam), a 296, notes; (Rashi), b 296–8, notes; (Reshal), a 487; (Riph), b 581–2; (Rosh), a b 875, notes; (Saadia), XXI, b 129–30
—— notion of Inspiration, XIII, b 161
—— rules (Sabbath), XXI, b 132–3; (Talmud), XXIII, a 42
Rabbins (Israel), XIII, a 438–9; teaching of (Messiah), XVI, b 60, a b 61. See RAB
RABBIT, mammal (Ill.), XX, a 199–200; (Evidence), VIII, b 650; (Ferret), IX, a 96; (Fur), a 736, a 737; (Fibres, Textile), b 115; (Mammalia), XV, a 421, note; (Shooting), XXI, a 873; cardiac pulsations (Vascular System), XXIV, a 110, a 111, b 116, a b 118; one-eared (Breeds), IV, b 220
Rabbles, puddling (Iron) (Ill.), XIII, a 330–1
Rabbūlā of Edessa, bishop (Syriac Literature), XXII, *b* 864, a 868, a b 869
Rabdologia (Napier), XVII, b 185–6, *b* 187, a b 191, a 192
RABELAIS, François, humorist, XX, a 200–5
    canon of St. Maur period, b 201–2
RABELAIS, *continued*
  Gargantua and *Pantagruel*, a 203–5
    coarseness of, b 204
    contents, a b 203
    editions of, a b 205
    expository criticism, b 203–4
    religious opinions of, b 204–5
  monastic life, early, b 200–1
  posthumous work, b 202–3
  secular activity, a b 201
  youth and training, a b 200

—— (Chinon), V, b 586; (Erasmus), VIII, a 454; (Folengo), IX, b 311; (France), a b 574; (Marot), XV, a 570; (Medicine), b 817–8; (Montaigne), XVI, a 796–7; (Pasquinade), XVIII, b 346; (Renaissance), XX, a b 403; (Villon), XXIV, b 250; *Translation of* (Urquhart), *b* 17
RABENER, Gottlieb Wilhelm, satirist, XX, b 205; (Germany), X, a 477
Rabí'a, mystic (Mohammedanism), XVI, b 616
RABIES, disease, XX, b 205–9
  communicated, a b 206
  dumb madness, a b 208
  history, b 205–6
  paroxysmal stage, b 207–8
  preventive measures, b 208
  Pasteur's method, b 208–9, note

—— (Hydrophobia), XII, a 578; (Veterinary Science), XXIV, b 216, a 222 note
Rabina or Giza, editor (Talmud), XXIII, b 41, a 42
Rabirius, Caius, senator (Cæsar), IV, a 564
Rábkob, town (Chutiá Nágpur), V, b 671
Rab Simona (Talmud), XXIII, a 42
Rabutin, Celse Bénigne de, baron de Chantal. See SÉVIGNÉ
——, Leonor de, soldier, XX, a 209
RABUTIN, Roger de, comte de Bussy, author, XX, a b 209; (Sévigné), XXI, a *b* 736, *a* 737, b 738, *a* 740
Racan, Honorat de Bueil, marquis de, poet (France), IX, b 577
Raccolta in Morte del Boia (Galiani), X, b 23
RACCOON, animal (Ill.), XX, b 209–10; (Fur), IX, a 736, a 737; (Mammalia), XV, b 447
Race and Language (Anthropology), II, b 105–6
——, human (Anthropology), II, b 98–101; ascendency (Caste), V, a 165, note; characteristics (Drunkenness), VII, b 416; conflict, Southern (United States), XXIII, b 832; (Religion), XX, a b 378, a 382
—— current (Tides), XXIII, a 376
Racehorse, English (Horse), XII, a 186–91
Raceme (Botany) (Ill.), IV, a b 110, a 111, a 112
Racemic acid (Tartaric Acid), XXIII, b 75–6; Polarization of, XIX, b 326; (Wave Theory), XXIV, b 476–7
"Race of Dunbar," battle (Dunbar), VII, b 459
Racer snake (Zoology), XXIV, b 921
Races, horse (Betting), III, a 535; (Cambridge), IV, b 644; (Carnival), V, b 109; (Doncaster), VII, a 313; (Horse), XII, a 203–10; (Newmarket), XVII, b 409; (Olympia), a 788, a 790; (York), XXIV, a 785
Race tracks, United States (Horse), XII, b 207, b 208
Rachel, sweet woman (Jacob), XIII, b 545, a 546; (Joseph), b 759; grave of (Palestine), XVIII, b 179
RACHEL, Elizabeth Felix, actress, XX, a b 210
——, Joachin, satirist (Germany), X, a 475
——, Sarah, actress XX, *a* 210
Rachette's furnace (Iron) (Ill.), XIII, a 307
Rachianectes, genus (Mammalia), XV, b 398
Rachideæ, class (Grasses), XI, b 51
Rachiglossa, dental group (Mollusca) (Ill.), XVI, b 663, a b 673
Rachillifloræ, class (Grasses), XI, b 51
Rachillus, axis (Grasses), XI, a 50, b 51
Rachine burgus, magistrate (Salic Law), XXI, a 224
RACINE, Wisconsin, town, XX, b 210
RACINE, Jean, dramatist, XX, b 210–16
    Andromaque and *Les Plaideurs*, a b 213
    birth and education, b 210–11
    correspondence, life from his youthful, a b 211
    criticism, b 215–16
    devout age, a 214–15
    dramatic activity, period of, a 212–14
    editions, a 216
    Esther and *Athalia* period, a b 215
    Molière, connection with, a 212
    Phèdre, presentation of, a 213
    Port Royal connections, a b 211

—— (Chapelain), V, b 344; (Corneille), VI, b 370, a b 371, a 372; (Drama), VII, a b 367, b 368; (Euripides), VIII, b 595; (France), IX, a 507, a 579; (Molière), XVI, b 651; (Nicole), XVII, a b 503
——, Louis, critic, XX, b 211, a *b* 214, a 216
Racing (Athletic Sports), III, *a* b 13; (Canoe), IV, a 717; (Horse), XII, 203–10; (Running), XXI, b 66–7; (Tricycles), XXIII, a 595; Greek (Games), X, a b 58; Roman (Circus), V, b 691–2. See Races
—— boats (Shipbuilding), XXI, a 864
Racing Calendar (Horse), XII, a 205
Racing in marine engines, checking (Steam-Engine), XXII, b 533
Rack (Clocks), VI, b 23–4; lever compensation (Watch), XXIV, a 418
—— (Torture), XXIII, a 492, b 494, a b 495, b 496
Rackarock, explosive (Tunnelling), XXIII, b 662
RACKETS, game, XX, a 216–17
Racki, Francis, author (Servia), XXI, a 724
Racking seizing (Seamanship), XXI, b 620
—— and storing (Brewing), IV, a 246
Räcknitz, village (Dresden), VII, b 404
Rack Rent, XX, b 414, note, a 415
Racks (Mechanics), XV, b 764–5, a b 766, b 771
Racow, town (Unitarianism), XXIII, a 773
Räda church, Sweden (Mural Decoration) (Plate I), XVII, b 54
Radagaisus, chief (Goths), X, a 755
Radai, Paul, poet (Hungary), XII, b 391
Radak, islands (Caroline Islands), V, b 111
Radàma I., king (Madagascar), XV, a *b* 175
—— II., king (Madagascar), XV, a b 175
RADAUTZ, town, XX, b 217; (Bukowina), IV, a 461
RADBERTUS, abbot, XX, b 217; (Berengarius), III, b 505. See PASCHASIUS
Radbod, king (Frisians), IX, a 692; (Willibrord), XXIV, *a* 619
RADCLIFFE, town, XX, b 217–8
RADCLIFFE, Ann Ward, XX, a b 218
——, John, physician (Libraries), XIV, b 518; (Medicine), XV, a 821; (Oxford), XVIII, b 98, b 101; bookcase (Libraries), XIV, a 537; library (Oxford), XVIII, b 98, a 100
—— Observatory, XVII, a 730; (Meteorology), XVI, a 187; (Micrometer), b 263; (Oxford), XVIII, b 101; heliometer (Micrometer), XVI, b 263
Radeau de la Méduse (Géricault), X, a b 399
Radenhausen, C., philosophical writer (Evolution), VIII, b 672
Radespona, town. See RATISBON
RADETZKY, Johann J. W. A. F. C., marshal, XX, b 218–9; (Austria), III, a 119, a 120; (Charles Albert), V, *a* 369; (Italy), XIII, a b 498
Radevic, canon and chronicler (Frederick I., Emperor), IX, a 643
Radewyn, Florentius, educator (Kempis), XIV, a *b* 33
Rādhā, goddess (Hindustani Literature), XI, b 754, a b 755
RADHANPUR, state and town, XX, a 219

Radial artery (Anatomy), I, a 794; axle box, locomotive (Steam-Engine), XXII, b 547

—— -drilling Machine, XV, b 156

—— teeth (Clocks), VI, b 32–3

—— valve-gears (Steam-Engine), XXII, a 527 note, a 546, b 547

—— vein (Anatomy), I, b 795

Radiance, theory of (Physical Sciences), XIX, b 6

Radians in angle (Mensuration), XVI, b 21–2

Radiant energy of plants (Physiology), XIX, a 66–7

—— heat (Melloni), XV, a b 849. See RADIATION

Radiants (Meteor), XVI, a b 116

RADIATA, division of animals, XX, a 219

RADIATION and CONVECTION, XX, b 219–24
- Boltzmann's theory, b 223
- conduction, b 219
- convection, b 219
- empirical formulæ, a 223
- Lecher's theory, a 224
- light, radiant, a b 220
- luminous rays, theory of, a 222–3
- Prevost and Carnot, a b 221
- radiant heat, b 219-20
- Stewart's theory, b 221–2
- theory, development of, b 220–3

—— (Diffusion), VII, b 189–90; (Heat), XI, a 515; (Heating), b 527, *a* 528; (Lighting, Electric), XIV, a 637; (Pyrometer), XX, b 140-1; (Sun), XXII, a 685

——, climatic effects of, VI, b 4, *a* 5, *a* 6; (Geology), X, a b 195; (Meteorology), XVI, a b 120, a b 121, a 125, b 127, a b 130, a 139

—— law of cranial (Surgery), XXII, *a* b 724

—— spectrum (Geology), X, *a* 192

—— Thermometers, XXIII, b 311–2

Rádi billah, caliph (Mohammedanism), XVI, b 609; (Vizier), XXIV, b 287

Radical axis (Curve), VI, a 634

Radichevich, Branko, poet (Servia), XXI, *a* 724

Radicle of embryo (Botany) (Ill.), IV, b 83, b 141, a 142

Radicles (Chemistry), V, b 410, b 420; history of theory (Chemistry), *b* 403–4; organic (Chemistry), a b 478–9

Radii related to plane triangle (Trigonometry), XXIII, a 601; to spherical triangles (Trigonometry), a 603

Radik, grammarian (Hebrew Language and Literature), XI, *a* 536

Radio-carpal joint (Anatomy), I, b 736

Radiolaria, class (Animal Kingdom), II, a 46; (Protozoa) (Ill.), XIX, a b 860, b 872, a 873; (Skeleton), XXII, b 113

Radiolarian ooze (Pacific Ocean) (Ill.), XVIII, a b 127, b 128, a b 131

Radiometer (Pneumatics), XIX, a 261

Radiophone (Telephone) (Ill.), XXIII, b 140, b 145

Radio-ulnar joint (Anatomy), I, a 736

Radish, vegetable (Horticulture), XII, a b 299; (Japan), XIII, b 584

Radisson, fur-trader (Wisconsin), XXIV, a 652

Radistcheff, Alexander, traveller (Russia), XXI, b 114

Radius, bone (Anatomy) (Ill.), I, b 725, a 736; (Ape), II, b 141; (Horse), XII, a 181; (Mammalia), XV, *b* 361

Radius of circle (Mensuration), XVI, a b 20–1; of circle of convergence (Variable), XXIV, b 78, a *b* 79, a b 81; of curvature (Geometry), X, b 372–3; of gyration (Mechanics), XV, a 741

Radius-vector, areas described by (Mechanics), XV, a 691

Radix Inulæ, drug (Elecampane), VIII, a 4

Radloff, philologist (Turkey), XXIII, b 703, a b 704; (Ural Altaic), XXIV, b 6, b 7

RADNOR, county and borough, XX, a b 224

RADOM, government, XX, b 224–5; (Russia), XXI, a 76

RADOM, city, XX, a 225

Radul, voivode or prince (Roumania), XXI, *a b* 21

Radula, tongue organ (Mollusca) (Ill.), XVI, a b 662, a 663, a b 665

——, genus (Muscatineæ) (Ill.), XVII, a b 76

Radwá, mount (Mahdí), XV, a 288

Radziejewo, town (Warsaw), XXIV, b 395

Radziviloff, town (Volhynia), XXIV, b 302

Radziwill, Antoine, prince (Chopin), V, a 596

Radzymin, town (Warsaw), XXIV, b 395

Rae, Edward, traveller (Kairwan), XIII, *a* 834

——, John, physician (Geography), X, b 172; (Polar Regions), XIX, b 332, b 333, a b 334. See List of Contributors

——, W. Fraser, critic (Sheridan), XXI, a 836 note, a 837. See List of Contributors

RAEBURN, Sir Henry, painter, XX, a 225–6; (Schools of Painting) (Ill.), XXI, a 461, a 464

Raeffsky, islands (Tuamotu), XXIII, b 639 note

RAFF, Joseph Joachim, composer, XX, a b 226

Raffaelle. See RAPHAEL

RAFFLES, Sir Thomas Stamford, governor, XX, b 226–7; (Indian Archipelago), XII, b 859; (Java), XIII, a 615, notes; (Singapore), XXII, b 101

Rafflesia, plant (Botany), IV, a 84, a 103, b 119, a 123, a 124; (Parasitism), XVIII, b 268, b 269, a 270, note, a 273

Raffles Library, Singapore (Libraries), XIV, b 533

Raffray, Achille, traveller (Jilolo), XIII, b 703

RAFINESQUE, Constantine Schmaltz, botanist, XX, a 894

Rafī'us-Saudā, poet (Hindustani Literature), XI, *a* 757

RAFN, Carl Christian, archæologist, XX, a 227

Raft lakes, the (Louisiana), XV, a 22

Rafters, framing in (Building) (Plate XXIII) (Ill.), IV, b 428–30

Rafts, timber (Canada), IV, a 684; (Rhine), XX, b 534–5; (Ship), XXI, b 840, a 841

Raftsund, channel (Lofoten and Vesteraalen), XIV, b 775, *a* 776

RAGATZ or Ragaz, town, XX, a 227; (Mineral Waters), XVI, a 452; (St. Gall), XXI, b 177

Rag-fallowing (Agriculture), I, a 316

Ragged Schools (Francke), IX, a 618

Ragguagli di Parnaso (Boccalini), III, *a* 736

Râgharapândarîya (Sanskrit), XXI, b 297

Raghoji Bhonslá, rájá (Gondwána), X, a 686

Raghunáth Ráo, peshwá (India), XII, *b* 842

Raghuvança, poem (Kálidása), XIII, b 838; (Sanskrit), XXI, b 297, note

Rágí, cereal (Kádúr), XIII, b 824

Rāg-Kalpadrum, poem (Hindustani Literature), XI, b 759

RAGLAN, Fitzroy James Henry Somerset, baron, general, XX, a b 227

RAGMAN ROLLS, law-term, XX, b 227

Ragnarök (Æsir), I, b 189

Rag Paper, XVIII, b 221, b 222, b 223-9

Rāgs (Hindustani Literature), XI, b 754

Ragstone, Kentish (Building), IV, a 420; Hills (Kent Co.), XIV, a 39

—— work (Architecture), II, a 415

RAGUET, Condy, merchant, XX, a b 894

RAGUSA, Austria, town, XX, b 227–8; (Amurath I.), I, a 686; (Illyria), XII, b 748; (Vlachs), XXIV, *b* 289; literature of (Servia), XXI, b 722–3

RAGUSA in Italy, town, XX, b 228

——, duke of. See MARMONT

Ragwort or Senecio (Botany) (Ill.), IV, b 112, a 113, b 120

Rahbex, Knud Lyne, novelist (Denmark), VII, a 79, b 80

Rahere, minstrel and philanthropist (England), VIII, a 230; (Hospital), XII, a 315

Rahi, village (Rai Bareli), XX, a 229

Rahmán, name of God (Mohammedanism), XVI, b 580, note, a b 625; (Palmyra), XVIII, b 203; (Yemen), XXIV, b 777, b 778

Rahtor, Rájput, clan (Jodhpur), XIII, b 714–5

Rahula, son of Buddha (Buddhism), IV, b 385

RAHWAY, town, XX, b 228

Raia or Raja, fishes (Ichthyology) (Ill.), XII, b 672, a b 673, b 675, a b 683, a 687, a 690, b 692, a 702, a 704, a b 706, a b 717, a 718, a 720, a 724; (Ray), XX, b 312

Raiatea or Ulietea, islands (Tahiti), XXIII, a 27

RAI BARELI, district, XX, b 228–9

RAI BARELI, town, XX, a 229

Raibhenda (Fibres, Textile), IX, a 116

Raibolini, Francesco, painter. See FRANCIA

Raich, historian (Servia), XXI, a b 723

Raigarh Bichhia, district (Bálághát), III, *b* 221

Raiidæ, fishes (Ichthyology), XII, b 714, b 715, a 716, a 724

RAIKES, Robert, philanthropist, XX, a 229

RAIL, bird, XX, b 229-30; (Birds), III, a b 642, a 643, a 644, b 668

——, stair hand (Building) (Ill.), IV, *a* 445–7

Rails (Iron), XIII, b 289; (Railway) (Ill.), XX, a b 230, a b 231–2, b 250–4, b 264; case hardening (Iron), XIII, b 351; temperature effects on (Iron), a 365; tests of strength of (Iron), a b 364

——, joiner's (Building) (Ill.), IV, b 438, a 439, b 442, a 444

RAILWAY (Ill.), XX, a 230–67
- accidents, b 260-1
- Africa, b 263
- Americas, a b 263
- Asia, b 263–4
- Australasia, a 264
- CARS, a 257–60
  - continuous brakes, a 259–60
  - goods trucks, a b 258
  - lighting, a 259
  - passenger, b 257–8
  - recent stock, b 258–9
  - signals, train, a 259
  - varieties, a 257–8
  - United States, b 257
- CONSTRUCTION (Ill.), a 240–8
  - bridges and viaducts, a 242–3
  - building works, a b 246
  - Cannon Street station, a b 244
  - cuttings and embankments, b 240–1
  - engine house, a b 246
  - fittings, station, b 246-7
  - intermediate stations, b 245

- RAILWAY, *continued*
  - CONSTRUCTION
    - junction stations, b 245-6
    - King's Cross station, a b 245
    - St. Pancras station, b 244-5
    - signals, a 247-8
    - stations, a 243-6
    - terminal arrangements, a 243-4
    - tunnels, b 241-2
  - ELECTRICITY, b 260
  - Europe, continental, b 261-3
  - HISTORY (Ill.), a 230-3
    - first merchandise roads, a b 231
    - locomotives, early, b 232-3
    - rails, early, b 231
    - tramroads, coal, a 230-1
  - LAW, a b 261
  - LOCOMOTIVES (Ill.), b 254-7
    - coal trains, a 257
    - express, a 255-6
    - speed and power, a 255. b 256-7
    - tank engines, a b 256
    - types, b 254-5
  - METROPOLITAN ROADS (Ill.), a 248-50
    - covered ways, b 248-9
    - Glasgow, b 249
    - London inner circle, a 248-9
    - New York elevated, b 249-50
  - PERMANENT WAY (Ill.), a 250-4
    - bull-headed rail, a 252-3
    - double-headed rails, b 251-2
    - flange rail, a 253-4
    - gauge, a b 250
    - jointings, track, a b 251
    - metallic sleepers, a b 254
    - rails, b 250-4
    - sleepers, b 251, a b 254
  - STATISTICS, British, a 233-4, a 240
    - capital invested, b 233
    - employés, b 240
    - expenditures, a b 238
    - growth of traffic, b 238-40
    - lines open, length of, a b 233
    - mileage cost, b 233-4
    - receipts, b 237-8
    - rolling stock, b 234-5
    - traffic, a 236-7
    - train miles run, a 235-6
  - UNITED STATES, a 264-7
    - construction, b 264
    - cost, a 265
    - development, b 264-5
    - management, a 266
    - rates, b 265-6
    - speed, a b 266
    - statistics, 267
    - traffic, a b 265
    - working, b 266

—— (Abandonment), I, a 12; (Agriculture), a b 272; (Alexandria), b 437, a 438; (Belgium), III, b 453; (Bombay), IV, b 21-2; (Brassey), a 198; (Brunel), *a* 357; (Budweis), b 393; (Calcutta), a 585; (Ceylon), V, b 319; (China), b 583; (Commerce), VI, b 184; (Dalhousie), b 684, b 685, *a* 686; (Darlington), b 728; (Denbigh), VII, b 67; (Egypt), a 681; (Elgin), VIII, a 122; (England), a 214-6; (Euphrates), a b 589; (Europe), a 622-3; (France), IX, a b 457; (Genoa), X, b 140; (Germany), a b 413, b 419; (Government), XI, a 18; (Hamburg), a b 364; (Holland), XII, b 71; (Honduras), b 135; (Hudson, G.), a 346; (Hungary), a 381, a 388; (India), *a* 772, b 793-4, a 813; (Japan), XIII, b 585; (Liverpool), XIV, b 720; (Lucknow), XV, b 50, a b 51; (Palestine), XVIII, a 178; (Paris), a 291; (Patents), b 878-9; (Piacenza), XIX, b 72; (Prussia), XX, a 20, a 24; (Russia), XXI, b 95; (Saxony), a 374; (Scotland), b 553-4; (Shanghai), b 809; (Smyrna), XXII, b 197; (Spain), a 317, a 318; (Stephenson), b 564; (Toll), XXIII, a 465; (Transcaspian), a 544, *a* 545; (Transcaucasia), a 546, a *b* 547; (Tsarskoye Selo), b 638; (Turkey), b 697; (Uruguay), XXIV, b 20; (Whistler), b 895-6; (Winterthur), a 647

——, American, I, b 627-8; (Arequipa), II, b 426; (Argentine Republic), a 434, a 436; (Canada), IV, a 677, a 686, b 687-8; (Chicago), V, b 531; (Connecticut), VI, b 256; (Illinois), XII, a b 743, b 744; (Kansas), XIII, a 853; (Louisiana), XV, a 23; (Maryland), b 610; (Massachusetts), a 620; (Mexico), XVI, b 223, b 226-7, b 898, b 901, a 903, a 905-7, a 912; (Newfoundland), XVII, b 394-5; (Panama), XVIII, a b 213; (Peru), a b 688; (Pittsburgh), XIX, b 161; (St. Louis), XXI, b 194; (Scott, T. A.), a 913; (South Carolina), XXII, a 302; (Steam-Engines), b 924; (Tehuantepec), XXIII, a b 119: distribution of (United States), a b 831; introduction of (United States), a b 813, a 814, a 817; mismanagement (United States), b 827, b 834-5; statistics (United States), b 879; trunk-lines begun (United States), a 824, a 831; (Vanderbilt), XXIV, a b 875. See PACIFIC RAILWAYS

—— acts (Company), VI, b 198

—— banks (Savings Banks), XXI, b 345

—— battalion, Prussian (Army), II, b 522

—— chairs (Founding) (Ill.), IX, a b 424; (Railway), XX, a 231, a 251, a b 252

—— department (Board of Trade), XXIII, b 529

—— load on Bridges, IV, a 254

—— mail service (Post-Office), XIX, b 595

——, military (Army), II, a 535; (War), XXIV, a 368, b 369, a b 370

—— mania, English, 1845 (Peel), XVIII, a 467

——, metropolitan, XX, a 248-50; (London), XIV, b 832

—— rapacity (Post-Office), XIX, a 591 note

—— stations, XX, a 243-6; (Architecture), II, a 397

——, street (Tramway), XXIII, b 537-41; cable system (San Francisco), XXI, b 279

—— tunnels (Tunnelling), XXIII, a b 663, b 664-5; in town (Ill.), a b 665

——, underground (Mining), XVI, b 476

RAIMBACH, Abraham, engraver, XX, a 267

Raimondi, Don Antonio, historian (Peru), XVIII, b 693

——, Marcantonio, engraver (Francia), IX, b 606

Raimondo de Vineis, Dominican general (Catherine), V, *b* 200, *a* 201, *a* 202

Raimund of Toledo, bishop (Scholasticism), XXI, a 444

Rain (Agriculture), I, a 299, a 300; (Distillation), VII, b 228; composition of (Geology), X, a 197; (Water), XXIV, a 420; epigene effects of (Geology), X, b 237-9; wash of (Geology), b 211

Rain, Theory of (Hutton), XII, b 430-1

RAINBAND, XX, a 267-8

Rainbirds (Cuckoo), VI, b 607

Rainbow (Dominis), VII, b 307; (Halo), XI, b 356; (Light), XIV, a 600-2; imitation (Light), b 593

Raindrop, fall of (Mechanics), XV, a b 712

Rainfall (Africa), I, a b 230; (America), a 593-4; (Amherst), b 646; (Asia), II, b 603, a 604; (Australia), III, b 95, a 96; (Bolivia), IV, b 12; (Brazil), b 202; (California), a 617, a 618, b 619, b 624; (Ceylon), V, a b 313; (Climate), VI, b 7; (Concan), b 212; (Congo), a 236; (Coorg), b 302; (Cumberland), b 616; (Ecuador), VII, *a* 561; (Egypt), b 609; (England), VIII, b 196; (Europe), b 604-5; (Famines), IX, a 23; (Germany), X, b 404; (Greece), XI, a 75; (Guiana), a 222, b 223, b 225: (Hereroland), a 655; (Himalaya), a b 741; (Holland), XII, b 66; (Hungary), a b 377, note; (Hydromechanics), a b 530; (India), a b 772, a b 776, a b 777-8, a b 792, b 805, a 806; (Hutton, J.), b 430-1; (Indian Archipelago), a 856; (Irrigation), XIII, a b 372, b 379; (Java), a b 612; (Khási and Jáintia Hills), XIV, b 60; (Lozère), XV, a 33; (Madras), b 186, a 188; (Malay Peninsula), b 324; (Mediterranean Sea), a b 830, a 833; (Meteorology) (Ill.), XVI, b 119, b 132, a 133, a 155, a 158, a 187; (Mexico), b 225-6; (Nebraska), XVII, a 316; (Norway), a 594; (Persia), XVIII, b 631-2, a 634; (Plate), XIX, a 199; (Portugal), b 551; (Prairie), b 924, b 925; (Queensland), XX, b 178; (Russia), XXI, a b 83-4; (Scotland), b 547, *b* 550; (Sierra Leone), XXII, a 50; (South Australia), b 297; (Sweating Sickness), a 773; (Sweden), a b 777; (Switzerland), b 815; (Syria), *a* 861; (Transcaucasia), XXIII, a 547; (Turkestan), b 675; (United States), a 857-8, b 862, a 863; (Utah), XXIV, b 25; (Victoria), a *b* 233; (Water Supply), a 424-5; distribution of people by (United States), XXIII, b 875; electric effects of (Thunder-Storm), a b 350; relation to evaporation (Geology), X; a 242, note

RAINGAUGE (Ill.), XX, b 268-9

Rain-Goose (Loom), XV, b 4 note

Rainier, mountain (United States), XXIII, a 849, a *b* 851

Rainieri. See PASCHAL II., Pope

Rainless regions (Meteorology), XVI, a 142, b 155; organic forms of (Asia), II, b 606

Rain-making (Bechwana), III, b 413; (Magic), XV, b 201

—— -myth (Ganymede), X, b 65; (Hyades), XII, a 436

—— pipes (Sewerage), XXI, b 751

—— -pittings on rocks (Geology), X, a b 260

Rainy lake (Minnesota), XVI, b 498

RAIPUR, district, XX, b 269

RAIPUR, town, XX, b 269-70

RAIS or Retz, Gilles de, marshal of France, XX, a b 270

Rai Sanyo, historian (Japan), XIII, a 597

Raised beaches (Geology), X, b 326

Raising of the Cross (Rubens), XXI, *a* 48

Raising of Lazarus (Sebastiano), XXI, a b 646

Rái Sinh, chief (Jagádhri), XIII, b 551

RAISINS, fruit, XX, b 270-1; sultana (Cos), VI, a 393

RÁJÁ or Rajah, title, XX, a b 271; (Buddhism), IV, a 382 note

Rajab, Arab feast of (Passover), XVIII, b 348; (Mohammedanism), XVI, b 578

Rajagriha, city (Buddhism), IV, b 382, b 385, b 386, a b 387; hills (Patna), XVIII, a b 419

Rajah, mountain (Malay Peninsula), XV, b 323
RAJAMAHENDRY or Rajahmundry, town, XX, b 271; (Godávari), X, *a* 637
Rajanítisamuchchaya (Sanskrit), XXI, b 300–1
Rajapalayam, town (Tinnevelli), XXIII, b 431
Rájá Tarangini, chronicle (Kashmir), XIV, b 14, a b 15; (Sanskrit), XXI, a 298
Rájbansi, tribe. See Koch
Râjendralâla Mitra, editor (Sanskrit), XXI, b 289 note, b 291 note, b 293 note, a 297 notes, b 300 note, a 301 note, b 305 note
RAJESHAYE or Rájsháhí, district, XX, a b 273
Rájghar, town (Alwar), I, *a* 571
Rájmahál, town (Ganges), X, *b* 62; hills (India), XII, b 771; (Santál Parganás), XXI, a 311
Rájmálá, chronicle (Hill Tipperah), XI, b 732
Rājnīti (Hindustani Literature), XI, *b* 758
Rajnis, Joseph, poet (Hungary), XII, *a* 392
RAJPUTANA, territory, XX, b 271-3; (Hindustani Literature), XI, a 753, a 754; (India), XII, b 777, a 783, a 788, a 791, b 804, a 805, a 811, *a* 832, *a* 834, a 844
Rájputs, race (India), XII, *a* 784, *b* 818, *a* b 821, b 828; (Infanticide), XIII, a b 5; (Rajputána), XX, b 272; Yadu Bhati, clan (Jáisalmir), XIII, a 555
RÁJSHÁHI or Rajeshaye, district, XX, a b 273
Rákas-Tál, lake (Himalaya), XI, b 737; (Tibet), XXIII, a 361
Raka-tsanpo, river (Tibet), XXIII, b 361
Rakes, horse (Agriculture), I, b 287; (Patents), XVIII, b 877
Rake's Progress (Hogarth), XII, b 50
Rake-veins (Geology), X, a 281
Raki, brandy (Mastic), XV, a 628
Rakím, city (Petra), XVIII, b 719, note
Rákipúshí, mountain (Gilgit), X, b 532
Raklia, island (Heraclea), XI, a 607
Rakli, river (Cephalonia), V, b 298, a 299
RAKOCZY, Transylvanian family, XX, b 273
——, Francis I., prince, XX, b 273
——, Francis Leopold, prince, XX, b 273
——, George I., XX, b 273; (Hungary), XII, *b* 384
——, George II., XX, b 273
——, Sigismund, prince, Transylvania, XX, b 273
Rákosy, Eugene, poet (Hungary), XII, a 394
RALE, Sebastian, missionary, XX, b 894
RALEIGH, North Carolina, city, XX, b 273–4
RALEIGH, Sir Walter, courtier, XX, a 274–6; (Acosta), I, a 93; (Cecil, R.), V, a 246; (Coke, E.), VI, b 109; (Cork), *a* 359; (Elizabeth), VIII, a b 134; (Gilbert, H.), X, *b* 527, *a* 528; (Independents), XII, b 762 note; (Ireland), XIII, a 271, b 276; (Jonson), a 753; (Mahogany), XV, a 290; (Mining), XVI, a b 494; (Missions), a b 537; (North Carolina), XVII, a 575; (Potato), XIX, *b* 611; (Somerset), XXII, b 273; (Tobacco), XXIII, a 451; (Trinidad), a 611; (United States), b 776–7
—— Club (Rennell), XX, a 412 note
Râles, sound (Bronchitis), IV, b 326, *a* 327
Ralik, island (Caroline Islands), V, b 111; (Micronesia), XVI, a b 268
Rallidæ, family (Birds), III, a 616, a 632, b 634, b 635, a 643, a 644, b 648, a 650; (Coot), VI, a 303; (Moor-Hen), XVI, b 834; (Rail), XX, *b* 230
Rallus, genus (Ocydrome), XVII, a b 743, note
Ralpachen, king (Tibet), XXIII, a 367
Ralph of Antioch, patriarch (William of Tyre), XXIV, b 615
Ralph Roister Doister, play (Drama), VII, a 370; (English Literature), VIII, b 371; (Udall), XXIII, b 763
Ralston, Alexander, surveyor (Indianapolis), XII, a 854
Ram, hydraulic (Hydromechanics) (Ill.), XII, b 564–5
——, sacred goat (Egypt), VII, a b 621
Rāma, deity (Brahmanism), IV, b 187; (Hindustani Literature), XI, *a* b 755; (Sanskrit), XXI, a b 294, a 296
——, Thibodi, Phra or king (Siam), XXI, a 894
Ramadan (Fasting), IX, a 44; (Mohammedanism), XVI, a 577
Ramah, city (Samuel), XXI, b 264–5
Ramalina, genus (Lichens), XIV, a 563, b 564, b 565
Ramalodei, series (Lichens), XIV, b 564
Raman, district (Malay Peninsula), XV, a 325
Rámánand, teacher (Hindustani Literature), XI, *a* 754
Rámánuja, teacher (Hindustani Literature), XI, b 753-4; (Sanskrit), XXI, b 304
Rama's Bridge. See ADAM'S BRIDGE
Ramaserem island (Canal), IV, a 700
Ramâsî jargon (Thugs), XXIII, a b 348
Rāmāyan, epic (Ceylon), V, a 316; (Hindustani Literature), XI, *a b* 755; (Sanskrit), XXI, a b 294, a b 296
Râmâyanam, epic (Tamils), XXIII, b 48
RAMBAN, Rabbi Mosheh Ben Nahman, XX, a b 276; (Maimonides), XV, b 297, notes, a 298, note
Rambaud, Alfred, historian (Poland), XIX, a 309
Rambler, periodical (Johnson, S.) XIII, a b 734, b 740
RAMBOUILLET, town, XX, b 276
RAMBOUILLET, Catherine de Vivonne, Marquise de, XX, b 276–7
Rám Dás, guru or ruler (Amritsar), I, *b* 682; (Punjab), XX, b 116
RAMEAU, Jean Philippe, musician, XX, a b 277; (Music), XVII, a 99, b 105, b 108
Rameau's Nephew (Diderot), VII, b 169-70
Ramée, Pierre de la. See RAMUS
Ramenta, hairs (Botany), IV, a 80
RAMESES, district and town, XX, b 277–8
—— I., king (Egypt), VII, a b 640, note; (Libraries), XIV, b 509; (Mummy), XVII, *a b* 28
—— II. (Circumcision), V, b 690; (Egypt), VII, b 624, b 640-1, note, a *b* 674, *b* 675, *a* 676; (Hittites), XII, *b* 28; (Sesostris), XXI, b 725, a 726; (Mummy), XVII, *a b* 28
—— III., king (Chons), V, b 595; (Egypt), VII, b 642, note, b 676, *a* 677, a 678; (Magic), XV, a 202
Rameseum, temple (Egypt), VII, b 673, b 675–6; (Libraries), XIV, b 509
RAMESWARAM, island, XX, a 278
Rametta, town (Sicily), XXII, *b* 29
Rámgangá river (Barelí), III, b 321; (Murádábád), XVII, *b* 39; (Sháhjahánpur), XXI, *b* 771
Ramie, plant (Rhea), XX, b 520
Ramillies, battle of, 1706 (France), IX, b 512–3; (Holland), XII, b 84; (Marlborough), XV, a 562
Ramiro I., Aragon, king (Spain), XXII, *a* 327, *b* 330
—— II., Aragon, king (Spain), XXII, *a* 331
—— I., Leon, king (Spain), XXII, b 326
—— II., Asturias and Leon (Jaca), XIII, b 540; (Spain), XXII, b 326, a 328
—— III., Leon, king (Spain), XXII, b 326, b 328, a 329
Ramisseram island (Ceylon), V, b 311
Ramkee, musical instrument (Hottentots), XII, b 324
Ramleh (Alexandria), I, a 438
Ramler, Karl Wilhelm, poet (Germany), X, b 477
Ramlösa, wells (Helsingborg), XI, a 572
Ramm, river (Switzerland), XXII, a 815
Ramman, divinity (Zodiac), XXIV, b 830
Rammelsbergite (Mineralogy), XVI, a 395, a 407
Rám Mohan Rái, rajah. See ROY
Rámnagar, town (Benares), III, a 479
Ramnes, Roman tribe (Lupercalia, XV, *a* 68; (Rome), XX, a 751 note, b 753 note
Ramo-chhé, temple (Lhasa), XIV, a b 499
Ramolino, Letitia, mother of Napoleon I., XVII, a 199, a 200, a 201
Ramon de la Cruz, poet (Spain), XXII, a 375
Ramondia, plants (Horticulture), XII, b 259
Ramoth, city (Gilead), X, b 531; (Mizpah), XVI, b 555; (Moab), b 558; battle of (Israel), XIII, b 416, *a* 417
Ramp of hand rail (Building) (Ill.), IV, *a* 445
Rampart (Fortifications) (Plate III), IX, b 371, a b 393
Ramphestes, genus (Toucan), XXIII, a 507–8
Ramphorhynchus, fossil (Pterodactyle) (Ill.), XX, b 91, *a* 92
Rampion, vegetable (Horticulture), XII, b 299
Ramps, vegetable (Horticulture), XII, b 299
RÁMPUR, state, XX, a b 278
RÁMPUR, town, XX, b 278
—— Beauleah, town (Rájsháhí), XX, a 273
Rám Ráz, Indian author (Architecture), II, b 347, note
Ramri, island (Kyouk-Hpyū), XIV, *b* 163
Rams, avenue of (Egypt), VII, a 675
—— of vessels (Navy), XVII, a 293, b 294, a 295; in action (War), XXIV, a b 386
Ramsay of Dalhousie, Sir Alexander (Scotland), XXI, *b* 511
RAMSAY, Allan, poet, XX, b 278–9; (Ballad), III, b 244; (Burns), IV, a b 506–7, b 508; (Drama), VII, a 378; (Hamilton, W.), XI, *b* 376; (Pastoral), XVIII, b 352
——, Allan, Jr., portrait painter, XX, a b 279
——, Sir Andrew Crombie, geologist (Geology), X, a 241, b 250, a 287, a 290, a 292, a 296, b 303, a 304, b 311, *a* 312, a 313; (Gibraltar), b 520; (Scrub Bird), XXI, *a* 581
RAMSAY, Andrew Michael, "Chevalier," author, XX, b 279; (Fénelon), IX, b 65
RAMSAY, David, physician, XX, b 279–80
——, James, philanthropist (Slavery), XXII, b 147
——, James Henry (Agrarian Laws), I, a 258. See List of Contributors
——, John, prior (Barbour), III, b 315
——, Sir John, courtier (Scotland), XXI, b 517
——, Sir John, soldier. See DALHOUSIE
RAMSAY, Nathaniel, soldier, XX, b 894
——, William, physician (Smell), XXII, *b* 177, a 178

Ramsay's gate (Harbors and Docks), XI, b 417
Ramsbottom's hammer, (Iron), XIII, b 336; his safety valve (Steam-Engine), XXII, b 520
Ramsden, Sir James, engineer (Barrow-in-Furness), III, a 311
RAMSDEN, Jesse, instrument maker, XX, a 280; (Micrometer), XVI, a 252 note; (Navigation), XVII, a 265 note. (Transit Circle), XXIII, b 547; his dioptic Micrometer, XVI, a b 261; his dividing engine (Graduation), XI, a b 27, a 28; his electrical machine (Electricity) (Ill.), VIII, b 93–4; his eye-piece (Micrometer), XVI, b 252 note; (Microscope), a 278; (Optics), XVII, b 829; (Telescope), XXIII, b 156, a 157; his theodolite (Geodesy), X, a 148
Ramses. See Rameses
Ramsey, town (Man), XV, a 458, b 459, a b 460; island (Pembroke), XVIII, a 492
——, Alexander, governor (United States), XXIII, a 822
RAMSGATE, seaport, XX, a 280; (Fisheries), IX, a b 217; (Harbors and Docks), XI, a 416, b 417; church (Pugin), XX, b 108
Ramulinina, family (Protozoa), XIX, a 871
Ramúnia, cape (Malay Peninsula), XV, a 323
Ramus, Jonas, author (Norway), XVII, a 604
RAMUS, Peter, or Pierre de la Ramée, logician, XX, a 280–1; (Ethics), VIII, b 524; (Logic), XIV, b 709, b 812 note
RAMUSIO, Gian Battista, geographer, XX, b 281–2; (Polo), XIX, b 419, b 420
RAMUSIO, Girolamo, physician, XX, a b 281
RAMUSIO, Girolamo Giuseppe, translator, XX, a b 282
RAMUSIO, Paolo, the Elder, jurist, XX, a 281
RAMUSIO, Paolo Girolamo Gaspare, translator, XX, a 282
Ran or Runn, marsh (Bombay), IV, b 20, a 21, a 23; (Cutch), VI, b 644, a 645
Rana, genus (Amphibia), I, a b 675, b 676, a 677; (Frogs) (Ill.), IX, a b 699–700; alytes (Amphibia), I, a b 674, b 675, a 677; esculenta (Amphibia), b 660–2, b 668, a b 668², a b 670, a b 672, a b 673, a 675
—— Bahadur, prince (Nepal), XVII, b 353
Ranapur, state. See RANGPUR
Ranau lake and district (Sumatra), XXII, a 672, a 673
Rànavàlona I., queen (Madagascar), XV, a b 175
—— II., queen (Madagascar), XV, b 175
Rancagua, town (Chili), V, a 535, a 536
Rance river (Dinan), VII, a 211
Rancé, Armand Jean Bouthillier, abbot (Trappists), XXIII, a 556–7, a 558
Ránchí, town (Chutiá Nágpur), V, a 671; (Lohárdagá), XIV, b 815
Rancidity (Butter), IV, a b 526; (Negro), XVII, a 326
Ranco, lake (Chili), V, b 535
Rand in Weights and Measures, XXIV, a 518
Randall, Alexander W., governor (United States), XXIII, a 822
——, Benjamin, clergyman (Freewill Baptists), IX, a 670
Randall's Island (New York), XVII, a 475; (Reformatories), XX, b 898, a 899, a b 900, a 901
Randberg, range (Transvaal), XXIII, a 550
RANDERS, town, XX, a 283
Randhír Sinh, Rája (Kapurthála), XIV, a 4
Randolf of Glanville, justiciar (England), VIII, b 296
Randolph, Charles, shipbuilder (Glasgow), X, a 574
——, Edmund, statesman, XX, b 894–5; (Slavery), XXII, b 908; (United States), XXIII, a 796 note
——, John, tory, XX, b 894
RANDOLPH, John, of Roanoke, statesman, XX, a b 283; (Tucker), XXIII, a b 947
RANDOLPH, Peyton, statesman, XX, b 894
RANDOLPH, Thomas, poet, XX, b 283
——, Thomas, theologian, (Wyttenbach), XXIV, a 751
Random points on a plane (Probabilities), XIX, a b 807
Randon, mount de (Lozère), XV, a 33
——, Jacques Louis C. A., general (Algeria), I, b 501
Randwick, suburb (Sydney), XXII, a 848
Ranelagh, Thomas Heron Jones, viscount (Volunteers), XXIV, b 315
—— house (Chelsea), V, b 396
Ranenburg, town and district (Ryazañ), XXI, a b 124
Rangabe, Alexander Rizos, poet (Greece), XI, a 80, a 81, a 118, a b 135, a b 136
Rángámátí, village (Chittagong Hills), V, a 587
Rangatira or Southeast Island (Chatham Islands), V, a 385
Rangaya or Sugut Cordillera (Philippine Islands), XVIII, a 766
Range of Voice, XXIV, a b 295
Rangefinder (Telemeter) (Ill.), XXIII, a 136–7
Rangely Lake (Maine), XV, a 300
Rangers, epithet (Putnam), XXIII, b 839
Ranges, heating (Stoves), XXII, a 608
Ranghiasci, Sebastiani (Gubbio), XI, b 215
Rangi-Haute or Pitt's Island (Chatham Islands), V, a 385
RANGOON TOWN, district, Burmah, XX, b 283–4; town (Burmah), IV, a b 497, b 498, a 500, a 501; (India), XII, a b 795; (Petroleum), XVIII, a 726; (Teak), XXIII, a 112
—— oil (Candle), IV, b 709
——, river (Burmah, British), IV, a 500; (Rangoon Town), XX, b 283
—— rubber (India-Rubber), XII, b 880
RANGPUR, district and town, XX, a b 284; (India), XII, a 771, b 785
Ranieri, Antonio, author (Leopardi), XIV, b 465, a 466
Ráníganj coal (Bardwán), III, b 320; (Bengal), a 491; (Coal), VI, b 55, b 58; (India), XII, a 775, b 803
Ranina, frog-crab (Crustacea), VI, b 566, a 580, note
Ranjit Singh, maharajah (Ghazni), X, a b 501; (Gujránwála), XI, a 242; (Hushiarpur), XII, b 418; (India), b 846, a 847; (Lahore), XIV, a 216; (Law), b 359, a 360; (Metcalfe), XVI, a 111; (Punjab), XX, b 117–8
Rank (Feudalism), IX, b 105; Chinese, V, a 567; English (Parliament), XVIII, b 312. See Precedence, Titles of Honor
Rank of the Surface, XXII, a 703
RANKE, Leopold von, historian, XX, a b 895; (Bunsen), IV, b 470; (Church History), V, b 669; (Germany), X, b 486; (Hardenberg), XI, a 423; (Monachism), XVI, a 740 (Popedom), XIX, a 519, a 525; (Reformation), XX, b 341, b 345, b 346, a 350; (Sarpi), XXI, b 327
Ranken, W. H. L. (Australia), III, b 93, b 95
RANKINE, William John Macquorn, engineer, XX, b 284; (Acoustics), I, b 96; (Bridges), IV, b 278; (Canal), b 692, a 693; (Harbors and Docks), XI, a 410, b 419; (Hydromechanics), XII, a 454, b 455, b 465, b 466; (Steam-Engine), XXII, a b 496, b 500–1, b 502, b 503, a 504, a 506, a 507, b 537 note, a 550 note; (Thermodynamics), XXIII, b 303. See List of Contributors
Rănn lake. See Ran
Rannoch, loch (Lake), XIV, a 218, a 220
Ranóji Sindhia, chief (Gwalior), XI, b 308
RANPUR, state, XX, b 284
Ransom (Average), III, b 128; (International Law), XIII, b 200; (Prize), XIX, b 786
Ransome's concrete stone, VI, b 216
RANTOUL, Robert, Jr., lawyer, XX, b 895
Ranuci, pope. See Alexander III.
Ranulph I., earl (Chester), V, b 525, a 526
Ranunculaceæ, order (Botany), IV, b 114, b 121
RANUNCULUS, plant, XX, b 284–5; (Botany) (Ill.), IV, b 84, a 110, a 117, a b 119, b 121, a 122, a 123, b 128, a 129, b 136, a 137; (Horticulture), XII, b 259, b 267–8
Ranzani, Camillo, naturalist (Ornithology), XVIII, a 18
Ráo, chief (Cutch), VI, a b 645
Raoul or Rodolphe of Burgundy, king (Charles III.), V, a 355
RAOUL ROCHETTE, Désiré, archæologist, XX, a 285
RAOUX, Jean, painter, XX, a b 285
Rapaces, group (Birds), III, b 615, b 618, a 629
RAPANUI or Easter Island, XX, b 285
Rape (Crime), VI, b 515; (Medical Jurisprudence), XV, b 790
——, district (England), VIII, a 197; (Hundred), XII, b 374
——, plant (Agriculture), I, a 329, a 340
—— -cake (Agriculture), I, b 310, a 340, a 347; (Oil Cake), XVII, b 759, a 760. See RAPE OIL
Rapel or Topocalma river (Chili), V, a 536, a 537
Rape of the Bucket, poem (Tassoni), XXIII, a b 85
—— *of Ganymede*, sculpture (Leochares), XIV, b 454
—— *of the Lock*, poem (Pope), XIX, a 499
—— *of the Sabines*, engraving (Audran), III, a 62; (Bologne), IV, a 19
RAPE OIL, XX, b 285–6; (Lubricants), XV, b 36, b 37; (Oils), XVII, a b 761, a 765, a b 766
RAPHAEL, angel, XX, a 286; (Tobit), XXIII, a b 456
RAPHAEL, Sanzio, painter (Ill.), XX, b 286–95
  archæology, a b 294
  architecture, a b 293
  fame, b 294–5
  Florentine period, a 287–9
  Leo X., period, a 292–3
  lesser arts of, a 294
  literature, a 295
  Perugian period, b 286–7
  reproductions of, a b 295
  Roman period, b 289–93
  sculpture, b 293–4
  technical method, frescoes, a b 291
  Transfiguration, a 293
  Urbino period, b 286
  Vatican decorations, b 289–91
—— (Alfani), I, b 442; (Baccio), III, a 168; (Drawing), VII, b 388; (Engraving), VIII, a b 393; (Francia), IX, a 606; (Franciabigio), a 607; (Fresco), a b 678, a b 680; (Leonardo), XIV, b 459; (Lippi), a 691; (Marcantonio), XV, b 538, a 539; (Michel Angelo), XVI, b 240–1; (Mosaic), a 882; (Perugino), XVIII, a b 695, a b 696; (Pinturicchio), XIX, a 117, a 118; (Pippi), b 121, b 122; (Schools of Painting), XXI, b 453, b 456, b 462, b 463, a b 465, a b 466, a b 467; (Tisia), XXIII, a 437;

Raphael, *continued* (Urbino), XXIV, b 14, note, a 15; (Vaga), a *b* 36; (Wood-Carving), a b 682; architecture of (Rome), XX, b 858 note; *Bible* (Vaga), XXIV, a 36; Cartoons of, V, b 144–5; (Textiles), XXIII, a 231; (Thornhill), b 335; his Leo X, group (Sarto), XXI, a b 331. See Cartoons
RAPHALL, Morris Jacob, rabbi, XX, b 895
Raphé, fibrous band (Anatomy), I, a 764, a 765
Raphelengius, Francis, printer (Plantin), XIX, *a* 188
Raphides, oxalate crystals (Botany) (Ill.), IV, b 78
Raphidiophrys, genus (Protozoa) (Ill.), XIX, a 860, a 866, b 867
Raphoe, barony and town (Donegal), VII, *a* 314
Rapier (Fencing), IX, b 61; (Sword) (Ill.), XXII, b 841–2
RAPIN, Paul de Thoyras, historian, XX, b 295; (Rymer) XXI, a 128
RAPP, George, communist, XX, b 895–6
——, zoologist (Hydrozoa), XII, a b 587
Rappee, snuff (Tobacco), XXIII, a 455
Rapperschwyl, town (Switzerland), XXII, *a* 825
Rippoldsau, district (Forests), IX, a 352
Rapporto di Cose della Magna (Machiavelli), XV, a 149
Rapri, town (Siam), XXI, *b* 890
Rápti, river (Gonda), X, a 685; (Oudh), XVIII, a 75
Raptores, group (Birds), III, a 617, b 627
Raquets, game. See Rackets
Raquette, river and lake (United States), XXIII, *a* 842
Rarefaction of air (Acoustics), I, a 99; of gases (Elasticity), VII, a 695; (Electricity), VIII, b 60–1
Rárh, district (Murshidábád), XVII, b 69
Raron, house of (Switzerland), XXII, *b* 823–4
Rarotonga island (New Zealand), XVII, a b 484; (Williams), XXIV, a 618
"Rarus" (Horse), XII, b 208, a *b* 209
Rás-'ain, district (Mesopotamia), XVI, *b* 52, b 53
Rás al-'Ain, fountain (Tyre), XXIII, a 758
Ras-al-Dura, lagoon (Morocco), XVI, a 857
Rasamala, tree (Java), XIII, a 613
Ras-el-Hadd, cape (Arabia), II, a 205, b 220
Ras el Khanzin, promontory (Cilicia), V, b 679; (Syria), XXII, b 860
Ras-el-Kheyniah, town (Arabia), II, a 222, b 228
Rasena, tribe. See Etruscans
RASGRAD or Hesargrad, town, XX, b 295
RASHBA, rabbins, XX, b 296–8
RASHBAM, Rabbenu Shemuel Ben Meir, Talmudist, XX, a 296
RASHI, Shelomoh Yishaki, Rabbenu, XX, a 296–8; (Riph), *b* 581; (Hebrew Language and Literature), XI, a b 536; (Midrash), XVI, a 298 note
Ráshid, historian (Turkey), XXIII, a 699
Rashid ed-Din, historian (Turks), XXIII, b 700, b 701, a b 702, note; (China), V, a 547
Rashíd Watwát, poet (Persia), XVIII, b 670
RASHT, town, XX, a b 298; (Plague), XIX, *a* 178
RASK, Rasmus Christian, philologist, XX, b 298–9; (Denmark), VII, b 78, b 81; (Grimm), XI, b 178, a 179; (Scandinavian Languages), XXI, b 384, note, *a* 385
Raskolniks, nonconformists (Beard), III, b 400; (Livonia), XIV, b 730; (Nikolaievsk), XVII, *a* 517; (Russia), XXI, *b* 89–90, b 113; (Samara), b 255; (Siberia), XXII, a 14; (Transbaikalia), XXIII, *a* 543; (Uralsk), XXIV, a 11
Rasohérina, queen (Madagascar), XV, b 175
Rasores, group (Ornithology), XVIII, a 50; (Smell), XXII. a 176
Rasp (File), IX, a 140
Raspberry, plant (Botany), IV, b 128, b 137; (Horticulture), XII, b 286–7
Raspe of Thuringia. See Henry Raspe
——, Rudolf Erich, archæologist (Munchausen), XVII, a b 29; (Tassie), XXIII, b 81
Rasse, animal (Civet), V, a 696
Rasselas, romance (Johnson, S.), XIII, a b 735
Rastadt, Congress of, 1797–9, VI, b 239; (Austria), III, b 114; (Metternich), XVI, b 207
RASTATT or Rastadt, town, XX, a 299
RASTELL or Rastall, John, printer, XX, b 299; (Littleton), XIV, b 711
——, William, printer, XX, b 299–300
Rastislay, king of Moravia (Germany), X, b 431; (Methodius), XVI, a 202; (Moravia), b 837
RASTRICK, district, XX, a 300
RAT, animal (Ill.), XX, a b 300; (Micronesia), XVI, a 268; (Maldive Islands), XV, b 334; (Mammalia), b 421, *a* 422, *a b* 424; (Mouse), XVII, b 10–2; (Plague), XIX, b 178–9; (St. Paul), XX, a 199; (Zoology), XXIV, a b 923; Golunda (Coffee), VI, b 102
—— sign in the zodiac, XXIV, b 831, a 832
RATAFIA, flavoring essence, XX, b 300; (Cherry), V, a 509
Ratak, island (Micronesia), XVI, a–b 268
Ratan (Cane), IV, a 711; (Fibres, Textile), IX, a 116
Ratanpur, town (Bilâspur), III, b 580; district (Onyx), XVII, b 798
Ra-tatef or Tatefra, king (Chephren), V, a 506
Ratchet (Mechanics), XV, b 771
Ratchis, Lombard, king (Paulus Diaconus), XVIII, a 447
Ratcliff Highway (London), XIV, b 830
RATEL, animal (Ill.), XX, b 300–1
Ráth, Matthias, journalist (Hungary), XII, b 392
Rath Museum (Geneva), X, b 132
Ratha (Ireland), XIII, b 261, a b 262
Rathbone, Colonel (Lincoln), XIV, a 669
RATHENOW, town, XX, a 301
Rathhausberg, town (Gold), X, a 661
Rathke, Martin Heinrich, physiologist (Embryology), VIII, b 152, b 153, *a* b 155; (Reptiles), XX, *a* 452, *b* 453, note; (Zoology), XXIV, a 847
Rathlin, island (Antrim), II, a 125
Ratho, town (Edinburgh, County), VII, a b 571
Raths or Danish forts (Clare), V, b 702; (Dublin, County), VII, a b 428; (Westmeath), XXIV, b 541; (Wexford), b 550
RATIBOR, town, XX, a b 301
Ratification of Constitution (United States), XXIII, a b 800, b 802–3
Rating of sailors (Seamen), XXI, a 637
Ratio and proportion (Geometry), X, b 340–3
Rational formulæ (Chemistry), V, b 408, b 409, b 410, a b 476
RATIONALISM, XX, b 301–3; (Apologetics), II, b 168; (Deism), VII, a 31, a 34; (Dogmatic), a b 296; (Eberhard), a 534; (Epicurus), VIII, b 421; (Erigena), a 463; (Hobbes), XII, b 37, a 38, a b 41; (Iceland), b 656–7; (Middleton), XVI, a 294–5; (Paulus), XVIII, a 446; (Reimarus), XX, a 366; (Russia), XXI, a 90; (Scholasticism), b 442–3, a 447; (Sunnites), XXII, a b 694; (Teller), XXIII, b 172
Rational nature of Belief, III, b 461, a 462
—— quantities (Algebra), I, a b 471; roots (Algebra), a 487; transformation (Curve), VI, a 640–1
Rationarium Temporum (Petau), XVIII, a 707
Rations in British Army, II, a 510
Ratio Studiorum (Jesuits), XIII, a 662
RATISBON, city (Plan), XX, b 303–4; (Libraries), XIV, b 526, b 548; convention of, 1541 (Luther), XV, b 78, a b 79, b 80; (Reformation), XX, b 347–8
Ratitæ (Birds), III, a 605, a 610, b 611, a 616, a *b* 622, b 623, a b 624, a b 625, a 628, b 629, a 631, a b 640, a b 644, a 646, a 657, a 659, a 671, a b 672; (Ornithology), XVIII, b 23–4, b 25, b 26, b 30, b 32, b 35, b 38, b 40, a 46, a 47–8; (Ostrich), b 66–7; (Rhea), XX, b 519–20
Rat Kangaroo (Ill.), XIII, a 850; (Mammalia), XV, a 379
Ratke or Ratichius, Wolfgang, teacher (Education), VII, a b 584
Ratl in Weights and Measures, XXIV, a 515, a b 518
RATLAM or Rutlam, state and town, XX, b 304
RATNAGIRI or Rutnagherry, district, XX, b 304–5; town, a 305
Ratnapura, town (Ceylon), V, *a* b 313, a 314
Ratnávalí (Sanskrit), XXI, b 299
Raton, mountains (Colorado), VI, b 145; (New Mexico), XVII, a 410
RATRAMNUS, monk, XX, a 305; (Radbertus), b 217
Ratseis Ghost, sketch (Shakespeare), XXI, a 792
Rat Snakes (Ill.), XXII, b 200, *b* 204
RATTAZZI, Urbano, statesman, XX, a b 305; (Italy), XIII, b 498, b 499, a 501
"Rattler," steamer (Shipbuilding), XXI, a 862
RATTLESNAKE (Ill.), XX, b 305–6; (Mammalia), XV, a 423; (Pennsylvania), XVIII, a b 513; (Snakes) (Ill.), XXII, a 204, a 209; (Zoology), XXIV, b 924; rings of (Skeleton), XXII, b 115
Ratu Loro Kidul, goddess (Java), XIII, a 618
Ratuma, city (Rouen), XXI, b 16
Ratzeburg, lake of (Lübeck), XV, b 33
Rau, town (Sumatra), XXII, b 672
RAU, Karl Heinrich, political economist, XX, a b 306; (Political Economy), XIX, a b 401
Räuber, Die, play (Schiller), XXI, *b* 412, a b 413
RAUCH, Christian Daniel, sculptor, XX, b 306–7; (Berlin), III, *b* 515, a 516; (Sculpture), XXI, a 593
——, Hieronymus, dramatist (Denmark), VII, a 79
Raudii Campi (Vercelli), XXIV, a 178
Raudnitz, town (Libraries), XIV, b 549
Rauhe Alb, mountains (Würtemberg), XXIV, *a* b 735
Rauma river (Norway), XVII, b 589
RAUMER, Frederick Ludwig Georg von, historian, XX, a b 307
——, Karl Georg von, geologist (Education), VII, b 588
RAUPACH, Ernst Benjamin Salomo, dramatist, XX, b 307; (Germany), X, a 486
Rauwenhoff, theologian (Theism), XXIII, b 264
Rauzah, village (Ghazni), X, *a* 501
Rauzat, history (Mirkhond), XVI, a–b 522

RAVAILLAC, François, assassin, XX, b 307-8
Ravaisson, François, antiquary (Bastille), III, a 372
Rávana-badha (Sanskrit), XXI, b 297
Ravanella. See ABRABANEL
Ravelin, covering work (Fortification), IX, b 392-3
RAVEN, bird, XX, a b 308; (Elijah), VIII, b 126; (Heraldry), XI, a 609; (Ornithology), XVIII, b 52
——, island (Caroline Islands), V, b 111
Raven, poem (Poe), XIX, a 268
RAVENNA, city, XX, b 308-10; (Basilica), III, b 357, b 360; (Italy), XIII, *a* 478; (Libraries), XIV, b 530, b 550; (Mosaic), XVI, b 879, b 880; (Rome), XX, *b* 800, b 801, b 803; (Theodoric), XXIII, a b 276; (Umbria), a 771, a 772; battle of, 1512 (Italy), XIII, a 492; (Leo X.) XIV, a 451; (Scaliger), XXI, b 377
——, state (States of the Church), XXII, b 477
——, Petrus de, jurist (Mnemonics), XVI, b 556
Ravenna papyri, MSS. (Palæography), XVIII, a b 159, b 168
Ravènsara Nut, XVII, b 683, a 684
RAVENSBURG, town, XX, b 310; (Würtemberg), XXIV, b 736
Ravenshaw, J. A., antiquary (Gaur), X, b 102 note, a *b* 103, *a* 104
Ravenspur, town (England), VIII, b 195
Ravenswood, town (Queensland), XX, a 178, b 179
Rávi river (Chámbá), V, b 329; (Lahore), XIV, a b 212, a 214; (Montgomery), XVI, b 815; (Múltán), XVII, b 25, a 26; (Punjab), XX, a *b* 112, note, 113, a b 114
Ravicz, town. See RAWITSCH
Ravines, formation of (Caves), V, a 232
Ráwal, title (Jáisalmir), XIII, a 555
RÁWAL PINDI, or Rawul Pindee, district and division, XX, b 310-1; (India), XII, *a* b 830; (Punjab), XX, b 112, b 113, a 115, a 116, town, a 311
Ráwandis, sect (Mohammedanism), XVI, a 602
Rawdon, Francis, marquis of Hastings, general (United States), XXIII, b 792. See Moira, Earl of
RAWITSCH, town, XX, a 311
RAWLE, William, jurist, XX, a 896
RAWLINS, John Aaron, general, XX, a 896
Rawlinson, George, orientalist (Cambyses), IV, a *b* 648, a 649; (Persia), XVIII, b 593, b 618 note, b 627. See List of Contributors
——, Sir Henry C., orientalist (Baghdad), III, a 202; (China), V, b 568, a 569; (Chronology), b 617; (Ellenborough), VIII, a 137; (Persia), XVIII, a 640, b 664. See List of Contributors
RAWMARSH, village, XX, a 311
Rawson, Sir Rawson W., sociologist Statistics), XXII, *b* 480, a 481
RAWTENSTALL, town, XX, a b 311
Rawul Pindee, district. See Rawal Pindi
RAY, fish (Ill.), XX, b 311-3; (Ichthyology) (Ill.), XII, b 672, a b 673, b 675, a b 683, a 687, a 690, b 692, a 702, a 704, a b 706, b 715, a b 717, a 718, a 720, a b 724
RAY, Isaac, physician, XX, a b 896
RAY or Wray, John, naturalist, XX, a 313-4; (Agriculture), I, b 265, b 266; (Botany), IV, a 70, b 72; (Ichthyology), XII, a 668; (Morphology), XVI, b 864; (Ornithology), XVIII, b 8; (Peppermint), a 528; (Puffin), XX, b 107; (Reptiles), b 446; (Sloane), XXII, *a* 170; (Willughby), XXIV, *a* 621; (Zoology), a *b* 843
—— Society (Ornithology), XVIII, a 31, note
Rayats, class. See Ryots
Ráyatwárí, settlement (India), XII, a 810
Rayet, archæologist (Terra-Cotta), XXIII, a 208, b 212
Rayleigh, John William Strutt, Lord, scientist (Energy), VIII, a 191; (Diffusion), VII, a 191; (Hydromechanics), XII, b 472, b 477, *b* 478, b 485, *a* b 486; (Trumpet), XXIII, b 631. See List of Contributors
RAYMOND, Henry Jarvis, journalist, XX, b 896; (Greeley), XI, a 144; (Newspapers), XVII, a 446
RAYMOND, John Howard, educator, XX, b 896
—— of Marseilles, physician (Hydropathy), XII, b 575
RAYMOND of Sabunde, theologian, XX, b 314; (Theism), XXIII, a 260; (Theology), a 281, a 295
—— I., count (Toulouse), XXIII, b 516, a 517
—— II., count (Toulouse), XXIII, b 516, a 517
—— III., Toulouse and Tripoli, count (Templars), XXIII, b 176, a 177; (Crusades), VI, a 554
—— IV., count (Toulouse), XXIII, *a* 517; (Crusades), VI, b 551, a b 552, *a* 553, *a* 554
—— V., count (Toulouse), XXIII, *a* 517
—— VI., count (Toulouse), XXIII, a 516, *a* 517; (Albigenses), I, b 402; (Languedoc), XIV, a b 288
—— VII., count (Toulouse), XXIII, *a* 517; (Languedoc), XIV, b 288; (Paris), XVIII, a 294
—— Berengar IV., Barcelona, count (Spain), XXII, a *b* 331; (Templars), XXIII, a 176
—— de Peñafort, monk (Canon Law), V, *b* 18
—— Le Gros (Ireland), XIII, b 364-5
—— silver mine (United States), XXIII, a 868
RAYNAL, Guillaume Thomas François, author, XX, b 314-5; (France), IX, b 587; (Grimm), XI, a b 176
Raynouard, Francois Juste Marie, philologist (Diez), VII, *a* 186; (Provençal Language), XIX, a 893, a b 897
Ray's systems of Optics, XVII, a 821-2
Razi, historian (Tabarí), XXIII, b 8
Razin, Stenka, or Razine, Stephen, insurgent (Cossacks), VI, a 397; (Russia), XXI, b 104, b 111
Razor (Cutlery), VI, b 647-8
RAZORBILL or Razor-billed Auk, bird, XX, a b 315; (Gare-Fowl), X, *a* 71; (Skimmer), XXII, a 128 note
Razor-Hone, XII, a 138
Razos de Troba, Las (Provençal Literature), XIX, b 901
Razoumoffskin, mineral (Mineralogy), XVI, b 442
Razzi, Gianantonio, painter. See SODOMA
——, Maria, of Chios (Stigmatization), XXII, b 577
Rbat, town. See RABAT
RÉ, Isle of, XX, b 315; (Buckingham), IV, a b 376
——, Camillo, historian (Rome), XX, b 813
Rea, Lough (Galway), X, a 51
Reach of waves (Harbors and Docks), XI, a 408-9
Reaction of water (Hydromechanics) (Ill.), XII, b 539-49
—— water-wheel (Hydromechanics) (Ill.), XII, b 555-6
READ, George, statesman, XX, b 896
READ, John Meredith, jurist, XX, a 897
——, John Meredith, Jr., soldier, XX, a 897
READ, Nathan, inventor, XX, a 897; (Steam-Engine), XXII, b 920
READ, Thomas Buchanan, poet, XX, a 897
READE, Charles, novelist, XX, b 315-6; (Copyright), VI, b 319-20
——, J. B., inventor (Photography), XVIII, a 837
——, T. Mullard, engineer (Geology), X, a 243
——, Winwood, traveller (Gaboon), X, b 4, *a* 5
Readers at Inns of Court, XIII, a b 95; (Presbyterianism), XIX, b 699
READING, England, town, XX, b 316-7; clay-beds (Geology), X, *b* 320
READING, Pennsylvania, XX, a 317
—— Railroad (Pennsylvania), XVIII, b 514
Reading, Benedictine rule of (Monachism), XVI, b 730; synagogal (Targum), XXIII, a b 68, note
—— -apparatus (Galvanometer), X, a b 46
—— -room (Libraries), XIV, a 537
Reading, The Best (Libraries), XIV, a b 541
Real, Cordillera (Bolivia), IV, b 11, a 12, a 13
Real Contracts (Roman Law), XX, a 720
REALEJO, poet, XX, a b 317; (Nicaragua), XVII, b 490
Real-Encyclopädie (Gieseler), X, b 526
REAL ESTATE, XX, b 317-21
    alienations, unusual, a b 320
    authorities, b 320
    history of legislation, b 318-9
    international law, a 321
    Ireland, b 320
    modern tenures, b 319-20
    origin of titles, b 317-8
    procedure, b 320
    title, a 320
    United States, b 320-1
—— (Domicile), VII, b 305; (Inheritance), XIII, a 85; (Intestacy), b 203-4; (Littleton), XIV, a 710-1; (Remainder), XX, a 384-5; (Rent), b 414-6; (Sale), XXI, a 216-7, *a b* 219; (Settlement), a 727-9; (Surrender), XXII, a 728; (Taxation, United States), XXIII, a b 925, a 926; (Warranty), XXIV, b 393; (Will), b 602, a *b* 603, a 604, a 605, a 606; of a firm (Partnership), XVIII, a b 337
Realgar or ruby sulphur (Arsenic), II, b 555; (Mineralogy) (Ill.), XVI, a 410; (Orpiment), XVIII, a 55
Real-genetic method (Dogmatic), VII, b 292
Reali di Francia (Romance), XX, b 666, a 667, *b* 669
Realism (Abelard), I, a 38, b 39; (Abstraction), a 59; (Champeaux), V, b 335; (Hamilton, Sir W.), XI, a b 373; (Metaphysic), XVI, a 87; (Occam), XVII, b 738-9; (Scholasticism), XXI, b 436, *a* b 437, *a b* 438, *b* 439, a b 441, a b 442, a 443, a 446, a b 448; pneumatic (Boehme), III, a 741; reassertion of (Schopenhauer), XXI, a 479
—— in art (Italy), XIII, a b 525
—— in Political Economy, XIX, b 407
Reality (Beneke), III, b 484; (Hegel), XI, *a* 552; (Herbart), b 642-3; (Kant), XIII, a 863; (Logic), XIV, b 805, a 806, a b 807; (Psychology), XX, b 60, b 68; (Schelling), XXI, *a b* 409, a 410
Real Mesa Censoria (Press Laws), XIX, a 733
—— Museo de Pinturas (Madrid), XV, b 192
—— presence, dogma (Gibbon), X, a 514; (Pusey), XX, b 123, a 124
Real schulen (Austria), III, a 103; (Berlin), b 514-5; (Germany), X, *b* 423; (Prussia), XX, b 21-2; (Technical Education), XXIII, a 116
Real values (Variable), XXIV, *b* 76, b 77, b 80
—— Wages, XXIV, b 327, b 329, b 331, a b 332, a 333; variations in, XXIV, b 327-8

Reamer drill (Petroleum), XVIII, a 893

Reapers, machine (Agriculture), I, b 286-7, a b 322; (Patents), XVIII, b 877

Reaping (Agriculture), I, a b 322; (Scythe and Sickle), XXI, b 601-2

Rear guard (War), XXIV, b 365, b 383

Reason, a supposed mental function (Aquinas), II, *a* b 202; (Butler), IV, b 519, a 520, b 521, a 523; (Comte), VI, b 210; (Condillac), a b 222; (Cousin), a b 466, a 468; (Cudworth), a b 611; (Dogmatic), VII, a 291, a 295; (Eckhart), a 557; (Hamilton, Sir W.), XI, a 373, b 374; (Hartley), b 445-6; (Hooker), XII, b 155, a 156; (Instinct), XIII, a 164; (Jacobi), a 547-8; (Kant), b 861, b 863, a b 864; (Leibnitz), XIV, b 422-3; (Metaphysic), XVI, b 89, b 95, b 100; (Mysticism) XVII, b 136-7, a b 138, a 139, b 141; (Neoplatonism), b 342; (Peripatetics), XVIII, a 556, a 558; (Reid), XX, *a* 364; (Stoics), XXII, b 590, a b 593, a b 594, a b 595, *b* 596; of animals (Anthropology), II, a 97; ethical function of (Schleiermacher), XXI, a *b* 430; goddess of (France), IX, b 534; Hobbes on (Association of Ideas), II, b 639; imbecility of (Scepticism), XXI, b 398, a 401; modern conception of (Schopenhauer), XXI, *a b* 478; relation to Theology, XXIII, b 282-3; subordination of (Scholasticism), XXI, a b 436, a 439, a 443, a 447; theory of (Schopenhauer), b 471-2; truth, relation to (Cartesianism), V, b 128; universal (Mohammedanism), XVI, b 615; (Schleiermacher), XXI, a 429, b 430; Vernunft (Hegel), XI, *b* 551, a 552

Reason, A Discourse Concerning (Chubb), V, a b 662

Reasonableness of Christianity (Locke), XIV, b 760

Reate, town (Rieti), XX, a b 567; (Sabines), XXI, a b 137; (Terni), XXIII, *a* 207

RÉAUMUR, René Antoine Ferchault de, scientist, XX, a b 321; (Bee), III, *b* 418, *a* 419, a 422, a b 423, b 425; (Brisson), IV, a 314; (Iron), XIII, a 327, a 349; (Taxidermy), XXIII, b 95; (Thermometer), *a* 309

Réaumur's porcelain (Glass), X, a 584

Rebate (Abatement), I, a 13

"Rebecca" insurrection (Carmarthen), V, a 102

Rebellion (International Law), XIII, a b 198

Rebellion, Writ of, XXIV, a 731

Rebhun, P., dramatist (Drama), VII, a 380, note

Rebía, district (Mesopotamia), XVI, a 52

Rebozos, shawls (Mexico), XVI, b 226

REBUS, XX, b 321-2; writing (Alphabet), I, a 530, b 532

RÉCAMIER, Madame, Jeanne Françoise Julie Adelaide Bernard, XX, a 322; (Chateaubriand), V, *a* b 379; (Colet, L. R.), VI, a 126

RECANATI, city, XX, a b 322

Recapitulation theory (Biology), III, a 599; (Vertebrata), XXIV, a 195

Recapture (Prize), XIX, b 786

Recared, king, Visigoth (Goths), X, b 756; (Salic Law), XXI, *b* 226; (Spain), XXII, b 323

Receipts, validity of (Payment), XVIII, b 451

Receiver, compound engine (Steam-Engine), XXII, b 514-7

Receivers (Telephones), XXIII, a b 931-2; friction on, XXIII, a 139

Receiving stolen goods (Theft), XXIII, a b 252

Recensio canonica (Vieta), XXIV, a 242

Receptacle or Clinanthium (Botany) (Ill.), IV, b 108, a 109; of ovum (Worm), XXIV, b 717-8

Receptaculidæ, family (Sponges), XXII, a 439

Reception of the King, painting (Wilkie), XXIV, b 600, a 601

Recesse (Hanseatic League), XI, a 403, a 404

RECHABITES, order, XX, b 322; (Israel), XIII, b 417; (Temperance), XXIII, b 174-5

Rechang characters (Malays), XV, b 327

Recherche de la Vérité (Malebranche), XV, a 335

Recherches de la France (Pasquier), XVIII, b 345, a 346

Rechna Doáb, district (Siálkot), XXI, b 889

Recht des Besitzes, Das (Savigny), XXI, a 341, a 342

Rechtsalterthümer (Grimm), XI, a 178, b 179

Rechtsanwalt, counsellor (Prussia), XX, a 23

Rechtsgeschäft, law-term (Treaties), XXIII, a 564

Rechtslehre, Kant's (Hufeland, G.), XII, a 350

Rechtssatz, law-term (Treaties), XXIII, a 564

Recidivists (Prison Discipline), XIX, a b 778, a b 779

Recife, city (Brazil), IV, b 208, b 210, b 212, a 214; (Pernambuco), XVIII, b 562, a 563

Recifes, reefs (Brazil), IV, a 201

Reciprocal equations (Algebra), I, b 485; figures (Bridges) (Ill.), IV, b 283-6; (Geometry), X, a 353-4; pencils (Geometry), a b 364; proportions (Wenzel), XXIV, b 335; singularities (Surface), XXII, b 703; of strain (Mechanics), XV, b 701, a 703; Surface, XXII, b 703

Reciprocals of natural numbers, powers of (Trigonometry), XXIII, a 609; (Tables), b 12

Reciprocating pieces (Mechanics), XV, a 771

—— pumps (Hydromechanics), XII, a b 565

Reciprocity (Navigation Laws), XVII, a 286

—— treaty, 1854 (Canada), IV, a b 677

Recitatif, section of an organ (Organ), XVII, a 856

Recitative, Musical, XVII, a 93-4; (Scarlatti), XXI, b 392; (Wagner), XXIV, b 335

Reckenzaun, engineer (Traction), XXIII, a b 527, notes

Reckoning (Navigation), XVII, b 270-1

Reclaimed land (Agriculture), I, a 357-8; (Holland), XII, a 62, a b 64

Reclus, Élie Armand Ebenhezer, navigator; (Panamá), XVIII, b 213

——, Elisée, geographer (Socialism), XXII, a 228. See List of Contributors

Recluse, poem (Wordsworth), XXIV, a *b* 709, b 710

Recluses (Confucius), VI, b 232

Recognition of rebellion (International Law), XIII, a b 198

——, law-term for evidence (Sheriff), XXI, a 838

—— by jury (Henry II., England), XI, a 587; (Jury), XIII, b 793-4

Recognitions, The (Simon Magus), XXII, *b* 88

RECOGNIZANCE, in law, XX, b 322-3

Recoil (Gunmaking), XI, b 249, a 261, b 263; adjustments for (Gunnery), a b 278-9, a b 280

—— escape (Clocks) (Ill.), VI, b 17, a 18, b 25

Recollections of a Literary Life (Mitford), XVI, b 553

Récollets, friars (Franciscans), IX, b 615

Reconcavo, district (Bahia), III, b 206

Reconciliation to Church, (Interdict), XIII, a 194

—— with God (Dogmatic), VII, a 290; (Heresy), XI, a b 656; (Paul), XVIII, b 435

Reconnaissance, geographical (Surveying), XXII, b 748-50; in War, XXIV, a 384

Reconstruction of seceding states (Republican Party), XX, b 906; (Stevens), XXII, b 572; (Sumner), a b 677; (United States), XXIII, b 829-30, a 832-3

Record, Court of, VI, b 458

RECORDE, Robert, physician, XX, a b 323; (Algebra), I, a 451, b 453

Recorder, musical instrument (Flute), IX, a 307

——, law-officer (Municipality), XVII, b 34

——, Moscrop's (Steam-Engine), XXII, a 534, a b 536

——, submarine cable (Telegraph), (Ill.), XXIII, a 134-5

Recording devices (Telegraph) (Ill.), XXIII, a 128-31

RECORDS, English Public, XX, b 323-7
    Chancery Court, b 323-4
    Common Pleas, b 324-5
    definition, b 323
    Exchequer Court, a 325-6
    history, a 326-7
    obsolete courts, a 326
    Queen's Bench, b 324

—— (Quarter Sessions), XX, b 165-6; manuscripts in office of (Rymer), XXI, b 128; public (Diplomatics), VII, b 220, a b 221; of Scotch land titles (Banking), III, a 289; Scotch (Ragman Rolls), XX, b 227

Records of a Girlhood (Inchbald), XII, a 761

Recouvrance, town (Brest), IV, b 232

Recovery, law-term (Fine), IX, a b 169; of debt (Roman Law), XX, b 700, a 701-3, b 705, b 711-2; of stake (Wager), XXIV, b 326

Recreation rooms, British (Army), II, a 513, b 514

Recreations, law of (Sunday), XXII, b 689-90

Récréations mathématiques (Magic Square), XV, b 217

Recrimination (Divorce), VII, a 263, b 264

Recruiting for Austrian Army, II, b 528
    Belgian Army, b 537
    British Army, a b 502, a 503
    Danish Army, a 538
    Dutch Army, a 537
    eighteenth century, b 518
    French Army, a 527
    German Army, a 520
    Italian Army, b 535
    Russian Army, b 531-2
    Spanish Army, b 536
    Swiss Army, a b 539
    Turkish Army, a 540

Recruit and pension boys of Madras (Army), II, b 518

Rectangles (Geometry), X, *a* 337-8; (Mensuration), XVI, a b 18

Rectangular coördinates for thrusts (Arch), II, a b 287; spherical coördinates (Surveying), XXII, a 743

Rectifiers (Distillation), VII, b 230-1

Rectilineal figures, irregular (Mensuration), XVI, a 25

Rectilinear motion (Mechanics), XV, b 691, b 693

Rectilinear Motion and Rotation of Bodies (Atwood), III, a 58

Rectipetality (Physiology), XIX, b 65

Rector, ecclesiastic (Parish), XVIII, b 301-2; (Parson), a 333

——, office (Universities), XXIII, a b 889, b 890, a 891, a 907

Rectum, bowel (Digestive Organs), VII, b 198, a 199; (Nutrition), XVII, *b* 687

Recueil de Poesie (Bellay), III, *a* 470

—— *des Histoires* (Romance), XX, a 655-6

Recueillements (Lamartine), XIV, b 233, b 234

Recueil Manuel (Treatise), XXIII, a 565, a 566
Reculet, mountain (France), IX, a 446; (Jura), XIII, a 791
Recuperatiò, process (Roman Law), XX, b 704, b 713
Recurrent Typhus, XXIII, a 723
Recurvirostra, genus (Stilt), XXII, a b 580
Red, color (Calico-Printing), IV, b 610, a 611; (Dyeing), VII, b 495–8; (Pigments), XIX, a 96; chrome (Pigments), b 96; Venetian (Pigments), a 96, b 97; vermilion (Pigments), a b 96
Redak, rabbi. See KIMHI
Redan (Fortification) (Ill.), IX, *b* 382, a b 383, a 384, b 385
Redargutio Philosophiarum (Bacon), III, b 176, a 182
Red Bay (Antrim), II, *a* 125
Redbird, summer (Tanager), XXIII, a 50
Red Book of Derby (Liturgy), XIV, a 715
—— *Book of the Exchequer* (Domesday), VII, b 303; (Knighthood), XIV, b 115; (Records), XX, b 325
—— *Book of Hergest* (Celtic Literature), V, *a b* 274, b 275, a 276, b 278, b 280
REDBREAST, bird, XX, b 327–8; (Birds), III, a 654, a b 664, a 668; brain of (Ornithology), XVIII, b 51
Red-bud tree (United States), XXIII, b 860
Red Burgundy Wines, XXIV, b 638
Red Butte (United States), XXIII, a 850
Red-cedar tree (Juniper), XIII, b 784
Red-chaff-white wheat (Agriculture), I, a 315
Red clover (Agriculture), I, b 333-4
Red Cross Knights. See TEMPLARS
—— service (International Law), XIII, a b 201
Red Deer, VII, b 22
Redding, Cyrus, editor (Wolcot), XXIV, a 662
Reddingite (Mineralogy), XVI, a 422
REDDITCH, town, XX, a 328; (Needle), XVII, b 322; (Worcester), XXIV, a 701
Reddle, pigment (Mineralogy), XVI, b 401
Redemption, dogma (Calvin), IV, a b 637; (Gnosticism), X, b 625, b 626, a 627; (Mortgage), XVI, a 875
Redemptionists, Redemptorists or Liguorians, religious order (Felix of Valois), IX, b 58; (Liguori), XIV, *a* 642
Redemptus, mathematician. See BARANZANO
Reden über die Religion (Schleiermacher), XXI, a b 428
Rederykers, the (Drama), VII, b 383
Red-Eye, fish (Rudd), XXI, b 55
REDFIELD, Isaac Fletcher, jurist, XX, a b 897
REDFIELD, William C., meteorologist, XX, b 897; (Signal Service), XXII, b 903
Red field-mouse (Vole), XXIV, b 297, b 298
Red Grouse (Ill.), XI, *a b* 197, note
Red-gum, eruption (Skin Diseases), XXII, b 130
"Red Heads" (Turks), XXIII, b 703
Redi, Francesco, naturalist (Electricity), VIII, a 9; (Filicaia), IX, *a* 143; (Leeuwenhoek), XIV, a 412; (Parasitism), XVIII, a 262
Redia, parasite (Trematoda), XXIII, a *b* 572
Red Indian lake (Newfoundland), XVII, b 391, *a* 392
Redington mine (California), IV, *b* 622
RED JACKET, Indian chief, XX, b 897
Redjangers, race (Sumatra), XXII, a b 674
Red lake (Minnesota), XVI, b 498
—— lead or minium (Lead), XIV, b 377–8; (Pigments), XIX, a 96
—— Light, XIV, a 595, b 596, a 597, a 606, a 607; lights (Lighthouse), b 634
—— liquor (Calico-Printing), IV, b 608–9
Redman, Robert, annalist (Ireland), XIII, a 267
Red Medoc Wines, XXIV, a b 637
—— mountain (Mecca), XV, b 677, b 680
—— mud (Pacific Ocean), XVIII, a 126, a 128
—— Oak (Ill.), XVII, b 712
Redondilhas, poems (Portugal), XIX, b 571
Redondo, Conde de, viceroy (Camoens), IV, a b 661
Redoubt (Fortification) (Ill.), IX, *a* 333, b 386–7
Red Phosphorus, XVIII, b 829; (Chemistry), V, b 446, a 447; (Matches), XV, a 632, *a* 633
—— Pine, XIX, a 113
Redpolls, birds (Linnet), XIV, a 682
Red precipitate (Mercury), XVI, a 38
—— prussiate (Prussic Acid), XX, a 29; of potash (Chemistry), V, b 481
RED RIVER, China, XX, a 328. See Song-Koi
—— of the Mississippi, XX, *a b* 328; (Louisiana), XV, *b* 21, *a* 22, a 23; (Mississippi), XVI, a b 542–3; (Texas), XXIII, *b* 219, note
—— or Canadian river of New Mexico, XVII, a 410
—— of the North, XX, a *b* 328; (Manitoba), XV, b 497, *a* 498; (Minnesota), XVI, a b 498, a 499
—— of Senegal, XXI, a 692
RED RIVER Settlement, XX, b 328; (Canada), IV, *a* 682
—— Rose Lane market (London), XIV, a 837
REDRUTH, town, XX, b 328; (Uranium), XXIV, b 11
Redruthite (Mineralogy) (Ill.), XVI, b 383, b 407
Red Sanders Wood (Sandal-Wood), XXI, a 269
Redscar bay (New Guinea), XVII, b 396
RED SEA, XX, b 328–30; (Arabia), II, a 205; (Gold), X, a 662; (Meteorology), XVI, b 137; passage of (Israel), XIII, a 407; temperature of (Atlantic Ocean), III, a 23; winds (Navigation), XVII, b 284
REDSHANK, bird, XX, a b 330; (Turnstone), XXIII, b 710 note
Red Snow (Greenland), XI, a 149; plant (Botany) (Ill.), IV, *b* 81
—— Spanish Wine, XXIV, a 640
—— spider (Mite), XVI, a b 552-3
REDSTART, bird, XX, b 330–1; (Westmorland), XXIV, b 543
Redtenbacher's process (Potassium), XIX, a 610
Reducing-flame (Blowpipe), III, a 728
Reductio ad absurdum, argument (Analysis), I, b 697; (Geometry), X, b 335
Reduction of fractions (Algebra), I, b 468–9; of numbers (Arithmetic), II, a b 465, b 468, a 469; of observations (Tides), XXIII, a b 394; of principal triangulations (Surveying), XXII, a 737–40; of surds (Algebra), I, b 471; of system of statical forces (Mechanics), XV, b 736–9; to a given point (Mechanics, Applied), a b 775; of waves (Harbors and Docks), XI, a b 413
—— of ores (Iron), XIII, b 291, a 296-7, b 298, a 341; (Lead), XIV, b 375–6; (Nickel), XVII, a b 501; (Sulphur), XXII, a b 668; chemistry of (Iron), XIII, a 317–9; of oxides (Iron), b 286
Reduplication (Grammar), XI, b 36, b 37, *a* 38
Redut-kale, town (Transcaucasia), XXIII, a 547
Red wheats (Agriculture), I, a b 315
REDWING, bird, XX, b 331
RED WING, Minnesota, town, XX, b 331–2
Redwood, tree (California), IV, a 624; (Sequoia) (Ill.), XXI, b 705–6; (United States), XXIII, b 861
Redwood (Sedgwick, C. M.), XXI, a 915
Red Zinc ore, XXIV, a b 823
Ree, Lough (Longford), XIV, a b 874
Reece's machine (Ice), XII, b 648
REED, plant, XX, a 332; (Egypt), VII, b 613, a 615, b 616
—— and reed-pipes (Acoustics), I, a b 107; (Harmonicum), XI, b 431–2; (Oboe), XVII, a 725; (Organ) (Ill.), a b 853, *a b* 856, *a* 857; (Patents), XVIII, a 883; (Tournebout), XXIII, b 520; effects (Organ), XVII, a 863
——, Sir Edward, ship builder (Navy), XVII, *b* 293
REED, Henry, author, XX, a 897
REED, Joseph, patriot, XX, b 897–8
——, T. A., reporter (Shorthand), XXI, a 880 note, b 881
REED, William Bradford, lawyer, XX, a 898
Reed-Bunting, IV, b 470
—— moulding (Building), IV, a 439
—— pedal (Organ), XVII, a b 857
—— -pheasant (Titmouse), XXIII, a 447
—— thatching (Building), IV, b 449
—— thrush (Warbler), XXIV, b 387
—— warbler or Reed-wren (Birds), III, a 643; (Warbler), XXIV, 387
Reef, Great Barrier, Australia (Pacific Ocean), XVIII, a 120; (Queensland), XX, a 178, a 179
Reef-builders (Corals), VI, b 333, a b 334-6
Reefing gear (Sail), XXI, a 162; sails (Seamanship), a 629, a 630; knot (Seamanship), a 618; -points (Sail), a b 163
Reefs (Corals) (Ill.), VI, b 334–6, b 343; (Geology), X, a b 229
Reel, Scotch (Dance), VI, b 705
Reel-cutter (Paper) (Ill.), XVIII, a b 227
Reeler or reel-bird (Warbler), XXIV, b 387
Reeling (Linen Manufactures), XIV, a 673
Reels (Gunpowder) (Ill.), XI, a b 293
Reenberg, Töger, poet (Denmark), VII, b 79
Re-entrant mouthpiece (Hydromechanics), XII, a 491, a 492
Rees, Abraham, editor (Encyclopædia), VIII, a 179
——, Rice, author (David, St.), VI, b 740
Reese, river (Nevada), XVII, b 376
Rees's Cyclopædia (Tables), XXIII, a 12, a 17; (Wilson), XXIV, b 621
Re-evaporation, cylinder (Steam-Engine), XXII, a b 507, a 509, a 513
Reeve, bird (Ruff), XXI, a b 60, a 61
—— or bailiff, officer (Municipality), XVII, a b 36
REEVE, Clara, romancist, XX, b 332
——, John, fanatic (Muggleton), XVII, b 18
REEVE, Tapping, jurist, XX, a 898
Refectory (Abbey), I, *a* 18, a 19, *a* 20, a b 21, *a* 23, a b 24; (Architecture), II, a 415
REFEREE, in law, XX, b 332; (Arbitration), II, a b 274
Referendarius, official (Prussia), XX, a 23
Referendum, law measure (Bern), III, b 519; (Switzerland), XXII, *b* 834–5; (Thurgau), XXIII, a 352; (Veto), XXIV, b 224-5
"Referring object" (Geodesy), X, a 148

Refining (Copper), VI, a 310, b 312; (Gold) (Ill.), X, b 666-7, a b 668; (Iron) (Ill.), XIII, a b 327, a b 328; (Lead), XIV, b 376-7; (Oils), XVII, a b 764; (Paraffin), XVIII, a 247; (Petroleum), b 726, a b 890; saltpetre (Gunpowder), XI, b 238-9; shale-oil (Paraffin), XVIII, a 246; (Soap), XXII, a 214; (Sodium), b 256-7; (Sugar), b 660-1; (Gunpowder), XI, b 289

Reflecting angle-measuring instruments (Surveying), XXII, b 754; grating (Wave Theory), XXIV, b 461, b 463; levels (Surveying), XXII, b 757-8; Microscope, XVI, b 272; prisms (Lighthouse) (Ill.), XIV, b 624-5, a b 626

Reflection of light (Kaleidoscope), XIII, a b 836; (Light) (Ill.), XIV, b 581, b 590-4, a b 609, b 616-7, a 618; (Metals), XVI, *a* b 69; (Optics), XVII, a b 822; elastic solid theory of (Wave Theory), XXIV, b 482-4; polarization (Light), XIV, b 615; refraction and (Wave Theory), XXIV, b 481-2; total (Light), XIV, b 595; (Wave Theory), XXIV, a 475

——, mental (Locke), XIV, a *b* 765; (Psychology), XX, a b 89; introspective (Psychology), b 49

—— of sound (Acoustics) (Ill.), I, b 99-100

Reflections on the Revolution in France (Burke), IV, b 487-8

Réflections sur la formation et la distribution des richesses (Political Economy), XIX, b 374

Reflection theodolite (Surveying), XXII, b 757

Reflective faculties (Phrenology), XVIII, a 860

Reflector, thin plate in contact with (Wave Theory), XXIV, a 449

Reflectors (Lighthouse) (Ill.), XIV, b 623, a b 624

Reflector Telescopes, XXIII, b 157-8, *b* 932, b 933. a 934; inventor of (Telescope), b 148-50; mounting for (Telescope) (Ill.), b 166-7

Reflex action in medulla oblongata (Physiology), XIX, a 42; of spinal cord (Physiology), b 40-1

Reflexions morales sur le Nouveau Testament (Jansenism), XIII, a 577

Reflexive verbs (Grammar), XI, a 38

Reform agitations (Germany), X, a 454-5; (Switzerland), XXII, a b 833

Reform and Reform Bills, English (Abercromby), I, b 40; (Brougham), IV, a *b* 340, a b 341; (Burke), IV, b 486; (Campbell), b 669; (Communism), VI, b 191; (Derby), VII, a 96; (Durham, Earl), b 486; (England), VIII, b 197-8, a 327, b 328; (Finance), IX, a b 165-6; (George III.), X, b 381-2; (Grey), XI, a 170, a b 171; (Grote), a b 190-1; (Hume, J.), XII, a 370; (Jeffrey), XIII, a 629; (Manchester), XV, a 472; (Mill, J.), XVI, a 323; (Mill, J. S.), b 323; (Napier), XVII, b 193; (Parliament), XVIII, a 314-6; (Peel), a 466; (Pitt), XIX, b 146, a 148, a 153, b 158; (Registration), XX, a 357; (Russell), XXI, a *b* 70, a 71; (Spencer), XXII, b 406; (Wellington), XXIV, *a* 527; (William IV.), b 612-3; riots, 1831 (Bristol), IV, b 316

Reformatio Legum Ecclesiasticarum (Divorce), VII, b 261

REFORMATION, XX, a 332-50
    authorities, a 350
    Bohemia and Poland, a 349
    compromises sought in Germany, b 347-8
    controversies of reformers, a 345-6, a b 348
    Cranmer, a 343-4
    divorce of Catherine of Aragon, b 342-3
    doctrinal reform, efforts for, b 334-5
    England, a 340-1, a 342-4, a b 349
    Erasmus, Luther, and von Hutten in Rome, a b 338
    France, b 336-7, a b 347
    German episcopate, b 338
    German learning, b 337-8
    Ireland, b 349-50
    Italy in 1521-1526, a 341-2
    limits of, a b 332
    Luther's relations with Leo X., a 339-40
    Netherlands, a 349
    new learning, b 335-6
    papal politics, a 336-7
    phases of, b 332-3
    political motives, influence of, a b 335
    reform of discipline desired, b 333-4
    Scandinavia, b 348-9
    Schmalkald League, a b 346-7
    Scotland, b 349
    Switzerland, a 344-5, b 346
    Tetzel, b 338-9
    Wolsey's policy, a b 342

—— (Adrian VI.), I, a 151; (Albert, Cardinal), a 400; (Aleandro, Cardinal), b 421; (Ales, Alexander), b 423; (Altar), a 564; (Alasco), a 393; (Amsdorf), b 683; (Anabaptists), a 690; (Apologetics), II, a b 168; (Aquila), a 201; (Beaton), III, a 402; (Bristol), IV, b 315-6; (Bugenhagen), a 399; (Calvin), IV, a b 633-4; (Canon), V, a b 14; (Caricature), a 92; (Channel Islands), a 341; (Charles V., Emperor), a b 359, a 360-1; (Church), a 663, a 664; (Church History), b 668-9; (Confession), VI, a 229; (Convocation), a 291; (Cranmer), b 487-8; (Creeds), a 499-500; (Decalogue), VII, a b 17; (Denmark), b 72, a b 75; (Divorce), b 261; (Drama), a b 380; (Education), b 583-4; (England), VIII, b 298-9; (English Literature), a b 372; (Episcopacy), b 434, *b* 435, *a* 436; (Erasmus), a b 456; (Ethics), a b 524; (Eucharist), b 573-4; (Faber, Johann), b 731; (Farel, G.), IX, b 29-30; (Fasting), b 43; (France), a 492, b 575, b 599; (Frederick III. of Saxony), b 651; (Freemasonry), a 658; (Frisians), b 692; (Fulda), b 713; (Geneva), X, a b 134; (German Literature), a 472-4; (Germany), a 446-7, b 449-50; (Glarus), b 567; (Greek Church), XI, a 141; (Guild), b 231-2; (Gustavus I.), b 297, a 298; (Hamilton, P.), a b 371; (Henry VIII.), a b 593; (Holbein), XII, b 57; (Holland), a 77-80, b 95; (Hooper), a b 157; (Huguenots), b 351-4; (Hungary), a b 384; (Huss), b 419-22; (Hutten), a 428; (Hymns), b 620, b 623; (Iceland), b 656: (Image Worship), b 752; (Indulgence), a 888; (Ireland), XIII, a 269-70; (Issoire), b 442; (Jesuits), a b 659; (Knox), XIV, a 133-5; (Latimer), b 325-7; (Leo X.), a b 451; (Liturgy), a 716-7; (Lollards), *a* 822; (Luther), XV, b 76-81; (Lyndsay), b 108, b 109; (McCrie), b 133. b 134; (Magdeburg), b 198; (Marot), b 570; (Melanchthon), b 842-3; (Milicz), XVI, b 307; (Millennium), a 330; (Monachism), b 737-8; (Moravian Brethren), a 838; (Murray), XVII, b 68-9; (Mysticism), a b 141; (Napier), b 184; (Norway), b 603; (Œcolampadius), a b 750; (Osiander), XVIII, b 58-9; (Pamphlets), b 208; (Renaissance), XX, b 393, a 394, b 400-1, b 403-4, a *b* 404, b 405; (Schwenkfeld), XXI, b 484-5; (Scotland), b 521-30; (Spalatin), XXII, a 380; (Styria), a 647; (Sunday), b 688; (Sweden), a b 786; (Switzerland), b 828-9; (Thurgau), XXIII, a 352; (Universities), a 900-1, b 905, a b 908; (Vaud), XXIV, a 126; (Zwingli), a b 872. See Protestantism

——, Catholic counter- (Paul III.), XVIII, b 441; (Pius V.), XIX, b 164; (Renaissance), XX, a 401, a 402, b 403, *a* b 404, b 405; (Switzerland), XXII, b 829-30; (Trent, Council of), XXIII, a b 578, b 582-3, b 586; (Universities), a 898, b 901

Reformation, History of the, by Burnet, IV, a 502, a 503; by D'Aubigné, J. H. M., VI, a 733; by Hardt, XI, a 425; by Sleidanus, XXII, b 168; Viller's (Mill, James), XVI, a 319

Reformation of Calendar, IV, b 595-601

Reformation touching Church Discipline in England (Milton), XVI, a 341

REFORMATORIES IN UNITED STATES, XX, a 898-904
    ADULT, b 901-4
        classes of prison, a b 902
        cost, b 902-3
        lease-system, b 901-2
        methods, a b 903
        statistics, b 903-4
    definitions, a 898
    JUVENILE, b 898-901
        control, b 898
        methods, b 899-900
        private, b 898-9
        results, a b 901
        statistics, a 901
        statutory, b 899-901
        structural classification, b 900

—— (Connecticut), VI, a 257; (Michigan), XVI, a 249; (Prison Discipline), XIX, b 783-4

REFORMATORY AND INDUSTRIAL SCHOOLS, XX, a 350-2; (Police), XIX, b 347; French (Prison Discipline), b 779. See Penitentiaries

Reformed church of Armenia, II, b 481

REFORMED CHURCHES, XX, a b 352; of Germany, X, a 422; of Holland, XII, a b 69; (Dort, Synod of), VII, a 324; union with Lutherans, XV, a 87

REFORMED EPISCOPAL CHURCH, XX, a 904-5

—— Jews (Mahzor), XV, a 295

Reformed Pastor (Baxter), III, b 393

Reformed Presbyterian Church, American, XIX, b 718, *a* b 719; Scotch, a 704, note. See COVENANTERS

Reformers (Dogmatic), VII, a 290, b 291, b 293, b 294, b 295-6; (Hermeneutics), XI, *a* b 668; (Inspiration), XIII, b 162-3; theology (Theism), XXIII, b 262-3, note

——, magistrates (Rome), XX, a *b* 819, a 820

Reforms, ecclesiastical (Italy), XIII, b 469-70, b 499; (Mexico), XVI, b 898, a 899

Refracting media of eye (Anatomy), I, a b 781; prism, straight (Lighthouse), XIV, a 625

—— Telescope (Ill.), XXIII, a 151-5; (Telescopic Work), *a* b 934; Clark's (Telescopic Work), a 935; mountings for (Telescope) (Ill.), a 159-66

Refraction of light (Crystallography), VI, b 594, a 597, b 598; (Diamond), VII, a b 141; (Diffusion), b 186, b 188; (Geodesy), X, b 153-4; (Light), XIV, b 581, a 594-605, b 609-10, a 617; (Navigation), XVII, b 280; (Newton), XVII, b 451-2; (Optics), a 821, a 822, a 823-6; (Radiation), XX, *b* 220, a 221; (Snell), XXII, a 211; atmospheric (Astronomy), II, a 672-3: (Parallax), XVIII, a 252, b 253; calculation of (Surveying), XXII, b 741-2

Refraction, double (Arago), II, b 266; (Brewster), IV, b 246; (Light) (Ill.), XIV, b 614-9; (Mineralogy), XVI, a b 388, a b 389; (Wave Theory), XXIV, a 444, a b 470, a 473-5
——, errors of (Ophthalmology), XVII, a 807; overcoming (Surveying), XXII, b 734-5; and reflection (Wave Theory), XXIV, b 481-2; solar, correction for (Navigation), XVII, b 275
——of sound (Acoustics), I, a *b* 99
Refractione, De (Porta), XIX, *b* 540
Refractive index (Light), XIV, a 595, b 596, b 602, a b 614; (Optics), XVII, a b 824; of plates, b 823; of prisms, a 824-5
Refractor, cylindrical (Lighthouse), XIV, a 626; differential (Lighthouse), a 629
Refrain, poetic (Rondeau), XX, *a* 863
Refrigeration (Baths), III, b 380; (Carbon), V, a 78; (Ice), XII, a b 647-9; (Methyl), XVI, a 204-5; (Preserved Food), XIX, a b 728
—— of living forms (Biology), III, b 588; maximum (Chemistry), V, a b 444; rate of, in earth's crust (Geology), X, b 199-200, a b 202; of seed (Agriculture), I, b 324
Refunding public debt (United States), XXIII, a b 833
Reg of Naglowice, poet (Poland), XIX, a 312
Regal, musical instrument (Pianoforte), XIX, a b 73
Regalecus, genus (Ribbonfishes), XX, a b 546
REGALIA, XX, b 352-3; (Prerogative), XIX, a 692; (Sceptre), XXI, b 401-2; of French Crown (Bossuet), IV, b 63; oriental (Bracelet), b 169
Regalias, cigars (Tobacco), XXIII, b 454
Regal portraits (Numismatics), XVII, a 648
Regatta (Henley-on-Thames) XI, b 583; (Rowing), XXI, a b 36, a 38
Rege inconsulto, Writ, XXIV, a 731
Regelation (Capillary Action), V, b 58; (Ice), XII, a 647; theory (Glacier), X, a 562
Regency, the (Brazil), IV, b 209-10
——, British (George IV.), X, b 384; (Pitt), XIX, b 152; Bill (England), VIII, b 322
Regeneration, dogma (Baptism), III, a b 301; (Gospels), X, b 730-1
—— dental (Snakes), XXII, a 201; of parts (Annelida), II, a 60, a 62; (Arachnida), b 261; (Crustacea), VI, a 578; (Pathology), XVIII, a 368
Regenerative drafts (Smoke Abatement), XXII, b 191
—— Furnaces (Iron) (Ill.), XIII, a 301-2, a 351; (Natural Gas), XVIII, b 897; (Siemens), XXII, a 43
—— principle (Steam-Engine), XXII, b 501-2
Regenerator, heat (Siemens), XXII, b 42-3; Stirling's (Steam-Engine), b 501, *a* 550
Regensburg, city. See RATISBON
REGENT, title, XX, a b 353
—— Diamond (Ill.), VII, a 144; (Mineralogy), XVI, b 396
Regents, officers (Universities), XXIII, a 891
Regent's Park (London), XIV, a b 827, a 830, a b 833, b 861
Regent Street (London), XIV, a 831, a 846, b 861
Regesta Pontificum Romanorum Potthast (Popedom), XIX, a 525
Reggio, province and town (Calabria), IV, b 577-8
——, duke of. See OUDINOT
REGGIO DI CALABRIA, city, XX, b 353-4
—— NELL' EMILIA, city, XX, a 354
Regia, palace (Rome) (Ill.), XX, b 838, note, a 839; (Vesta), XXIV, *a* 211
Regiam Majestatem (Women), XXIV, a 676
Regibo of Lille, musician (Ophicleide), XVII, a 800
Regicide, play (Smollett), XXII, b 193, b 194
—— *Peace, Letters on a* (Burke), IV, a 491
Regicides, English (Ludlow), XV, b 60; (Monk), XVI, a 780
Regidors or jurats (Alphonso XI.), I, b 542
Regierung, board (Prussia), XX, b 21
Regierungsbezirke, department (Prussia), XX, b 22 a 23
Regierungsrath, council (Soleure), XXII, a 264
Regillus, battle of (Castor and Pollux), V, a 174; (Rome), XX, b 754
Rêgi Magyar Nyelvemlékek (Hungary), XII, b 392
Regime of river channel (Hydromechanics), XII, a b 531
Regimen Sanitatis Salerni (Medicine), XV, a 816
Regiment, rise of the (Army), II, b 494, *a* b 495
Regimental Court-martial, VI, a 460
Regin, myth (Nibelungenlied), XVII, b 487-8
Reginald's Tower (Waterford), XXIV, a 423
Regino of Prüm, abbot (Canon Law), V, b 17
REGIOMONTANUS, astronomer, XX, a b 354; (Aëronautics), I, a 168; (Almanac), a 520; (Astronomy), II, a 657; (Automaton), III, a 124; (Calendar), IV, b 595; (Ptolemy), XX, a b 96; (Tables), XXIII, a 13; (Time), b 419, a 421; (Trigonometry), a 597
Region, position (Measurement), XV, b 671; (Variable), XXIV, *b* 77, b 78, a 79, *a b* 80, *a b* 81, a 82
Regiones or rioni, districts (Rome), XX, a *b* 817, a 821, a b 859; Augustan (Rome), a b 853; mediæval (Rome), a 806, a 807, a 810; Servian (Rome), b 831
Regis, Pierre-Sylvain, philosopher (Descartes), VII, *a b* 110
Registan, desert (Kandahar), XIII, a 845; (Shikarpur), XXI, a 840
Register, Weekly Political (Cobbett), VI, *a* 78
Registering Thermometers (Ill.), XXIII, a b 311
Registers, binder's directions (Bibliography), III, a 565
Registrar of the Admiralty, I, a b 147; of Friendly Societies (Savings Banks), XXI, b 343, *b* 344
REGISTRATION, XX, b 354-8
    bills of sale, b 356
    business requirements, b 356-7
    Irish franchise, b 358
    judicial, b 354-5
    land, a 355-6
    Parliamentary, a 357-8
    Scotch franchise, b 358
    ships, a b 356
    vital events, b 356
—— (Navigation Laws), XVII, a 286; (Newspapers), b 434; (Trade Marks), XXIII, a b 530; (Trade Unions), a 532; letter (Post-Office), XIX, b 586, b 595-6; of voters (Tammany Society), XXIII, b 920
Registry of Athenian children (Apaturia), II, b 130
Regium, town (Reggio di Calabria), XX, a 354
—— Donum (Ireland), XIII, b 246, a 247
—— Lepidi, town (Reggio Nell' Emilia), XX, a 354
Regius, Louis Leroyor, classicist (Descartes), VII, b 103, b 104
—— of Utrecht, anatomist (Harvey), XI, a 451
Règle du Temple, code (Templars), XXIII, a 176, a b 179
Regnans de Cœlo, bull (Templars), XXIII, a 180
REGNARD, Jean François, dramatist, XX, b 358-9; (Drama), VII, b 368, note; (France), IX, b 579
Regnault, Francis, printer (English Bible), VIII, b 346
REGNAULT, Henri, painter, XX, b 359; (Paris), XVIII, b 300; (Schools of Painting), XXI, b 460, a 464
REGNAULT, Henri Victor, chemist, XX, b 359-60; (Acoustics), I, a *b* 97; (Atmosphere), III, *a* 30, a 32; (Barometer), b 332, a 333; (Chemistry), V, b 403, a 404, a 419; (Egypt), VII, a 612; (Evaporation), VIII, *a b* 641; (Heat), XI, a b 511, b 512; (Liebig), XIV, a 570; (Pyrometer), XX, b 135, a *b* 136, *a* 137, a 138, b 140; (Thermometer), XXIII, b 309; his Hygrometer (Ill.), XII, b 604, a 605; his law (Steam-Engine), XXII, a 498, a 502 note, a 503; his Manometer (Ill.), XV, b 502; his method of analysis (Iron), XIII, a 296; his normal air thermometer (Heat), XI, *b* 502, *a b* 503, *a* 505, a 513, b 514; his thermal units (Heat), *b* 496, note, a 497
REGNAULT, Jean Baptiste, painter, XX, b 360; (Guérin), XI, a 219
Regnault de Montauban and his Three Brothers (Romance), XX, a 669
Règne Animal distribué d'après son Organisation (Cuvier), VI, b 654; (Ichthyology), XII, b 669
REGNIER, Mathurin, satirist, XX, b 360 1; (France), IX, a 573; (Malherbe), XV, b 336
—— Dynamometer, VII, a 505
Regnitzhof, town (Hof), XII, a b 46
Regrater (Agriculture), I, a 266
Regrets (Bellay), III, *a* 470
Regula (Grandimontanes), XI, b 42, a 43
Regulæ Juris (Canon Law), V, b 18
Regulating plates (Dentistry), VII, b 84, a 86
Regulator mechanism (Watch) (Ill.), XXIV, a 416
Regulators in North America (Tryon), XXIII, b 946
Regulus, alloy (Metallurgy), XVI, a 63, a b 66
——, courtier (Martial), XV, a 586, a 587
——, genus (Kinglet), XIV, b 84, a 85
—— or Rule, legend of St. (Scotland), XXI, a 496
—— in mathematics (Surface), XXII, a *b* 704
REGULUS, Marcus Atilius, consul, XX, b 361; (Rome), *a* 766
Reguly, Anthony, traveller (Hungary), XII, b 389, b 395
"Rehabilitation of the flesh" (Saint Simon), XXI, b 208
Rehearsal, The, burlesque (Dryden), VII, *b* 423, a 424
—— *Transprosed*, satire (Marvell), XV, a 596
Rehoboam, king (Israel), XIII, a b 416
REICHA, Anton Joseph, musician, XX, b 361
REICHENAU, island, XX, b 361-2; monastery (Libraries), XIV, a 513
REICHENBACH, Saxony, town, XX, a 362
REICHENBACH, Silesia, town, a 362; battle of, 1762 (Austria), III, b 112
——, Carl von, Baron (Magnetism, Animal), XV, b 280
REICHENBACH, Georg von, instrument maker, XX, a 362; (Transit Circle), XXIII, a b 548, notes
——, Heinrich Gottlieb Ludwig, naturalist (Ornithology), XVIII, b 17
REICHENBERG, town, XX, a b 362
REICHENHALL, town, XX, b 362
Reichenow's, Anton, classification of Parrots, XVIII, a 329

Reichenstein, Müller von, chemist (Selenium), XXI, b 663
Reichert, Carl B. (Embryology), VIII, a b 153, b 154, a 155
Reichert's process of detection (Oleomargarine), XVII, b 782
Reichsbank (Germany), X, a 419
Reichsgericht, tribunal (Germany), X, a 461
Reichsrath (Austria), III, b 106-7, a b 121, b 123; (Bavaria), b 380-1; (Hungary), XII, a b 388
REICHSTADT, Duke of, XX, b 362; (Napoleon II.), XVII, a 233
Reichstag, assembly (Diet), VII, b 173; (Germany), X, *b* 416-7; Hungarian (Austria), III, a 107; social democrats in the (Socialism), XXII, b 226
Reichsvogtei, government (Zurich), XXIV, a *b* 870
Reid, John, physician (Vascular System), XXIV, a 106, b 107
REID, Mayne, novelist, XX, b 362-3
——, Robert, bishop (Edinburgh, City), VII, a 577; (Kirkwall), XIV, *b* 101
REID, Samuel Chester, naval officer, XX, a 905
——, Thomas, clockmaker (Clocks), VI, b 27
REID, Thomas, philosopher, XX, a 363-5; (Æsthetics), I, b 191, b 199; (Association of Ideas), II, a 639; (Brown, Dr. Thomas), IV, *a* 349; (English Literature), VIII, b 384, a 385; (Ethics), b 531-2; (Ferrier, J. F.), IX, a b 97; (Hamilton, Sir W.), XI, *a* 372, a 375; (Hume), XII, b 368; (Hutcheson), a b 426; (Royer-Collard), XXI, *a* 46; (Stewart, D.), XXII, b 574
——, Walter, physician (Surgery), XXII, a 719
REID, Sir William, governor, XX, a 365
Reifträger, peak (Riesengebirge), XX, b 566
REIGATE, borough, XX, a 365; (Surrey), XXII, b 729, a 730
Reign of Terror (France), IX, a b 534; (Italy), XIII, a b 496; (Paris), XVIII, a 282 note
Rei lands (Egypt), VII, a 614
Reimann's table (Coal Tar Colors), XVIII, a 902
REIMARUS, Hermann Samuel, critic, XX, a 365-6; (Lessing), XIV, b 481
Reims. See RHEIMS
Rein, Jonas, author (Norway), XVII, b 604
REINAUD, Joseph Toussaint, orientalist, XX, a 366
Reindeer (Deer), VII, a 22, b 23-4; (Greenland), XI, *a* 151; (Lapland), XIV, a 306, a b 307, a 308; (Newfoundland), XVII, a 393; (Norway), a 595; (Nova Zembla), b 620; (Spitzbergen), XXII, b 424; (Yakutsk), XXIV, a 763; fossil (Archæology), II, a b 294
—— -moss (Lichens), XIV, a 563
Reine de Femmes, flower (Hyacinth), XII, b 435
Reineke Vos or *Fuchs*, folklore (Alkmaar), I, b 509; (Germany), X, a 472, b 473; (Goethe), b 651; illustrated (Kaulbach), XIV, b 118. See *Reynard the Fox*
"Reine Margot," queen. See MARGUERITE DE VALOIS
Reinhard, Karl Friedrich, diplomatist (Talleyrand), XXIII, b 37
Reinhardt, Christian Tobias Ephraim, physician (Whale), XXIV, b 552, a 553
——, J. T., naturalist (Ornithology), XVIII, a 37 note
——, Walter, adventurer (Meerut), XV, b 835; (Patna), XVIII, a 420
Reinhold III, count (Franche Comté), IX, a b 605
——, Erasmus, mathematician (Tables), XXIII, a 13
REINHOLD, Karl Leonhard, philosopher, XX, a b 366
Reinite (Mineralogy), XVI, b 420
Reinkens, Joseph Hubert, bishop (Episcopacy), VIII, b 436; (Old Catholics), XVII, b 776, a *b* 777, *a* 778
Reinosa, pass (Spain), XXII, b 307
Re-insurance (Insurance), XIII, b 171-2; marine, b 191
Reis, Philip, inventor (Telephone), XXIII, a 137, *a* b 138, b 930
Reis and milreis, units of money (Brazil), IV, a 213
Reisebilder (Heine), XI, b 528, a 560
Reisig, Karl Christian, philologist (Ritschl), XX, *b* 583
REISKE, Johann Jacob, physician, XX, b 366-8; (Tabarí), XXIII, a 9
Reisner-work (Buhl-Work), IV, b 399
Reiss, Wilhelm, explorer (Cotopaxi), VI, a 426
Reithrodon, genus (Mammalia), XV, a 424; (Mouse), XVII, a 12
Rej of Naglowice, poet (Poland), XIX, a 312
Rejang river (Borneo), IV, b 50; (Saráwak), XXI, a *b* 321
Rejected Addresses, Smith (Parody), XVIII, b 324; (Smith), XXII, a b 183, note
Rejuvenescence (Histology), XII, a 15; (Morphology), XVI, b 867
Reka, river (Görz), X, b 700
Rekem, town. See PETRA
Rekhtah dialect (Hindustani Literature), XI, a 756, a 757
Rekhtas (Hindustani Literature), XI, a 754
RELAND, Adrian, orientalist, XX, a 368
Relapsing fever (Pathology), XVIII, b 413; (Typhus), XXIII, a b 723
Relapse, comedy (Vanbrugh), XXIV, *b* 61, *a* 62
Relative harmonic motion (Mechanics), XV, a b 697
—— Wages, XXIV, b 330-1
Relativity in thought (Absolute), I, b 58; (Diderot), VII, b 168; (Hamilton, Sir W.), XI, a *b* 373, a b 374; (Herbart), a b 642, a 643; (Metaphysic), XVI, b 99, b 102; (Psychology), XX, a 54-5, b 77; (Scepticism), XXI, *a* 398, b 399, note, b 400; Spinoza on (Cartesianism), V, b 134-5
—— of beauty (Æsthetics), I, b 192, b 193, b 196, a 199
—— in Political Economy, XIX, *b* 405
Relay, electric (Morse), XVI, b 874; (Telegraph), XXIII, a 132
—— governors (Steam-Engine) (Ill.), XXII, b 532-3
Release defined (Steam-Engine), XXII, b 505, b 506, a 513
RELICS, XX, a 368-70; (Ambrose, St.), I, a 583; (Eginhard), VII, *b* 605; (Einbeck), a 685; (Gregory Illuminator), XI, b 160; (Nazareth), XVII, *a* 312; discovery of (Helena, St.), XI, a 562; removal of (Catacombs), V, b 180; Royal (Scotland), XXI, b 515. See Pilgrimage, Shrines
Relief, conversions of (Stereoscope), XXII, a b 568
——, military term (Fortification), IX, a b 372
—— Church (Presbyterianism), XIX, a 705; (Scotland), XXI, b 562; (United Presbyterian Church), XXIII, b 776
—— rings, slide valve (Steam-Engine) (Ill.), XXII, a 528
Reliefs, sculptured (Babylonia and Assyria), III, a b 164-5; (Bartolini), a 348; (Bronze), IV, a 332; (Fine Arts), IX, b 178, a 179; (Mural Decoration), XVII, a 40-1, b 42-3; (Olympia), b 790; (Phrygia), XVIII, b 864; (Pisano) (Ill.), XIX, b 131, *b* 132, a 133; (Pistoia), a 141; (Robbia) (Ill.), XX, b 604-5, *a* b 606, a b 607; (Rome), a b 840; (Rosselino) (Ill.), b 879-80; (Sculpture) (Ill.), XXI, b 582, a *b* 583, a b 584, note, a b 591, a b 594, a 595 note, b 598; (Venice), XXIV, b 160, a b 166, a 169; (Verona), b 186. See Carving
——, Greek coins (Numismatics), XVII, a b 649
—— societies. See Friendly Societies
—— works, government (Ireland), XIII, b 276
Religio Medici (Browne, Sir Thomas), IV, *b* 350, a 351
Religion (Alphabet), I, b 533; (Arabia), II, a 216, b 217-8, b 227-8; (Augustus Cæsar), III, a b 71, a b 72; (Averroes), a b 130; (Belgium), a 447; (Bechwana), a b 413; (Bilaspur), a 580; (Borneo), IV, a 52; (Cannibalism), a b 713; (Charron), V, b 373-4; Chinese, b 576-7, b 582-3; (Comte), VI, a b 211; (Confucius), b 234; (Demonology), VII, b 53-7; (Denmark), b 72-3; (Dogmatic), b 289-90; (Drama), b 346-7; (Druses), a 417, a 418-9; (Ecstacy), b 558; (Egypt), a 619-24; (England), VIII, a 223-5; (Eskimo), b 482; (Ethnography), a b 547; (Europe), a 625-6; (Evolution), a 671, b 673-4; (Faraday), IX, a b 29; (Festivals), b 99, a 101; (Fetichism), b 103; (Fichte, J. G.), a b 118, a 119; (Fiji Islands), a 138; (Finance), a 151; (Flag), b 242; (France), a b 452; (Gipsies), X, b 549; (Gioberti), a 541; (Government), XI, a b 16, a b 17; (Hafiz), a 329; (Hawaiian Islands), a b 472, a 474; (Hegel), b 547, *b* 551, b 553, a 554; (Hittites), XII, b 29; (Holland), a b 69; (Homer), a b 115, b 123; (Hottentots), a 325; (Iceland), a 654; (Image Worship), a 749-53; (Independents), a 761-7; Indians of America, I, b 606, b 610; XII, a 863; (Infant), XIII, a 4; (Insanity), a 112, a 113; (Israel), b 407-9, a 410, a b 412, a 413, a b 416, note, b 419-20, a b 421, a 422, a b 425-6, a 429-30; (Job), a 710, a 711, a b 713; (Kaffraria), a 829; (Kurdistan), XIV, b 158-9; (Lessing), b 481, *a* 482; (Lotze), XV, a 16; (Lydia), a b 100; (Marriage), a 576; (Metaphysic), XVI, b 96, a 104-7; (Mohammedanism), a 614, a 617; (Mexico), a 227, note; (Mysteries), XVII, a 134, a 136; (New Guinea), a b 398; (Palmyra), XVIII, a b 203, note; (Parsis), b 332; (Pelew), b 484-5; (Philistines), a b 770, notes; (Phœnicia), b 815-6; (Pindar), XIX, a b 109; (Polynesia), b 439, a b 440; (Pueblo Indians), XX, a b 889; (Rationalism), a b 302, a b 303; (Relics), b 368-9; (Rousseau, J. J.), XXI, b 32; (Russia), b 89-90; (Schleiermacher), b 430-1; (Schopenhauer), a 476, a 479; (Scotland), a 560; (Scythians), a 603; (Siam), a b 893; (Stoics), XXII, a b 598; (Sweden), a 781; (Syria), a 861, b 862-3; (Taboo), XXIII, a 20-3; (Theatre), a b 246; (Theism), a 269; (Theology), b 281-2; (Tibet), b 365-6; (Totemism), a 497-501; (Uganda), b 765; (Zoroaster), XXIV, b 860-3
——, Akbar's (India), XII, a 834
Religion Anciently Professed by British and Irish (Usher), XXIV, b 21

Religion, Araucanian (Chili), V, a 538; Aryan primitive (India), XII, a b 820, b 821-2; Athenian guardians of (Areopagus), II, a 426; Aztec (Mexico), XVI, b 216-7, a 219-20
——, comparative study of XX, a 371; (Apologetics), II, b 166, a 167, a 169; (Herder), XI, b 651-2; (Schleiermacher), XXI, a 431; (Theology), XXIII, a b 281, b 284
——, freedom of (Ambassador), I, b 578-9; (Ferdinand III.), IX, b 68; (United States), XXIII, b 781, b787; (Universalists), a 952
——, *Indifference in the matter of* (Lamennais), XIV, a 240
——, Hindu (Bali), III, a 243; (Caste), V, b 165; (Hindustani), XI, b 753-6; (Incense), XII, b 758-9; (India), b 783-5; (Mexico), XVI, b 215; (Ordeals), XVII, a b 843, a 844; (Sanskrit), XXI, a b 289, a 293; primitive (India), XII, b 818-23. See BRAHMANISM, BUDDHISM
——, natural (Butler), IV, b 519-21; (Deism), VII, a 31-4; (Dogmatic), a b 290-1; (Herbert, Lord), XI, a 646; (Hume), XII, a 369; (Rationalism), XX, b 301-2; (Reimarus), b 365-6; (Shaftesbury), XXI, a 770; (Wollaston), XXIV, b 666. See Nature Religions
Religion, Natural, Dialogues on (Hume), XII, a 365, a b 369
——, *Natural History of*, Hume's, XII, a 364; Wollaston's, XXIV, b 666
——, Peruvian (America), I, b 612, a 615; primeval (Theism), XXIII, b 254
—— in public schools (Education), VII, b 589, b 590, a 591
——, revealed (Butler), IV, a b 521; (Parker, Theodore), XVIII, b 306, b 307; (Tindal), XXIII, a 431. See REVELATION
——, *Revealed, Defence of* (Conybeare), VI, b 293
——, Roman empire (Christianity), V, a 601, b 602-3; officers of (Nobility), XVII, a b 539
——, tribal (Germany), X, a b 426; uses of an imperfect (Germany), b 479
——, viking (Scotland), XXI, a 500
Religion der Volkommeneren (Teller), XXIII, b 172
—— *in its Relations to Civil and Political Order* (Lamennais), XIV, a 240
Religionis veterum Persarum Historia (Hyde, T.), XII, a 443
Religionis Zelus, bull (Capuchins), V, b 71
Religion of Protestants (Chillingworth), V, b 543
—— *of the Amazulu* (Demonology), VII, b 56
RELIGIONS, XX, b 370-84
  African group, b 374-5
  American aboriginal, b 376-7
RELIGIONS, *continued*
  Aryan family, a *b* 373
  comparative study, a b 371
  ethical religions, b 380-2
  ethics, differentiation of, b 378-9
  genealogical classification, b 371-3
  history and spread of, a 382-3
  literature, b 382-4
  Malayo-Polynesian, a b 377
  Mongoloid group, b 375-6
  morphological classifications, a 382
  Müller and Whitney theories, b 377-8
  Nature-worships, b 379-80
  old methods, b 370-1
  Pfleiderer's theory, a b 379
  Semitic family, b 373-4
——, fusion of (Macedonian Empire), XV, b 141; of the world (Theism), XXIII, a 269
Religion within the Limits of Reason (Kant), XIII, a 855
Religious American Periodicals, XVIII, b 555
—— consciousness (Schleiermacher), XX, b 428, a b 429, b 430, *a* b 431
—— dissensions over slavery (United States), XXIII, b 818
—— Drama, VII, a b 349, a b 353, a 357-8; (Italy), XIII, a 511. See Interlude, Miracle Plays, Moralities
—— Guilds, XI, b 231
—— murder (Thugs), XXIII, a 348
—— orders (Knighthood), XIV, b 117-8; (Monachism), XVI, b 740-1; (Oxford), XVIII, a 98, b 102; (Philippines), XVIII, b 766; (Popedom), XIX, b 513-4, a 515, a 516; (Theresa), XXIII, b 301-2; Oriental (Dervish), VII, b 98-9
Religious Sects, account of Eastern (Shahrastání), XXI, a 772; *of the Hindus* (Hindustani Literature), XI, *a* 754, note, *b* 755
—— tests (United States), XXIII, *b* 799, b 802; United Kingdom (Test Acts), XXIII, a 216-7; (Universities), a b 909, b 911
—— thought, progress of (Theism), XXIII, b 254-64
—— titles of sovereigns, XXIII, b 445
—— Tract Society, XXIII, *b* 525
Reliques of Ancient English Poetry (Minstrel), XVI, a b 502; (Percy), XVIII, b 534
—— *of Father Prout* (Mahony), XV, a 291
Relkovic, Matthias Anthony, author (Servia), XXI, b 723
Relly, James, divine (Universalist), XXIII, a 886, *b* 951-2
REMAINDER, REVERSION, XX, a 384-5
Remak, Robart (Embryology), VIII, *a b* 154, a 155; (Zoology), XXIV, b 855
Rembang, town (Java), XIII, a 617
Remboa river (Gaboon), X, b 4
REMBRANDT, Harmens van Rijn, painter, XX, a 385-90
  Amsterdam, first-manner period, a 386-7
  art environment of, b 385
  bibliography, a 390
  etchings of, b 389-90
  Hendrickie period, b 388
  insolvency period, b 388-9
  Leyden life, b 385-6
  second-manner period, a 387-8
—— (Dietrich), VII, b 185; (Engraving), VIII, a b 395; (Fine Arts), IX, b 183; (Hals), XI, *a* b 357; (Helst), b 572; (Hollar), XII, b 104; (Hoogstraten), *a* 152; (Metsu), XVI, a 207; (Schools of Painting) (Ill.), XXI, a 459, a 464, *b* 465
Remedies, medical. See Therapeutics
"Remedy," allowance in coinage (Mint), XVI, b 504 note, a b 506-7, b 510, b 513, a 514
Remembrance of Collins (Wordsworth), XXIV, a 704
Remiges, moult of (Birds), III, b 672
REMIGIUS, Remi or Remedius, bishop of Rheims, XX, a 390-1; (France), IX, a 467
—— of Auxerre, monk (Scholasticism), XXI, b 438-9
—— of Lyons, bishop (Predestination), XIX, b 689
Remington type-writer (Writing Machines), XXIV, b 733-4
Reminiscence (Condillac), VI, b 223; (Hamilton, Sir W.), XI, b 372, a 373; (Hartley), b 445; (Psychology), XX, *b* 67-8; Plato's (Metaphysic), XVI, a 95, a 96; (Plato), XIX, a 209
REMIREMONT, town, XX, a 391
Remission of sentences (Prison Discipline), XIX, b 775, a 776, *a* b 780, *a* 781, a 783
Remittent fever (Malaria), XV, a 320, b 321; (Pathology), XVIII, a 404-5
REMONSTRANTS, Dutch sect, XX, a b 391; (Ames, W.), I, b 645; (Arminius), II, a 484; (Dort, Synod of), VII, a 324; (Grotius), XI, b 194; (Holland), XII, *b* 81, a 82; (Wetstein), XXIV, *a* 549
——, Scotch sect (Scotland), XXI, b 536 note, a b 537
Remontoire escapement (Clocks) (Ill.), VI, b 20-2, b 27-9; (Watch), XXIV, a 419
Remorse (Insanity), XIII, b 112
Remorse (Coleridge, S. T.), VI, b 123
REMSCHEID, town, XX, b 391
Remus, myth (Romulus), XX, *b* 862
RÉMUSAT, Charles François Marie, Comte de, statesman, XX, b 391-2
——, Claire Elizabeth Jeanne, Madame de, authoress, XX, a 392; (Hortense), XII, a 214
RÉMUSAT, Jean Pierre Abel, orientalist, XX, b 391; (China), V, b 576; (Hwen T'sang), XII, a 435; (Lâotsze), XIV, a 296; (Tibet), XXIII, a 369
RÉMUSAT, Paul de, biographer, XX, a b 392
Remy, Joseph, fisherman (Pisciculture), IX, a 137
Renaison, river (Roanne), XX, b 604
RENAISSANCE, XX, a 392-406
  Catholic revival, a 401, a 402
  chronological limits, b 393-4
  criticism, a b 398
  definition of terms, a 392-3
  diffusion of learning, b 399
  education, b 398-9
  England, b 404-5
  explorations, marine, b 401-2
  fine arts in France, b 402-3
  fine arts and humanism, b 397-8
  French humanism, a 402-4
  German humanism, a 400-1
  Italian humanism, a 396-9
  literature, b 406
  manners, humanist, a b 399
  mediæval mental attitude, b 395-6
  method of article, a b 393
  naturalism, mediæval, a b 395
  Netherlands, a b 404
  political consequences of, b 405-6
  precursors of, a b 394
  scholarship and humanism, a b 397
  science and philosophy, a 398
  Spanish humanism, a 401-2
  speculation, mediæval, b 394
—— (Alchemy), I, b 407, a 411; (Cameo), IV, a 654; (Caricature), V, a 92; (Carving), a 147, a 148; (Drama), VII, a 360; (Drawing), a b 388; (Dürer), b 478; (Education), a b 583; (English Literature), VIII, a 369-72; (Filelfo, F.), IX, b 142; (Fine Arts), a 187; (Florence), b 293; (France), b 571, a 572, b 573, *b* 599; (Frederick II., Emperor), b 644; (Furniture), b 745, a 746; (Gems), X, a 126; (Germany), a 446, b 471, b 472; (Heinsius), XI, a 561; (Holland), XII, a 76, b 967; (Hymns), a b 619; (Iceland), b 662; (Illumination), a 747; (It-

Renaissance, *continued*
aly), XIII, b 488, b 509, a 514, b 516-20; (Jewellery) (Plate XII), a 688; (Latin Language), XIV, b 342-3; (Libraries), b 513-4; (Miniature), XVI, b 459; (Montaigne), a b 796; Müller, W. J.), XVII, b 23; (Nicholas V.), b 497-8; (Numismatics), b 672-3; (Petrarch), XVIII, a b 720, b 722-3, b 724, a 725; (Pico), XIX, b 89; (Plate), b 198; (Poggio), a b 286; (Reformation), XX, b 334, b 335-6; (Satire), XXI, b 334; (Sculpture), b 589; (Venice) (Ill.), XXIV, a b 167-8; of Catholicism (Leo X.), XIV, a b 452
——, theological activity of (Theism), XXIII, a b 262
RENAIX, town, XX, a 406
Renal arteries (Anatomy), I, a b 793; epithelium (Nutrition), XVII, b 703, *a* 704; glands of Nautilus (Mollusca), XVI, a 704; glomeruli, function of (Pathology), XVIII, b 395, a b 396; system (Mollusca) (Ill.), XVI, b 665, a b 670, a b 682; (Vertebrata), XXIV, b 197, *a* 201, a 202. See Kidney
Renaldeni of Padua (Thermometer), XXIII, b 308
Renan, Joseph Ernest, orientalist (Academy), I, a 73; (Apologetics), II, b 167; (Antichrist), *b* 110, note; (Calvin), IV, b 634; (Galatians), X, a 19, note, a 20; (Gospels), b 722-3, b 748; (Hebrew Language and Literature), XI, b 532; (Hebrews), b 540, note, *b* 541; (Isaiah), XIII, a 393; (Jesus Christ), a 668, a 680, note, b 682, b 683; (Kabyles), a 824; (Rousseau, J. J.), XXI, b 32; (Semitic Languages), *a* 674, b 688; (Syriac Literature), XXII, a 863, b 871 note, a 900
Renart, Roman du (France), IX, b 564-5
"Renascence of Wonder" (Rossetti), XX, a 881-3
RÉNAUDOT, Eusèbe, theologian, XX, a 406; (Academy), I, b 69, a 74; (Syriac Literature), XXII, a 872, b 874 note, b 890
——, Théophraste, editor (Newspapers), XVII, b 434-5; (Periodicals), XVIII, b 549
Renault, Cécile, conspirator (Robespierre), XX, b 620
Rendel, J. M., engineer (Harbors and Docks), XI, a b 415, a 416, b 418, a 420; his Hydraulic system (Gunnery) (Plate VI), XI, a 279
Rendering (Oils), XVII, a 762, b 764
RENDSBURG, town, XX, a b 406
Rendu, Louis, bishop (Glacier), X, a 560, b 562
RENÉ I. of Anjou, count of Provence, king of Naples, XX, b 406; (Charles the Bold), V, b 368; (Italy), XIII, b 488; (Lorraine), XV, a 8; (Schools of Painting), XXI, a 464; (Provence), XIX, b 903; (Spain), XXII, b 338, b 339
—— of Chalons, prince of Orange (Holland), XII, a 77
—— II. of Lorraine (Guise), XI, b 325; (Lorraine), XV, *a* 8
René, story (Chateaubriand), V, *b* 378, a b 379
Renegado, play (Massinger), XV, a b 625
Renery, Henry, philosopher (Descartes), VII, b 103
RENFREW, county, XX, a 407-8; (Scotland), XXI, a b 551, *a* 558
RENFREW, town, XX, a b 408
Renftle, Pastor (Old Catholics), XVII, a 777
RENI, Guido, painter, XX, b 408-9; (Albani), I, a 395; (Corenzio), VI, a 351; (Fresco), IX, a b 680; (Schools of Painting) (Ill.), XXI, b 455, a 463
Reniera, genus (Sponges) (Ill.), XXII, b 429, b 439, a b 441
RENNELL, James, geographer, XX, b 409-13
    ancestry, b 409-10
    maps and books of, b 411-2
    personal reminiscences, b 412-3
    sea-service, a b 410
    surveyor in India, b 410-1
—— (Africa), I, b 219; (Gaur), X, a b 103; (Geography), a *b* 168
——, John, soldier, XX, b 409, a 410
——, William, civil officer, XX, a 413, note
Rennell's current (Atlantic Ocean), III, a 19; (Biscay, Bay of), b 683
RENNES, town, XX, a 413-4; (Ille-et-Vilaine), XII, *a* 742; siege of, 1356 (Du Guesclin), VII, a 447; university (Moreau), XVI, a 846
Rennet (Cheese), V, b 394-5; (Dairy), VI, *a* b 680; ferment (Nutrition), XVII, b 694
Rennie, George (Bridges), IV, b 300; (Canal), a 694; (Harbor and Docks), XI, a 420
RENNIE, John, engineer, XX, a b 414; (Aqueduct), II, a 200; (Cambridge), IV, a b 643; (Canal), *a* 692; (Glasgow), X, a 571
——, Sir John, engineer, XX, b 414; (Bridges), IV, b 300
——, naturalist (Ornithology), XVIII, b 19, a 22
—— Diving-Bell (Ill.), VII, a b 256
Rennsteig or Rainteig, road (Thuringia), XXIII, b 353
Reno, river (Italy), XIII, a 446
——, town (Nevada), XVII, a 378
Renouard, Antoine Augustin, bibliographer, III, b 567, note
Renou screen (Thermometer), XXIII, b 310
Renouvier, Charles Bernard, critic (Category), V, a 197
Rensburg, town (Schleswig-Holstein), XXI, b 432, a 433
Rense, declaration of, 1338 (Germany), X, b 443
RENSHAW, William B., commodore, XX, a 905
Renson, biologist (Reproduction), XX, a 425, a 435
Rensselaer Polytechnic Institute (Troy), XXIII, a 627
RENT, XX, b 414-6; (Agriculture), I, a 367, a 369; (Corn-Laws), VI, b 362; (Distress), VII, *b* 231; (Hufeland), XII, a 350; (Hume), a 363; (Landlord and Tenant), XIV, b 273 note, a 274, a b 276, a b 277-8; (Tithes), XXIII, b 439-40; (Value), XXIV, b 53, b 56-7; (Workingmen in United States), a 917; Bastiat on (Political Economy), XIX, a 399; Carey on (Political Economy), b 398; early (Agriculture), I, a 262, a 263, a 268, a 269, a 270, a 271; Jones on (Political Economy), XIX, a 391; Petty's definition of (Political Economy), b 370; Ricardo on (Political Economy), b 387-9; (Ricardo), XX, a b 548; Roman coloni (Slavery), XXII, *a* 144; Smith on (Political Economy), XIX, a b 380, a 388, note; statistics (England), VIII, a b 202; taxes (Taxation), XXIII, b 93
——, Castle-guard, V, a 173
—— charges (Annuities), II, a 66; (Settlement), XXI, a 728
Rentes (National Debt), XVII, b 252
Rents of assize (Rent), XX, a 415
Rent seck, XX, a 415
Renuntiatio, process (Rome), XX, a b 789
RENWICK, James, physicist, XX, a b 905
——, James, Jr., architect, XX, b 905; (Smithsonian), XXII, b 914
——, James, martyr (Scotland), XXI, b 539
Reorganized Church of Latter-day Saints (Mormons), XVI, a 854
Rep, Outsger, explorer (Polar Regions), XIX, b 330
Repair, process of, human (Pathology), XVIII, a 368-73; (Surgery), XXII, a 717-8
Repairs (Landlord and Tenant), XIV, b 275
Repartimiento, law of (Bolivia), IV, b 16; (Columbus), VI, a b 156; (Las Casas), XIV, a 320
Repeal, Acts of (Statute), XXII, a 487
—— agitation (Ireland), XIII, a 277
Repeater-Watches, XXIV, a 419
Repeating circle (Mayer, J. T.), XV, b 655
—— light (Lighthouse) (Ill.), XIV, a 631
"Repeller" (Lightning Conductor), XIV, a 641
Repertorium Aureum (Durandus), VII, a 477
Repetition action (Pianoforte) (Ill.), XIX, *a* 83
—— of representations (Psychology), XX, b 66-7
Rephaim, race (Bashan), III, b 353, b 354
Rephidim, oasis (Sinai), XXII, a 96
Repique in play (Piquet), XIX, a 124
Replenisher, instrument (Electrometer), VIII, a b 114
REPLEVIN, XX, a 416; (Brehon Law), IV, b 227; (Distress), VII, a 232; (Writ), XXIV, a 731
REPORTING, XX, a 416-9; (Shorthand), XXI, b 876, b 877, a 879, note, a b 880, notes; debates (Parliament), XVIII, a 314
Reports, privilege of (Libel), XIV, b 505
Repoussé work (Jewellery), XIII, *b* 686, *a* 687, a 689; (Metal-Work), XVI, a b 78, b 79, b 80-1; (Sculpture), XXI, b 585
Representants, party (Geneva), X, a 135
Representation of ground (Surveying), XXII, a 746-8
——, law of (Sale), XXI, b 218
Representative Government, XI, a b 12, a 13, a b 14; (Colonies), VI, a 144; (Constitution and Law), b 275; (George III.), X, b 383-4; (Germany), a b 417; early (Brabant), IV, a 169; minority in (Mill, J. S.), XVI, b 325, a 326; rise of (Parliament), XVIII, b 308, b 309, b 310, a 312, b 313, b 314-5; (United States), XXIII, b 778, b 779, b 781, *b* 786
—— ideas (Arnauld), II, a 543
Representative Men, Emerson's (American Literature), I, a b 640; (Montaigne), XVI, a 798
Representative Primogeniture, XIX, a 753
Representatives, House of (United States), XXIII, b 797, b 798
Representative taxation (United States), XXIII, a 788
Reprisal (Cabinet), IV, a 551; (Contraband), VI, a 285; (International Law), XIII, a 200; letters of (Admiralty), I, b 146
Reprobation (Pelagius), XVIII, a 483
REPRODUCTION (Ill.), XX, a 419-44
    ANIMAL, a 419-35
        anatomy and physiology of spermatozoa, a b 423
        asexual, a 419
        comparative anatomy of organs, b 420-2
        comparative embryology, a 431-2
        copulation, a 422
        embryology, a 431-5

REPRODUCTION, *continued*
ANIMAL
fertilization, b 429–30
gestation and birth, a b 422
Haeckel's biogenetic law, a b 434
heredity, b 433–4
homology, b 432–3
mass and composition of ovum, b 425-6
maturity, a 419–20
maturation of ovum, b 428-9
menstruation, a b 420
ontogeny of spermatozoon, b 425
oogenesis, a b 426
ovum, b 425-31
parental care, b 422
segmentation of ovum, b 430-1
sexual, a 419–35
Spencer on development, b 434–5
spermatogenesis, b 423-5
spermatozoon, a 423-5
structure of ovum, b 426-8
von Baer's law, a 434
BIBLIOGRAPHY, a 435, b 444
VEGETABLE, a 435–44
algæ, a b 437, a 438
alternation of generations, b 442-4
angiosperms, a 441
apogamy or apospory, a b 444
ascomycetes, b 438–9
asexual, b 436–7
cause of sexuality, b 440-1
diœcism, b 441–2
fruit and seed, a 442, a 443
fungi, b 438-9
multiplication, b 435–6
parthenogenesis, b 440
physiology of, b 439–42
sexual, a 437–42
spores, germination of, a b 442
thallophytes, alternation of generations in, a 443–4
true reproduction, a b 436, b 441

—— (Actinozoa), I, a *b* 120; (Animal Kingdom), II, b 45, a 46; (Ant), a 85, b 87, b 88; (Bee), III, b 425; (Biology), a b 593-5; (Breeds), IV, b 219-20; (Egg), VII, b 603-4; (Galls), X, b 40; (Hybridism), XII, a b 439, a 440-1; (Hymenoptera), b 607–8, a 609, a 610; (Ichthyology), a 698-700; (Hydrozoa), a 581, *a* 583, b 585, a b 586, b 589, a b 590, a 593, a 594, b 595, b 596, *b* 597, a 599; (Leech), XIV, b 402-3; (Leeuwenhoek), a b 412; (Mole), XVI, b 631; (Protozoa), XIX, a b 858-9, b 881-2, b 883, b 885, b 889-90; (Rotifera), XXI, b 11; (Salamandra), b 214–5; (Salmonidæ), b 231, a 235; (Sauropsida), b 338; (Schizomycetes), b 419–21; (Sex), a 756–60; (Siredon), XXII, b 104–5; (Snakes), b 202; (Sponges), b 440-1; (Teredo), XXIII, a 202; (Tunicata), b 647, a 655, b 656, a 657
—— of parts. See Regeneration of parts
—— of plants (Botany) (Ill.), IV, *b* 81, b 107-47; (Diatomaceæ), VII, b 147–8; (Histology), XII, a b 15; (Horticulture), a 215, a 216, a b 219-21; (Lichens), XIV, a 557–9; (Muscineæ) (Ill.), XVII, b 71-3, a b 75, a 77–8; (Vegetable Kingdom), XXIV, b 136, a *b* 137, *a* b 138; homologies of, a 142
Reproductive and individual functions, antithesis of (Variation and Selection), XXIV, a b 91, a b 92
—— organs (Annelida), II, a 60, a b 62, a b 63; (Amphibia), I, a b 674; (Ape), II, b 145; (Birds), III, b 630; (Corals), VI, a 329; (Crustacea), b 567–8; (Cuttle-Fish), b 652; (Dragon-Fly), VII, a b 334; (Echinodermata), a 544, b 545, a 546, a 548, a 550, b 551, b 554; (Horse), XII, b 184; (Insects), XIII, a 152–3; (Mammalia), XV, b 370–3; (Mollusca) (Ill.), XVI, a 659, a 665, a 666, a 667, b 682–3, b 685–6, a b 692, a 707–8, b 719; (Nematoidea), XVII, b 333–4; (Nemertines), a 340; (Oyster), XVIII, a b 110; (Planarians), XIX, b 183–4; (Polyzoa), a 447, b 448, b 449, b 451, a 452; (Tape-Worms), XXIII, b 56; (Trematoda), b 570–1, b 573, *a* b 574; (Tunicata), b 651–2, b 654, b 655, a 658; (Worm), XXIV, b 712–3, b 715–8; development (Vertebrata), b 197, b 201, a 202, a 203; destruction of (Parasitism), XVIII, b 267. See Generative System, Sexual Organ
—— power of air (Geology), X, a 236–7; of living things (Geology), a b 257; oceanic (Geology), a 255–6; of rivers (Geology), b 245–7
REPSOLD, Johann Georg, instrument maker, XX, b 444; (Transit Circle), XXIII, a b 548; (Micrometer) (Ill.), XVI, b 252, a 255, a 256, b 258, b 263, a b 264; his mounting (Telescope), XXIII, b 162, a 165, b 169; his small equatorial (Telescope), a 164
Reptantia, section (Mollusca), XVI, b 672, b 677
REPTILES (Ill.), XX, a 444–87
ANATOMY, b 457–77
alimentary system, a 470-1
appendicular skeleton, b 465–8
axial skeleton, b 459–62
bibliography, a b 478

REPTILES, *continued*
ANATOMY
embryology, a 477–8
external skeleton, b 458-9
general characters, a b 458
generative organs, a 476-7
girdles, limb, a 466–7
limbs, b 467–8
myology, b 468–70
nervous system, a 473-4
respiratory system, b 471-2
sense organs, a 474–5
skull, a 462–5
urinary system, b 475–6
vascular system, a 472-3
FOSSIL DISTRIBUTION, b 478–80
general characters, b 454
GEOGRAPHICAL DISTRIBUTION, a 480–6
African region, b 481–3
Europo-Asiatic region, b 485–6
Indian region, b 480–1
New Zealand, a 486
North American region, b 484–5
résumé, a 486–7
tropical American, b 483–4
tropical Pacific, a b 483
HISTORY, a 445–51
Aristotelian school, a 445-6
Batrachians separated, a b 450
Blainville and Merrem to Wagler, b 448-9
Brongniart and Daudin, a b 447
Chelonia, works on, b 453
Crocodilia and Lacertilia, works on, b 451-2
Duméril and Bibron, b 449–50
faunistic works, b 453-4
Fitzinger, a b 449
Linnean period, a 446–7
literature, b 451–4
Ophidia, works on, b 452-3
Oppel's classification, b 447–8
Sauropsida class formed, b 450–1
orders, descriptive list of, b 454–7
term, scope of, a 444–5

—— (Afghânistân), I, b 209; (Africa), b 232; (Alps), b 557; (Amphibia), b 657, a 958; (Anatomy), b 741–2; (Australia), III, b 97; (Distribution), VII, b 234, a b 235, *a b* 236, *a* b 237, a *b* 238, *a* 239, a *b* 245, 246, b 247, a 248; (Embryology), VIII, a 155; (Europe), a 610; (Guatemala), XI, a 213; (Guiana), b 222; (Hibernation), a b 704; (Himalaya), a 745; (Ichthyosaurus), XII, a b 734; (Iguanodon), a b 740; (India), a b 781; (Longevity), XIV, b 868; (Mimicry), XVI, a 354, a 356; (New Guinea), XVII, a 397; (New South Wales), a 421; (New York), b 463; (Plesiosaurians), XIX, b 232-3; (Reproduction), XX, a 422, a 432; (Sauropsida), XXI, a b 338; (Sex), b 757; (Spain), XXII, a 312; (Touch), XXIII, a 509; (West Indies), XXIV, b 539; (Zoology, American), b 924, a b 925; American cretaceous (Geology), X, b 319; appendicular Skeleton, XXII, a b 125, *a* 126; cranium of, b 122, *a* 126; integuments of, b 115, b 116; oolite (Geology), X, a *b* 315
——, preserving (Taxidermy), XXIII, b 96
——, relation to birds (Ornithology), XVIII, b 37, a 38, b 46 *sq.*
Repton abbeys (Derby), VII, b 94
Republic, The, Plato's (Æsthetics), I, *a* 194; (Aristotle), II, a b 456; (Communism), VI, a b 189; (Plato), XIX, *a* b 214–7, b 219, a b 220, a b 221, b 222, b 223; (Socrates), XXII, a 251
Republic, Zeno's (Stoics), XXII, a 590, a 591, a 598
——, Roman. See Roman Republic
Republican government guaranteed (United States), XXIII, b 799
—— organs, French (Newspapers), XVII, b 438
REPUBLICAN PARTY, XX, b 905–8
civil service, b 907–8
elements of, 905–6
financial policy, a 907
Greeley to Blaine campaign, a 907–8
reconstruction, b 906–7
results, a 908
war administration, a b 906

—— (Greeley), XI, b 144, a 145; (New York), XVII, b 475-6; (Taxation, U. S.), XXIII, a 924; (United States), a b 819, a 820, a 821, a 824, *b* 832, *a b* 833, a b 837, a 838; in Indiana (Morton), b 839; Johnson's contest with (United States), b 829, *a* 830
——, Jeffersonian (Gallatin), X, b 35–6; (Monroe), XVI, a b 787; (Jefferson), XIII, b 626, a 627; (Taylor), XXIII, a 927; (United States), *b* 803, *a* b 804, *a* 805, a b 806, a 809; (Washington), XXIV, a 411; (Whig), a b 894. See Democratic Party
Republican river (Kansas), XIII, *a* 852; (Nebraska), XVII, b 315, a *b* 317, a 318
Republic of the Solitary (Arabian Philosophy), II, b 235
Republics (Nobility), XVII, a 538, a b 542, a 544; early Slavonian (Russia), XXI, a 98, b 99, b 100

Republics, Italian (Aristotle), II, a 456; (Italy), XIII, b 482-3, b 495; (Lotteries), XV, b 12; (Malta), b 345; (Numismatics), XVII, a 673; (San Marino), XXI, b 279-80; *History of* (Sismondi), XXII, a b 107
Repudiation of debts (United States), XXIII, a 815, a b 789; in jus naturale (Roman Law), XX, b 725
Repulsion (Magnetism) (Ill.), XV, a 220, b 222, b 226, a 228; of neutral bodies (Magnetism), *b* 263
Repununi, river (Guiana); XI, a 222
REQUENA, town, XX, a 487
Requeno, Vincente, historian (Burney), IV, a 504
Requesens, Louis de Zunigay, governor (Holland), XII, b 78-9
Requisition on States, failure of (United States), XXIII, b 795
Reredos (Architecture), II, b 415; (Salamanca), XXI, b 213, a 214; (Winchester), XXIV, a 628. See Retable, Rood Screens
Resanians, race (Russia), XXI, b 117; dialect of (Slavs), XXII, b 159-60
Resby, James, martyr (Scotland), XXI, 513
Rescht, town. See RASHT
Rescripts, canon laws (Decretals), VII, a 21; imperial (Roman Law), XX, a 724, a b 729
Réseaux or groundwork (Lace), XIV, *a* 186, a 187, a 190
Reseda, genus (Mignonette), XVI, b 301, a 302
Resende, André Falcão de, poet (Portugal), XIX, a 572
——, Garcia de, poet (Portugal), XIX, b 571
——, Lucio Andrea de, poet (Camoens), IV, b 659; (Portugal), XIX, b 572
Resenius, Peter, philologist (Scandinavian Languages) XXI, b 384
Reservation, mental (Liguori), XIV, a 645
Reservations, Indian (Arizona), II, b 472; (Indians), XII, b 870; (Indian Territory), a 875
Reserve materials of plants (Physiology), XIX, b 61-2
Reserves in Banking, III, a 280, b 282
——, military (Army), II, b 496, a 497; Austrian, b 528-9; Ersatz, b 520, *b* 528, a 529; British, b 508-9; (Militia), XVI, b 312; German (Army), II, a 521, a 523; Russian, a 532, b 533; Turkish, b 540
Reserve ships, British (Dockyards), VII, a b 271; (Navy), XVII, a 304, a 305
—— values, life (Insurance), XIII, a b 182, a 184
Reservoirs (Herat), XI, a 638; (Hydromechanics) (Ill.), XII, b 502; (Water-Supply) (Ill.), XXIV, a 427-30; Borsippa (Babylon), III, b 158-9; Esquiline (Rome), XX, a b 850, note; Mugdock service (Aqueduct), II, b 198; embankments for (Harbors and Docks), XI, a 408 note; flood storage (River Engineering), XX, a 588; service (Water-Supply), XXIV, b 431; settling, b 430
RESHAL, Rabbenu Shelomon Loria, rabbi, XX, a 487
Reshd or Resht. See RASHT
Resheph, god (Seraphim), XXI, b 706
Resh Galutha, title (Rab), XX, a 197
Reshid Pasha, grand vizier (Turkey), XXIII, a 692
"Residence of Bishops," congregation (Roman Catholic Church), XX, b 645
Residual air (Respiration), XX, *a* b 491
—— analysis (Landen), XIV, a 272
—— discharge (Electricity), VIII, b 36-8
—— electro-motive force (Electricity), VIII, a b 86
Residuary resistance (Shipbuilding), XXI, a b 847
Residue of the quotient function (Variable), XXIV, a 81
Residues, complex theories (Numbers), XVII, a 637; of powers, b 633; to modulus, b 631
Resilience (Elasticity), VII, b 700-1; in metals (Strength of Materials), XXII, b 633-4; of volume (Hydromechanics), XII, a b 455
RESINA, town, XX, a b 487
Resin gas (Gas and Gas-Lighting), X, b 91
Resinous Electricity, VIII, a 6
RESINS, XX, b 487-8; (Botany), IV, a 78; (Chemistry), V, b 502; (Copal), VI, a 304; (Dragon's Blood), VII, b 336-7; (Fur), IX, a b 194; (Forests), b 358; (Frankincense), a 626; (Guaiacum), XI, a b 205; (Gum), b 244; (Gutta Percha), b 302; (Hemp), a b 578, a 579; (Histology), XII, *a* b 18; (Lac), XIV, b 182; (Mastic), XV, *a* b 628; (Perfumery), XVIII, a 537; (Pine), XIX, *a b* 113, *b* 114; (Sandarach), XXI, a 269; (Varnish), XXIV, *b* 99; density of (Hydrometer), XII, a b 574; formation of (Physiology), XIX, a b 59, *b* 60
Resin Soaps, XX, *a* b 214, a 215
Resistance (Electricity), VIII, a 48-51; (Mechanics), XV, b 713-4, b 758-9, a b 774, b 775, a 778; coefficient of (Hydromechanics), XII, b 482-3; of fluids to bodies immersed (Hydromechanics) a 547-9; (Mechanics), XV, b 759; measurement of (Electricity), VIII, b 12, a 13, b 41-4, a 51, a b 97; (Galvanometer), X, b 48-9; (Telegraph), XXIII, b 124-6; polarization (Electricity), VIII, b 44-5; ship's (Hydromechanics), XII, a b 548-9; (Shipbuilding), XXI, b 846-9; structure (Pianoforte), XIX, a b 79, a b 84; transition (Electricity), VIII, b 44-5, b 81-2; wire electric (Telephone), XXIII, b 143, b 144; and velocity record apparatus (Hydromechanics) (Ill.), XII, a 507
—— -boxes (Electricity) (Ill.), VIII, b 42-3
Resisted harmonic motion (Mechanics), XV, b 696-7; of pendulum, XV, b 713-4
"Resists" (Calico-Printing), IV, b 608, b 611
Res mancipi (Roman Law), XX, a b 694, a 695, note, *a* 717, b 718, a b 719, b 721, *a* 733; in jus civile (Roman Law), a 707-8
Resna Mitritza, river (Prisrend), XIX, a 784
Res nec mancipi (Roman Law), XX, *a* 707, a 708, b 716, a 717, b 718, a b 719
"Resolute," drift of the (Polar Regions), XIX, b 334
Resolutioners sect (Presbyterianism), XIX, a 703, a 704, b 711; (Scotland), XXI, b 536 note, a b 537; (Sharp), *a* 816
Resolution of stress (Strength of Materials), XXII, a 624; (Elasticity), VII, a 712
Resolving power (Microscope), XVI, a 274, a 279, b 280-1, b 290; (Spectroscopy), XXII, b 387, a b 388; of gratings (Wave Theory), XXIV, b 461-3
Resonance of pipes (Organ), XVII, a b 853
Resonators, instruments (Music), XVII, a b 112
"Respectable Emily" (Voltaire), XXIV, b 307, *a b* 308, a 309
Respighi, Lorenzo (Astronomy), II, b 689, *a* 690
RESPIRATION (Ill.), XX, a 488-500
  abnormal forms of, b 493-4
  air passages, b 488-9
  blood in, a 496-9
  central stimulation, a b 500
  chemistry of, b 495-500
  composition of air in, b 495-6
  constituents of blood in, a 497-9
  corpuscles, constituents of, b 497-8
  diaphragm and muscles, a b 490
  dyspnœa and asphyxia, a 500
  expiration, production of, b 493
  functional diversities, b 500
  gaseous exchanges effected in, a b 499
  gases of blood, a 498-9
  innervation of, a 494-5
  inspiration, production of, b 492-3
  internal respiration, b 499
  mechanics of, b 491-5
  organs, structure of, b 488-90
  physiology, b 490-1
  pleural membrane, b 489
  subject, scope of, a b 488
  thorax, b 489, a b 490
—— (Amphibia), I, b 672; (Arachnida), II, a 239, a 241, a 244, b 245, b 247, b 248, b 249, b 253, *b* 254, a 257, a b 258; (Bee), III, a 420; (Birds), b 629-30; (Brachiopoda), IV, a 171, b 172, a 174; (Corals), VI, b 328; (Crustacea), a 565, a 566-7; (Dragon-Fly), VII, b 335-6; (Drowning), b 410-1; (Echinodermata), b 548, a 552; (Harvey), XI, a b 452; (Hibernation), *b* 703; (Horse), XII, a 183, a b 184; (Horticulture), *b* 216; (Ichthyology), b 693-6, b 703; (Insects), XIII, a b 151; (Magnetism, Animal), XV, b 284; (Mammalia), a 368-9; (Myriapoda), XVII, b 123, *a b* 125; (Medical Jurisprudence), XV, b 790-1; (Nemertines), XVII, b 338; (Physiology), XIX, b 32; (Protozoa), a 858; (Reptiles), XX, b 471-2; diseases of (Pathology), XVIII, b 384; on vasomotor centre (Vascular System), XXIV, b 119-20; experiments in, a b 111; influence on pulmonary circulation, b 118-9; pulse, effects of, a b 114
Respiration of plants (Botany), IV, a 107; (Horticulture), XII, *b* 216; (Physiology), XIX, b 58
Respirators (Filter), IX, b 149; (Phthisis), XVIII, b 872
Respiratory trees or water-lungs (Echinodermata), VII, b 554
"Respondentia bond" (Bottomry), IV, a b 153
Respondents, mathematical (Tables), XXIII, b 10
Responsa prudentium (Roman Law), XX, b 716
Responses of imperial jurists (Roman Law), XX, b 723-4
Responsorium (Missal), XVI, *a* 533
Rest (Mechanics), XV, a 684
Restaud, Sophie, authoress (Cottin), VI, b 427
RESTIF de la Bretonne, Nicolas Edme, author, XX, a 500-1; (France), IX, a 586
Restiform body (Anatomy), I, a *b* 764, a 765
Restigouche, river (New Brunswick), XVII, b 382
Restitutio in integrum, process (Roman Law), XX, a 729; natalium, process (Slavery), XXII, b 142
Restitution, Writ of, XXIV, a 723
Restitution, coefficient of (Mechanics), XV, b 727
Restitutione extracti ab ecclesia (Writ), XXIV, a 731
Restitutus, bishop (London), XIV, a 852
Restoration, English, 1660 (Clarendon), V, b 703-4; (Convocation), VI, a 291; (Drama), VII, b 375-7; (England), VIII, b 312-3; (Independents), XII, a 766; (Milton), XVI, a b 347; (Monk), a 780; (Prynne), XX, a 32; (Shaftesbury), XXI, b 764-5; (Scotland), a 537

Restoration in France, IX, a 544
—— of Israel, XIII, b 427-8
—— of souls (Origen), XVII, b 866, a 867; (Universalists), XXIII, a 952
RESTOUT, Jean, painter, XX, a 501
RESTOUT, Jean Bernard, painter, XX, b 501
Restrainer in alkaline developer (Photography), XVIII, b 839-40
Restraint on anticipation (Husband and Wife), XII, a 417; (Women), XXIV, a 675
—— of trade (Trade Unions), XXIII, a 532
"Restriction," or mental reservation (Liguori), XIV, a 645
—— of ideas (Psychology), XX, b 51
Resultant force (Electricity), VIII, a 23, a 25; (Magnetism), XV, a 228, *a* 230
Resultants (Algebra), I, b 456
Resultant tones (Music), XVII, b 100-1
Resurrection (Daniel), VI, a 710; (Eschatology), VIII, a b 474, a 475; of the body (Isaiah), XIII, a 393; (Job), b 711, note; (Paul), XVIII, a 437; ceremony of (Totemism), XXIII, b 500; symbol (Alchemy), I, a 499
—— of Jesus, XIII, b 679; narrative of (Gospels), X, a b 716, a 719, a 721, a 723, a 745, b 746-7; original tradition of (Gospels), b 706, *a* 707, a 713, a 714
Resurrection of Lazarus (Muziano), XVII, b 121
Resuscitation (Drowning) (Ill.), VII, b 410-11
Retables (Carving), V, b 147; (Metal-Work), XVI, a 81-2; (Robbia), XX, a *b* 606, note, b 607, note; (Venice), XXIV, b 164-5; (Wohlgemuth), *b* 661; (Wood-Carving), *b* 682, a 683. See Reredos, Rood Screens
Retaining walls (Building) (Ill.), IV, a 402-3
Retama, plant (Canary Islands), IV, *b* 704, a 705
Rete Malpighii (Anatomy), I, a *b* 788, *a b* 789
Retention of urine (Vesical Diseases), XXIV, a 207
Retentiveness of ideas (Psychology), XX, b 51-2, a 58
Retez or Roda, Ortiz de, navigator (New Guinea) XVII, b 399
RETFORD, East, town, XX, b 501
RETHEL, Alfred, painter, XX, b 501-2
Retia mirabilia (Anatomy), I, b 792; (Ichthyology), XII, b 694, b 695; (Mammalia), XV, a 367
Retiarius, athlete (Gladiators), X, b 563
Reticularia, class (Protozoa), XIX, a 859, *a* b 860, a 863, b 867-72
Reticular membrane of Kölliker (Anatomy), I, b 785
Reticulum (Botany), IV, a 102
Retief, Peter, Boer colonist (Cape Colony), V, a 41; (Natal), XVII, b 248; (Zululand), XXIV, a 868
Retitelariæ (Arachnida), II, b 259, b 260
Retina, town (Herculaneum), XI, *a* 647
—— of the eye (Anatomy), I, a 773, a 780, a b 781, *a* 782; (Eye) (Ill.), VIII, b 714-6; (Mollusca), XVI, a 706; (Ophthalmology), XVII, b 805, a b 806; (Sleep), XXII, b 165; image on the (Light), XIV, b 582
Retinasphalt (Mineralogy), XVI, a 447
Retinite, rock (Geology), X, b 208; (Mineralogy), XVI, a 447
Retinoscopy (Ophthalmoscope), XVII, a 809
Retirement in Navy, XVII, b 303, b 310
Retorsion (International Law), XIII, a 200
Retorts (Distillation), VII, a 227, b 228; (Fire-Clay), IX, b 209; (Gas and Gas-Lighting), X, a 81-3; (Phosphorus), XVIII, b 828; setting of (Gas-Lighting), X, b 82; shales (Paraffin), XVIII, a b 245, a 246; vitriol-makers' (Sulphur), XXII, b 670
Retreat of the Ten Thousand, 401 B.C. (Persia), XVIII, a 588; (Xenophon), XXIV, a b 756. See *Anabasis*
Retreats, military (Moore, Sir J.), XVI, a b 831; (Moreau, J. V.), a b 846; (Turenne), XXIII, b 666
Retropinna, genus (Ichthyology), XII, a 715, a 732; (Salmonidæ), XXI, a 232, b 234
Retting, process (Agriculture), I, a 338; (Flax), IX, a 257-8; (Jute), XIII, a 809
Rettingen (Leesing), XIV, b 479, b 481
Return connecting-rod engine (Steam-Engine), XXII, a b 543
Return from the Fête, painting (Robert), XX, b 611
—— *from Parnassus* (Shakespeare), XXI, b 786, b 791
RETZ or Rais, Gilles de, marshal, XX, a b 270
RETZ, Jean François Paul de Gondi, Cardinal de, XX, a 502-3; (Commercy), VI, b 185; (Condé the Great), a *b* 219 a 220; (Fox, C. J.), IX, b 440; (France), b 504, b 580; (Mazarin), XV, b 659, *a* 660
Retzius, Andreas, craniologist (Indians), XII, a 862, a 864
REUBEN, patriarch, XX, b 503; tribe (Gad), X, a 6; (Israel), XIII, b 411; (Palestine), XVIII, a 180
REUCHLIN, John, humanist, XX, b 503-5; (Eberhardt), VII, b 533; (Greece), XI, a 121; (Hebrew Language and Literature), *b* 536, note; (Hermeneutics), a 668; (Kabbalah), XIII, *b* 822; (Melanchthon), XV, a 842; (Pellicanus), XVIII, b 488; (Pico), XIX, b 89; (Reformation), XX, *b* 337
Reuleaux, engineer (Steam-Engine), XXII, b 542 note
RÉUNION or Bourbon island (Map), XX, b 505-7; (Africa), I, a 237, b 243; (France), IX, a 465; (Vanilla), XXIV, a *b* 73, a 74
Reunions of Louis XIV. (France), IX, a b 509
RÉUS, town, XX, b 507
——, count de. See PRIM, Juan
Reuschle, mathematician (Tables), XXIII, a b 18, a 20
REUSS, principalities, XX, b 507-8; (Saxony), XXI, b 373, a 374
——, river (Alps), I, a *b* 550; (Lucerne), XV, a 42, a 43; (Switzerland), XXII, *a* 815, b 820
——, Edward Wilhelm Eugen, theologian (Pentateuch), XVIII, b 519, note
REUSS-GREIZ, principality, XX, *a* 508
Reussine (Mineralogy), XVI, a 419
REUSS-SCHLEIZ, principality, XX, a 508; (Gera), X, *b* 394
REUTER, Fritz, novelist, XX, b 508-10; (Germany), X, b 487; (Pastoral), XVIII, a 353
——, Baron Julius, news collector (Newspapers), XVII, b 423-4
REUTLINGEN, town, XX, a 510
Re-Vaccination, XXIV, a b 35, a 36
Revai, Nicholas, philologist (Hungary), XII, a 390, *a* 392
REVAL or Revel, town, XX, a b 510
Revelation (Angel), II, b 25-7; (Apologetics), a b 167; (Aquinas), a b 202; (Barton), III, b 348; (Bautain), a 389; (Catherine, St.), V, a 202; (Dogmatic), VII, a b 290, a b 291, b 292, a 293, a 294; (Fichte, J. G.), IX, b 118; (Hegel), XI, b 552; (Inspiration), XIII, a 161, b 162, a 163; (Logos), XIV, b 813-4; (Mohammedanism), XVI, a 620-1; (Neoplatonism), XVII, a 343; (Oracle), b 831, a 832; (Origen), a 866; (Prophet), XIX, a b 842, a 845; (Rationalism), XX, b 301, *a b* 302, *a* 303; (Tindal), XXIII, a 431. See Religion revealed, also Divination, Prophecy, etc.
REVELATION, Book of, XX, b 510-15
  authority, b 515
  authorship, b 514-5
  date and position of, b 513-4
  form, contents, purpose, b 511-2
  hermeneutical method, b 510
  language, b 512
  literature, b 515
  standpoint, b 512-3
  unity and integrity, a 512
——
—— (Bible), III, a 555; (Gems), X, b 123
Revelation, Defence of Divine (Euler), VIII, b 584
Revelganj, town (Sâran), XXI, *a* 319
Revenue, public (Commerce) VI, b 181-2; (Excise), VIII, a 697-8; (Finance), IX, a b 153, a 158; (Germany), X, a 418-9; (India), XII, a 809-13, b 841-2; (Lotteries), XV, b 12-3; (Mexico), XVI, a 901-2; (Mohammedanism), b 611; (Taxation), XXIII, a 92; from liquors and tobacco (Taxation, United States), b 924; powers of Congress (United States), b 797-8; Roman (Finance), IX, a b 152; Smith on (Political Economy), XIX, b 380-1
Revenues of Athens, essay (Xenophon), XXIV, b 757
Revenue-Stamps, XXII, a 465-6. See Stamps
Reverdin grafts (Surgery), XXII, a 716, a 718
Revere, E. H. R., surgeon, XX, b 908
REVERE, Paul, manufacturer, XX, b 908
——, Paul Joseph, colonel, XX, b 908
Reverend, Title of Honor, XXIII, a 446
——, Claude, potter (Pottery and Porcelain), XIX, b 656
Revermont, mountain (Jura), XIII, b 791
Reversed fault (Geology) (Ill.), X, a 268
Reversibility (Diffusion), VII, b 190-1; Carnot's principle of (Thermodynamics), XXIII, b 304
—— of light (Wave Theory), XXIV, b 418-9, a 477
Reversible engine, conditions of (Steam-Engine), XXII, a b 501; theoretical (Steam-Engine), a b 500, a b 505
Reversing slide-valve motion (Steam-Engine), XXII, b 525-7
Reversion or atavism (Breeds), IV, a 221-2, a 223; (Ethnography), VIII, *a* 541; (Sheldrake), XXI, b 825; (Siredon), XXII, b 104; a law of growth (Pathology), XVIII, b 367-8, b 373; in plants (Horticulture), XII, a 221
—— in law. See REMAINDER
Reversionary Annuities, II, a 75, a 76
Reverted phosphoric acid (Phosphorus), XVIII, b 832, note
Revetment, wall (Fortification), IX, a 378, b 393
Revett, Nicolas, architect (Chandler, Richard), V, b 339
Review, The (Defoe), VII, a 26, a 29
Reviews (American Journalism), XVII, a b 892-3; (Periodicals), XVIII, b 546-7
Revillagigedo, islands (Mexico), XVI, a 223, a 224
Revillout, E., metrologist (Weights and Measures), XXIV, b 509, *b* 512, a 515, a 517
Revise or second proof (Typography), XXIII, a 747, b 757
Revised Statutes, United States (Statute), XXII, b 488

Revision, Statutory, England (Statute), XXII, a b 487
Revision of the Ancient Laws (Basilica), III, b 362
Revizor, comedy (Gogol), X, b 657
Revoke at cards (Whist), XXIV, a 578
Revolt of Islam, poem (Shelley), XXI, *b* 830
Revolution (International Law), XIII, a b 198; defined (Socialism), XXII, a 217, b 224; method of (United States), XXIII, a 800
——, 1660 (Denmark), VII, b 75–6
——, English, 1688, VIII, b 314–5; (Burke), IV, a 483; (Convocation), VI, b 291; (Finance), IX, a b 158, b 159; (France), b 510–1; (Glasgow), X, a 570; (Government), XI, a 10, b 12; (Ministry), XVI, a b 494; (Parliament), XVIII, b 313; (Political Economy), XIX, b 371; (William III.), XXIV, a b 611
—— *History of, from Charles I. to II.* (Guizot), XI, b 238
——, French, first (Cambacérès), IV, b 638–9; (Hebert), XI, b 530–1; (La Fayette), XIV, b 203–4; (Pichegru), XIX, a b 88. See French Revolution, 1789; *History of* (Lacretelle), XIV, b 195
—— of 1830 (Belgium), III, b 455; (France), IX, b 545. See French Revolution, 1830
—— of 1848 (Austria), III, a b 119; (France), IX, b 547; (Germany), X, b 453–5; (Guizot), XI, b 240–1; (Hungary), XII, b 386–8, a 395; (Palmerston), XVIII, b 199–200; (Pius IX.), XIX, a b 167; (Roumania), XXI, a 26; (William I., Emperor), XXIV, b 613. See French Revolution, 1848
—— of 1868 (Japan), XIII, b 579, a b 588, a 589, a 592, *b* 593
Revolution, figures of (Capillary Action), V, b 59–62
Revolutionary struggles, nineteenth century (Italy), XIII, a b 496–501
—— War, American, 1775–83; (Beaumarchais), III, b 404; (Boston), IV, a 66; (England), VIII, b 319–21; (Ferguson), IX, b 319–21; (Fersen), a 98; (Finance), IX, a b 162; (Fox), *a* 438; (France), b 523; (Franklin), a 630–1; (Gage), X, b 14; (Georgia), a 394; (Greene, N.), XI, a 146; (Hastings), b 461; (Holland), XII, a b 85; (Jefferson), XIII, b 624, a b 625; (La Fayette), XIV, a 202–3; (Laurens, J.), a b 350; (Maine), XV, a 304; (Marines), *a* 552; (Marion), a b 553; (Massachusetts), b 622, a 623; (Navy), XVII, b 309; (New Jersey), a 409; (New York), a b 467; (North, Lord), a b 567; (North Carolina), b 575–6; (Paine), XVIII, a 141; (Pennsylvania), a 515; (Philadelphia), b 751, a 752, b 754, a 755; (Pitt), XIX, a b 145, a 146; (Protection), b 938; (Putnam), XX, b 891–2; (Schuyler), XXI, b 912; (St. Clair), b 898–9; (Sullivan), XXII, b 932; (Sumter), a b 935; (United States), XXIII, b 788–93; (Washington), XXIV, b 409–10; first naval victory (Maine), XV, a 304
Revolution of Communes, 1870 (Paris), XVIII, a b 300
Révolution Française of Michelet, XVI, b 244; of Thiers, XXIII, b 323
Revolution of the moon (Zodiac), XXIV, a 832. See Moon
"Revolutionists," club (Godwin), X, b 639
Révolutions de France (Desmoulins), VII, a b 113
—— *de Paris* (Newspapers), XVII, b 436
Revolutions in Europe (Ancillon), II, b 10
Revolutions in Spanish America, I, b 622–3
Revolvers (Gunmaking), XI, a 253. See Gatling Gun, Pistols
Revolving Brushes, IV, a 363
—— furnaces (Furnace), IX, a b 743
—— lights (Lighthouse) (Ill.), XIV, b 622–3, a 624, a b 625, a 626, *a* 627, b 628, b 630, a b 631, *b* 634
—— pendulum (Clocks), VI, a 15
Revue Catholique, Louvain (Periodicals), XVIII, b 553
—— *Celtique* (Celtic Literature), V, b 283
—— *des Deux Mondes* (France), IX, a 598; (Musset), XVII, *b* 118; (Periodicals), XVIII, a 551; (Sainte Beuve), XXI, a 171, b 172
—— *Encyclopédique* (Newspapers), XVII, a 449
Revy's current meter (Hydromechanics) (Ill.), XII, a 534–5
REWAH, state and town, XX, b 515–6
Rewan, town. See ERIVAN
Rewári, town (Gurgáon), XI, b 296, *a* 297
Rex, king (Titles of Honor), XXIII, a 445; Orthodoxus, title (Poland), XIX, a 307; sacrorum (Rome), XX, b 754, b 773 note
Rey, John, chemist (Chemistry), V, a 399
Reybaud, Marie Roch Louis, biographer (Socialism), XXII, a 216
Reybaz (Mirabeau), XVI, b 520, a 521
Reye, mathematician (Geometry), X, a b 366
Reyes, Raphael, explorer (Colombia), VI, a 138
Reykjavík, town (Iceland), XII, a 653, a b 654, a 655, a 663; (Libraries), XIV, b 551; (Vaccination), XXIV, a 29
Reymond, Du Bois, Emil Heinrich, physiologist (Evolution), VIII, a 674, a 676
Reynard the Fox, fable (Fable), VIII, a b 734; (France), IX, b 564–5; (Germany), X, a 467, a 472; (Holland), XII, b 87, a 93; (Satire), XXI, a 334. See *Reineke Vos*
Reynaud, Jean, philosopher (Druidism), VII, b 413–4
Reynes, John, manufacturer (Book-Binding), IV, b 37
Reynier, Jean Louis, general (Massena), XV, a 624
Reynolds, translator (English Bible), VIII, b 347, a 348
REYNOLDS, John Fulton, general, XX, b 908
REYNOLDS, Sir Joshua, painter, XX, a 516–8; (Engraving), VIII, a b 396; (Gainsborough), X, *b* 15; (Goldsmith), a 678, a 680; (Haydon), XI, *a* 483; (Helst), b 572; (Hoppner), XII, a 163; (Kauffman), XIV, a 18; (Oxford), XVIII, a 101; (Painting), b 143; (Plymouth), XIX, b 249; (Raeburn), XX, b 225; (Romney), b 861, a 862; (Schools of Painting) (Ill.), XXI, b 460, a 461, b 464; (Turner, J. M. W.), XXIII, a 705
——, Osborne, engineer (Steam-Engine), XXII, a 511 note
——, William H., admiral, XX, b 908
Reynold's process (Glycerin), X, a 623
Rha, river (Volga), XXIV, a 301
Rhabanus Maurus. See HRABANUS
Rhabdamminina, sub-family (Protozoa) (Ill.), XIX, b 868
Rhabditis, genus (Nematoidea), XVII, *b* 334
Rhabdites, organs (Planarians), XIX, a b 181
Rhabdocœla, tribe (Animal Kingdom), II, *a* 47; (Nemertines), XVII, b 335, a 336
Rhabdocœlida, family (Planarians) (Ill.), XIX, *a b* 182, *a b* 183, a *b* 184, a 185; (Mollusca), XVI, a 676, b 680
Rhabdocrepida, family (Sponges) (Ill.), XXII, *b* 432, b 438, b 440
Rhabdomancy (Magic), XV, a 207
Rhabdopleura, genus (Polyzoa) (Ill.), XIX, b 445, *a* 446, *a* 448, a 449–50, a 454; (Vertebrata), XXIV, b 194
Rhabdus, skeletal (Sponges) (Ill.), XXII, *a b* 432
Rhachiodontidæ, family (Snakes), XXII, b 203
Rhacotis, municipal quarter (Alexandria), I, a b 436
RHADAMANTHUS, myth, XX, b 518; (Elysium), VIII, a 144
Rhádames, oasis. See GADAMES
Rhæcus, architect (Samos), XXI, b 262–3
Rhædestus, town (Rodosto), XX, a 634
RHÆTIA, province, XX, b 518–9; (Germany), X, a b 427; (Italy), XIII, a 444; leagues of (Switzerland), XXII, b 824, a 825 note, b 827, b 828, a 830, b 831, a 832
Rhætian Alps, I, a 547, a 551–2; (Austria), III, b 100
Rhætians, people (Alps), I, a 557; (Grisons), XI, b 182; (Tyrol), XXIII, b 758–9
Rhætic beds (Geology), X, b 312, a b 313; (Lincoln), XIV, b 660
Rhæticus, mathematician. See Rheticus
Rhagæ, ruins (Zoroaster), XXIV, *a* 860
Rhagite (Mineralogy), XVI, b 423
Rhagon type (Sponges) (Ill.), XXII, b 429–30, b 431, b 435, b 442
Rhamnusio, family (Ramusio), XX, a 281–3
Rhamphocinclus, genus (Birds), III, a 650
Rhamphorhyncus, fossil (Pterodactyle), XX, b 91
Rhangabé, emperor. See Michael I.
Rhapsodists, minstrels (Drama), VII, b 349; (Greece), XI, b 122, b 123; (Homer), XII, a b 113, a 114, a b 119; Arab (Mo'allákat), XVI, a 561
Rhapta, island (Ptolemy), XX, a 98
Rhazès, physician (Alchemy), I, a 408, a *b* 410; (Anatomy), a 706; (Avicenna), III, a 134; (Medicine), XV, a 815; (Phrenology), XVIII, a 857; (Smallpox), XXII, a 172; (Surgery), b 709
Rhé, isle of. See RÉ
RHEA, bird (Ill.), XX, b 519–20; (Birds), III, a 616, b 621, b 623, a b 625, a b 626, a 634, a 639, a 640; (Ornithology), XVIII, a 48
——, goddess (Atys), III, a 58; (Mythology), XVII, *b* 161; (Saturn), XXI, b 335, a b 336. See CYBELE
——, Samuel, divine (Kurdistan), XIV, b 158
RHEA or RHEEA, FIBRE, XX, b 520–1; (India), XII, a 797
Rhedas, poet (Turkey), XXIII, b 689
Rheede, Hendrik Adriaan Draakenstine, governor (Teak), XXIII, b 110
Rhegas of Velestino, poet (Greece), XI, *a* 135
Rhegium, colony (Greece), XI, a 86; (Numismatics), XVII, b 653, b 654, b 655; (Rome), XX, b 762, a 763. See REGGIO DI CALABRIA
Rheidæ, family (Birds), III, b 644, *b* 646, a 647
Rheidol, valley and river (Cardigan), V, *a* 84
RHEIMS, city (Plan), XX, a 521–2; (Hincmar), XI, b 746; (Joan of Arc), XIII, b 707; (Marne), XV, *b* 568; (Technical Education), XXIII, a 116
—— New Testament (English Bible), VIII, b 348
Rheinard, Franz Volkmar, theologian (Bretschneider), IV, b 233, *a* 234
Rheingold, opera (Wagner), XXIV, a 335, a 337

Rhein-hessen, province (Hessen Darmstadt), XI, *a* 697
Rheinischer Merkur, journal (Görres), X, a b 699
Rheinthal, valley (Grisons), XI, *a b* 182
Rheita, Schylærus von, friar (Telescope), XXIII, a 147, a 156
Rheithrosciurus, genus (Squirrel), XXII, a b 455
Rhematic period (Mythology), XVII, a 145, b 147
RHENANUS, Beatist, humanist, XX, b 522; (Erasmus), VIII, b 454, a 456, a 458
Rhenea, island (Polycrates), XIX, b 430
Rhenish Confederation, municipal (Germany), X, a 442
RHENISH PRUSSIA, XX, a 25–6; (Görres), X, a 699; (Presbyterianism), XIX, b 716; (Prussia), XX, *a* b 18, a *b* 19, b 20, a b 21, a 23
—— Sheffield, town (Remscheid), XX, b 391
Rhense, declaration of, 1338 (Louis IV.), XV, b 18
Rheocord, Poggendorff's (Electricity), VIII, a 43
Rheometer, stream-clock (Gas-Lighting), X, b 88; (Vascular System), XXIV, b 117
Rheostat, instrument (Electricity), VIII, b 42
Rhesæna, town (Mesopotamia), XVI, *b* 52
Rhesus, play (Euripides), VIII, a 595
RHETICUS or Rhæticus, George Joachim, mathematician, XX, b 522–3; (Copernicus), VI, b 307; (Tables), XXIII, *a* b 13; (Trigonometry), a 597
RHETORIC, XX, a 523–30
Anaximenes and Hellenistic, a b 528
Aristotle's, a 524–8
arrangement, a 528
definitions, Aristotle's, b 524–5
early Greek, a 523–4
ethical proof, Aristotle on, b 526–7
forensic, a 526
mediæval, b 529–30
modern, a b 530
ornamental, a 526
persuasion, Aristotle on, a 525–6
Roman Empire, b 528–9
style, Aristotle on, a 527–8
—— (Burke), IV, b 484–5; (Fronto), IX, a 705; (Isæus), XIII, a 387; (Isocrates), a 399, a b 402, a 403; (Logic), XIV, *a* 799; (Livy), a b 735; (Quintilian), XX, a 194–5; Hindu (Sanskrit), XXI, a b 308; schools (Latin Language), XIV, *a* 337, a 339; Greek (Sophists), XXII, a 278–9, b 280, a 283; Socrates on (Plato), XIX, b 213–4, a 215; Urdū (Hindustani Literature), XI, b 756
Rhetoric, Aristotle's, II, b 454–5; XX, a 524–8; (Æsthetics), I, a b 194; Moses of Chorene's, XVI, a 890; *Elements of*, Whately's, XX, a b 530; *Philosophy of*, Campbell's, IV, b 666
Rhetoric, chambers of (Holland), XII, b 94–5
Rhetorica ad Herennium, De (Latin Language), XIV, b 333
Rhetoricians, Byzantine (Greece), XI, a 131; classical, a b 127, a 129
Rhétoriqueurs, poets (Marot), XV, a 570, a 571
RHETT, Robert Barnwell, secessionist, XX, b 908
Rheum, plant (Botany), IV, b 99, a 100; (Rhubarb), XX, a 544
Rheumatic fever (Pathology), XVIII, b 400, b 406–7; iritis (Ophthalmology), XVII, b 803
RHEUMATISM, disease, XX, b 530–3; (Dietetics), VII, a 179; (Insanity), XIII, b 107, a 108, a 115; (St. Vitus's Dance), XXI, a b 212, note; gonorrhœal (Surgery), XXII, a 721. See GOUT
Rheumic acid (Rhubarb), XX, b 544
Rhexigenous cavities (Histology), XII, b 18, a 19
RHEYDT, town, XX, a 533
Rhigolene, anæsthetic (Petroleum), XVIII, a b 733, a 891
Rhin, river (Loire, Department), XIV, b 816
——, Haut-, department, XX, a 533, note
Rhina, genus (Ichthyology), XII, a 717, a 724; (Shark), XXI, b 812
Rhinanthus, plant (Botany), IV, b 121, b 140
RHINE, river, XX, a 533–5; (Germany), X, *a* b 404, *b* 405, b 411, *b* 413, b 420; (Gold), a 661; (Grisons), XI, *a* 182; (Holland), XII, a *b* 65; (Jura), XIII, b 790, a 791; (Meuse), XVI, b 213; (Pilate), XIX, b 98; (Switzerland), XXII, a *b* 814, *a b* 815; (Würtemberg), XXIV, b 735; diluvium (Holland), XII, a 65; mineral substance in (Geology), X, *a* 243, b 244; old bed (Alps), I, b 550; valley (Germany), X, b 402, *a* 403
——, Confederation of the. See Confederation of, etc.
Rhineland. See RHENISH PRUSSIA
Rhine Wine, XXIV, b 633, a b 634, b 643
Rhinidæ, family (Ichthyology), XII, a 716, a 724
Rhinobatidæ, family (Ichthyology), XII, a 716, b 718, a 724; (Ray), XX, a 312
Rhinobatus, genus (Ichthyology), XII, a 717
RHINOCEROS, animal (Ill.), XX, b 535–8; (Abyssinia), I, b 62; (Assam), II, a 630; (Horn), XII, a 171; (Horse), a b 176, a 178, *b* 180; (India), a b 780; (Java), XIII, a 613; (Mammalia), XV, *a* b 351, b 427, *a* 428, *a* b 433 a b 434; (Sumatra), XXII, b 673
—— birds (Buffalo), IV, b 396; (Hornbill), XII, b 172
—— Chameleon, V, a 332
Rhinochetus, genus (Ornithology), XVIII, b 48, b 49, a 50; (Sun-Bittern) (Ill.), XXII, a b 687
Rhinocola, genus (Hemiptera), XI, b 576–7
Rhinoderma, genus (Amphibia), I, a 674, a 675, a 677
Rhinodon, genus (Ichthyology), XII, a 721, b 723; (Shark), XXI, a b 814
Rhinodontidæ, family (Ichthyology), XII, b 723
Rhinolophidæ, family (Mammalia), XV, *a b* 411, a b 412, b 414, b 416–7
Rhinophrynus, genus (Amphibia), I, b 688*, a 675, a 677
Rhinoplastic process (Gräfe, K. F. von), XI, b 29
Rhinoplax, genus (Hornbill), XII, b 172–3
Rhinopoma, genus of bats (Mammalia), XV, a 418
Rhinthon of Tarentum, poet (Drama), VII, a 353
Rhio, islands. See Riouw
Rhipidoglossa, genus (Mollusca) (Ill.), XVI, b 663, b 672
Rhipsalis, genus (Cactus), IV, b 555, b 556
Rhizinæ, sub-family (Lichens), XIV, a 556
Rhizocarp, organ (Botany) (Ill.), IV, a 127, a 128, a b 146
Rhizocarpeæ, class (Biology), III, *a b* 601; (Botany), IV, b 95, b 126; (Ferns), IX, a 89, a b 93
Rhizocephala, group (Crustacea), VI, a 561, a 563, b 564, *a b* 576, *a* b 577, note, a 580, a b 588; (Parasitism), XVIII, b 263, a 264
Rhizocrinus, genus (Echinodermata), VII, a b 551, *b* 552
Rhizoids, roots (Muscineæ) (Ill.), XVII, b 71, a 73, a 74, a 75, a b 79
Rhizomastigina, sub-family (Protozoa), XIX, a 881
Rhizome, root (Botany) (Ill.), IV, a b 87, b 94, b 95; (Hellebore), XI, a *b* 567, a 568
——, drug (Podophyllin), XIX, a 267
Rhizophoraceæ, sub-class (Mangrove), XV, a 489
Rhizophyllum, genus (Corals), VI, *b* 338, a 339, b 340, a 341
Rhizopœa (Foraminifera), IX, *a b* 325; (Touch), XXIII, a 508
Rhizopus nigricans, species (Fungus), IX, b 729–30
Rhizostomæ, genus (Hydrozoa) (Ill.), XII, *a* b 590
Rhizota, order (Rotifera), XXI, a 12
Rhobell-fawr, mountain (Merioneth), XVI, *b* 43
Rhodanic Republic (Vaud), XXIV, a 126
Rhodeina, fishes (Ichthyology), XII, a b 714, a 731
RHODE ISLAND, State (Plate IV), XX, a 538–9; (Oyster), XVIII, a 113; (Slavery), XXII, *a* 908, a 909; (Suicide), b 663; (Universities), XXIII, a 913, a b 957; discovery of (America), I, a 620, note; history (United States), XXIII, a 796, b 800, a 801, b 802, a 822; statistics (United States), *b* 853, b 864, b 876
——, colony (United States), XXIII, b 777, a 778, *a* 779, b 787; (Williams), XXIV, b 618; Berkeley's residence in, III, a 510
—— Case, 1848 (Webster), XXIV, a 498
Rhodeoretin, chemical principle (Jalap), XIII, b 556, note, a 557
RHODES, island, XX, b 539–41; (Caria), V, *a* 91; (Club), VI, b 38, b 39; (D'Aubusson), *a* 734; (Demosthenes), VII, b 61; (Greece), XI, b 83, a 108; (Homer), XII, b 114; (Mural Decoration), XVII, a 42; (Numismatics), b 663, a b 664–5, a 677; (Phœnicia), XVIII, b 818; (Pottery) (Ill.), XIX, b 639–40; (Rome), XX, *b* 771, *a* 773; (St. John of Jerusalem), XXI, *a b* 183; conquest of (Turkey), XXIII, b 683, b 684; school of (Archæology), II, b 319; town, XX, a *b* 540–1; (Helena), XI, a 562
——, Colossus of, VI, a 149; (Mohammedanism), XVI, a 590
——, Inner and Outer, divisions (Appenzell), II, a 184
Rhodigium, town. See ROVIGO
Rhodites rosæ, species (Galls), X, a b 40
Rhodium, metal (Chemistry), V, a 465–6; alloys (Platinum), XIX, b 202, *b* 203; (Gold), X, a 669; (Mineralogy), XVI, b 398
Rhodius, John, bibliographer, III, a 572
Rhodiyas, race (Veddahs), XXIV, a 132
Rhodizite (Mineralogy), XVI, b 391, a 413
Rhodocanakis, Constantine, physician (Greece), XI, b 133
Rhodochrome (Mineralogy), XVI, b 431
Rhodocrinus, genus (Echinodermata), VII, b 551, b 552
Rhododaphne, plant (Oleander), XVII, b 781
RHODODENDRON, plant, XX, b 541–2; (Botany), IV, b 105, b 124, b 136; (Ceylon), V, a 315; (Horticulture), XII, a 217, *b* 220, a 269, b 270; (Lebanon), XIV, a 393
Rhodonite (Mineralogy) (Ill.), XVI, b 387, b 434
Rhodope, mountain (Thrace), XXIII, a 339
—— veranyii, species (Mollusca), XVI, b 680
Rhodophyceæ, sub-class (Vegetable Kingdom), XXIV, b 136, *b* 138, a 139
Rhodosoma, genus (Tunicata), XXIII, b 656
Rhodostethia, genus (Birds), III, a 653; (Gull), XI, a 243
Rhomb, Fresnel's, IX, b 681
Rhombohedral forms (Mineralogy), XVI, b 372, a 414
Rhombohedron (Mineralogy), XVI, a 360, b 362, a 372–3

Rhomboid, Lacaille's (Micrometer) (Ill.), XVI, b 265-6
Rhombs (Crystallography), VI, b 595
Rhombus, genus (Turbot), XXIII, a b 666
Rhön, mountains (Germany), X, a 403, b 404; (Saxe-Weimar), XXI, *a* 365
——, Kaspar von der, poet (Germany), X, b 469
Rhondda, valley (Coal), VI, a 48, b 67
RHONE, department, XX, b 543-4
RHONE, river, XX, a 542-3; (Ardeche), II, b 422; (Drôme), VII, a 407; (France), IX, a *b* 446, b 457; (Geneva), X, a b 131; (Jura), XIII, b 790, *b* 791, a 792; (Lyons), XV, *b* 111, *a b* 112, *b* 113; (River-Engineering), XX, a b 595; (Savoie), XXI, b 347, *a* 348; (Switzerland), XXII, a b 814, *a b* 815
Rhopalocera, group (Butterflies), IV, a 527; (Insects), XIII, b 157
Rhotacism (Latin Language), XIV, a 328
RHUBARB, plants, XX, a 544-5; (Ægineta), I, a 164; (Afghânistân), b 208; (Botany), IV, b 78, a 102; (Horticulture), XII, b 299
Rhuddlan, borough (Flint), IX, a 287
Rhumb line (Navigation), XVII, b 260, b 262, b 272
Rhune, mountain (Pyrénées), XX, b 132
Rhupenian Kings (Armenia), II, b 480
Rhus, genus of plants (Japanning), XIII, a 603; (Leather), XIV, *a* 382
RHYL, watering place, XX, b 545; (Flint), IX, a 287
Rhyme (Dryden), VII, a 423; (Shakespeare), XXI, a 800; beginning of (English Language), VIII, a 355; in Koran (Mohammedanism), XVI, b 622-3
Rhyming Bible (Holland), XII, b 93
RHYMNEY, town, XX, b 545; river and vale (Glamorgan), X, *b* 564
Rhynchæa, genus (Snipe), XXII, a 212 note
Rhynchelmis, genus (Worm), XXIV, b 712, *a* b 714, *a* 718
Rhyncheta, genus (Protozoa) (Ill.), XIX, a b 890
Rhynchobdellidæ, family (Leech) (Ill.), XIV, *b* 401, a 404-5
Rhynchocephalia, order (Reptiles), XX, b 450, a 457, b 460-1, a 472, b 478, a b 479, a b 486
Rhynchoflagellata, class (Protozoa) (Ill.), XIX, *b* 860, a 884, b 885-6
Rhyncholites, fossils (Mollusca), XVI, b 701
Rhynchonella, genus (Brachiopoda) (Ill.), IV, b 170, a b 171, *a* b 173, *a* 174, a 177
Rhynchonellidæ, family (Brachiopoda), IV, a b 172, a 174, a 177
Rhynchonycteris, genus (Mammalia), XV, b 417
Rhynchophora, group (Coleoptera) (Ill.), VI, b 120; (Insects), XIII, b 155-6
Rhynchops, genus (Skimmer), XXII, a b 128
Rhynchotus, genus (Tinamou) (Ill.), XXIII, a 430
Rhyndacus river (Asia Minor), II, b 618; (Mysia), XVII, b 129-30
Rhynolophus, genus (Mammalia), XV, b 416
Rhyolite, rock (Geology), X, b 208-9
Rhys, John, philologist (Slavs), XXII, b 155
—— ab Gruffydd, prince (Eisteddfod), VII, b 686
—— ab Tewdwr, king (Celtic Literature), V, a 274, a 277
—— Goch ab Rhicert, poet (Celtic Literature), V, a 278
Rhythm (Poetry), XIX, a b 270, a 271, a b 274, b 282-3; prose (Rhetoric), XX, b 527; sense, or parallelism (Bible), III, a b 552
Rhythmic pleasure (Psychology), XX, b 73
Rhytidome, bark (Histology), XII, a b 20
Rhytina, genus (Mammalia), XV, b 376, a b 393, a 394 note, a 395; (Siberia), XXII, b 14
Riad, town (Arabia), II, b 221, a 229
Ria-Lin, town (Riga), XX, a 568
Rialto, island (Commerce), VI, b 178, a 179; (Venice), XXIV, a 153, a 154, a 158, a 160 note; Bridge of the (Ill.), IV, b 299
Riario, Pietro, cardinal (Sixtus IV.), XXII, a 111
Riazan. See RYAZAN
Rib in Architecture, II, b 415; designing (Bridges), IV, b 281-2; metal (Bridges), a b 279-82
Ribagorça, county (Spain), XXII, *a* 327
Ribalta, Francisco de, painter (Schools of Painting), XXI, b 459, a 460, a 461, a 467; (Valencia), XXIV, b 39, b 40
——, Juan de, painter (Valencia), XXIV, b 39, b 40
Ribastre, hermit (Romance), XX, b 667, a 668
Ribat, town. See RABAT
RIBAULT or Ribaut, Jean, navigator, XX, b 545-6; (Florida), IX, a 298; (South Carolina), XXII, b 302
Ribbing (Hosiery), XII, a 313
—— barley (Agriculture), I, b 319; vetches (Agriculture), b 334
Ribble, river (Lancashire), XIV, a 253; (Preston), XIX, a 738; (River Engineering), XX, b 591, *b* 592, a 593
RIBBON-FISHES (Ill.), XX, a b 546; (Ichthyology), XII, b 729
RIBBONS, fabric, XX, b 546; (St. Etienne), XXI, *b* 176
Ribe, town and province (Denmark), VII, *a* b 73
Ribeira Grande, towns (Cape Verd Islands), V, a b 47
Ribeiro, Bernardim, poet (Portugal), XIX, b 571, a 572, b 573
——, João Pedro, historian (Portugal), XIX, a 563
——, João Pinto, conspirator (Portugal), XIX, a 573
RIBERA, Jusepe or Lo Spagnoletto, painter, XX, b 546-7
——, Paez de, author (Romance), XX, b 671
Ribes, plant (Gooseberry), X, a 693-4; (Horticulture), XII, b 280, a b 281
Ribocq, musician (Transverse Flute), XXIII, *b* 553
Ribot, Théodule, philosophical writer (Evolution), VIII, a 671; (Psychology), XX, b 88, a 90
Ribs, bones (Amphibia), I, a 659; (Anatomy), a 721, b 728; (Ape), II, a 141; (Lizard), XIV, b 742; (Mammalia) (Ill.), XV, b 360-1; (Reptiles), XX, a b 460, a b 461, a 462, a 469; (Respiration) (Ill.), a 490, a b 492, a b 493; (Skeleton), XXII, b 120, a b 121; excision of (Surgery), a 725. See Costal
RICARDO, David, economist XX, b 547-50; (Banking), III, b 276; (Grote), XI, b 189, a 190; (Money) XVI, a 763; (Political Economy), XIX, b 386-90, a b 392, a 394, a 398, a 410, b 411; (Senior), XXI, a 696; (Socialism), XXII, b 222, b 224-5; (Value), XXIV, b 57, a 58; (Wealth), b 487
Ricasolia, genus (Lichens) (Ill.), XIV, a 556, a 565
Ricaut, Sir Paul. See RYCAUT
Riccarton hills (Linlithgow), XIV, b 675
Riccati, Giordano, mathematician, XX, b 550
RICCATI, James, count, mathematician, XX, b 550
——, Vincenzo, mathematician, XX, b 550
Riccaulton or Riccalon, Robert, theologian (Thomson), XXIII, b 331-2
Ricci, Antonio, architect (Venice), XXIV, a 166
——, Catharine, nun (Stigmatization), XXII, b 577
——, Lorenzo, general (Jesuits), XIII, *b* 665, a 666
——, Ludovico, publicist (Political Economy), XIX, a 376
RICCI, Matteo, missionary, XX, b 550-2; (China), V, b 563; (Missions), XVI, b 536
——, Michele Angelo, cardinal (Infinitesimal Calculus), XIII, a 9
——, Ostilio, geometer (Galileo), X, a 29
——, Scipio de, bishop (Monachism), XVI, a 740
—— -chapel (Ghirlandajo, D.), X, b 507-8
Ricciese, class (Muscineæ), XVII, a b 72, a b 73, b 75, b 76, a 81; (Vegetable Kingdom), XXIV, *b* 140
RICCIARELLI, Daniele, artist, XX, b 552-3
Riccio of Caiazzio, bishop (Vatican Council), XXIV, a 123 note
——, Domenico del, painter (Verona), XXIV, b 186
Riccioli, Giovann Battista (Astronomy), II, a 659, b 700
RICCOBONI, Madame, novelist, XX, a 553
RICE, plant (Ill.), XX, a 553-4; (Acclimatization), I, a 82; (Bakarganj), III, a 214; (Bengal), a 490; (Botany), IV, *a* 143; (Brewing), b 236, b 242; (Burmah), b 492, a *b* 500; (Ceylon), V, a 320; (Corn Laws), VI, b 366; (Dacca), b 667; (Formosa), IX, b 366; (India), XII, b 770, a 771, b 785-6, a 789, a 796, b 797, b 798; (Irrigation), XIII, b 372, a 380; (Italy), b 450, b 451, b 459, note; (Japan), b 583-4; (Java), a 611, b 613, note; (Madagascar), XV, a 173; (Ordeal), XVII, a b 843; (Patna), XVIII, a b 419; (South Carolina), XXII, b 301; (Starch), b 473; (United States), XXIII, a 878
RICE, Luther, divine, XX, b 908-9
Rice-bird (Icterus), XII, a 736; (Ortolan), XVIII, a 57
RICE PAPER, XX, a 554; plant (Botany), IV, a 80, b 89
—— rat (Mouse), XVII, a 12
RICH, Claudius James, orientalist, XX, a b 554
——, Edmund, archbishop. See EDMUND RICH
——, John, actor (Pantomime), XVIII, b 219, note, a 220
RICH, Obadiah, bibliographer, XX, a 909
RICHARD I., Cœur de Lion, England, XX, b 554-5; (Archery), II, a 325; (Carlisle), V, a 97; (Coronation), VI, b 380, a 381; (Costume), b 412; (Crusades), b 554-5; (Dockyards), VII, b 269; (Egypt), *a* 654; (Eleanor), VIII, a 3; (England), a b 275, a 277; (Guienne), XI, b 229; (Heraldry), *a* 609, b 627; (Knighthood), XIV, a 124; (London), *a* 855; (Numismatics), XVII, b 674; (Otho IV.), XVIII, b 70; (Scotland), XXI, b 503; (Sea Laws), a 611; (Templars), XXIII, b 177
Richard Cœur de Lion (Grétry), XI, a 168
RICHARD II., England, XX, b 555-6; (Arundel), II, *a* 586; (Chaucer), V, a 390; (Coronation), VI, b 380; (Costume), b 413, b 415; (Dublin), VII, *b* 433; (England), VIII, a b 287; (Glendower), X, b 604; (Henry IV.), XI, b 588; (Ireland), XIII, a 267; (Lancaster), XIV, b 256-7; (London), b 837, *a* 856; (Peerage), XVIII, a b 475; (Poor Laws), XIX, a 477; (Richmond), XX, a 560
Richard II., Shakespeare's (Bristol), IV, a 315; (Shakespeare), XXI, *a* 800, a 805; (William of Wykeham), XXIV, a 790
—— II., England, pretender (Scotland), XXI, a 513

RICHARD III., England, XX, b 556-7; (Archery), II, *b* 325; (Edward V.), VII, b 594; (England), VIII, b 294-5; (Shakespeare), XXI, *b* 776, a 777; (Shore), b 874-5; (Trust), XXIII, b 633; (York), XXIV, *b* 790; seals of (Heraldry) (Ill.), XI, a b 634; *Life of* (Buc), IV, a 337

Richard III., play (Shakespeare), XXI, b 799, a 805

— of Cambridge, earl (York), XXIV, *a* 790

— I. the Fearless, duke (Normandy), XVII, a b 554, *a* b 555, a 556

— II. the Good, duke (Normandy), XVII, b 555-6

— of Bermondsey, prior (Hospital), XII, a 315

— de Bury, bishop (Seals) (Ill.), XXI, a 615

RICHARD of Cirencester, historian, XX, b 557-8

RICHARD, earl of Cornwall, emperor, XX, a b 557; (Alphonso X.), I, a 541; (Bacon), III, b 189 note; (Crusades), VI, a 557; (Germany), X, b 441; (Henry III, England), XI, b 587; (Templars), XXIII, a 178

— of London, bishop (England), VIII, b 276

— of Middletown, monk (Scholasticism), XXI, b 446

Richard the Redeles (Langland), XIV, a 286

RICHARD of St. Victor, monk, XX, a 558; (Mysticism), XVII, a 139; (Scholasticism), XXI, a 443

— of York, duke (Ireland), XIII, b 267; (York), XXIV, *b* 789, *a* 790

Richardia, plants (Horticulture), XII, b 273

Richards, Sir George Henry, commander, explorer (Polar Regions), XIX, a 334

—, Vincent (Opium), XVII, b 816

Richard's indicator (Steam-Engine), XXII, a b 510

Richardson, B. W., physician (Hospital), XII, a 317

RICHARDSON, Sir John, naturalist, XX, a 558; (Aurora), III, b 79, *a* 80; (Geography), X, *a* 172; (Ichthyology), XII, *a* 671; (Polar Regions), XIX, b 331, b 333, a 334

RICHARDSON, Samuel, novelist, XX, a 558-9; (Drama), VII, b 368; (English Literature), VIII, b 382, a b 383; (Fielding, H.), IX, a 127; (Musäus), XVII, b 70

— of Hull, on Brewing, IV, b 237

Richardt, Christian, poet (Denmark), VII, a 82

Richborough Castle, Kent, V, b 171

Richebourg, monster (Dwarf), VII, a 490

Richelieu river (Champlain), V, a 336; (Quebec), XX, a 172, b 173 and canal (St. Lawrence), XXI, b 190

Richelieu, Alphonse Louis du Plessis, archbishop (Gassendi), X, a 96

RICHELIEU, Armand Emmanuel du Plessis, Duc de, XX, b 559; (France), IX, a 515

RICHELIEU, Armand Jean du Plessis, cardinal, XX, a b 559; (Aarsens), I, b 11; (Academy), a b 72, a 73; (Amyraut), a b 687; (Austria), III, b 109-10; (Chapelain), V, b 343; (Cinq-Mars), a 687; (Condé the Great), VI, b 218; (Conrart), a 259; (Corneille), a b 370; (Duel), VII, a 443; (Duvergier), b 489; (Ferdinand II.), IX, b 68; (France), a 500-3; (Germany), X, a 449; (Gustavus II.), XI, *b* 298; (Iron Mask), XIII, a 371; (Mazarin), XV, b 658, a 659; (Newspapers), XVII, *b* 434; (Paris), XVIII, b 297; (Pascal), b 339; (Pinerolo), XIX, b 115; (Popedom), a b 520; (Portugal), b 563; (Presbyterianism), b 714; (Press Laws), a 732; (Provence), a 904; (Rochelle), XX, a 629; (Sorbonne), XXII, b 288, a 289; (Spain), *a b* 346; (Turenne) XXIII, b 666, a 667

RICHELIEU, Louis François Armand du Plessis, Duc de, marshal, XX, b 559; (France), IX, a *b* 518, a 519; (Voltaire), XXIV, a 307, *b* 308

Richemont, Artus de Bretagne, constable (Charles VII., France), V, *b* 356

Richer, Jean, astronomer (Earth), VII, b 516

RICHERUS, chronicler, XX, b 559; (Silvester), XXII, *b* 81, a 83

Richibucto river (New Brunswick), XVII, *b* 382

Richman or Rickman, Georg Wilhelm, physicist (Electricity), VIII, b 7-8

RICHMOND, Indiana, XX, b 560; (Indiana), XII, *b* 853

RICHMOND, Surrey, town XX, a 560

RICHMOND, Virginia, XX, b 560-1; (Diatomaceæ), VII, a 148; (United States), XXIII, a 823, b 825, b 827, b 828

RICHMOND, Yorkshire, borough, XX, a b 560; (York), XXIV, *a* 786

—, Charles Lenox, duke of (Chatham, Earl of), V, b 384

—, Henry Fitzroy, duke of (Surrey), XXII, b 730

RICHMOND, Legh, tract writer, XX, a b 561

—, Margaret, countess of (Cambridge), IV, a 646, a 647; (Costume), VI, b 417

—, Peter, earl of (Heraldry), XI, b 624

— park (London), XIV, b 833

Rich Mountain battle, 1861 (McClellan), XXIII, b 838

Rich's system (Shorthand), XXI, a b 876

RICHTER, Ernst Friedrich Edward, musician, XX, b 561

—, Gregorius, polemic (Boehme), III, b 740

RICHTER, Jean Paul Friedrich, XX, b 561-2; (Æsthetics), I, a 193; (Baireuth), III, b 212; (Burns), IV, a 505; (Education), VII, b 587-8; (Germany), X, a 484

Richter, Jérémie Bentham, chemist (Chemistry), V, b 401, a 403

—, J. P., biographer (Leonardo), XIV, b 462

Richtofen, Ferdinand, baron (China), V, b 550, a b 551, a 552, b 553, a 554, a b 555, a 557; (Gobi), X, *b* 635, a 636; (Turkestan), XXIII, a 671

—, K. F. von, jurist (Frisians), IX, b 692, *a* 693; (Salic Law), XXI, *b* 225

Rici, Paul, Hebraist (Kabbalah), XIII, b 822

RICIMER, general, XX, b 562; (Rome), a b 799

Ricinine, drug (Castor Oil), V, b 174

Ricinium, garment (Costume), VI, a b 404

Ricinoleic acid (Oils), XVII, b 761

Ricinolein, glyceride (Oils), XVII, b 764

Ricinus, genus (Botany), IV, a 123, a 140, a b 141, b 142

RICKETS, disease, XX, b 562-3; (Dietetics), VII, b 174; (Pathology), XVIII, a 378, b 379-81, b 382 note, a 393

Rickman, John, statistician (Census), V, a b 291

RICKMAN, Thomas, architect, XX, b 563-4; (Cambridge), IV, a 646

Rickmansworth, town (Hertford), XI, a 690

Ricknild Street, road (Shakespeare), XXI, a 774

Ricks (Agriculture), I, a b 323, a 337

Ricochet fire (Fortification), IX, a 390, a 402

Ricold of Monte Croce, friar (China), V, b 545

Ricomagus or Ricomum, town (Riom), XX, a 579

Ricordi Politici (Guicciardini), XI, *a b* 227, *a* 228

Ricos hombres, nobles (Spain), XXII, *b* 336, a 337

Ricotta, cheese (Dairy), VI, a 681; (Italy), XIII, b 461

Rida, imam. See Riza

Riddarholmen, district (Stockholm), XXII, b 587

Riddarhus (Stockholm), XXII, b 587

Riddarhyttan copper mine (Lanthanum), XIV, b 291

RIDDELL, John Leonard, scientific writer, XX, a 909; (Microscope) (Ill.), XVI, a 218, *seq.*

RIDDLES, XX, a 564

Rideau canal (St. Lawrence), XXI, b 189, *a* b 190

Ride of Prince of Orange, painting (Metsu), XVI, b 207

Riderfort, grand-master. See Gerard de Riderfort

Ridger and subsoiler (Agriculture), I, b 280

Ridgway, Robert, ornithologist (Ornithology), XVIII, b 20

— library (Rush, J.), XXI, a b 897

Riding, district (Hundred), XII, b 374

Riding (Horse), XII, a 199-201; to hounds, a 202

Ridley, Henry (Anatomy), I, a 713

RIDLEY, Nicholas, bishop, martyr, XX, a b 564

Ridolfi, Carlo, painter (Robusti), XX, b 624, *b* 626

Riduna, island. See ALDERNEY

Riebeeck, Jan Van, pioneer (Cape Colony), V, b 40, a 45

Riedesel, Friedrich Adolph von, baron (Stone), XXII, b 929

Riegelhaus, dwelling (Switzerland), XXII, b 818

Riel, Louis, patriot (Red River), XX, *b* 328

Riella, genus (Muscineæ) (Ill.), XVII, b 72, a 73, b 76

RIEMANN, Georg Friedrich Bernhard, mathematician, XX, b 564-6; (Geometry), X, a 334, a 335; (Measurement), XV, b 665, b 666, b 670; (Parallels), XVIII, b 259; (Variable), XXIV, *a b* 78, a 82; his differential equation (Surface), XXII, b 706; his formulæ (Numbers), XVII, b 639; his theorem (Curve), VI, a b 640

Rienzi, Cola di, tribune (Italy), XIII, b 490; (Rome), XX, b 817-9, a 857 note; (Perugia), XVIII, a 694; (Petrarch), a b 721, a 724; (Tribune), XXIII, b 593

Rienzi, opera (Wagner), XXIV, *b* 334

Riese, Alexander (Anthology), II, a 94

RIESENER, Jean Henri, cabinet-maker, XX, a b 566

Riesener, Henri François, painter, XX, b 566

RIESENGEBIRGE, mountains, XX, b 566-7; (Austria), III, a b 101; (Germany), X, *b* 403

Riesenkamm mountains (Riesengebirge), XX, b 566

Reisling grape (Wine), XXIV, b 634, *b* 641, b 643-4

Riess, Peter Theophil, physicist (Electricity), VIII, *b* 14, b 17, a b 20, note, a b 21, a 22, b 30, a 32, a b 33, a 48, b 50, a 55, b 56, *a* 57, b 62, a b 74, a *b* 93, b 94, a 95; his law of heat (Electricity), b 52-3

RIETI, city, XX, a b 567; state (States of the Church), XXII, b 477. See Reate

RIETSCHEL, Ernst Friedrich August, sculptor, XX, b 567

Rietz, J. E., philologist (Scandinavian Languages), XXI, b 390

Rieurs, theatrical (Claque), V, b 700

Rif, hills (Morocco), XVI, b 856

Rifá'iya order (Sunnites), XXII, a b 697, note

Riffelsen, inventor (Tuning Fork), XXIII, b 659

Riffler (File), IX, b 140

Rifle battalion, Austrian (Army), II, b 529; Prussian (Army), b 521-2

Rifled guns (Arms), II, b 488, a 489; (Artillery), b 576; Ammunition), I, b 652; (Gunmaking) (Ill.),

Rifled guns, *continued* XI, a b 249-53; (Gunnery), a 271, b 274-5; (Patents), XVIII, a 880; (Shooting), XXI, b 874; (War), XXIV, b 366
—— projectiles (Gunnery), XI, a b 271
Rifle-fine-grain (Gunpowder) XI, a 292
RIFLEMAN-BIRD or Riflebird, XX, b 567-8
Riformati, friars (Franciscans), IX, b 615
Rig or Mor tuath, chief (Clan), V, a 699 note
RIGA, seaport (Plan), XX, a 568-9; (Livonia), XIV, *a* 730, *a* 731; gulf of, XX, a 568
RIGAUD, Hyacinthe, painter, XX, b 569
Rigault de Genouilly, Charles, admiral (Tong-King), XXIII, a 469
Rigdon, Sidney (Mormons), XVI, b 852-3
Rigging (Seamanship) (Ill.), XXI, 622, a b 623, a 624-5
Riggs, Elias, missionary (Slavs), XXII, b 158
Right, definition of (Law), XIV, b 357, b 361-2; Petition of, XVIII, b 718; positive (Cudworth), VI, a 611; and wrong defined (Price), XIX, a 742
—— ascension (Geography), X, a 177; (Navigation), XVII, a b 276, b 279; finding (Transit Circle), XXIII, a 549
—— cone (Conic Sections), VI, b 251; line (Curve), a 633
Right of dower, Writ of, XXIV, *a* 730
—— of way (Highways), XI, a 725; (Navigation), XVII, b 285
—— reason (Stoics), XXII, b 596
RIGHTS, Bill of, XX, b 569-70
——, deprivation in Russia of (Prison Discipline), XIX, b 781
Rights of Man, bill (Brazil), IV, b 212; (France), IX, b 527-8; (Mexico), XVI, b 898-9; (Newspapers), XVII, b 435
Rights of Man, book (Paine), XVIII, b 140, a b 141
Rigi, railway (Switzerland), XXII. b 819
Rigid body, centre of gravity (Gravitation), XI, a b 62; with one point fixed (Mechanics), XV, b 744-5
—— constraint (Mechanics), XV, b 684
—— figures, kinematics of (Mechanics), XV, b 697-700
Rigidity (Hydromechanics), XII, a 455; (Mechanics), XV, a 752; of the earth (Tides), XXIII, a b 399, b 404-5; flexural (Elasticity), VII, a 702, b 704; modulus of (Elasticity), b 693, b 707; (Strength of Materials), XXII, b 621; of solids (Elasticity), VII, b 699; torsional (Elasticity) (Ill.), b 702-3, b 701, a 705
Rigid plane figure, kinematics of (Measurement), XV, b 697-8; solid, equilibrium of (Mechanics), a b 736; kinetics of (Mechanics), a 740-6; motion of (Mechanics), a 762-3; statics of (Mechanics), a 736-40
Rigoley or Rigollot de Juvigny, Jean Antoine, author (Piron), XIX, b 127
Rigorists, casuists (Liguori), XIV, b 642
Rigsmál or *Rígsthula* (Edda), VII, b 564
Rigveda (Brahmanism), IV, *b* 182, *a* b 183, b 185, a *b* 186, a 190; (Festivals), IX, a 100; (Mithras), XVI, a 554; (India), XII, b 815, b 819, a *b* 820; (Religions), XX, b 373; (Sanskrit), XXI, *b* 283, a 286, a 288-90; (Vedanta), XXIV, b 128; (Zoroaster), *b* 860, a 861
Rig vidhana (Sanskrit), XXI, 290
Riimkörnike (Denmark), VII, a b 79
Rijmknonik (Holland), XII, a 94
Rijp, Corneliszoon, explorer (Polar Regions), XIX, *a* 329
Rik-prâtisâkhya (Sanskrit), XXI, a 290, note
Rik-samhita (Sanskrit), XXI, *b* 283, a *b* 286, a b 288-9, a *b* 290, a b 293
Riksdag or assembly (Sweden), XXII, *b* 781, *a* 782
Rikwa or Hikwa, lake (Zaire), XXIV, a 802
Riley, Charles Valentine, entomologist (Insects), XIII, b 148, b 160
—— and Henley's furnace (Iron), XIII, b 332-3
Rima glottidis (Voice), XXIV, *b* 293, a 294, a 296
Rimay John, poet (Hungary), XII, a 391
Rimbault, Edward Francis, musician (Pianoforte), XIX, b 77, a 78, a 79, a 87
Rimers (Hand Tools), XI, a b 392
RIMINI, city, XX, a 570-4
  Byzantine city, b 570-1
  church, St. Francis, b 572-3
  Malatestas, rise of the, a b 571; decline of, a 574
  papal city, a b 574
  Roman city, b 570
  Sigismondo, duke, b 571-4
—— (Ramusio), XX, a 281; siege of, 538 (Narses), XVII, a b 239
Rimini, Story of (Hunt), XII, *b* 398
Rimini ware (Pottery and Porcelain) (Ill.), XIX, b 613
Rimmon-nirari, king of Assyria (Babylonia), III, b 161
Rinaldo, count. See ALEXANDER IV., pope
——, architect (Pisa), XIX, a 131
Rinaldo (Handel), XI, b 388
Rinaldo, poem (Tasso), XXIII, a b 82
Rinckhart, Martin, poet (Hymns), XII, *a* 621
Rinderpest (Agriculture), I, b 271; (Murrain), XVII, b 65-6, b 67
Rindfleisch, Georg Eduard, physiologist (Pathology), XVIII, b 366-7, b 373 note, a 386, b 391 note, a 400, a 409, a 410, b 415, a 416
Rind-grafting (Horticulture) (Ill.), XII, b 242
Rindjani, peak (Lombok), XIV, b 825
RINEHART, William Henry, sculptor, XX, a 909; (Taney), XXIII, a 922
RING, ornament (Ill.), XX, b 574-6; (Filigree), IX, b 143; ecclesiastical (Costume), VI, b 408, a 410
——, electromagnet (Magnetism), XV, a 248, a 257
—— Dove, VII, b 328
Ringelspitz, mountain (St. Gall), XXI, b 177
Ringing fruit trees (Horticulture), XII, b 250
Ringmere, battle (Thetford), XXIII, b 320
Ring Micrometer, XVI, a 266
——-money (Numismatics), XVII, a 645 note
—— neck Snake, XXII, a 208
—— of the arch (Bridges) (Ill.), IV, a b 273, b 278
Ring-Ousel, bird, XVIII, b 78
Rings of Millepeds (Myriapoda), XVII, b 125
——, political (Tweed), XXIII, a b 949; (United States), a 832
Ring Snake, XXII, b 204, a 205
Ringtail, bird (Harrier), XI, a 440
Ringwaldt, Bartholomaeus, poet (Hymns), XII, *a* 621
Ringworm (Borneo), IV, a 51; (Goa Powder), X, *b* 630; (Parasitism), XVIII, b 274; (Skin Diseases), XXII, a 132; (Veterinary Science), XXIV, b 223
Rink (Curling) (Ill.), VI, a b 629; (Skating), XXII, b 113
——, Dr. (Greenland), XI, b 148, b 149, note, b 150, note, a 152; (Polar Regions), XIX, a 336
Rinmann's green (Cobalt), VI, b 76; (Zinc), XXIV, b 825
Rinns of Kells, mountain (Scotland), XXI, a 546
Rinso, Mamia, explorer (Saghalin), XXI, a 156
Rinteln University, XXIII, a b 901, a 904
Rintoul, Robert, journalist (Newspapers), XVII, a 430
Rinuccini, nuncio (Dublin), VII, b 433; (Ireland), XIII, *a* 273
—— chapel, Florence (Metal-Work), XVI, a b 81
Rio Atlaco (Popocatepetl), XIX, a 527
RIOBAMBA or Royabamba, town, XX, b 576-7; (Ecuador), VII, b 560, *b* 562
Rio Blanco, river (Plate), XIX, a b 199
Rio Bravo del Norte. See Rio Grande del Norte
Riôbu Shintô, religion (Japan), XIII, b 590
Rio Cobre (Jamaica), XIII, a 559
—— de Contas (Brazil), IV, b 199
—— de Gabâo (Gaboon River), X, b 4-5
—— de Janeiro bay (Map), XX, a b 577, *a* 578
RIO DE JANEIRO, city (Plans), XX, a 577-8; (Brazil), IV, *b* 202, a b 203, a 204, a 205, a b 206, *a* 207, a *b* 208, *a* 209, b 210, *b* 212, *b* 214, *a* *b* 215; (Foundling Hospitals), IX, a 427; (Libraries), XIV, a 536, b 554; (Newspapers), XVII, a 449
RIO DE LA PLATA (Plate), XIX, b 198-200; (America), I, b 588, a b 589, *b* 592, a 593; (Argentine Republic), II, a b 430; (Cabot), IV, b 553; (Gran-Chaco), XI, b 42; (Meteorology), XVI, b 154, b 158; (Uruguay), XXIV, a 19, a b 20, a 21; navigation of (Argentine Republic), II, b 431, b 432, a 433
—— Deseado (Patagonia), XVIII, a 358
—— Doce or Chopotó river (Brazil), IV, a 200, b 202
—— Frio (Nicaragua), XVII, a 491
—— Gallegos (Patagonia), XVIII, b 358
RIO GRANDE, rivers, XX, b 578; (Granada), XI, b 40; (Jamaica), XIII, b 558; (Nicaragua), XVII, b 491; (Philippines), XVIII, a 766; (Senegambia), XXI, a 694; XX, b 578
—— Grande de Cavagan (Philippines), XVIII, b 765
—— Grande del Norte, XX, b 578; (Colorado), VI, b 145; (Mexico), XVI, b 224, b 904, b 912; (New Mexico), XVII, b 409, *a* 410, *a* b 411; (Texas), XXIII, *a* 220, *b* 221, *a* b 222, a *b* 223
—— Grande de Santiago (Mexico), XVI, *b* 224
—— Grande do Norte or Para, province (Brazil), IV, b 201, a b 202, a 203, b 210, *b* 212; river, a 200; XX, b 578
RIO GRANDE DO SUL, town and river, XX, *b* 578-9; province (Brazil), IV, *b* 201, *a* b 202, b 203, b 204, *a* b 210, *b* 211, *b* 212, b 213, b 214, b 215
Rioja district (Logroño), XIV, *b* 814; (Wine), XXIV, *b* 639-40
Riolan, Jean, anatomist (Harvey), XI, a 451
RIOM, town, XX, a 579; (Puy de Dôme), b 125, a 126
Rion, river (Caucasus), V, *a* 219, a 221, b 222, b 223, *a* b 224; (Transcaucasia), XXIII, *b* 545, a b 546, *a* 547
Rio Negro (Patagonia), XVIII, a 358
RIONERO IN VOLTURE, town, XX, a 579
Rios, José Amador de los, critic (Spain), XXII, b 376
——, Juan, patriot (Peru), XVIII, a 692

RIOT, XX, a 579-80; (Hundred), XII, a b 375; (Pennsylvania), XVIII, a 515; (Mansfield), XV, a 507; (Luddites), a b 59; (Macready), a 168; (New York), XVII, a 895
Rio Tinto, mines (Huelva), XII, a 348; (Mining), XVI, b 475, b 476, b 490
Riouw islands (Indian Archipelago), XII, b 855, a 858
Rio Zatas (Tagus), XXIII, a 27
RIPARIAN LAWS, XX, a 580-1
RIPH, rabbi, XX, b 581-2; (Mishnah), XVI, a 530
Riphath, myth (Gomer), X, a 685
Ripidolite (Mineralogy) (Ill.), XVI, b 389, b 431
RIPLEY, market town, XX, a 582
RIPLEY, Eleazer Wheelock, general, XX, a b 909
RIPLEY, George, critic, XX, a b 582; (Encyclopædia), VIII, a 186; (Greeley), XI, a 144; (Socialism), XXII, a 220
RIPLEY, Henry Jones, divine, XX, b 909
RIPLEY, James Wolfe, general, XX, b 909
RIPLEY, Roswell Sabin, general, XX, b 909
RIPON, city, XX, a 583; (York), XXIV, *a* 786, a 787
——, Frederick John Robinson, earl of, Baron Goderich (South Australia), XXII, a 300
—— Falls (Nile), XVII, b 518
Rippel, George, alchemist (Chemistry), V, a 398
Ripper machine (Bookbinding), IV, b 39
RIPPERDA, John William, baron, politician, XX, a b 583; (Spain), XXII, *a* 352
Ripple-mark on rocks (Geology), X, a 260
Ripples defined (Capillary Action), V, a 63; (Wave), XXIV, a b 442
Representative Government (Mill, John Stuart), XVI, a 323, b 325
Ripuarian Franks, IX, *b* 636
Ripuarian Law (Salic Law), XXI, *b* 224-5
Riquet, Pierre Paul, engineer (Canal), IV, b 691
Riqueti, family (Mirabeau), XVI, a 516
Rir, Wady (Sahara), XXI, *b* 158
Rising Soul pyramid (Busiris), IV, a 514
Ríshire, town (Bushire), IV, b 512
Rishis, families (India), XII, b 821
Risk, fire (Insurance), XIII, a 170, a 171, a b 173; marine, b 191, b 192; traveller's, a 186
Rispetto, Italian song (Poetry), XIX, b 284
Rissa, birds (Gull), XI, *a* 243
RIST, Johann, hymn writer, XX, b 583; (Hymns), XII, *b* 621
Ristori, Adelaide, actress (Drama), VII, a 361
Ristoro d'Arezzo, scientist (Italy), XIII, a 512
Risus sardonicus, expression (Tetanus), XXIII, a 217
Ritabel, station (Timorlaut), XXIII, a 425
RITCHIE, Anna Cora Mowatt, actress, XX, b 909
——, Anne Isabella, novelist (Thackeray), XXIII, a 233
——, Thomas, editor, XX, b 909
——, physicist (Electricity), VIII, a 11, b 12, b 72
——, W. F., XX, editor, b 909
Ritchie's Balance, III, b 230; his elliptical escapement (Clocks) (Ill.), VI, b 26; his pendulum (Clocks) (Ill.), a b 26; his photometer (Light), XIV, b 587-8
Ritenbenk, station (Greenland), XI, b 152
Rites (Baptism), III, b 302-3; (Brahmanism), IV, a b 185-6, a 190; origin of church (Christianity), V, a 602; Roman Catholic (Palm Sunday), XVIII, a b 202
Rites, Book of (China), V, b 573, a 574; (Confucius), VI, b 233
——, Congregation of (Roman Catholic Church), XX, b 645-6
Ritratti delle Cose di Francia (Machiavelli), XV, a b 149
Ritschl, Albrecht, theologian (Pietism), XIX, *b* 92, a 93
RITSCHL, Friedrich Wilhelm, scholar, XX, b 583-4; (Varro), XXIV, a 101, a 102
RITSON, Joseph, antiquary, XX, b 584-5; (Minstrel), XVI, a b 502
RITTENHOUSE, David, astronomer, XX, a 585, note; (Aeronautics), I, b 170; (Micrometer), XVI, a 252
RITTER, Carl, geographer, XX, a b 585; (Missions), XVI, b 541; (Turkestan), XXIII, b 671, b 681
——, Johann Wilhelm, chemist (Photography), XVIII, a 834
Ritterstand, order (Hutten), XII, b 428
Ritthausen, H., chemist (Gluten), X, *b* 620
Rittingerite (Mineralogy), XVI, a 409
Ritual (Catholic Apostolic Church), V, a b 207; (Good Friday), X, a b 689; (Holy Water), XII, a 109; (Hymns), a 616; (Incense), b 759-60; (Knighthood), XIV, b 119-21, a 122, a b 126; Anglican (Parker), XVIII, b 365; ceremonial (Cardinal), V, *a* b 87; early church (Catechumen), a b 193; Hebrew (Lamentations), XIV, b 241, b 242; (Pentateuch), XVIII, b 518, b 523-4; (Priest), XIX, *b* 747, *a b* 748; (Synagogue), XXII, b 850; Presbyterian (Scotland), XXI, b 564; rise of (Sacrifice), *b* 142, a 146
Rituale or *Ritual* (Liturgy), XIV, b 715, a 716, a 718
Ritualism, faction (Pusey), XX, a 124; (Stanley), XXII, a b 471; (Wilberforce), XXIV, a 596
Ritual of Durham (English Language), VIII, b 351, a 359
—— *of the Dead*, Egyptian (Papyrus), XVIII, a 236
Ritusamhára (Kálidása), XIII, b 838; (Sanskrit), XXI, b 300, note
Ritzebüttel, town (Hamburg), XI, b 360, a 365
Riukiu islands (China), V, a 563; (Japan), XIII, a 578, a 580, a 583, a 589; (Lew Chew), XIV, a 489-90; language of (Japan), XIII, b 596
Riva, town (Garda), X, *b* 68
—— Aguero, Don José de la, president (Peru), XVIII, b 691
Rivadeo, estuary (Lugo), XV, a 62; harbor (Galicia), X, a 25
Rival Ladies, play (Dryden), VII, *b* 422
Rivals, comedy (Sheridan). XXI, *b* 834, a b 835
RIVAROL, Antoine de, author, XX, a b 586; (Roucher), XXI, b 15
Rivas, Angel de Saavedra, duke of. See SAAVEDRA
Rive, de la. See De la Rive
RIVE DE GIER, town, XX, b 586
RIVER ENGINEERING (Plate V), XX, b 586-97
  canalization of rivers, a b 588
  channel work, a b 587-9
  Charleston jetties, a 595
  Clyde works, a 594
  conclusion, b 596
  Danube delta, b 595-6
  dredging, b 593
  floods, b 586-7
  general observations on rivers, 590-1
  jetties, a b 592
  Maas works, a 595
  Mississippi jetties, a b 596
  movable weirs, a 589-90
  pumping, a 588
  Seine training walls, b 594-5
  Tees works, a b 594
  tidal rivers, a 591-5
  tideless rivers, a 595-6
  training walls, b 592-3
  Tyne works, b 593
  weirs, b 588-90
—— (Agriculture), I, b 292-3; (Dredging) (Ill.), VII, b 401-4; (Mississippi), XVI, b 543-4; (Po), XIX, a 264; catchment basin of (Hydromechanics), XII, a 530; gauging process, b 537-9; surveying, b 532-9
—— fisheries (Pisciculture), XIX, b 135, a 136, b 137
—— hog (Swine), XXII, a 812
—— of May (Florida), IX, a 298
Rivero, Mariano, geologist (Peru), XVIII, b 689, a 693
River-Pearls, XVIII, b 458-9
—— -Poplar, XIX, b 526
Rivers (America), I, *a* 588, b 592-3; (Arctic Ocean), II, a 422; (Chili), V, a 536; (Commerce), VI, b 177; (Geology), X, b 241-7; (Himalaya), XI, a 734-5, b 737, *b* 738; (Pacific Ocean), XVIII, a b 120; (Pamphylia), b 210; (Russia), XXI, a 74, a 80-1; (Siberia), XXII, a 9-10, b 17; (Tides), XXIII, b 375-6, a 385-6; (Water-Supply), XXIV, b 425-6
——, beds of (Geology), X, b 245; currents of, a 193, a b 243; earthquake effects on, b 226-7
——, erosion of (Anthropology), II, b 102; (Geology), X, a b 243, b 244-5, b 331-2; (Mississippi), XVI, b 542, b 543; (Scotland), XXI, b 546-7
——, flood discharge of (Hydromechanics), XII, a b 530, a 532; flow of, b 454, b 517-39; flow at bends (Ill.), a b 525-6
—— frozen (Geology), X, b 248-9; height of (Meteorology), XVI, a 187; law of Navigable, XVII, *b* 286-7; (Stanton), XXII, a 919; motion of (Hydromechanics), XII, a 481; mouth deposits of (Europe), VIII, a b 598
—— pollution. See Pollution of streams; proprietorship in (Riparian Laws), XX, a 580-1; relics in detritus (Archæology), II, b 294, a 295; statistical tables of (Europe), VIII, a b 602; (France), IX, b 457-8
——, subterranean (Cave), V, b 231; (Europe), VIII, a 601; (Geology), X, a 241; (Tunnelling), XXIII, b 662
——, surface level (Hydromechanics), XII, a 532; tidal (River Engineering), XX, b 590, *a* 591-5, b 596; tideless, a *b* 595-6; velocity measurement of (Hydromechanics), XII, a 533-9
River slopes (Geology), X, b 242
—— snail, development of (Mollusca) (Ill.), XVI, a 662
—— water, analyses of (Geology), X, a 243; (Water), XXIV, b 420, a 421
—— worship (Oath), XVII, a 718
RIVES, William Cabell, senator, XX, b 909-10
Rivesaltes, town (Pyrénées), XX, *a* 134
Riveted plates (Joints), XIII, b 743
RIVIERA of Genoa, XX, a 597; (Italy), XIII, b 446, b 450; (Liguria), XIV, a 646; (Phthisis), XVIII, a 872
—— of Ticino, XXIII, *b* 373
Rivière, adventurer (Tong-King), XXIII, *b* 469
—— Noire, district and mountains (Mauritius), XV, *b* 646
RIVINGTON, James, printer, XX, a 910
Rivinus, Augustus Quirinus (Botany), IV, a 70, note
Rivinus's ducts (Digestive Organs), VII, b 193
Rivista Contemporanea (Periodicals), XVIII, a 553
Rivoli, duke of. See MASSÉNA
Rivotite (Mineralogy), XVI, b 446

RIXDORF, village, XX, a 597
Riyam, sanctuary (Yemen), XXIV, a 778
Riyáshí, Ar-, commentator (Tabarí), XXIII, a 7
Rizá Ali Imám, shrine (Meshed), XVI, a 51, note; (Persia), XVIII, b 637
RIZZIO, David, secretary, XX, a 597; (Mary Stuart), XV, *a* *b* 602; (Morton), XVI, b 873
Rjev, town. See RZHEFF
ROACH, fish, XX, a 597; (Ichthyology) (Ill.), XII, a 677; fishing (Angling) (Ill.), II, b 38
Road-engines (Agriculture), I, a 288; (Steam-Engine), XXII, a b 549
—— metal (Granite), XI, a 45
Roadrunner, bird (California), IV, b 623
ROADS AND STREETS, XX, a 597-604
    ancient, a b 597
    asphalt pavement, b 602-3
    comparison of surfaces, a b 603
    construction, b 597-600
    footways, b 603-4
    Henson pavement, b 601
    maintenance, b 599
    materials, b 598-9, a 600
    stone pavements, a 600-1
    watering and cleaning, b 603
    wear, a b 599
    wood pavements, a 601-2
—— (Agriculture), I, a 266, b 269, b 270; (Attica), III, a 53; (Ceylon), V, b 319; (Commerce), VI, b 177; (Famines), IX, a b 24; (France), a 457; (Germany), X, a 413; (Greece), XI, a 80; (Guatemala), b 213; (India), XII, a b 794, b 834; (Japan), XIII, a 584, b 585-6; (Merv), XVI, a 48; (Nepal), XVII, a 352; (Scotland), XXI, b 553; (Switzerland), XXII, b 819; (Tibet), XXIII, a b 363, a 364; (Turkey), a b 697; ancient (Mesopotamia), XVI, b 53; (Phrygia), XVIII, a 864; Roman (Inscriptions), XIII, b 135; (Kent County), XIV, a 41; (Rome) (Plate VI.) (Ill.), XX, b 829; Peruvian (America), I, a 612. See Caravan routes, Routes
Roadway, weight of (Bridges) IV, a 254, a 265
Roan, island (Sutherland), XXII, b 763
—— Leather, XIV, a 389
ROANNE, town, XX, a b 604; plain (Loire), XIV, a b 816
Roannez, duc de (Pascal), XVIII, a b 340, a 341
"Roaring forties" (Meteorology), XVI, b 151
Roasting (Cocoa), VI, b 93; (Coffee), a 103; (Cookery), a b 295; ores (Copper), b 309-10; (Tin), XXIII, b 427; (Iron), XIII, b 297-8
Roatan, island (Honduras), XII, a 133, a 134, a 135
Roba el Khaliyeh (Arabia), II, a b 209
Robartes, John B., lord lieutenant (Hopkins, E.), XII, a 162; (Redruth), XX, b 328
Robber synod, 449 (Leo I.), XIV, a 449; (Syriac Literature), XXII, b 869 note
Robbers, play. See *Rauber*
Robbery (Theft), XXIII, b 250, a 252; highway (London), XIV, b 833
Robbe's process (Salicylic Acid), XXI, b 227-8
ROBBIA, Della, family, XX, b 604-8; (Pottery and Porcelain), XIX, a b 647
——, Andrea della, sculptor (Ill.), XX, b 605, *a* 606-7
——, Giovanni della, sculptor (Ill.), XX, a b 607
——, Girolamo della, sculptor, XX, b 607-8
——, Luca della, 1st, sculptor (Ill.), XX, b 604-6; (Trumpet), XXIII, b 630
——, Luca della, 2d, sculptor, XX, a 607
——, Marco della or Fra Luca, sculptor, XX, a 607
——, Paolo della or Fra Ambrogio, sculptor, XX, a 607
Robene and Makyne (Henryson), XI, a 604
Robenhausen Lake dwellings, XIV, *b* 224-5
ROBERT I. of France, duke or king, XX, a 688; (Charles III.), V, a 355; (France), IX, a 473
ROBERT II., France, the Pious, XX, a 608; (France), IX, a 474
—— of Anjou, king of Naples (Boccaccio), III, *b* 732; (Italy), XIII, *b* 487, b 488; (John XXII.), *a* 723; (Rome), XX, a *b* 816, *a* 817
ROBERT the Bruce, king, Scotland, XX, a 608-11
    contest for the crown, a 609-10
    death and burial, a 611
    earl of Carrick, period, a 608-9
    Edward II., struggle with, b 609-11
    Irish expedition, b 610-11
—— Arran, II, a 550; (Bannockburn), III, a 299; (Carlisle), V, a 96; (Dog), VII, *b* 285; (Dumfries), *a* b 456; (Dumferline), a b 468; (England), VIII, a 281; (Fillan, St.), IX, b 144; (Forfar), a 363; (Hartlepool), XI, a 445; (Melrose), XV, a 851; (Perth), XVIII, b 681; (Scotland), XXI, b 509, a 510-2, a 513
—— II., king, Scotland, or Steward (Scotland), XXI, a b 512; (England), VIII, b 286; (Stuart), XXII, *a* 642
—— III., Scotland, or John, earl of Carrick (Mar), XV, a 532; (Scotland), XXI, *b* 512, a b 513
—— I., of Artois, the Illustrious (Capet), V, a 50
——, duke of Burgundy (Henry I., France), XI, b 596-7
—— I., count of Flanders, IX, a 254
—— II., count of Flanders, IX, a 254; (Crusades), VI, b 551, a 552, a 553
—— III., count of Flanders, IX, a 254
—— the Strong, duke of France, IX, b 472; (Capet), V, b 49
—— the Norman, founder. See Rollo
—— I., of Normandy, the Devil (France), IX, a 474, a 475; (Normandy), XVII, a 556
—— II., Curthose of Normandy (Bristol), IV, b 314, a 315; (Cardiff), V, b 82; (Crusades), VI, b 551, a 552, a 553; (Gloucester), X, b 616; (Henry I., England), XI, *a* 585; (Normandy), XVII, *b* 557-8; (Scotland), XXI, a 503; (William I. and II.), XXIV, *b* 607-8, a 609; effigy of (Sculpture) (Ill.), XXI, b 584
—— of Arbrissel, monk (Fontevrault), IX, a 320
—— of Brunne, metrical historian (Manning), XV, a 502
—— de Craon, master (Templars), XXIII, a 176
—— of Genevois, bishop (Geneva), X, b 133
ROBERT OF GLOUCESTER, chronicler, XX, a 612; (English Literature), VIII, b 365, b 366
—— of Gorham, abbot (St. Albans), XXI, b 164
—— of Jumiéges, bishop (Godwine), X, *b* 641; (England), VIII, a b 252, a b 261; *missal of* (Liturgy), XIV, a 715
ROBERT, Hubert, painter, XX, a b 611
——, Louis, inventor (Paper), XVIII, a 223
ROBERT, Louis Léopold, painter, XX, b 611-2
——, Rahel Antonie Friederike, authoress (Varnhagen von Ense), XXIV, a 99
—— brothers (Aëronautics), I, a *b* 170, b 171
ROBERT GUISCARD, duke, XX, b 612; (Basilica), III, a 360; (Crusades), VI, b 550, b 551; (Greece), XI, a 106; (Gregory VII.), b 158; (Ionian Islands), XIII, a 212; (Italy), b 481
Robert-Houdin, Jean Eugene, prestidigitateur (Legerdemain), XIV, b 415, a 416; (Magic), XV, a b 209, *a* *b* 210, a 211
Robert le Diable, opera (Meyerbeer), XVI, a 231; (Taglioni), XXIII, b 26
Robert Mansel, knight (Templars), XXIII, b 176
ROBERTS, David, painter, XX, b 612-3
——, C. (Gymnastics), XI, b 311
——, John, harper (Gipsies), X, a b 548-9, a 550
——, John, Jr., gamester (Billiards), III, *a* 585
——, Richard, inventor (Cotton), VI, a 443
——, T. P., geologist (United States), XXIII, b 865
——, William Chandler, chemist (Gold), X, b 659, a b 668, a 670; (Mint), XVI, b 512 note. See List of Contributors
——, on sterilization (Biology), III, a 589, a 598
ROBERTSON, Frederick William, preacher, XX, a 613-4
——, George, engineer (Canal), IV, a 700; (Harbors and Docks), XI, b 418, a 419
——, George Croom, metaphysician (Philosophy), XVIII, a b 807. See List of Contributors
——, James, historian (Scotland), XXI, a b 564
ROBERTSON, James, pioneer, XX, a 910; (Tennessee), XXIII, a 195
ROBERTSON, Thomas William, dramatist, XX, a b 614
ROBERTSON, William, historian, XX, b 614-6; (Brougham), IV, *b* 335; (Compass), VI, *a* 202; (History), XII, a b 24; (Johnson, S.), XIII, b 739; (Presbyterianism), XIX, a 705, note; (Prescott), a b 723; (Scotland), XXI, a b 562
Robertson's *Elements of Navigation*, XVII, a b 265
Robert's theorem (Curve), VI, a 640
ROBERVAL, Gilles Personne de, mathematician, XX, b 616-7; (Descartes), VII, b 103, b 105; (Infinitesimal Calculus), XIII, b 9; (Torricelli), XXIII, a 482
——, Jean Francis de la Roche, Seigneur de (Cartier), V, *b* 144
Roberval's balance (Ill.), III, a 230
Robespierre, Augustin Bon Joseph, politician (Napoleon I.), XVII, b 201, *a* 202
ROBESPIERRE, Maximilien Marie Isidore, depopulator, XX, a 617-21
    character of, a 621
    committee of public safety, a 619-20
    downfall, a 620-1
    early life, a b 617
    Girondins, opposes, a 618-9
    States-general, b 617-8
—— (Collot D'Herbois), VI, b 134; (Couthon), b 469; (Danton), a 720; (Desmoulins), VII, b 112, *b* 113, a 114; (Fouché, J.), IX, b 420; (France), a b 530, *b* 531, a b 532, b 534; (Napoleon), XVII, a 202; (Saint-Just), XXI, *b* 185, *a* 186; (Tallien), XXIII, a 38; (Vergniaud), XXIV, b 179
Robidoux, Joseph, pioneer (St. Joseph), XXI, a 185
Robin, bird (Fieldfare), IX, b 124-5; (Redbreast), XX, b 327, note; (Wheatear), XXIV, b 567
——, Charles, naturalist (Arachnida), II, b 242
——, Jacquelin, heroine (St. Omer), XXI, b 197
—— of Redesdale, rebellion of, 1469 (Warwick), XXIV, b 402
Robinet, Jean Baptiste René, philosopher (Evolution), VIII, b 665-6

Robin Goodfellow, myth, XX, a 622
ROBIN HOOD, outlaw, XX, a 621–2; (Huddersfield), XII, b 344
Robin Hood (Romance), XX, a b 675
Robin Hood's hill (Nottingham), XVII, a 614
Robinia, tree, (Acacia), I, a 67; (Arboriculture), II, b 278–9, b 282; (Botany) (Ill.), IV, b 100, b 102
ROBINS, Benjamin, physicist, XX, b 622; (Arms, etc.), II, b 488; (Gunnery), XI, a 264, a 269, b 281; (Gunpowder), b 287, b 288, a 295
——, Anastasia, countess of Peterborough, XVIII, a 715
ROBINSON, Beverley, Tory, XX, b 910
ROBINSON, Edward, theologian, XX, b 622–3; (Ai), I, b 376; (Jerusalem), XIII, a 647, a 652, b 655
——, Sir Frederick Philipse, governor, XX, a 910
——, Sir Hercules, statesman (Ceylon), V, a 318, a b 319
ROBINSON, John, preacher, XX, b 623; (Independents), XII, a b 763–4
——, Sir John, lord-mayor (Penn), XVIII, a 504
ROBINSON, John Thomas Romney, inventor, XX, b 623–4
——, Ralph, pseudonym (Young), XXIV, a 793
ROBINSON, Stuart, divine, XX, b 910
——, Therese Albertine Luise von Jakob, authoress, XX, b 622–3, note
——, Sir Thomas, politician (Chatham), V, b 382
—— W., orientalist (Tibet), XXIII, a b 368, note
Robinson Crusoe (Defoe), VII, b 26, a 28, *a* b 29; (Juan Fernandez), XIII, a 768; (Selkirk, A.), XXI, b 670–1
Robinson's arch (Jerusalem), XIII, b 648
—— Balance, III, b 227, a b 228
—— cups (Anemometer) (Ill.), II, b 24
—— oil filter (Filter), IX, b 149
Robins's pendulum (Mechanics), XV, a 743
Robison, John, physicist (Electricity), VIII, b 9; (Encyclopædia), b 182, a 183; (Magnetism), XV, *a* 238; (Watt), XXIV, a 434, b 435, note, b 436
Robles, Francisco, president (Ecuador), VII, a 563
"Rob Roy" Canoe, IV, b 716
ROB ROY, outlaw, XX, a 624
Robsart, Amy, countess (Leicester), XIV, a 426
Robusti, Domenico, painter, XX, b 625, b 626
ROBUSTI, Jacopo, or Tintoretto, painter, XX, a 624–6; (Titian), XXIII, a 443
——, Marietta, painter, XX, a 626
Roby, H. J., jurist (Roman Law), XX, b 724, note
Roc or Rukh, bird of legend, XX, b 626–7; (Birds), III, a 634
Roca, da, cape (Europe), VIII, b 597
Rocabey, village (St. Malo), XXI, b 195
Rocambole, plant (Horticulture), XII, b 299–300
Roccella, genus (Archil), II, b 331; (Lichens), XIV, a 563, b 564
ROCH, ST., monk, XX, a 627
ROCHAMBEAU, Jean Baptiste Donatien de Vimeur, Comte de, XX, b 910; (New York), XVII, b 467
ROCHAMBEAU, Marie Joseph Donatien de Vimeur, Viscomte de, governor, XX, b 910
ROCHDALE, town, XX, a b 627; (Libraries), XIV, b 520, a 546; (Savings Banks), XXI, *a* 345
Roche, Michel de la, editor (Pamphlets), XVIII, a 546
——, Sophie la (Goethe), X, *a* b 646, a 656
ROCHEFORT, town, XX, b 627–8
Rochefoucauld, François, Duc de la. See LA ROCHEFOUCAULD
Rochefoucault - Liancourt, François Alexander Frédéric, duc de (Smith, A.), XXII, b 179, note
ROCHELLE, LA, town, XX, a 628–9; siege of, 1627 (Buckingham, Duke of), IV, b 375, a 376; (France), IX, a b 501; (Huguenots), XII, a 353
—— salt (Cream of Tartar), VI, b 492; (Tartaric Acid), XXIII, b 755
Rochemaillet, Michel de la, critic (Charron), V, a 374
Roche Melon (Alps), I, b 545, b 548
——, Peter des, bishop (Henry III., England), XI, *a b* 587
—— -moutonnées (Geology), X, a b 250; (Kirkcudbright), XIV, b 99
ROCHESTER, England, city, XX, a b 629; (Seals) (Ill.), XXI, b 615–6
——, town (New Hampshire), XVII, b 401
ROCHESTER, New York (Plan), XX, b 629–30
ROCHESTER, John Wilmot, earl of, XX, b 630; (Otway), XVIII, a 74
——, Lawrence Hyde, earl of, diplomatist (South), XXII, b 295
ROCHE-SUR-YON, LA, town, XX, b 630
Rochet, bishop's dress (Costume), VI, a 410
——, Victor, editor (Pascal), XVIII, a 343
Rochette, Désiré Raoul, antiquary (Catacombs), V, a b 181
Rochholz, E. L., antiquarian (Tell), XXIII, *a* 172
Rochon, Alexis Marie, abbé, astronomer (Micrometer), XVI, a 262
Rockall, islet (Brazil, Island of), IV, b 216
Rock and spindle (Linen), XIV, a 671
Rockanje, lake (Holland), XII, a 66
Rockaway Beach (Long Island), XIV, a 876
Rockbridge, Alum Springs (Mineral Waters), XVI, a 456
Rock-candy (Confectionery), VI, b 228
Rock of Cashel, V, *a* b 153
Rock-crystal (Crystallography), VI, a *b* 594; (Mineralogy), XVI, b 358, a 367, a 373, a b 379, a 384, a b 387, b 391, a 392, a 405
—— -cut caves, Egypt (Architecture), II, a 337, a 340; Indian (Architecture), b 345; temple (Chándá), V, a 339; tombs (Architecture) (Ill.), II, a 340, a 345, b 351, a 352, a b 361
—— cutting, Egyptian (Tunnelling), XXIII, b 662–3
Rock-Dove, VII, b 328
—— -dwellings (Greece), XI, b 86
"Rocket," locomotive (Railway), XX, b 232; (Steam-Engine), XXII, a 496, a 923
Rocket, plant (Horticulture), XII, b 258
——, pyrotechnic (Ammunition) (Ill.), I, a 654; (Artillery), II, a 576, b 578; (Gunpowder), XI, *b* 282, *b* 283; (Pyrotechny), XX, b 142–3; motion of (Mechanics), XV, a 729
—— apparatus (Lifeboat), XIV, a b 576
Rock-fish (California), IV, b 623
ROCKFORD, Illinois, town, XX, a 631
"Rock Garden" (Horticulture), XII, a 254
ROCKHAMPTON, town, XX, a 631; (Queensland), a b 178, b 179, a 181
ROCKINGHAM, Charles Watson Wentworth, marquis of, premier, XX, a b 631; (Burke), IV, b 483, *a* b 484, a *b* 485, *b* 486; (Chatham, Earl of), V, *b* 383; (Fox, C. J.), IX, a 437, a 438; (Pitt), XIX, b 145, b 146–7, b 152; (Townshend), XXIII, b 524
Rocking-valve-gear (Steam-Engine) (Ill.), XXII, a b 528
Rock island (Heligoland), XI, *a* b 563, a 564
ROCK ISLAND, town, Illinois, XX, b 631
ROCKLAND, Maine, town, XX, b 631
Rock-oil. See PETROLEUM
—— -pigeon, bird (Sand-Grouse), XXI, b 271
—— river (Illinois), XII, b 743; (Rockford), XX, *a* 631
Rocks, Archæan (Geology), X, *b* 289–91; atmospheric effects on (Geology), a 235–7; carboniferous (Geology), b 306–11; classification of (Geology), b 206–14; elastic (Geology), a 211–4; contemporaneous igneous (Geology), b 277–8; compound (Geology), b 207–11; crystalline (Geology) (Ill.), a b 204, b 205, b 206–11, b 263–4, a 273–8; curvature of (Geology) (Ill.), a 265–6; disintegration of (Geology), b 238–9, a 240, a b 241, a 243, b 244–5, b 248, b 250, b 253–4, a 256; dislocation of (Geology) (Ill.), a 267–71; Durocher's theory of (Geology), b 198–9; foliated (Geology), b 204, a 206, b 210–1, a 264; formation of (Foraminifera), IX, a 326; (Werner), XXIV, a 530; fragmental (Geology), X, a 211–4, a b 278; fusion of (Geology), a 231–2; general characteristics of (Geology), a 204–6; history of (Geology), b 189–90; hypogene changes (Geology), a 230–4; ice-worn (Geology), a 325–6; igneous (Geology), b 204, a 205, b 207–10, a 272–8; inclination of (Geology) (Ill.), a 264–5; joints in (Geology) (Ill.), b 262–4, a 277; laminated (Geology), b 258–9; massive (Geology), b 207–10; mesozoic (Geology), a 312–9; metamorphic (Geology), a 206, b 278–80; palæozoic (Geology), a 291–12; plutonic (Geology), a 208, b 272, a 273–7; properties of (Harbors and Docks), XI, a b 415; rain effects upon (Geology), X, a 238–9; sedimentary (Geology), b 205–6, a 234, b 258–62, a b 263; (Pacific Ocean), XVIII, a b 131; simple (Geology), X, b 206–7; stratification of (Geology) (Ill.), b 259–62; tertiary (Geology), b 319–24; thermal conductivity of (Geology), a b 200; unconformability of (Geology), b 281–2; volcanic (Geology), b 213–4, b 272, a 275, b 277–8, b 304, a b 307
Rock Salt, XXI, b 239, a 241–5; (India), XII, b 803–4; (Melloni), XV, *b* 849; (Mineralogy), XVI, b 385, a 400; (Mining), a b 489, a 490, b 493; (United States), XXIII, b 870
Rock-Snake (Python), XX, b 150; XXII, a 204
—— tarus described (Scotland), XXI, b 548–9
—— Thrush, XXIII, a 343
Rockwell, J. E., stenographer (Shorthand), XXI, a 880, b 881
Rocky mountain fauna (Distribution), VII, a 239
—— Locust (Ill.), XIV, a 772, a b 773, a 774
—— sheep (Antelope), II, a 91
Rocky Mountains (America), I, a 592, b 595; (Colorado), VI, a b 145; (Meteorology), XVI, a 132, b 142; (New Mexico), XVII, a b 410; (Texas), XXIII, b 221, a b 222; (United States), a 846–8, a 855, a b 856, *a b* 861, *a* 862; (Washington), XXIV, a 406; (Wyoming), a b 748; forests (United States), a b 859; physiography of (Geology), X, b 330
Rococo style (Furniture), IX, b 746
Rocquancourt Aqueduct, II, a 194
ROCROI, town, XX, b 631–2; battle of, 1643 (Condé), VI, b 218; (France), IX, b 503

RODBERTUS, Karl Johann, socialist, XX, a b 632; (Socialism), XXII, a 218, *b* 222, a 229, a 230
Rod of brickwork (Building), IV, a 414
Rodd, Lady Jane Rennell (Rennell), XX, a 413
Rodde, Dorothea Schlözer, doctor (Schlözer), XXI, a 434
Rodentia, order (Africa), I, 231, a b 232; (Hibernation), XI, a 704; (Mammalia), XV, a 375, a 420-7; anatomy of (Mammalia), b 353, b 354, b 356, b 357; circulation in, a 367; distribution of, a 377; reproductive organs, b 370, a 372; duplicidentata, a 426-7; moles, a 421; simplicidentata, classification, a 422-6
Roderick or Rydderick of Strathclyde, king (Scotland), XXI, *b* 496
Roderick Random (Smollett), XXII, *a* 194
Rodérique, Jean Ignace de, editor (Newspapers), XVII, b 439
RODEZ, town, XX, b 632-3; (Aveyron), III, a b 132
RODGERS, John, 1st, commodore, XX, b 910; (United States), XXIII, b 808 note
——, John, 2d, admiral, XX, b 910; (Corea), VI, a b 350
Rodger's anchor (Ill.), II, b 6, *b* 7, *a* 8
Rödiger, Emil, orientalist (Gesenius), X, a *b* 495; (Syriac Literature), XXII, a 895
RODMAN, Isaac Peace, soldier, XX, b 910-1
RODMAN, Thomas J., inventor, XX, a 911; (Gunpowder), XI, a 288, a 294, a 295
Rodmar, myth (Nibelungenlied), XVII, b 487
RODNEY, Cæsar, patriot, XX, a 911
——, Cæsar Augustus, senator, XX, a 911
RODNEY, George Brydges Rodney, baron, admiral, XX, a 633-4; (France), IX, b 523, a 524; (Jamaica), XIII, b 560
Rodogune (Corneille), VI, b 370, *a b* 372
RODOSTO, town, XX, a 634
Rodrigo Diaz de Bivar. See CID
Rodrigues's co-ordinates (Mechanics), XV, b 700, b 738
RODRIGUEZ, island, XX, a 634-5; (Birds), III, *b* 635; (Rennell), XX, b 410, note
—— of Toledo, chronicler (Spain), XXII, b 368
——, Martinho, bishop of Oporto (Portugal), XIX, a 557
——, Orlinde, socialist (Enfantin), VIII, a 192
——, Pedro, count of Campomanes (Political Economy), XIX, b 376
——, Simon, priest (Jesuits), XIII, a b 663
——, Ventura, architect (Pamplona), XVIII, a 211
Rods and cones, retinal (Anatomy), I, *b* 780, a 781, a 782
——, vibrations of (Acoustics) (Ill.), I, a 105, a 106
Roe. See DEER
Roe of fish (Cod), VI, a 95; (Egg), VII, a b 604
——, river (Londonderry), XIV, a 863, a 864
——, Nathaniel, Logarithmist, XIV, b 782, a 783
ROE or Row, Sir Thomas, traveller, XX, a 635; (India), XII, a 838
ROEBLING, John Augustus, engineer, XX, a b 635
——, Washington A., engineer, b 635, note
Roebuck, John, chemist (Watt), XXIV, b 434, a 435
——, John Arthur, politician, *b.* 1802, *d.* 1879 (Palmerston), XVIII, a b 200
Roelandt, Louis, architect (Ghent), X, *a* 504
ROEMER, Ole, astronomer, XX, b 635-6; (Astronomy), II, a 657, a 660, a 709; (Micrometer), XVI, a 259; (Time), XXIII, b 419; (Transit Circle), b 547; his velocity measurement (Light), XIV, a b 588
Roeness Hill (Orkney), XVII, b 870
Roensch (Apocalyptic Literature), II, b 155, a 156
Röer, Hans Heinrich Edward, orientalist (Sanskrit), XXI, b 289, note, a b 291 notes, a b 292 notes, b 304 note, a b 305, note
ROERMOND or Roermonde, town, XX, a 636; (Guelderland), XI, b 216
Roeskilde, fjord and town (Zealand), XXIV, *a* 810
Roesler, ethnologist (Huns), XII, b 397; (Vlachs), XXIV, a b 288, a 289
Rofe, J., naturalist (Echinodermata), VII, a b 551, b 553
Róffia palm (Madagascar), XV, a 171
Rofreit, town. See Roveredo
ROGATION DAYS or Gangweek, XX, a 636; (Ambarvalia), I, b 577; (Litany), XIV, *a* 702
Rogationes, prayers (Litany), XIV, b 701
ROGER of Sicily or de Hauteville, grand count, XX, a 636; (Italy), XIII, b 481; (Monteleone), XVI, b 805; (Normans), XVII, b 562; (Sicily), XXII, a b 30, a 31
ROGER II., count of Sicily, 1st king, XX, b 636; (Greece), XI, a b 106; (Italy), XIII, b 481; (Palermo), XVIII, b 173, a b 174; (Sicily), XXII, a b 31, a 32; (Textiles), XXIII, b 226
——, Count of Foix. See FOIX
——, Bursa, duke of Calabria (Robert Guiscard), XX, b 612
—— de Flor, adventurer (Andronicus II.), II, b 22
—— de Loria, admiral (Sicily), XXII, a b 33
—— of Salisbury, bishop (England), VIII, b 273
ROGER OF WENDOVER, chronicler, XX, b 636; (Matthew of Paris), XV, *b* 640
—— of York, archbishop (England), VIII, a 275
ROGERS, Henry Darwin, geologist, XX, a b 911; (Geology), X, b 230, b 233; (United States), XXIII, a 845
ROGERS, James Blythe, chemist, XX, b 911
——, James Edward Thorold, economist (Paper), XVIII, b 222, a 223; (Political Economy), XIX, b 383 note, a 411, a 413; (Protection), b 933; (Tooke), XXIII, b 474; (Wages), XXIV, b 327, b 331. See List of Contributors
ROGERS, John, martyr, XX, b 636; (English Bible), VIII, b 345
ROGERS, Robert Empie, chemist, XX, b 911
ROGERS, Samuel, poet, XX, b 636-7; (Foscari, F.), IX, a 416
——, Thomas, manufacturer (Steam-Engine), XXII, a 924
——, William A., astronomer (Screw), XXI, b 578
ROGERS, William Barton, physicist, XX, b 911
——, Woods, governor (Bahamas), III, a 205
Rogers's conical boiler (Horticulture) (Ill.), XII, b 233
Roget's Thesaurus (Dictionary), VII, b 156
Roggeveld, district (Cape Colony), V, a 38, a 40
Roggewein, Jacob, sailor (Geography), X, a 169
Rognon river (Marne, Haute-), XV, b 568
Rognwald of Dublin, king (Scotland), XXI, *a* 501
—— of Mœri, earl (Norway), XVII, b 599; (Orkney), a 873
—— Brusison, earl (Orkney), XVII, *a* 873
Rogue river (Oregon), XVII, *a* b 846, a 847
Rogues (Elephant), VIII, a 117, b 118
Rogue's yarn defined (Seamanship), XXI, a 634
Roguing, process (Horticulture), XII, b 219
Roham or Nebuchadnezzar, king (Kurdistan), XIV, a 160 note
Rohan family (Morbihan), XVI, b 839. See SOUBISE
——, Emmanuel de, master (St. John of Jerusalem), XXI, b 183-4
ROHAN, Henri de, general, XX, b 637-8; (Soubise), XXII, *a* 290
——, Louis Constantine de, bishop, XX, *b* 638
ROHAN, Louis René Édouard, cardinal, XX, b 638-9
—— -Chabot, Chevalier de (Duel), VII, b 443 note; (Voltaire), XXIV, *a* 307
——, Louis François August, Duc de, cardinal (Liguori), XIV, a 643
Rohault, Jacques, philosopher (Clarke), V, *b* 708; (Descartes), VII, a b 110, a 111
ROHILKHAND or Rohilcund, division, XX, a 639; (N. W. Provinces), XVII, b 585, *a b* 586, *a* 587
Rohillás, race (Bareli), III, b 321; (Hastings), XI, a 459
Rohlfs, Gerhard, explorer (Africa), I, *a* 222, a 223, a 224; (Ilori), XII, a 749; (Yoruba), XXIV, b 791
Röhr, Johann Friedrich, theologian (Rationalism), XX, a 303
Rohri, division and town (Shikárpur), XXI, *a* 840
ROHTAK, district, XX, a b 639; (Punjab), b 114; town, *b* 639
Roidos, novelist (Greece), XI, a 136
Roig, Jaume, poet (Spain), XXII, b 377
Roja, river (Italy), XIII, b 446
Rojas, Fernando de, dramatist (Spain), XXII, a 370
—— Michelena y, traveller (Orinoco), XVII, a 868
ROJAS-ZORILLA, Francisco de, dramatist, XX, b 639-40; (Spain), XXII, a 373
Rokeby, Mat. Robineau, lord (Beard), III, b 401
Rokelle or Mabié river (Niger), XVII, a 510; (Sierra Leone), XXII, b 50
Roker, town (Sunderland), XXII, b 691
Rokh Sháh, Persia (Sunnites), XXII, a 698
ROKITANSKY, Carl von, Freiherr von, anatomist, XX, a b 640
Rokneddin, sheik (Assassin), II, a 633; (Seljuks), XXI, *b* 669
Rokosz or revolt (Poland), XIX, b 302, b 305
Rök rune stone (Scandinavian Languages), XXI, b 386, a 387
Rokyzana, Johann, mystic (Moravian Brethren), XVI, a 838
Roland, bell (Ghent), X, a 503
Roland, chief (Camisards), IV, b 657, a 658; (Cavalier), V, *a* 227
ROLAND, paladin, XX, b 641-2; (Romance), a 666, *a b* 667, a 668; (Turpin), XXIII, b 711-2
Roland, Lully's opera (Minuet), XVI, b 515
Roland, opera, Piccini's, XIX, a 881
——, *Chanson de.* See *Chanson*
ROLAND, Marie Jeanne Philipon Manon, authoress, XX, b 640-1; (France), IX, a 531; (Robespierre), XX, *b* 618
ROLAND DE LA PLATIÈRE, Jean Marie, statesman, XXI, b 640-1; (France), IX, a 531, *a* b 532
Rolando, Luigi, anatomist (Phrenology), XVIII, a 860
Rolândslied, ballad (Germany), X, b 468
Rolas, island (St. Thomas), XXI, b 210
Roldan, adventurer (Columbus), VI, b 156-7
Rolf of Normandy. See Rollo
Rolfe, John, husband (Smith), XX, b 185 note
Rolland, Eugène, author (Riddles), XX, a 564
——, John, poet (Scotland), XXI, b 567

- Rolland's oven (Baking), III, b 222
- Rolle, Michel, mathematician (Infinitesimal Calculus), XIII, a b 13
- Rolled Plate-Glass, X, a 591
- ROLLER, bird, XX, b 642-3
- ——, Calender-, IV, b 605
- ——, farm- (Agriculture) (Ill.), I, a 284-5, a 300, b 317
- ——, printer's (Lithography), XIV, b 707; (Typography), XXIII, a 751, b 752, a 753, a 755
- —— -board (Organ) (Ill.), XVII, a b 858
- —— -mills (Flour), IX, b 302-3
- *Rolle's Psalter* (English Bible), VIII, a 343
- ROLLIN, Charles, historian, XX, a b 643; (Universities), XXIII, *b* 906
- Rollin, Ledru. See LEDRU-ROLLIN
- Rolling (Roads and Streets), XX, b 598
- —— curve on curve (Mechanics), XV, b 698; curves (Mechanics), b 764-5, b 767-8
- —— hitch (Seamanship) (Ill.), XXI, a 620
- —— metal (Brass), IV, a 196; for coining (Mint) (Ill.), XVI, a b 510
- —— mills (Iron) (Ill.), XIII, a 337-40
- —— shutters (Building), IV, b 444
- ——, sliding combined with (Mechanics), XV, b 744; of sphere on inclined plane (Mechanics), b 742
- —— sphere seismograph (Seismometer) (Ill.), XXI, a b 659
- —— stock (Railway), XX, b 234, b 254-60
- ROLLO, Rolf, Hrolf or Rou, viking, XX, b 643; (France), IX, b 472, a 473; (Holland), XII, b 73; (Normandy), XVII, b 552, a b 553, a 554; (Norway), b 598
- *Rollo, Duke of Normandy*, play (Beaumont and Fletcher), III, b 408
- ROLLOCK, Robert, teacher, XX, b 643; (Scotland), XXI, a 568; (Universities), XXIII, b 902
- Rolls or ancient books (Book), IV, b 34; (Papyrus), XVIII, a b 236
- ——, crushers (Mining), XVI, a 485
- ——, plumber's roof (Building), IV, a 450
- *Rolls* (Records, Public), XX, *b* 323-7
- ROLLS, Master of the, judge, XX, b 643-4
- Roll-Tobacco, XXIII, a 454
- Rom, name (Gipsies), X, b 545, a 546
- Röm island (Schleswig-Holstein), XXI, a 432
- Romaic Folk-song, III, *b* 245
- —— language (Dictionary), VII, a 159; (Greece), XI, b 132
- Roman of Lodomeria, prince (Galicia), X, b 24
- —— of Volhynia, prince (Russia), XXI, b 98
- ——, St., prince (Uglitch), XXIII, b 765. a 766
- *Roman, The*, poem (Dobell), VII, *a* b 267
- *Romana, Historia* (Victor), XXIV, b 231
- *Roman Actor* (Massinger), XV, b 625
- *Romana, Lex* (Salic Law), XXI, b 226-7
- Romana lingua (Latin), XIV, *b* 340-1; (Romance), XX, a 648 note, a 658
- Roman Alphabet (I), XII, a 637; (Inscriptions), XIII, a b 131; forms of letters (Palæography), XVIII, b 156, a b 157, b 158, a b 159
- —— Alum, I, a 568
- —— antiquities (Ill.), XX, a 824-60; (Archæology), II, a 320-1; (Bedfordshire), III, b 417; (Berkshire), a 512; (Dorset), VII, a b 322; (Durham), b 484; (Edinburgh), b 571, b 573; (Essex), VIII, a b 489; (Hellin), XI, b 568; (Hertford), b 689; (Holyhead), XII, b 108; (Hythe), a b 636; (Kent County), XIV, a 41; (Lambese), *b* 238; (Lancashire), b 254-5; (Leicester), a 425; (Lincoln), b 662; (Pipes), XIX, a 120; (Poitiers), b 293, a 294; (Pola), b 296; (Pontefract), *b* 469; (Prescription), b 723, a b 724; (Somerset), XXII, a b 272; (Spoleto), b 427; (Stirling), b 582; (Suffolk), b 655; *Antiquities of Britain* (Horsley, J.), XII, a 213. See Antiquities, Roman
- Romana Porta, gate (Rome), XX, a 831
- —— Aqueducts (Plates III, IV), II, b 191-3, b 200; (Alcaraz), I, a 406. See AQUEDUCTS
- ROMAN ARCHITECTURE, (Plates XIV-XVII), II, a 363-9, b 371-2; (Archæology), a b 321; (Rome) (Ill.), XX, b 825-9, b 833-59; (Terra-Cotta), XXIII, a 211
- —— Arms and Armor, II, a b 486
- —— Army, II, b 492-3. See Army, Roman
- —— bakers (Baking), III, a 216
- —— Baths (Ill.), III, b 375-6; (Hydropathy), XII, a 577; (Pompeii), XIX, b 462-3. See BATHS, Thermæ
- —— biography, Greek compared with (Lucretius), XV, b 53
- —— Breviary, IV, *b* 235; (Hymns), XII, a 619; (Liturgy), XIV, b 714; (Urban I.), XXIV, b 12
- —— Bridges (Ill.), IV, a 296-7. See Bridges, Roman
- —— British tales (Celtic Literature), V, *b* 278
- —— Bronze, IV, b 331-2
- —— Camp (Ill.), IV, b 662-3
- —— candles (Pyrotechny), XX, a b 142
- —— Carriages, V, b 118
- —— cartography (Map), XV, a b 524
- —— carving (Ivory) (Plate VII), XIII, b 533
- —— Catholic Bibles, III, a 561; (English Bible), VIII, b 348
- ROMAN CATHOLIC CHURCH, XX, a 644-8
  - cardinalate, b 644-5
  - congregations, a 645-6
  - English law, b 647-8
  - hierarchy, a 646
  - pontificate, b 644
  - population, a b 644
  - rites and sects, a 646-7
- —— (Austria), III, b 102, *a* 103; (Baptism), a 302, a b 303; (Bastard), b 369; (Belgium), b 455, b 457, a b 458; (Bishop), a 684; (Canada), IV, b 675-6, a b 678, a b 690; (Canon), V, a b 14-5; (Catechisms), b 191; (Celibacy), a 255; (Church), b 663, b664; (Clergy), b 722; (Concordat), b 214-6; (Creeds), VI, 499, (Deacon), VII, a 3; (Dean), b 14-5; (Decalogue), a 16; (Dogmatic), a b 291, *a* 293; a 296; (Easter), b 531-2; (Ecuador), b 562; (Ember), VIII, b 146, a 147; (Erasmus), a b 456-7; (Eucharist), b 572, b 573; (Europe), a b 625, a 626; (Exorcism), a 705; (France), IX, a b 452, b 453; (Germany), X, a 421-2, *b* 423; (Good Friday), a 689; (Greek Church), XI, b 137; (Hebrews), b 541; (Heresy), b 655, *a* b 657; (Hermeneutics), a 669; (Hierarchy), a *b* 707; (Holland), XII, a b 69; (Hymns), a 619-20; (Image Worship), a 751, a b 752; (Immaculate Conception), b 753-4; (Incense), b 759, a 760; (Index Librorum Prohibitorum), a 768-9; (India), b 784, a 785; (Indulgence), b 887-8; (Inquisition), XIII, a 98-9, b 101; (Italy), b 468-70, a 481, a 493, a 494; (Jesuits), b 659; (Jubilee Year), a 770; (Liguorianism), XIV, a 641-6; (Linus), b 684; (Liturgy), *a* b 714; (Maronites), XV, a b 569; (Mexico), XVI, a 227, note, b 898, b 902; (Missal), b 531-4. See Missions; (Monachism), b 735; (Munich), XVII, b 32; (Mysticism), a 142; (New York), b 473, b 896, a 897; (Palm Sunday), XVIII, a b 202; (Patriarch), a 421; (Perrone), b 568; (Philippine Islands), b 766; (Popedom), XIX, a 502-25; (Quare Impedit), XX, a 165; (Reformation), a 332-50; (Relics), a b 370; (Renaissance), a 401, a 402, b 403-4, b 405; (Silvester), XXII, b 82-3; (Spain), b 318; (Sponsor), b 446; (Trent, Council of) XXIII, a 578-86; (Vatican Council), XXIV, b 120-3; established in Maryland, XV, a b 611; in New England (United States), XXIII, b 787; in modern Prussia, XX, a b 21; (Bunsen), IV, b 467-8; (Germany), X, a 460. See Catholic, Catholicism, Church Councils, Latin Church, Papacy
- —— Catholic Emancipation, XX, *b* 647; (Ireland), XIII, a 277. See Catholic Emancipation
- —— Catholic historians, (Church History), V, b 668, a b 669
- —— Catholics in United Kingdom (Charles II.), V, a b 354; (England), VIII, a b 224, b 266, b 306, a 308, a 309, *b* 313-4, a 333; (Henrietta Maria), XI, a b 584; (Ireland), XIII, b 222, b 225, a 226, 245, b 246-7, b 255, a 261, b 268-9, b 272, a *b* 273, a b 274, *a* *b* 275, b 276, b 277; (James I., England), *a* b 568, a 569; (James II., England), *b* 569-70; (Jesuits), a b 660; (Primogeniture), XIX, a 755; Highlander (Scotland), XXI, a 563; indulgence of (Scotland), a 539; introduction of rite (Scotland), a b 498, b 499, a 504
- —— Catholic Socialism, XXII, a 227
- —— Cavalry, V, a 229
- ROMANCE, XX, a 648-78
  - Anglo-Danish, a 674-5
  - ARTHURIAN CYCLE, b 657-65
    - bibliography, b 665-6
    - classical similarities, a b 659
    - early forms, a 660-1
    - ethnographic elements, a 658-9
    - Gast and Map, b 659-60
    - Holy Grail, b 661-2
    - Lancelot, b 662-3
    - Merlin, a b 661
    - minor romances, a b 665
    - origines, b 657-8
    - Palamedes, a b 664
    - pedigree of heroes, 662
    - Perceval, a b 662
    - Round Table Stories, a 659-65
    - Tristan, b 663-4
    - Ysaie, Arthus de Bretaigne and Perceforest, b 664-5
  - CHARLEMAGNE AND HIS PEERS, a 666-70
    - bibliography, b 669-70
    - early ballads, a 666
    - mytho-historical works, a 666-7
    - paladins, a b 667-9
    - *Reali di Francia*, a 667
    - Turpin chronicle, a b 667
  - Divisions of subject, a 648-9
  - English outlaws, a b 675
  - GREEK AND LATIN, b 649-57
    - adaptations and reproductions, a 655-6
    - Alexander, histories of, a 656-7
    - Benoît and his imitators, b 654-5
    - bibliography, b 652-3, b 657
    - Christian, early, a 652

- Romance, *continued*
  - Greek and Latin
    - enchanter, Virgil, a b 657
    - erotic romances, b 650-2
    - letters, fictitious, a 652
    - Milesian tales, b 649-50
    - novels, Greek, a b 650
    - prose, Greek, b 649
    - pseudo-classical, a 653-7
    - review of Greek romance, a b 652
    - Roman, b 652
    - romances with classical names, a b 657
    - Troy legends, a 653-5
  - Literature of mediæval, a 677-8
  - Modern to seventeenth century, a 676-7, a b 678
  - Spanish Cycle, a 670-4
    - Amadis de Gaul, a 670-3
    - bibliography, 672-3, 674
    - continuations of Amadis, a b 671-3
    - original story of Amadis, a b 671
    - Palmerins, a 673-4
    - pedigree of Amadis heroes, b 672
    - pedigree of Palmerins, b 673
    - translations of Amadis, b 670-1
  - Teutonic Cycle, a 674
  - Unaffiliated romances, b 675-6

—— (Alchemy), I, a 412; (Amadis of Gaul), b 571-2; (Antara), II, b 89; (Apuleius), b 188; (Arabia), a 231; (Celtic Literature), V, b 278-80, b 282-3; (Chrestien de Troyes), a 597; (Cid), b 676-7; (France), IX, b 562-3, b 579-80, b 596-7; (Germany), X, b 468-70, b 475; (Häring), XI, b 428; (Holland), XII, a 93-4, a b 99, a b 100; (Hoffmann), b 47, a b 48; (Hungary), a 394-5; (Iceland), a 662; (Italy), XIII, a b 509, b 511-2, a 518; (Mohammedanism), XVI, b 617; (Persia), XVIII, b 669; (Portugal), XIX, a 572; (Reeve), XX, b 332; (Scotland), XXI, *a* b 566; (Siam), b 895-6; (Spain), XXII, a 368, b 371-2, b 374; (Sweden), a 792; (Syriac Literature), a 876; (Tabarí), XXIII, a b 9; Byzantine (Greece), XI, a 107, b 121; philosophical (Haller), b 354; (Smith, W. H.), XXII, a 188; (Voltaire), XXIV, b 312-3; sources of European (Celtic Literature), V, a 282-3

- Romance Languages, XX, a 678-86
  - barbarous Latin, 684-5
  - Christian Latin, b 683-4
  - classical period, b 682-3
  - Latin dialects, b 678-9
  - literature, b 686
- Romance Languages, *continued*
  - modern languages, b 685-6
  - old popular Latin, a 679
    - aspirates, a 680
    - consonants, a 679-80
    - grammar, a b 682
    - vocabulary, b 681-2
    - vowels, a 680-1
  - persistence of archaisms, a 678
  - post-classical, a 683

—— (Anthropology), II, a 105; (Charles the Bald), V, a 355; (Dictionary), VII, b 159-61; (Diez), a 186; (Europe), VIII, a b 614; (France), IX, a 554; (Grisons), XI, b 182; (Italy), XIII, a b 507, a 510; (Latin), XIV, b 340-2; (Lewis, Sir G.), b 492; (Provençal Language), XIX, b 892-902; (Spain), XXII, a 360, a *b* 361; (Valais), XXIV, a 37

Roman cement (Building), IV, a *b* 410, a 452, a 454; (Fresco), IX, b 680

—— Census, V, b 290-1

—— chancery MSS. (Palæography), XVIII, a 159, a 168

—— Clubs, VI, b 38-9

—— coins (Numismatics), XVII, *a b* 644, *b* 645, a 646, a 653, b 669-72, a 676; dies for, XVII, b 650. See Coins, Roman

Roman Comique, novel (Scarron), XXI, *a* 395

Roman Costume (Ill.), VI, a 403-4, b 411

—— Crowns, VI, a 547

—— cults or worship (Fortuna), IX, a 414; (Image Worship), XII, b 749; (Inscriptions), XIII, a b 139; (Jupiter), b 789-90; (Lares), XIV, b 313-4; (Mithras), XVI, b 554; (Penates), XVIII, b 499; (Pilgrimage), XIX, b 100; (Priest), a b 744, a 746; (Religions), XX, 372, a b 383; (Sacrifice), XXI, a b 141, *a* b 142, a 143 note, a *b* 144, note, *a* b 145

Roman de Brut (Wace), XXIV, *a* 325

—— *de la Rose* (Chaucer), V, b 390, *a* b 391, *a* 393; (English Literature), VIII, b 367, a 368; (France), IX, *a* 566-7; (William of Lorris), XXIV, b 616

Roman depreciation of coin (Money), XVI, b 752-3

Roman de Rou (Wace), XXIV, a 325

—— *de Troie* (Romance), XX, a 653-5

Roman dialect, modern (Italy), XIII, b 506-7, a b 508

—— diplomas (Diplomatics), VII, a b 220-1

—— Dogs, VII, b 282

—— Drama, VII, a 354-6; (Act), I, b 113; (Livius Andronicus), XIV, b 729. See Drama, Roman

—— Empire, VIII, a b 166; (Arabia), II, a b 224; (Britannia), IV, b 319; (Christianity), V, b 600-1, b 602-3; Constantine I.); VI, b 268; (Crete), b 505; (Dacia), a 669; (Diocletian), VII, b 213; (Egypt), b 648-9; (Fife), IX, b 133-4; (Finance), a b 152; (France), a b 466; (Franks), b 636; (Frisians), b 691; (Gladiators), X, b 563; (Germany), b 426-7; (Holland), XII, a 72-3; (Huns), a 397; (Illyria), b 748; (Israel), XIII, a 434-8; (Neoplatonism), XVII, a b 343; (Nicephorus I.), a 495-6; (Palmyra), XVIII, b 203-4; (Pelagius), a 482; (Persia), a b 607-8, a b 609, a b 613, b 614-5, b 618, a b 619, a b 620, b 621, b 622, b 623, a b 624, b 625; (Phrygia), a 866, a 867; (Protection), XIX, a 936; (Prussia), XX, a 26; (Silk), XXII, a b 62; (Spain), a 312, a 322-3; (Syria), b 861-2; (Tiberius), XXIII, a b 358; (Tribune), b 593; boundary lines of (Trajan), a b 535; centralization of (Trajan), b 537; consolidation of the (Cæsar), IV, a 563, b 566-7; (Hadrian), XI, a b 325; decay of (Salvian), XXI, a 251; degradation under (Jesus Christ), XIII, b 672-3; effects of (Geography), X, b 157-8; industrial organization of (Slavery), XXII, b 143-5; invasions of (Goths), X, b 754-6; organization of (Government), XI, b 11-2; (Rome), XX, b 787-91; sale of the (Severus), XXI, a 732; schools of (Universities), XXIII, *b* 887; survey of (Agrippa, M. V.), I, b 371. See Emperor, Empire, Holy Roman Empire

—— engraving (Gems), X, a 122, a 125-6

—— Epitaphs, VIII, b 438

—— era (Chronology), V, *a* 617, a b 618

Romanes, George J., zoologist (Hydrozoa), XII, a 585; (Psychology), XX, a 73 note; (Variation and Selection), XXIV, b 88, b 89. See List of Contributors

Romanesque Architecture, II, b 369, b 370, b 372-3, a 376, b 377, a 405, a 413; (England), VIII, *b* 270; (Normans), XVII, b 564

Roman Fairs, VIII, b 741-2

—— galleys (Ship), XXI, a b 844-5

—— Guilds. See Guilds, Roman

—— heating apparatus (Stoves), XXII, b 607-8

—— Helmet, XI, a 569

—— history and historians, XX, b 737, b 738, a b 740, b 743, b 745-6; (Ammianus), I, b 648; (Appian), II, b 134; (Dion Cassius), VII, a 215; (Dionysius of Halicarnassus), a 216; (Fabius Pictor), VIII, b 732, (History), XII, a 23, a b 26; (Jugurtha), XIII, b 776-7; (Julian), a 778-9; (Lewis), XIV, a 493; (Livy), a b 732, a b 735, b 737-8; (Niebuhr, B. G.), XVII, a b 705-6; (Paterculus), XVIII, a 864; (Perizonius), a 559; (Polybius), XIX, b 425-8; (Procopius), a b 811, a b 812; (Sallust), XXI, b 229, *a* 230; (Tacitus), XXIII, a 25; (Varro), XXIV, b 101; (Victor), b 231; (Vossius), b 320; (Zosimus), *a* 863. See specific titles of books

Romani, Girolamo or Il Romanino, painter (Schools of Painting), XXI, b 455, a 463

Romanic languages. See Romance Languages

Romani language (Dictionary), VII, b 161; (Gipsies), X, b 547-9, b 551

Romanini, singer (Metastasio), XVI, a b 109, a 110

Roman indiction cycle (Chronology), V, a 617, b 618, a 622

—— industrial art (Aqueduct), II, b 194; (Furniture), IX, b 745; (Glass), X, a 578-9, b 580, b 581; (Hydromechanics), XII, b 451, note; (Iron), XIII, *b* 296, a b 345; (Papyrus), XVIII, a 237; (Textiles), XXIII, b 225-6; (Wool), XXIV, a 688; (Wood-Carving), a 680

—— inscriptions (Ambarvalia), I, b 577; (Capri), V, a 70; (Eugubine Tables), VIII, b 582; (Gruter), XI, b 200; (Herculaneum), b 648; (Inscriptions), XIII, a 130-40; (Italy), b 453, a 455; (Juvenal), b 814; (Lambese), XIV, b 238; (Latin), *a b* 329, b 330, a 337; (Numismatics), XVII, b 671; (Oscans), XVIII, b 58; (Pompeii), XIX, a 465

——insignia (Sceptre), XXI, b 401

—— Irrigation, XIII, b 380

Romanischen Sprachen, Grammatik der (Provencal Literature), XIX, a 897

Roman Jewellery (Plate XI), XII, b 687

—— Kalendares (Almanac), I, b 519

- Roman Law, XX, a 686-735
  - Codification Period, a 729-35
    - Christian state religion, b 729-30
    - codes, ante-Justinian, a b 731
    - family relations, a b 732
    - glossarists, a b 735
    - imperial legislation, a b 729
    - Justinian legislation, b 731-5
    - law-books, a 734-5
    - procedure, new, a b 730
    - property and obligations, b 732-3
    - succession, a 733-4
    - Valentinian citations, b 730-1
  - Regal Period, a 686-93
    - adrogation and adoption, b 689
    - æs et libram procedure, b 691-5
    - boni mores, b 688
    - classes of population, b 686-7

ROMAN LAW, *continued*
  REGAL PERIOD
    contract and its breach, a b 692
    course of justice, a b 695
    courts, b 695–6
    ethnic elements, a b 686
    family, Quiritian, b 688-90
    fas, b 687–8
    jus, a b 688
    mancipation, b 693-4
    offences and penalties, b 792–3
    plebeian family and succession, b 691–2
    property, Quiritian law of, a b 690
    Servian reforms, b 693-6
    succession, Quiritian law of, b 690-1
  JUS CIVILE, a 696–713
    actions of the law, b 697–704
    citizen and his caput, b 704–5
    condiction, a 701–2
    family relations, b 705–6
    guardianship and agnates, a 706–7
    injectio manus, a 702–3
    intestate succession, b 709-10
    Legis actiones generally, b 698-9
    legislative bodies, a 696–7
    mancipation and property, a 707–8
    nexal contract, a 711–12
    obligations, b 710–11
    pignoris capio, b 703
    postulatio judicis, a 701
    procedure, extra-judicial, b 703–4
    recuperatio, b 704
    sacramento, a 699–701
    stipulation, b 712–3
    succession, b 708–10
    Twelve Tables, a 697-8
    usucapion, a b 708, a b 710
  JUS GENTIUM, 713–21
    Æbutian reforms, a 714
    confirmatory stipulations, a 719–20
    consensual contract, b 718–9
    consuetudinary law, a b 716
    contracts, b 717–20
    foreign influx, b 713
    intestate succession, a 721
    legislation, a 715–7
    literal contract, a b 718
    literature, influence of, b 714
    magistrates' edicts, b 515–6
    peregrin prætor, b 713-4
    prætorian succession law, a 720-1
    professional jurisprudence, b 716–7

ROMAN LAW, *continued*
  JUS GENTIUM
    provincial administration, a b 714
    Publician edict, a b 717
    religion, decline of, b 714–5
  JUS NATURALE, b 721–9
    characteristics of, a 722
    citizenship, b 722
    Edictum Perpetuum, a b 723
    family, a b 725
    formular system, a 726–7
    imperial constitutions, a 724
    jurists, a b 722
    jus and factum, formulæ conceptæ in, a 727–8
    legislation of comitia and senate, b 722–3
    magisterial remedial imperium, a 728–9
    military testaments, b 724-5
    procedure extra ordinem, a 728
    professional jurisprudence, b 724
    recognition of, b 721-2
    responses of juris consults, b 723
    succession, b 725–6

——, XIV, a 358, a 359, b 363, b 365–6; (Action), I, b 122; (Adoption), a b 149; (Agrarian Laws), b 256–8; (Appeal), II, a 182; (Bachelor), III, b 170; (Bankruptcy), a 294; (Code), VI, b 95, a 96; (Copyright), a 316; (Cujas), b 612–3; (Decemviri), VII, a b 18; (Divorce), a b 261; (Domicile), b 304, note; (Fuero), IX, *a* 711; (Gaius), X, a b 16; (Gentili), X, b 144, a 145; (Hiring), XII, a 3; (Hotch-Pot), a 321; (Husband and Wife), a 416; (Hypothec), a 633; (Infant), XIII, a 3; (Inheritance), a 83; (Insanity), b 117; (International Law), a b 197; (Judge), b 772; (Justinian), b 801–4; (Land), XIV, a 261–2; (Landlord and Tenant), b 273; (Libel and Slander), b 504; (Mandate), XV, a 479; (Marriage), b 572, b 575; (Mortgage), XVI, a 875; (Negligence), XVII, a 325; (Partnership), XVIII, b 334–5, a 337; (Perjury), b 559; (Pleading), XIX, a b 229, a 230; (Pledge), a 232; (Possession), a b 576, a 577; (Province), a 910–11; (Real Estate), XX, b 317; (Renaissance), b 394; (Riparian Laws), *b* 580; (Sale), XXI, b 215–6, b 218; (Savigny), b 341, a 342; (Scotland), b 494 note, b 505; (Settlement), b 726, note; (Slavery), XXII, b 140, b 141, *a* b 142, a 143, a *b* 144; (Sunday), a 689; (Theft), XXIII, a b 250, a 251, b 252 note; (Tort), b 482–3; (Torture), a 491–2; (Treason), a *b* 559; (Treasure Trove), b 563; (Trust), a 633; (Veto), XXIV, b 223–4, a 225; (Will), b 601-2; (Witchcraft), a 653, a 656; (Witness), *b* 657, b 658; (Women), b 671–2, a 677; (Wreck), a 722; (Writ), *b* 728; *Treatises on* (Ulpianus), XXIII, a b 768. See Civil Law, Codes, and specific titles of Codes

ROMAN LITERATURE, XX, a 735–46
  Augustan, a 741–3
  Cæsar and Sallust, a b 740
  Cato, historian, a b 737
  characteristics, later, b 743–4
  Ciceronian age, a 739–41
  Domitian, b 745
  drama, rise of regular, a 736–7
  earliest forms, a 735–6
  Horace, a 742–3
  imperial institutions, a b 741
  literature, b 746
  Livy, b 743
  Lucretius and Catullus, b 740–1
  Nerva to Hadrian, b 745–6
  new elements of later, b 744–5
  observations on republican, a 738–9
  post-Augustan age, b 643
  republic, last two centuries, a 736–9
  Terence, b 737–8
  Tiberius to Nero, a b 745
  Virgil, b 741–2

—— (Accius), I, a 80; (Catullus), V, a 218; (Ennius), VIII, a 398–9; (Fabricius), a 737; (Horace), XII, a 163-9; (Hymns), b 612; (Jupiter), XIII, b 789; (Latin), XIV, b 329–43; (Livius Andronicus), b 729; (Manutius), XV, b 520, *a* 521; (Nævius), XVII, a b 169-70; (Petronius), XVIII, a 734–6; (Plautus), XIX, b 226–7, b 228; (Rhetoric), XX, b 528–9; (Ritschl), a b 584; (Romance), b 652; (Sallust), XXI, b 229-30; (Satire), b 333–4; (Severus), *a* 735; (Statius), XXII, a b 485; (Terence), XXIII, b 203, b 204–5; (Tertullian), a 214; (Virgil), XXIV, a b 267
—— Magistrate, XV, b 217; (Rome), XX, a 789–90; (Tribune), XXIII, b 591–3; (Veto), XXIV, b 223–4, a 225
—— Marriage, XV, b 572, b 575; (Husband and Wife), XII, a 416; (Roman Law), XX, b 722–3; ceremony (Totemism), XXIII, b 499. See Marriage Laws, Roman
—— Medicine, XV, a 812–4; (Demonology), VII, b 54; (Surgery), XXII, a b 709; (Veterinary Science), XXIV, a 213–4
—— Metal-Work, XVI, a 80
—— Mosaic, XVI, b 881; ancient, a 877–9
—— mouldings (Architecture) (Plate XIII), II, b 366; (Building) (Ill.), IV, b 423
—— Mural decoration (Ill.), XVII, b 41, 47-9; (Fresco), IX, a b 676; (Herculaneum), XI, b 647; (Pompeii), XIX, a 464
—— Nobility, XVII, b 538–41
—— notation (Numerals), XVII, b 640, a 641
Romano, Ezzelino da, tyrant (Italy), XIII, b 485, a 486, a b 516
——, Ezzelin IV., tyrant (Universities), XXIII, a 892
——, Giulio, painter (Pippi), XIX, b 121–2; (Raphael), XX, b 290, note, a 291, note, b 292, *a* 295; (Vaga), XXIV, a b 36
Romanoff, family (Russia), XXI, a 102, *a* 104
—— -Borisoglyebsk, town (Yaroslavl), XXIV, b 767, *a* 768
Romanos, Ramon Mesonero, humorist (Spain), XXII, b 375
Romanovitch, Oleg, prince (Briansk), IV, b 247
Roman pedigrees (Genealogy), X, b 128-9
—— Plate (Ill.), XIX, a 192–3
—— Political Economy, XIX, a 363–4
Roman Popes, their Church and State (Ranke), XX, a 895
Roman Pottery (Ill.), XIX, a 636
—— reckoning (Calendar), IV, *b* 589, a b 590, a b 591
—— republic (Dictator), VII, b 154-5; (Etruria), VIII, b 559; (Hortensius), XII, b 214-5; (Government), XI, b 11; (Greece), a 97-8; (Gymnastics), a 311; (Libya), XIV, a 555; (Magistrate), XV, b 217; (Philopœmen), XVIII, b 804, a 805; (Province), XIX, b 910, a b 911; (Samnites), XXI, a b 261; (Sicily), XXII, *a* 20, b 25, a 26–8; (Spain), b 320–2; (Sumptuary Laws), a 678; (Syracuse), a b 856; (Troad), XXIII, b 616; of Arnold of Brescia (Rome), XX, a 811–2; decay of early, a 789-90; history of, b 754–87; manners in (Cato), V, b 208-9; soldiers of (Sulla), XXII, b 665, *a* 666; mediæval destroyed (Rome), XX, b 820-1; Rienzi's, a 817–9
—— Rings, XX, a b 575, a 576
—— roads (Cambridge), IV, a b 643; (Macedonia), XV, b 138; (Middlesex), XVI, a 293; (Roads and Streets), XX, a b 597; Warwickshire (Shakespeare), XXI, a 774, b 775; (Wilts), XXIV, b 626; (York), a b 786. See Via, etc.
ROMANS, town, XX, a 746
——, ancient people (Beard), III, a 400; (Bell), a 463; (Brewing), IV, b 236; (Dance), VI, b 704; (Demonology), VII, b 55, a

Romans, *continued*
56; (Education), b 582; (Funeral Rites), IX, b 725; (Inns of Court), XIII, b 95; (Magic), XV, b 202-4; (Magnetism), a 220; (Naumachia), XVII, a b 255; (Stoicism), XXII, b 599-602; (Taboo), XXIII, a b 23; (Wax-Work), XXIV, *b* 486; social continuity of (Odoacer), XVII, a b 747
——, Bernard, engineer (Surveys), XXII, b 938
ROMANS, Epistle to the, XX, a 746-9
  church at Rome, a 746-7
  contents, a b 748
  date, a b 747
  genuineness, a b 749
  motive, b 747-8
  problems of, b 748-9

—— (Paul), XVIII, a 432
Romans, On the Fortune of the (Plutarch), XIX, b 246
Romansch tongue (Dictionary), VII, b 161; (Grisons), XI, b 182. See Ladin language
Romans d'aventures (France), IX, b 563-4
Romanshorn, town (Thurgau), XXIII, a 352
Roman shorthand (Palæography), XVIII, b 168
—— Sword (Ill.), XXII, b 839, a 840
—— Theatre (Ill.), XXIII, a 242-3; (Music), XVII, a 87
Romantische Schule (Heine), XI, b 558, b 559, *a* 560
Romantic epics (Italy), XIII, a 516, b 517-8, b 519
Romanticism (Baudelaire), III, a 386; (Beaumont and Fletcher), b 408-9; (Beranger), a 503; (Berlioz), a 517; (Chateaubriand), V, b 379; (Denmark), VII, b 80-2; (Drama), a b 369, b 382-3; (Dumas), b 450; (Euripides), VIII, b 591; (Ewald), a b 679; (France), IX, b 593-4; (Gautier), X, *b* 105; (Germany), a 484-5; (Greece), XI, b 133-4; (History), XII, a b 25; (Italy), XIII, a 525; (Mérimée), XVI, b 41, a 43; (Mickiewicz), b 250; (Musset), XVII, b 118; (Mythology), b 164-5; (Nodier), a 545; (Oehlenschläger), b 751; (Poetry), XIX, a b 278; (Poland), b 315-6; (Rossetti), XX, a 881-3; (Russia), XXI, a 115; (Schelling), *b* 407; (Schlegel), a 427; (Schleiermacher), *b* 427, b 430; (Spain), XXII, a b 375; (Warton), XXIV, b 398-9
Romantic tales, Middle German (Germany), X, a 464
Roman treasury (Ærarium), I, a 166; (National Debt), XVII, b 249; gold stock (Money), XVI, b 754
—— type (Typography), XXIII, a b 738, a 744
ROMANUS I., Lecapenus, emperor, XX, b 749; (Constantine VII.), VI, *a* 269
ROMANUS II., emperor, XX, b 749
ROMANUS III., Argyrus, emperor, XX, b 749-50
ROMANUS IV., Diogenes, emperor, XX, a b 750; (Alp Arslan), I, b 526-7; (Eudocia), VIII, a 579; (Greece), XI, b 105
——, poet (Hymns), XII, b 614, a 615
—— the physician (Syriac Literature), XXII, a 890
Roman Weights and Measures, XXIV, b 508, a *b* 510, a 511, a 513
Romanzero (Heine), XI, b 559
Romanzowite (Mineralogy), XVI, b 428
Roma Quadrata, XX, a 830-1
Romaric, St. (Remiremont), XX, a 391
ROME (Plates VI-IX) (Ill.), XX, a 750-860
  ARCHÆOLOGY (Ill.), a 824-60
    ancient city, b 825-54
    arches, triumphal, a 839, a 840, a b 851
    architectural styles, ancient, b 826-7
    art works, ancient, a b 829
    atrium Vestræ, a 839
    Aurelian wall, b 853-4
    basilicæ in forum, a 835, b 836-7
    bridges, b 852-3
    building materials, b 825-9
    campanili, b 856-74
    Capitoline Hill, b 814-5
    Castor, temple of, a b 837
    Christian city, b 854-9
    churches, early, b 854-6
    circular churches, b 855-6
    cloacæ, regal, b 832-3
    Cœlian Hill, b 848
    columns, b 852-3
    Comitium, b 834-5
    Concord, temple of, b 839
    constructions, method of ancient, b 827-9
    Curia, b 834
    decorative stones, a b 826
    Divus Julius, temple, a 838
    dwellings, b 848-9, a 857
    era of Cosmati, b 856
    facings, brick and marble, a b 828, a 829
    Faustina, temple of, a b 839
    firemen's barracks, a 850
    Florentine period, b 857-8
    Forum Romanum (Plate VII), b 833-40
    Golden House, Nero's, a 850
    Græcostasis and Senaculum, a 835
    imperial fora, b 845-7
    Janus, temple of, a b 835
    Jupiter, Palatine temples of, b 840-1
ROME, *continued*
  ARCHÆOLOGY
    lesser temples, a 847-8
    literature, archæological, a b 854
    literature, modern city, b 859
    modern city, b 858-9
    Neptune, temple of, a 848
    opus quadratum, a b 827
    palaces, imperial, a 841-2
    Palatine Hill, b 840-4
    Pantheon, a b 849
    papal palaces, a b 857
    places of amusement ancient, b 850-1
    Porticus XII. Deorum, a 840
    prætorian camp, a 849
    prehistoric remains, b 829-31
    quay, regal, a 833
    Regia, b 838-9
    regiones of Augustus, a b 853
    roads, ancient, b 829
    Roma quadrata, a 830-1
    rostra, existing, b 835-6
    Saturn, temple of, a b 836
    sepulchral works, a b 852
    Servian wall, a 831-2
    site, b 824-5
    Stadium, Palatine, b 843
    Thermæ of Agrippa, b 849-50
    Tullianum, a b 833
    Umbilicus et milliarium, a 836
    Velabrum, b 844
    Velia and Germalus, a 844
    Vespasian, temple, of, b 839-40
    Vesta, temple of, a b 838
    Viæ, sacra et nova, a b 844
    vici, Jugarian and Tuscan, b 836, a 837
    Victory, temple of, a b 842
  Authorities, b 824
  EMPIRE, b 787-99
    Augustan system, b 787-91
    Augustus to Marcus Aurelius, b 793-4
    barbarians within the empire, b 797-9
    barbaric invasions, a b 795
    centralization in principate, b 790-1
    Constantine and his sons, a b 796-7
    Diocletian, b 795-6
    emperors, table of, b 799
    frontiers, a b 792
    imperium principis, a 788-9
    Julian to Theodosius, a 797
ROME, *continued*
  EMPIRE
    Marcus Aurelius to Aurelian, a 794-5
    provincial reforms, b 792-3
    republican institutions, decay of, a 789-90
    senate, a b 790
    severance of city and empire, a b 791
    Theodosius to Odoacer, b 797-9
  INDEX, 860
  MEDIÆVAL REPUBLIC, b 799-824
    Alberic, count of Italy, b 805-6
    Albornoz establishes papal supremacy, a b 819
    Arnold of Brescia, a 810-1
    Boniface VIII., b 815-6
    Boniface IX., b 820-1
    Brancaleone, senator, a b 814
    Byzantine period, b 800
    Charlemagne in Italy, b 803-4
    Charles of Anjou and Henry of Castile, senators, a b 815
    classes, political, a b 802
    commune, organization of, a 801-2
    constitutional changes of Innocent III., b 812-3
    consuls and judices de clero, a 803
    Crescentius, first and second, b 807, a 808
    decline of Carolingians, a 805
    democracy in twelfth century, b 809-13
    extinction of nobility, b 823-4
    Frederick Barbarossa, a 811-2
    Frederick II. and papacy, b 813-4
    Gothic element, a b 800
    Gregory I., a 801
    Gregory XI., republic under, a b 820
    Henry II. and III., emperors, a b 808
    Hildebrand, b 808-9
    independent of the empire, a b 812
    Ladislaus of Naples, papal protector, a 821-2
    Louis the Bavarian, emperor, b 816-7
    modern city, a b 824
    Orsini-Colonna government, b 815-6
    Otho I., a 806-7
    Otho III., b 807-8
    papal appeal to Franks, b 803-5
    papal supremacy established, b 822-4
    Paschal II. and nobles, a b 809
    popular organization, thirteenth century, a b 813

ROME, *continued*
  MEDIÆVAL REPUBLIC
    pornocracy, a b 805
    poverty of authorities, b 799-800
    Ravenna exarch, b 801
    renaissance, b 822
    republic destroyed, b 819-22
    revolution, tenth century, a 807
    Rienzi republic, a 817-9
    Robert of Naples, senator, a 816-7
    schism, end of the great, a b 822
    senate, mediæval, b 802-3
  MONARCHY, a 750-4
    kings, administration of the, b 752-4
    original communities, a 750-1
    political organization, a 751-2
    Servian reforms, b 753-4
    Tarquins, a 753-4
  REPUBLIC, b 754-87
    Æqui and Volsci, b 758, a 759
    agrarian agitation, a 756, b 776
    Antiochus, war with, a 771-2
    Asia Minor, protectorate, b 771, a b 773
    Cæsar, Julius, a 782-6
    Catiline's conspiracy, a 783
    Celtic wars, b 758-9, a b 762
    Ciceronian period, b 782-7
    constitutional changes, b 773-5; Syllan, a 780-1
    decemvirate, b 756
    dictatorship, Cæsar's b 784-6
    discontent of Italian allies, b 777-8
    eastern conquests, a 770-83
    Etruria, annexation of, a 759, b 761-2
    Etruscan decline, b 758
    Gracchi, period of, b 775-6
    Greece, acquisition of, a 771, b 772-3
    Italy, conquest of, b 757-65
    Italy, consolidation of, a b 763
    Jugurthine war, a 777
    Latin colonies, b 763-4, a 770
    Latin and Hernican league, a b 758, a b 759, a b 761
    Latin war, a b 760
    Licinian Sextian laws, a b 757
    Liris frontier passed, b 759-61
    Macedonian wars, a 770-1, a b 772
    magistracies opened, b 757
    Marius, b 776-7
    northern and insular acquisitions, a b 767

ROME, *continued*
  REPUBLIC
    Numidian acquisitions, b 768-9, a 777
    political organization, a 764-5
    Pompey the Great, b 781-4
    Punic war, first, b 765-7; second, b 767-9; third, b 769-70
    Pyrrhic war, b 762-3
    reforms, Marian, b 777
    restoration of republic attempted, b 786-7
    revolution period, b 773-7
    Samnite wars, a 759, a b 760-2
    senate, ascendency of, a 774-5
    social war, a b 778
    Spain and Sicily pacified, a b 769
    struggle of orders, b 754-7
    Sulla dictator, b 779-81
    Sulpician reforms, b 778-9
    tribunes, rise of, b 755-6
    triumvirate, first, b 783-4; second, a 787
    Valerio-Horatian laws, b 756-7
    western conquests, b 765-70

—— (Abattoir), I, a 13; (Agriculture), a b 261, b 294; (Alaric), *b* 392; (Academy), b 68, b 71-2; (Agrarian Laws), b 256-8; (Agrippa, M. V.), a 371; (Archæology), II, a 311, a 319; (Arnold of Brescia), b 546-7; (Asia Minor), b 622; (Brennus), IV, a 230; (Carthage), V, *a* b 141-2; (Catacombs), b 181-7; (Christianity), b 602; (Commerce), VI, a *b* 178; (Consalvi), a b 259; (Dialling), VII, b 132; (Diamond), b 140; (Etruria), VIII, a b 557; (Ferguson, A.), IX, a *b* 76; (Festivals), a b 101; (Finance), a 150, a b 152; (Fire), b 199, *a* 200; (Flag) (Ill.), b 241-2; (Flagellants), a 245; (Foundling Hospitals), a b 425, b 426; (Fountain), b 428, b 429; (Frederick I., Emperor), a 642; (Free Trade), a 662; (Froissart), a 702; (Genseric), X, a 143; (Hannibal), XI, b 396-7; (Horatii), XII, *b* 169-70; (Innocent III.), XIII, a 90; (Italy), a b 455, b 464, b 480, a 481, b 482-3, b 490, a b 492, a 497, a b 498, a 499, a b 500, a b 501; (Libraries), XIV, b 510-11, a 528-9, b 550-1; (Marble), XV, b 536; (Mars), b 576; (Maximianus, M. A.), b 650; (Michel Angelo), XVI, a b 238, a 240-3; (Milton, John), b 339; (Mithradates), b 553-4; (Nero), XVII, a 359; (Observatory), a b 734; (Parker), XVIII, a 304; (Parmigiano), a b 323; (Paul), b 432, a 433; (Peter), a b 709, note, a 710; (Pisa), XIX, b 127; (Pyrrhus), XX, a b 143; (Sabines), XXI, b 137; (Schools of Painting), b 456, b 463, a 467; (Sculpture), a b 595; (University), XXIII, b 892; (Vandals), XXIV, b 65; ancient (Statistics), XXII, b 478; (Wine), XXIV, *a* 636
Rome, Comic History of (Leech), XIV, a 406
Rome, decline of (History), XII, a b 25-6. See *Decline and Fall of Rome*; early printing at (Typography), XXIII, a 729, a 738; first bishop of (Apostolic Fathers), II, b 171; geology of (Brocchi), IV, b 322; Greek literature in (Greece), XI, b 128-9; influence in literature of (Italy), XIII, b 516; Jews in (Israel), XIII, b 439, note
——, mediæval republic of, XX, b 799-824; (Italy), XIII, b 482-3, a 485
——, obelisks at (Architecture), II, a 342; papal (Numismatics), XVII, b 675; resort of penitents to (Penance), XVIII, b 497; (Pilgrimage), XIX, a b 103, a 104
——, town of Georgia, X, a b 392, *a* 393
ROME, N. Y., city, XX, a 860
"—— beyond the Alps" (Treves), XXIII, a 588
Romé de l'Isle, Jean Baptiste Louis, mineralogist (Mineralogy), XVI, *b* 364; (Mitscherlich), a 555
Romeite (Mineralogy), XVI, b 446
Rome la Grant, epic (Romance), XX, a 653-7
Romeo and Juliet, play (Drama), VII, b 360, a 370; (Shakespeare), XXI, a 794, b 799, 805
Römer, Olaf, astronomer. See Roemer
ROMFORD, town, XX, a b 860
Romhányi (Hungary), XII, b 393
Romilly, John, baron, lawyer, XX, b 861, note; (Records), b 327
ROMILLY, Sir Samuel, jurist, XX, b 860-1; (Mirabeau), XVI, a 517, b 519, b 520
Rommel-pot, drum (Hottentots), XII, b 324
Romney, town (Cinque Ports), V, *a* 687
ROMNEY, George, painter, XX, b 861-2; (Hamilton, Sir W.), XI, a 376
—— Marsh (England), VIII, b 195; (Kent), XIV, b 38, a *b* 39, a 40; sheep (Agriculture) (Ill.), I, a 348
ROMNY, town, XX, b 862; (Poltava), XIX, a 424
Romorantin, town (Loir-et-Cher), XIV, *a* 819; edict of, 1560 (L'Hôpital), b 503
Romsdal, district (Norway), XVII, b 590, a 591, a 592, b 593, b 597
Romsey, town (Hampshire), XI, *b* 385, a 386
Romualdins, monks (Camaldulians), VI, b 638
ROMULUS, eponym, XX, b 862; (Agrarian Laws), I, a 257; (Army), II, b 492; (Calendar), IV, a 591; (Lares), XIV, b 313; (Roman Law), XX, a 689, a b 690; (Rome), *a* 750, b 752; wall of (Rome) (Ill.), a 825, a 830-1
Romulus, book of fables (Phædrus), XVIII, b 740
Romulus Augustus, emperor (Italy), XIII, b 477; (Odoacer), XVII, a b 747; (Rome), XX, a b 799
Ronald's spinner (Rope) (Ill.), XX, b 867
Ronay, Hyacinth, psychologist (Hungary), XII, a 395
Roncaglia, diet at, 1154 (Italy), XIII, b 483
Roncesvalles battle, 778 (Roland), XX, b 641, *a* b 642; (Romance), b 667, *a* 668; (Spain), XXII, a 325
Ronchamp coals (Iron), XIII, a 299
RONDA, town, XX, b 862
——, Serrania de, mountains (Spain), XXII, b 308, b 309, a 310, a 315
Rondani, entomologist (Ichneumon-Fly), XII, b 666
RONDEAU or Rondel, poem, XX, a b 863; (France), IX, a 567
Rondelet, Guillaume, naturalist (Ichthyology), XII, b 667; (Morphology), XVI, a 864
——, Jean, architect (Building), IV, a 435, *a* b 447
Rondeletia, recipe for (Perfumery), XVIII, a 537
Rondeletius, Jacobus, dramatist (Sweden), XXII, b 792
Rondinelli, Giuliano dei, conspirator (Savonarola), XXI, *a* 353
Rondo, musical (Rondeau), XX, b 863
Ronfa, game (Piquet), XIX, b 122-3
Rong, valleys (Tibet), XXIII, b 360
Rongbacha, district (Tibet), XXIII, a b 363
Rong-chu, river (Tibet), XXIII, b 361
Ronge, Johann, reformer (German Catholics), X, b 399-400
Ronkonkoma, lake (Long Island), XIV, b 876
Rönne, capital (Bornholm), IV, a 54
RONSARD, Pierre de, poet, XX, b 863-5; (Alexandrine Verse), I, a 442; (Bellay), III, b 469, *a* 470; (Belleau), b 470; (Chartier), V, b 375; (Chastelard), a 378; (Chiabrera), *b* 529; (France), IX, b 572, a 573; (Rabelais), XX, *b* 202
Rönsch, Hermann, critic (Latin Language), XIV, b 339
RONSDORF, town, XX, a 865
Roode cliffs (Holland), XII, b 62
Rood screen (Architecture), II, b 415; (Wood-Carving), XXIV, a b 680, note; St. Mark's (Venice), b 163

Rood stairs (Architecture), II, b 415
Roof nuclei (Anatomy), I, *b* 765
—— of mouth (Mammalia), XV, b 358
"Roof of the World" (Oxus), XVIII, a b 106; (Turkestan), XXIII, b 672, b 673. See Pamir
ROOFS (Building) (Plate XXIII), IV, b 400, b 401, b 404, a b 414, b 433, b 448–9; (Railway), XX, b 243–4, a 245; barrel-vaulted (Verona), XXIV, b 185; (Dome), VII, *b* 301; church- (Wood-Carving), XXIV, a b 681, a 682; Greek temple (Architecture), II, *a* 360; Norman (Architecture), b 373, b 376; St. Mark's (Venice), XXIV, a 164; vaulted Gothic (Architecture), II, b 373, b 374, a 375, *b* 376, a 377, b 378, a 379
——materials for (Building), IV, b 448–9, a 451; felt (Tar), XXIII, b 63; (Slate), XXII, *a* b 136; Tiles (Ill.), XXIII, a 414–5
——, plumber's work on (Building), IV, a b 450
ROOK, bird, XX, a b 865; (Birds), III, b 668, b 669; (Lapwing), XIV, b 308 note; (Ornithology), XVIII, b 52; cranium of (Birds), III, b 619–20
ROOKE, Sir George, sailor, XX, b 865; (Charles XII.), V, a 364; (Gibraltar), X, a 523; (Portugal), XIX, b 564
Roomen, Adriaan van, mathematician (Squaring the Circle), XXII, b 451; (Trigonometry), XXIII, b 597; (Vieta), XXIV, b 241, *a* 242
Roompot, river (Holland), XII, a 63
Roosebek, battle of, 1382 (France), IX, b 483
Roos-el-Jebal, district (Arabia), II, a 222
Roosevelt hospital, New York (Hospital), XII, a 321
"Roosts," tideways (Orkney), XVII, b 870; (Whirlpool), XXIV, a 572
"Root-and-branch" party (Milton, John), XVI, a 341
Root-cap (Botany), IV, a 82, b 83
—— crops (Agriculture), I, b 323–8, a b 466; drainage for, I, b 293, b 295
—— - cuttings (Horticulture), XII, b 244; grafting, XII, b 242–3; pruning, a 216, a 250
Roots, mathematical (Algebra), I, a 480; (Numbers), XVII, a 630, b 632, a b 633, b 637, a 638, note; coefficients and (Algebra), I, a b 480; of a complex quantity (Trigonometry), XXIII, b 604; extraction of (Arithmetic), II, b 467–8; of known relations (Algebra), I, b 485–7; of unity (Trigonometry), XXIII, a 605
——, vegetable (Botany) (Ill.), IV, b 81, a 83–4; (Grasses), XI, b 48; (Horse-Radish), XII, b 211–2; (Horticulture), b 215–6; (Muscineæ), XVII, b 71; (Orchids) (Ill.), b 841; hairs of (Horticulture), XII, a 216; (Physiology), XIX, a b 51, *a* 52, a b 53, a 59; pressure in plants (Physiology), a 53, a b 54, b 60; sensitiveness (Physiology), a b 68; structure of (Physiology), a b 53
——, verbal (Grammar), XI, b 35–6; (Greek Language), b 113; (Hebrew Language), a b 532; (Hieroglyphics), b 720–1; (Semitic Languages), XXI, a 673, a 674; Aryan forms (Grammar), XI, b 35–6; (Philology), XVIII, a 802
Root stage of language (Philology), XVIII, b 783, a 784, b 791, b 792
Root's boiler (Steam-Engine), XXII, a 520
Root-stock (Botany), IV, a b 87
ROPE (Ill.), XX, b 865–9
- definitions, varieties, b 865–6
- machine-making, a b 867
- spinning (Ill.), b 867–8;
  - in walk (Ill.), b 866–7
- twine making, b 867
- wire rope, b 868–9

—— (Fibres, Textile), IX, *b* 116; (Lifts), XIV, a b 578; drawing- (Coal), VI, b 69–70; stiffness of (Mechanics), XV, b 777
Ropemaker's eye (Seamanship), XXI, a 620
Roper river (Australia), III, b 92, b 93
——, William, author (More, Sir Thomas), XVI, b 843, a b 845
Rope-tying (Magic), XV, a 212
Ropewalk (Rope), XX, b 866–7; at Chatham (Dock Yards), VII, b 270–1
Roquefort, Pierre de, bishop (Costume), VI, a 409
—— Cheese, V, a b 395
Roquet, stroke (Croquet), VI, a 538
Roraima, mountain (Guiana), XI, b 221
Rore, Cipriano di, musician (Zarlino), XXIV, a 809
Roree, town. See Rohri
Roridula, genus (Insectivorous Plants), XIII, a 140, a 144
Rorqual (Mammalia), XV, a 376, a 398; (Whale) (Ill.), XXIV, b 553–4, b 557
Rory O'More, novel (Lever), XV, a 31
Rosa, monte (Alps), II, b 545, a 548, a b 549; (Valais), XXIV, a 37
——, engraver. See BADALOCCHIO
——, Francisco Martinez de la, poet (Spain), XXII, a 375
ROSA, Salvator, painter, XX, a 869–70; (Falcone, A.), IX, b 5; (Italy), XIII, a 522
Rosa of Lima, Santa, ecclesiastic (Peru), XVIII, b 688 note
Rosacea, eruption (Skin Diseases), XXII, a 129
Rosaceæ, order (Botany), IV, a 116, a 118, a 125, a 131
Rosáfa or Sergiopolos, town (Sergius), XXI, b 708
Rosalynde, tale (Lodge), XIV, a 775; (Pastoral), XVIII, b 351
ROSAMOND, Fair, XX, b 870
——, queen of Alboin (Lombards), XIV, a 823
Rosamond's tower (York), XXIV, b 786
Rosanaphthylamine (Coal Tar Colors), XVIII, a 905
Rosaniline dyes (Analine), II, a b 44; (Chemistry), V, a 501; (Coal Tar Colors), XVIII, b 900, b 901, b 902, a b 903
ROSARIO, town, XX, b 870–1
——, Mexican town. See EL ROSARIO
ROSARY, XX, a 871; (Afghânistân), I, a 210; (Bead), III, b 397; (Carving), V, a 148
ROSAS, Juan Manuel Ortez de, dictator, XX, a 871; (Argentine Republic), II, *b* 432, a 433; (Brazil), IV, a 210; (Buenos Ayres), a *b* 395; (Montevideo), XVI, a 813; (Uruguay), XXIV, a 21
Rosati club (Robespierre), XX, b 617
ROSCELLINUS or Rousselin, philosopher, XX, a b 871; (Abelard), I, a 38, b 39; (Scholasticism), XXI, b 435, a 436, b 438, a 439–40, *a* b 442, a 443; (Theism), XXIII, b 260
Roscher, Wilhelm, publicist (Political Economy), XIX, a b 367, *b* 369, b 371, a 375, b 376, a 391, b 404–5, *b* 415; (Socialism), XXII, b 216, b 232; (Sumptuary Laws), *a* 678, a 679
Roscianum, town. See ROSSANO
Roscius, Gallus Quintus, actor (Drama), VII, *a* b 356
Roscoe, Sir Henry Enfield, chemist (Chemistry), V, a 408, b 426, a 429, a 442, b 467; (Vanadium), XXIV, *b* 60, a 61; (Zoology), a 856
ROSCOE, William, historian, XX, b 871–2; (Agriculture), I, b 358; (Gibson, J.), X, a 52; (Leo X.), XIV, a b 452; (Panizzi), XVIII, b 215, a 216
Roscoe and Schorlemmer's table of Paraffins, XVIII, a 243
Roscoelite (Mineralogy), XVI, a 445
Roscoff, town (Morlaix), XVI, b 851
ROSCOMMON, county and town, XX, b 872–3
ROSCOMMON, Wentworth Dillon, earl of, XX, a 873
Rose, disease. See ERYSIPELAS
ROSE, plant, XX, a 873–4; (Botany) (Ill.), IV, b 75, a 80, a 81, a 86, b 102, *b* 107, *b* 109, b 118, a 120, a 122, b 126, b 128, a 135, *a* 137, b 138; (Heraldry) (Ill.), XI, b 626; (Horticulture), XII, a 217, b 218, a b 269; (Pæstum), XVIII, b 137; (Persia), b 635
——, Sir George (Friendly Societies), IX, a 686
——, Gustaf, mineralogist, *b.* 1798, *d.* 1873 (Crystallography), VI, a 598; (Diamond), VII, a b 141; (Humboldt, A.), XII, b 358; (Mitscherlich), XVI, a 555; (Pacific Ocean), XVIII, a 130
——, Heinrich, chemist, *b.* 1795, *d.* 1864 (Niobium), XVII, *a* 527; process of (Cobalt), VI, b 76
——, Sir Hugh Henry, general (India), XII, a 850
——, Hugh James, divine (Pusey), XX, a 123
——, Valentine, on life of Aristotle, II, b 449, note, b 450, b 453, b 457 note
Rose, Roman de la. See *Roman de la Rose*
Roseau or Charlotteville, town (Dominica), VII, a b 307
Rose Bridge Colliery (Geology), X, *a* 200
Rose-chafers (Coleoptera), VI, a 115, a *b* 116, b 119
Rose-color (Dyeing), VII, a 497
Rosecrans, William Starke, general (Thomas), XXIII, *b* 938; (United States), b 826, a b 837
Rosedale ore (Iron), XIII, b 293
Rose-engine-turning (Lathe) (Ill.), XIV, a b 325
Rose-garden, tales (Sa'di), XXI, a b 151
Roselite (Mineralogy), XVI, a 421
Roselle, spa (Etruria), VIII, a 559; (Grosseto), XI, b 188
ROSELLINI, Ippolito, Egyptologist, XX, a 874; (Champollion), V, *b* 336; (Hieroglyphics), XI, a 723
Rose-malloes, resin (Incense), XII, a 757
ROSEMARY, plant, XX, a b 874; (Horticulture), XII, b 302
Rosen, physician (Linnæus), XIV, b 679, a 680
Rosenberg, mathematician (Tables), XXIII, *b* 11
Rosenberg, Old Lord of (Slavs), XXII, b 160
Rosenblüt, Hans, playwright (Germany), X, a 471, a 473
Rosenborg, palace (Copenhagen), VI, a 305
Rosendale cement (New Jersey), XVII, b 406
Rosenhane, Gustaf, poet (Sweden), XXII, a 793
Rosenhof, Rösel von, microscopist (Protoplasm), XIX, *b* 850
Rosenkranz, Johann Karl, philosopher (Æsthetics), I, b 196; (Hegel), XI, *b* 554
Rosenmüller, Ernst Friedrich Karl, orientalist (Psalms), XX, b 39
Rosenstein, Nils von, critic (Sweden), XXII, a 795
——, Nils Rosen von, pathologist (Sweden), XXII, b 794
—— palace (Canstatt), V, a 25
Rosenstiehl's green (Pigment), XIX, b 96
Roses, Mambrino, author (Romance), XX, *b* 672, *a* b 673
ROSE OF JERICHO, weed, XX, a 874

Roseola, eruption (Skin Diseases), XXII, a b 130; (Vaccination), XXIV, b 30, b 31, a 32
Rose-quartz (Mineralogy), XVI, b 387, a 405
Rosères, district (Senaar), XXI, b 689
Roses, Attar of. See Attar
Rose's metal (Lead), XIV, b 378
Roses, war of the. See War of the Roses
Rosetta, town (Egypt), VII, *b* 662, b 666
ROSETTA STONE, XX, b 874; (Alphabet), I, b 532; (Champollion), V, a 336; (Encyclopaedia), VIII, a 184; (Seyffarth), XXI, a 921
Rosewater (Rose), XX, a 874
ROSEWOOD, XX, b 874; (Forests), IX, a 358
ROSH or Harosh, rabbenu, XX, b 874–5
Roshán, state (Oxus), XVIII, b 107
Rosh Hasshanah (Maimonides), XV, b 298
ROSICRUCIANS, mythical society, XX, b 875; (Illuminati), XII, a 745; (Vaughan), XXIV, b 126
Rosières, François de, genealogist (Genealogy), X, b 129
ROSIN or Colophony, gum, XX, b 875–6; (Violin), XXIV, b 260 note
Rosine (Coal Tar Colors), XVIII, a 903
Roskiewicz, major (Herzegovina), XI, *b* 692, a 693, a 694
Roslavl, town (Smolensk), XXII, a 193
Roslin or Rosslyn, town (Edinburgh, County), VII, b 569, *a* b 571; chapel at (Architecture), II, b 375
Rosmarinus, genus (Rosemary), XX, a 874
Rosmarus, genus (Walrus), XXIV, a 358
Rosminians, religious order, XX, a 876
ROSMINI-SERBATI, Antonio, philosopher, XX, a b 876; (Evolution), VIII, a 668
Rosny, Baron of. See SULLY, duc de
——, Léon de, orientalist (Japan), XIII, b 596 note, b 602; (Alphabet), I, b 529, a 530, a 531 note, b 532
Rospigliosi, Giulio. See Pope CLEMENT IX.
ROSS, county, XX, b 876–8; (Scotland), XXI, *a* b 543, a 544, a 547, a 549, a *b* 551, b 560
——, lough (Galway), X, a 51
——, town (Hereford), XI, b 652, *a* 653
——, Alexander Stuart, duke of (Scotland) XXI, b 519
——, Andrew (Microscope), XVI, b 273, b 274, a 277 note
——, Sir James Clark, XX, a 878; (Geography) X, *a* 172, a *b* 174; (Meteorology), XVI, b 170; (Polar Regions), XIX, a 332, a 333, *b* 342
——, Sir John, voyager, XX, a 878; (Geography), X, b 171, a b 172; (Parry), XVIII, a 330; (Polar Regions), XIX, a b 331, a 332; (Sounding), XXII, b 293
——, Walter, economist (Usury), XXIV, b 23
Rossa, O'Donovan, Fenian (Ireland), XIII, *b* 277
ROSSANO, town, XX, a 878
Rossbach, battle of, 1757 (Austria), III, b 111; (France), IX, b 518–9
Rossberg avalanche (Geology), X, b 241
ROSSE, William Parsons, 3d earl of, telescopist, XX, b 878–9; (Observatory), XVII, a 731; (Parsonstown), XVIII, b 333; (Telescope), XXIII, b 167
Rosselidæ, family (Sponges), XXII, a 439
ROSSELLI, Cosimo, painter, XX, a b 879
ROSSELLINO, Antonio, sculptor (Ill.), XX, b 879–80
ROSSELLINO, Bernardo, sculptor, XX, a 880
ROSSETTI, Dante Gabriel, poet, XX, a 880–3
  associates and designs, b 881–2
  birth and education, a b 880
  marriage and last days, a b 883
  painting, school of, b 880–1
  poetical position of, a 882–3
—— (Cino da Pistoa), V, b 687; (Schools of Painting) (Ill.), XXI, b 461, b 464; (Sonnet), XXII, a b 276
——, Gabriele, poet, XX, *a* 880
——, Maria, authoress (Dante), VI, b 717
——, William Michael, poet (Blake), III, b 699, b 700; (Boccaccio), a 734 note; (Shelley), XXI, a 831. See List of Contributors
Rossi, Giovanni Battista de, antiquary (Catacombs), V, b 181, a 183, b 186, a 188
——, Giovanni Bernardo, orientalist (Bible), III, a b 560
——, Pellegrino Luigi Adoardo, count (Pius IX.), XIX, b 167; (Political Economy), a 409
—— of Milan, spinet makers (Pianoforte), XIX, a 76
Rossie, Pasqua, restaurateur (Coffee), VI, a 101
Rossignol, lake (Nova Scotia), XVII, b 616
Rossini, Gioachino Antonio, composer, XX, b 883–4; (Donizetti), VII, a 315; (Meyerbeer), XVI, b 230–1; (Music), XVII, *a* 106; (Paisiello), XVIII, b 144; (Pesaro), b 697
Rossi's seismoscope (Seismometer), XXI, a 661
ROSSITER, Thomas P., painter, XX, b 911
Rosslyn, town. See Roslin
——, earl of. See WEDDERBURN
Rosso, Annibale, spinet maker (Pianoforte), XIX, a 76
—— -antico, stone (Marble), XV, b 536; (Rome), XX, a b 826
Ross's dividing engine (Graduation), XI, b 27
Rostellaria, genus (Mollusca) (Ill.), XVI, a 673, a 675
Rostellum, pouch-like process (Orchids), XVII, a 840
ROSTOCK, town, XX, a b 884; (Hanseatic League), XI, *b* 402; (Mecklenburg), XV, b 786; (Universities), XXIII, a 897, a b 905
ROSTOFF, on the Don, town, XX, b 884–5
ROSTOFF, on Lake Nero, town, XX, b 885; (Yaroslavl), XXIV, b 767, *a* 768
Rostopchin, governor of Moscow (Napoleon), XVII, a 224
Rostra, platforms (Rome) (Ill.), XX, a b 835, note, a 836, note
Rostrifera, group (Mollusca) (Ill.), XVI, a 672, b 675–6
Rostrum or beak (Ship), XXI, b 843–4, note
Rös Vand, lake (Norway), XVII, a 590
Rosweyd, Heribert, monk (Bollandists), IV, a 18
Roswitha, dramatist and chronicler. See HROSVITHA
Rosyngain, island (Banda Islands), III, b 267
Rota, club (Harrington), XI, b 440
—— Wine, XXIV, b 639
Rotalia, genus (Foraminifera) (Ill.), IX, a 327, a 328, a *b* 333, b 339, b 340
Rotalidea, order (Protozoa) (Ill.), XIX, a 870, a 871
Rotalina (Protozoa) (Ill.), XIX, a 870, a 871
Rotary Blower (Bellows), III, a 477
—— engines (Hydromechanics), XII, a b 552; (Steam-Engine), XXII, a b 542; defined (Steam-Engine), b 536
—— furnace, lining of (Iron), XIII, b 331, a b 332; puddling (Iron), a 331–3; Purnot's (Iron) (Ill.), b 358
—— pendulum (Clocks), VI, a 15
—— press (Typography) (Ill.), XXIII, a b 754
—— squeezers (Iron), XIII, a b 336
Rotating pieces (Mechanics), XV, a 775
Rotation of crops (Agriculture), I, a 303–4; (Physiology), XIX, b 51; (Russia), XXI, b 91–2
—— of the Earth, VII, a 519–20; (Geography), X, b 192–3; (Meteorology), XVI, b 192; effect in Asia of, II, b 602
—— joints in Anatomy, I, a 731
Rotations (Electricity), VIII, a 68–70; (Mechanics), XV, a b 684, note, b 690, a 762, a 764; centrifugal force in (Mechanics); a b 778; continuous (Mechanics), a 713; intersecting axes in (Mechanics), b 698–9; projectile (Gunmaking), XI, a b 261, a b 262, a b 263; of rigid figures (Mechanics), XV, b 698–700; sign of (Mechanics), b 690; of solids (Gyroscope), XI, b 314–6; (Mechanics), XV, a 740–1; from strain (Mechanics), a b 701, b 703–4
Rotative speeds (Steam-Engine), XXII, a 922
Rotatoria. See ROTIFERA
Rotatory drills (Mining), XVI, b 467, a b 468, a 469
—— polarization (Arago), II, b 266; (Wave Theory), XXIV, b 476–7
Rotelande or Rutland, Hue of, poet (Romance), XX, a 657, b 659 note, a 660
Roth, Rudolf von, philologist (Sanskrit), XXI, b 286, a b 293 notes
Rothad, bishop of Soissons (Hincmar), XI, a 747
Rothamsted experiments (Manure), XV, a b 514–5; (Wheat), XXIV, b 562, *a* 564
Rothari, king (Lombards), XIV, a 824
Rotharis Edictum (Salic Law), XXI, *a* 227
Rothe, mathematician (Tables), XXIII, a 19
ROTHE, Richard, theologian, XXI, a 5–6; (Dogmatic), VII, a 289, a 292; (Schleiermacher), XXI, b 430; (Theology), XXIII, b 288, a b 289
Rötheln, disease (Measles), XV, a b 665
Rothenthurm, battle of, 1602 (Smith), XXII, b 184
Rother, river (Derby), VII, a 93; (Kent County), XIV, b 39; (Sussex), XXII, *a* 761
ROTHERHAM, town, XXI, b 6; (York), XXIV, a 786
Rotherhithe, parish (London), XIV, b 829, b 833, a 853
—— Park (London), XIV, b 833
Rothes, village (Elgin), VIII, *b* 122
——, Leslie, earl of, Presbyterian leader (Scotland), XXI, *a* 534, b 537, a b 538; (Sharp), a 816, *a* 817
ROTHESAY, town, XXI, b 6; (Bute), IV, *b* 516, *a b* 517; (Meteorology), XVI, a 122; (Scotland), XXI, a 558
——, David, 1st duke of (James I., Scotland), XIII, a 565; (Scotland), XXI, *a* 513
Rothine, dye (Carbolic Acid), V, b 76; (Coal Tar Colors), XVIII, a 905
Rothland-säule, pillar (Roland), XX, b 642
Rothliegende group, rocks (Geology), X, a 312
Rothman, ——, physician (Linnæus), XIV, a b 678
Rothmann, Bernhard, preacher (Anabaptists), I, a 690
Rothoffite (Mineralogy), XVI, a 429
Rothrock, J. T., botanist (Surveys), XXII, a 937
ROTHSCHILD, Anselm Mayer banker, XXI, a 7
——, A. de, banker (Post-Office), XIX, b 596 note, a 599, a b 604 notes, b 605

ROTHSCHILD, Jacob, banker, XXI, b 7
ROTHSCHILD, Lionel, banker XXI, b 7
——, Mayer Anselm, banker, XXI, a 7
——, Mayer Karl, banker, XXI, a 7 note
ROTHSCHILD, Nathan, Mayer, banker, XXI, a b 7
ROTHSCHILD, Solomon, banker, XXI, a 7
Rothschild-cup (Glass), X, b 679
ROTHWELL, town, XXI, b 7
——, Richard P. (Mining), XVI, a 492
ROTIFERA or Rotatoria, animalcules (Ill.), XXI, b 7–12
  aberrant forms (Ill.), a b 12
  classification, b 11–2
  digestive system, b 10–11
  discoverers, early, a 8
  general anatomy, a b 8
  habits and habitat, b 11
  literature, b 12
  locomotor organs (Ill.), b 8–10
  muscular system, a 10
  nephridia, a 11
  nerves and senses, a 11
  reproduction and development, b 11
  trochal disk (Ill.), a b 10
—— (Animal Kingdom), II, *a* 47, a 48, a 49; (Arthropoda), a b 567; (Leeuwenhoek), XIV, b 412; (Parasitism), XVIII, b 263; (Sex), XXI, b 756; (Zoology), XXIV, b 852
Rotomagus, city (Rouen), XXI, b 16
ROTROU, Jean de, poet, XXI, b 12–3; (Drama), VII, *b* 366, note; (France), IX, b 578, *a* 579
—— of Perche, count (Trappists), XXIII, a 556
Rottboellieæ, family, (Grasses), XI, a 52
Rotten Row, drive (London), XIV, a 833
Rottenstone (Geology), X, a 207
ROTTERDAM, city (Plans), XXI, a 13–5; (Holland), XII, a 63, a 66, *a* 67, b 69, *a* 70, *a* 71
Rotting of wood (Dry Rot), VII, b 425–6
Röttisite (Mineralogy), XVI, b 443, a 444
Rottlerin, chemical (Kámalá) XIII, b 840
Rottolo in Weights and Measures, XXIV, *a b* 518
Rottum, island (Holland), XII, b 62, b 63
Rotung pass (Elgin and Kincardine), VIII, b 124
ROUBAIX, town, XXI, a 15; (Nord), XVII, b 548
ROUBILIAC, Louis François, sculptor, XXI, a b 15; (Handel), XI, a 390
Rouble, Coin (Money), XVI, b 758
Roubles, value of (Russia), XXI, b 78
ROUCHER, Jean Antoine, poet, XXI, b 15; (Chénier), V, a 505
Roudaire, Élie, engineer (Sahara), XXI, b 159, a 160
Rouelle, Hilaire Marin, chemist (Urea), XXIV, a 15
ROUEN, city (Plan), XXI, b 15–8
  architectural age of, a 17–8
  history, b 16–8
  industries, a b 16
  public institutions, b 16, a 18
  situation and port, b 15–6
—— (Normandy), XVII, a *b* 552, *a b* 554, a b 555, *b* 556, b 557; (Seine), XXI, a 655; (Pottery and Porcelain) (Ill.), XIX, b 649
Roueneries, fabrics (Rouen), XXI, a b 16
Rouergue, district (Aveyron), III, a 132
ROUGE, pigment, XXI, a 18
Rougé, Olivier Charles Camielle, de, archæologist (Egypt), b 607, a 608 note, *a* b 619, note, a *b* 620, notes, a 621, note, a b 623, a 624, b 625, a b 635, note, a 636, note, b 637, a 642; (Hieroglyphics), XI, a 709–20, a 721, *a* 722, *a* 723; (Hittites), XII, a *b* 29, a 30
ROUGET DE LISLE, Claude Joseph, author, XXI, a b 18; (David), VI, a 742; (Lons-Le-Saulnier), XIV, b 879
Rough-cast work (Architecture), II, a 416; (Building), IV, b 454
Rougher, tool (Linen), XIV, b 671
Rough Hound (Dog-Fish), VII, a b 288
Roughing rolls (Iron), XIII, b 337
Rough plane sliding (Mechanics), XV, b 711–2
Roughs, grain (Agriculture), I, *b* 289
Rouher, Eugène, politician (Persigny), XVIII, b 673
Rouillé, Antoine Louis, Comte de Jouy, statesman (Toronto), XXIII, a 477
Roule, Cornelis, explorer (Polar Regions), XIX, b 330
ROULERS or Rousselaere, town, XXI, b 18
Roulette, curve (Infinitesimal Calculus), XIII, b 8, b 56, b 57
ROUM or Rum, country, XXI, b 18; (Seljuks), XXI, b 666, a 667
ROUMANIA, kingdom (Plate I), XXI, b 18–27
  army, b 20
  chorography, b 18–9
  climate, b 19
  educational features, b 20
  forests, a 20
  geology, a 19
  HISTORY, b 20–7
    Brancovan period, b 22–3
    Cantemir, period of, a 25
    Charles, administration of prince, b 26–7
    Fanariote regime, a b 23, b 24–5
    mediæval Moldavia, b 23–4; Walachia, a b 21
ROUMANIA, *continued*
  HISTORY
    Moldavian recent separate history, b 23–5
    races of, b 20–1
    Russian protectorate, b 25–6
    sixteenth century to Michael the Brave b 20–2; Moldavia in, a b 24
    Transylvania, conquest of, a 22
    treaty, Kutshuk Kainardji, b 23, b 25
    Turkish domination, a 22–3
    Union of 1856, a b 26
    Walachian recent separate history, 21–3
  industries, b 18–20
  literature on, a 20, a 27
  minerals, a 20
  population, b 20
  rivers, a b 19
—— (Forests), IX, a 354; (Galatz), X, b 20; (Jews), XIII, a 697; (Newspapers), XVII, a 443; (Pellagra), XVIII, a 487, a 488; (Periodicals), a 555; (Press Laws), XIX, a 733; (Russia), XXI, *b* 110; (Societies, Learned), XXII, b 236, b 239; rise of modern (Turkey), XXIII, b 692, a b 693
Roumanian church (Greek Church), XI, b 140, a 142; (Roman Catholic Church), XX, a b 647
——, Rouman or Walachian language (Alphabet), I, *b* 539, b 540; (Dictionary), VII, b 161; (Europe), VIII, b 614; (Romance Languages), XX, a b 686; (Vlachs), XXIV, a 289, a 290
Roumanians or Roumans, people (Greece), XI, b 75, a 106; (Hungary), XII, *b* 379, a 389; (Roumania), XXI, b 20, *a* 21; (Russia), b 87, b 88; (Slavs), XXII, b 154; (Vlachs), XXIV, *a b* 288; in Transylvania (Vlachs), a 290
ROUMELIA, country, XXI, a b 27; (Monastir), XVI, b 745; Eastern (Turkey), XXIII, b 693, a 694
Round, song (Music), XVII, a 90
Roundabout Raid, 1565 (Scotland), XXI, a 526
"Roundabout" steam system (Agriculture), I, b 279, a 280–1
Roundel, the (Heraldry) (Ill.), XI, b 621–2
Roundheads, party (Costume), VI, a 420; (Whig and Tory), XXIV, a 570
Round-houses (Railway), XX, a b 246
Round seizing (Seamanship) (Ill.), XXI, a b 620
Roundstone, bay (Galway), X, a 51
Round Table, legends (Arthur), II, a 568–9, b 570–1; (Carleon), IV, a 562; (Chrestien de Troyes), V, a 597; (English Literature), VIII, a 364; (France), IX, a *b* 563; (Grail, the Holy), XI, a 32; (Knighthood), XIV, b 118, a b 123; (Map, W.), XV, b 530, a 531; (Romance), XX, a 655, b 657–65; (Spain), XXII, *a* 369
—— of Persian poets (Persia), XVIII, a 669, a 672
ROUND TOWERS, XXI, b 27–8; (Antrim), II, a b 136; (Architecture), a 376, a 418; (Cork), VI, a b 359; (Dublin, County), VII, b 428; (Fermanagh), IX, a 80; (Kilkenny), XIV, a b 77; (Louth), XV, b 27; (Mayo), b 657; (Norfolk), XVII, b 550; *Essay on* (Petrie), XVIII, b 725–6
ROUS or Rouse, Francis, translator, XXI, a 28; (Hymns), XII, *a* 625
Rousay, island (Orkney), XVII, b 870
ROUSSEAU, Jacques, painter XXI, a b 28
ROUSSEAU, Jean Baptiste, poet, XXI, b 28–9; (Voltaire), XXIV, b 306, a b 307
ROUSSEAU, Jean Jacques, author, XXI, a 29–33
  character and influence of, a b 32
  Confessions-period and last years, b 31–2
  De Warens period, b 29–30
  English residence, b 31–2
  hermitage life, a 31
  literary merits of, b 32–3
  Montlouis period, a b 31
  politics of, b 32
  religion of, b 32
  Swiss exile, b 31
  works of and on, a 33
  youth and apprenticeship, a b 29
—— (Abauzit), I, a 15; (Diderot), VII, a 170; (Duel), b 443; (Education), a b 586; (Encyclopædia), VIII, a 180; (France), IX, a 522, b 586, b 587–8, b 589; (Geneva), X, a 132, *a* 133; (Gluck), b 619; (Grimm), XI, a b 176; (Gymnastics), a b 311; (Hume), XII, a b 364; (Jesus Christ), XIII, a 680; (Music), XVII, b 99; (Rulhière), XXI, b 64; (Saint-Pierre), b 205, a 206; (Switzerland), XXII, a 837; (Voltaire), XXIV, *b* 310; bust of (Houdon), XII, a 328
ROUSSEAU, Lovell Harrison, soldier, XXI, a 897
ROUSSEAU, Théodore, painter, XXI, a b 33; (Millet, J. F.), XVI, b 334, a 335
Rousselaere, town. See ROULERS
Rousselin. See ROSCELLINUS
Rousse's *Doctrine of Chances* (Tables), XXIII, a 18
Rousset, Camille Félix Michel, historian (Louvois), XV, b 28, a 29
ROUSSILLON, province, XXI, b 33–4; (Spain), XXII, b 340, a 341, b 346, a b 347, b 360; (Wine), XXIV, a 63
Roussoudan, queen (Georgia), X, b 388

Rout, definition (Riot), XX, b 579
Route Maps, XV, b 524
Routledge, Thomas, manufacturer (Paper), XVIII, a 229, a b 231
Rouvray, Louis de. See SAINT SIMON
—— forest (Seine Inférieure), XXI, a 657
Roux and Sarrall experiments (Explosives), VIII, a 708, *a* 709, b 710, a 711
Rovere, Francesco della. See SIXTUS IV., pope
——, Francesco Maria I., della (Urbino), XXIV, a 13; (Medici), XV, b 797
——, Francesco Maria II., della (Urbino), XXIV, a 13
——, Giovanni della (Urbino), XXIV, a 14
——, Giuliano della. See Julius II., pope
ROVEREDO, city, XXI, a 34
ROVIGNO, city, XX, a 34
ROVIGO, city, XXI, a b 34
——, Savary, Duc de, governor (Algeria), I, a 500
Roving frame (Cotton) (Ill.), VI, a b 438–9
Rovings (Linen Manufacture), XIV, b 672
Rovuma, river (Africa), I, a b 222, b 228; (Livingstone), XIV, b 727, a 728
Row, John, Hebraist (Hebrew Language and Literature), XI, a 537, note
Rowan car (Tramway), XXIII, a 540
Rowan tree (Ash), II, b 594
ROWE, Nicholas, dramatist, XXI, b 34–5; (Drama), VII, a b 376; (Shakespeare), XXI, a 788, b 789, b 806
——, Thomas, preacher (Watts), XXIV, a 437
ROWING, XXI, a 35–8
  American racing, a b 38
  boats, b 36–7, a 38
  directions for, a 37–8
  history of, a 35–6
  racing, a b 36
  school and university racing, a b 36

—— (Shipbuilding), XXI, a b 863
Rowlands, Daniel, clergyman (Methodism), XVI, a b 201
Rowland's experiments (Magnetism) (Ill.), XV, a 257–9; his concave grating (Wave Theory), XXIV, a b 463
ROWLANDSON, Thomas, caricaturist, XXI, b 38; (Caricature), V, b 92; (Combe), VI, b 161
Rowley, G. D., naturalist (Ornithology), XVIII, a 17
ROWLEY, William, dramatist, XXI, b 38–9; (Dekker), VII, a 35
"Rowley manuscripts" (Chatterton), V, b 386–9
ROWLEY REGIS, village, XXI, a 39
Rowley's mill (Wool), XXIV, b 688
Rowll, Sir John, poet (Scotland), XXI, b 566, note
Row of points defined (Geometry), X, *b* 347
Rows of Chester, V, b 524; of Yarmouth, XXIV, a 765
"Roxana" (Horse), XII, *a* 187
ROXANA or Roxane, empress, XXI, a 39; (Alexander the Great), I, a 428; (Macedonian Empire), XV, b 142, a 143; (Persia), XVIII, a 595
Roxana, play (Alabaster, William), I, a 390
——, tale (Defoe), VII, *a* 27, b 28
Roxas y Zorilla, Francisco de, dramatist (Drama), VII, b 364
Roxborough stone (Devonshire), VII, b 121
ROXBURGH, county, XXI, 39–40; (Scotland), b 543
——, town and castle, XXI, a 40; capture of, 1460 (Scotland), XXI, a b 516
——, William, botanist (India), XII, a 797; (Jute), XIII, a 808
Roxburghe Club (Dibdin), VII, b 149
ROXBURY, Massachusetts, town, XXI, b 40; (Boston, United States), IV, b 65
Roxo, cape (Senegambia), XXI, b 693, a 694
ROY, Rámmohun, Rájá, reformer, XXI, b 40–1; (Bráhma Samáj), IV, b 181
ROY, William, geodesist, XXI, a b 41; (Earth), VII, a 517, a 518, a 524
Royabamba, town (Riobamba), XX, b 576
Royal Academy of Arts, London, I, b 75; (Barry), III, b 345; (Chantrey), V, b 343; (Dance), VI, a 706; (Gibson), X, a 525; (Leonardo), XIV, b 459, b 461; (Libraries), b 516, a 545; (London), b 846; (Michel Angelo), XVI, b 239; (Turner, J. M. W.), XXIII, a 705, a b 706, a 708, *a* b 709; (West), XXIV, *b* 533
—— Academy of Music, London (Conservatory), VI, b 260; (Libraries), XIV, b 516, a 545
—— African Company (Barbados), III, b 310; (Slavery), XXII, b 906
—— Agricultural Society, XXII, a 239, b 272, a 273, a 280, a b 283, a 290, a b 291–2, b 297
—— Asiatic Society (Libraries), XIV, b 517, a 545
Royal Book (Medicine), XV, a 815
—— Bounty, ecclesiastical (Scotland), XXI, b 562
—— College of Physicians. See Physicians, Royal College of
—— College of Veterinary Surgeons, XXIV, b 215
—— Colonial Institute (Societies), XXII, a 234
—— colonies (United States), XXIII, *b* 778, a 784
—— Dublin Society (Dublin), VII, b 431; (Libraries), XIV, b 522–3, b 543; (Societies), XXII, b 233
—— estates (Finance), IX, a 153
—— Exchange of London, XIV, a 840–1, *a* 850, a b 851, a 858, a 862; (Clock), VI, b 27, b 28, a 29, b 31; (Gresham), XI, a 167
—— family (Precedence), XIX, a b 682, note, a 684, note
—— Geographical Society, XXII, b 240; (Africa), I, b 220, b 221, a 223; (Geography), X, b 172–3; (Libraries), XIV, b 517; (Long), a 867; (Rennell), XX, a 412, note
ROYAL HOUSEHOLD, XXI, b 41–3
  Chamberlain's department, b 42–3
  history of English, b 41–2
  Master of the horse department, b 43
  mediæval monarchies, b 41
  privy purse and secretary, b 43
  Steward's department, b 42

—— Institute of British Architects (Libraries), XIV, b 516, a 545; (Societies), XXII, a 239
—— Institution of Great Britain (Davy), VI, *a b* 744, b 745; (Libraries), XIV, a 517; (London), a b 845; (Societies), XXII, b 233–4; (Thompson), XXIII, *a* 331
—— marriage act (George IV.), X, a 384
—— medals (Royal Society), XXI, a 45
—— mint, London (Ill.), XVI, a 508, a 512
Royal Mischief, The (Manly), XV, a 499
—— Naval College. See Naval College
—— Physical Society of Edinburgh (Societies), XXII, b 233
—— Prerogative, XIX, a 692–4; colonial (United States), XXIII, a b 784–5, a 786
—— rigging (Seamanship), XXI, a b 625
—— Scottish Academy (Edinburgh), VII, a b 576; (Harvey, Sir G.), XI, a b 448
—— Scottish Society of Arts (Societies), XXII, a 234
—— Seals, XXI, a b 614
ROYAL SOCIETY, London, XXI, b 43–5; (Academy), I, a 71; (Banks), III, b 298; (Boyle, Robert), IV, b 166, *a* b 167; (Calculating Machines), a 581; (Electricity), VIII, b 6–7; (Fell), IX, a 59; (Franklin, B.), a b 627; (Libraries), XIV, b 516, a 545; (Locke), b 758, a 759; (London), a 845; (Murray, Sir R.), XVII, b 69; (Newton), a 451, a b 453, a b 454, b 455, b 458; (Oxford), XVIII, b 101; (Papin), b 232, a 233; (Pepys), b 531; (Sloane), XXII, *a* b 170; (Wallis), XXIV, a 352; (Zoology), *b* 839–40, a 854, b 858
—— Society of Edinburgh (Societies), XXII, b 233
—— sound (Kerguelen's Land), XIV, b 50
—— succession (Primogeniture), XIX, b 755–6. See Succession
Royalty (Feudalism), IX, a 106–7; (France), b 467, a 468; (Madagascar), XV, *b* 172; abolition of (France), IX, a 532; cost of (France), a 450. See Monarchy
Royal University of Ireland, XXIII, b 911
—— Warrant, XXIV, b 391–2
—— Yacht Squadron, XXIV, b 758, *a* b 759, a 761
ROYAN, town, XXI, b 45
Royat, spa (Puy de Dôme), XX, a 126
Roy Bareilly, district and town, See Rai Bareli
Roye, William, friar (English Bible), VIII, a b 344
Royen, Adrien van, botanist (Linnæus), XIV, *a* 680
ROYER-COLLARD, Pierre Paul, statesman, XXI, b 45–6; (Cousin), VI, *a* b 463
ROYLE, John Forbes, botanist, XXI, a b 46
Royston, town (Cambridge), IV, b 644
Royt, Conrad, of Lucerne, hero (Winkelried), XXIV, b 645
Rozier, François, curate (Veterinary Science), XXIV, b 214
——, François Pilâtre de (Aëronautics), I, a *b* 170, b 172
Rsheff, town. See RZHEFF
Ruadan, St. (Ireland), XIII, a 256
Ruang Phra, king (Siam), XXI, a 894
Ruapehu mountain (New Zealand), XVII, a 479
Ruas or Rugulas, chief (Huns), XII, a 397
Ruaughty river (Kerry), XIV, a 53
Rub'a in Weights and Measures, XXIV, a 518
Rubaga, town (Uganda), XXIII, a 765
Rubá'ís or quatrains ('Omar Khayyám), XVII, b 793; (Persia), XVIII, b 668, a 671
Rubber in Whist, XXIV, b 576
——. See INDIA-RUBBER
Rubble, Portland (Harbors and Docks), XI, b 414, a b 415
—— -work (Architecture), II, a 416; (Building) (Plate XXI), IV, *b* 420, a b 421
Rubeho, mountains (Africa), I, b 224
Rubellite (Mineralogy), XVI, b 426
Rubens, John, councillor, XXI, b 46–7
RUBENS, Peter Paul, painter, XXI, b 46–51
  Antwerp art periods, b 47–8, b 49, b 50–1
  colossal paintings for public buildings, b 48–9
  critical estimate of, a b 51
  English period, a b 50
  etchings, b 51
  Italian life, a b 47
  literature, b 51

RUBENS, *continued*
  - parentage and birth, b 46-7
  - Paris, work in, a 49
  - *Raising of* and *Descent from the Cross*, a b 48
  - Spanish diplomatic period, b 49-51
  - student life, a 47
  - will and works, b 51

—— (Alost), I, a 526; (Antwerp), II, *a* b 128; (Breughel, Jan.), IV, b 234; (Diepenbeck), VII, a 172; (Engraving), VIII, b 393; (Francken), IX, *a* 619; (Honthorst), XII, a b 147; (Janssens, A.), XIII, b 577; (Jordaens), *b* 756; (Painting), XVIII, a 142, b 143; (Schools of Painting) (Ill.), XXI, *b* 458, b 463, *b* 466; (Snyders), XXII, b 213; (Teniers), XXIII, b 189; (Van Dyck), XXIV, *b* 66, *a b* 67, *b* 68, a b 69, b 70, *a* 71; (Velazquez), a 145
Rubeola, disease (Measles), XV, b 663
Rübezahl, opera (Weber), XXIV, b 494, *b* 495
Rubia, plants (Madder), XV, b 177
Rubicella (Mineralogy), XVI, a 402
Rubicon river (Italy), XIII, b 446, b 456
—— Piquet, game, XIX, a 123
Rubidium, metal (Chemistry), V, b 454-5; (Potassium), XIX, b 609-10
Rubrian law (Roman Law), XX, a 716
Rubrics (Canon Law), V, a 19; (Missal), XVI, a 532, note, b 533; derivation of (Illumination), XII, a 746
RUBRUQUIS or William of Rubruk, traveller, XXI, b 51-3; (China), V, b 545, a 546; (Geography), X, b 159-60; (Mongols), XVI, b 768; (Prester John), XIX, a 736; (Turkestan), XXIII, b 680
Rübsen seed (Rape Oil), XX, b 285, a 286
RUBY, stone, XXI, b 53-4; (Burmah), IV, a 493; (Mineralogy), XVI, a b 390, a 401, a 402; (Mining), b 471; Brazilian (Topaz), XXIII, a 475; Elie (Fife), IX, a 132; mines (Badakhshan), III, a 193
—— Hill, Nevada (Mining), XVI, b 460, a 461
—— type (Typography), XXIII, b 743
Rucanas, people (Peru), XVIII, b 689
Rucelinus or Rousselin. See ROSCELLINUS
Ruchat, Abraham, theologian (Switzerland), XXII, *a* 837
Ruckers, Hans, musical instrument maker (Pianoforte), XIX, *a* b 78
RUCKERT, Friedrich, poet, XXI, b 54-5; (Germany), X, b 485; (Hamasah), XI, b 360; (Ottensen), XVIII, b 72
Rucu Pichincha, mountain (Ecuador), VII, a 559, a 560, a b 561, a 563
RUDAGI, poet, XXI, a b 55; (Persia), XVIII, b 668, a 673
Rudbeck, Olaus, naturalist (Anatomy), I, b 711, a 715; (Sweden), XXII, b 793
Rudbeckia, plants (Horticulture), XII, b 259
Rudborne, Thomas, historian (Swithun), XXII, *b* 814
RUDD or Red-Eye, fish, XXI, b 55
Rudders, ships' (Seamanship), XXI, b 631-2; temporary (Seamanship) (Ill.), b 631-2
RUDDIMAN, Thomas, scholar, XXI, b 55-6; (Pitcairne), XIX, *b* 142
——, editors (Newspapers), XVII, b 433
RUDE, François, sculptor, XXI, a b 56; (Sculpture), b 590
RUDE STONE MONUMENTS, XXI, b 56-9
  - alignments, a b 57
  - authorities on, a 59
  - cromlechs, b 57
  - definitions, b 56
  - dolmens, b 57-8
  - ethnological and chronological place of, b 58
  - menhirs, b 56-7

—— (Architecture) (Ill.), II, b 335-6, a b 395; (Merida), XVI, b 41; (Polynesia), XIX, a b 442; (Porto Rico), b 547; (Scotland), XXI, a 497. See CROMLECH, Dolmen, Monoliths
Rudge cup (Inscriptions), XIII, b 136
Rüdiger, philologist (Gipsies), X, b 547
Rudiger of Bechlaren, margrave (Nibelungenlied), XVII, b 488, b 489
Rudimentary limbs (Skeleton), XXII, b 124; organs (Breeds), IV, a 223; (Geoffroy-Saint-Hilaire), X, b 156; parts of man (Anthropology), II, a 98
Rudimentary Treatise (Clocks), VI, a 15, b 18, a 19, b 20, a 28, a 30
Rudnik, mountains (Servia), XXI, b 718, *a* 719
Rudok, city (Tibet), XXIII, *a* 361
Rudolfsworth, town (Carniola), V, a 107
RUDOLPH I., emperor, XXI, a 59; (Austria), III, b 108; (Germany), X, b 442; (Hapsburg), XI, b 405; (Italy), XIII, a 486; (Nicholas II.), XVII, b 497; (Rome), XX, b 815; (Rosh), a 875 note; (Switzerland), XXII, *a* 821; (Unterwalden), XXIII, a 915; (Zug), XXIV, b 865
RUDOLPH II., emperor, XXI, a b 59; (Austria), III, a 109; (Brahe), IV, a 181; (Germany), X, a 448; (Hungary), XII, *a* b 384; (Kepler), XIV, *a* b 48; (Matthias), XV, a 641
——, kings of Burgundy, IV, a 479
—— the Old, count of (Hapsburg), XI, a b 405
—— of Ivry, noble (Normandy), XVII, b 555
—— I. and II., electors Palatine, XVIII, a 171
—— II., elector of (Saxony), XXI, a 368
—— of Swabia, king (Germany), X, *b* 438; (Henry IV., Emperor), XI, b 595; (Merseburg), XVI, b 45; (Metal-Work), a 83
Rudolphi, Karl Asmund, naturalist (Trematoda), XXIII, a 569, b 573, a 575
Rudolphine tables (Horrocks), XII, b 175; (Kepler), XIV, a 48, b 49
Rudolphi's Whale, XXIV, b 553, b 557
Rudolphus, monk (Tacitus), XXIII, a 25
RUDOLSTADT, town, XXI, b 59-60; (Schwarzburg-Rudolstadt), b 482
Rudorff, jurist (Roman Law), XX, b 723, note
Rudra, deity (Brahmanism), IV, a b 187; (India), XII, a 820
—— Dáma, king, India (Inscriptions), XIII, b 126
Rudrata, rhetorician (Sanskrit), XXI, b 308
Rudston, village (York), XXIV, a 786
Rudyerd's Eddystone Tower (Lighthouse) (Plate VII), XIV, b 620
Rue, herb (Horticulture), XII, b 302
Rueda, Lope de, dramatist (Drama), VII, b 363; (Spain), XXII, b 370
RUFF, bird (Ill.), XXI, a 60-1
—— and honors, game (Whist), XXIV, b 573
Ruffe, fish (Pope), XIX, b 496
Ruffo, Dionigi Fabrizio cardinal (Fra Diavolo), IX, b 444
Ruffs (Costume), VI, a *b* 419, a 420
Ruffus of Ephesus (Anatomy), I, a 704
Rufia or Rouphi, river (Alpheus), I, a 540
Rufigallic acid (Gallic Acid), X, a 38
Rufiji river (Africa), I, b 228; (Zanzibar), XXIV, b 806, *a* 807
Rufinus of Elusa, Gothic courtier (Chrysostom), V, a 661; (Claudianus), *b* 712; (Rome), XX, *a* b 798
RUFINUS, Tyrannius or Toranius, theologian, XXI, a b 61; (Canon), V, a 3, b 7, b 12, a 13; (Church History), a 668; (Jerome), XIII, a 641, a 642; (Origen), XVII, a b 865, a 867; (Socrates), XXII, *b* 251
——, Latin poet (Anthology), II, a 93
Rufisque, town (Senegal), XXI, *b* 692, *a* 693
Rufu or Pangani river (Kilimanjâro), XIV, a 76
Rufus of Ephesus, physician (Plague), XIX, a 174; (Surgery), XXII, *a* 709
——, Fænius, conspirator (Nero), XVII, *b* 359
——, Marcus Cælius, orator (Catullus), V, b 215, *a* b 216, a 218
——, Publius Rutilius, consul (Rome), XX, b 777
——, Verginius, general (Nero), XVII, a b 360
Rug islands (Caroline Islands), V, a 111
RUGBY, town, XXI, b 61-2; (Warwick), XXIV, a *b* 400
——, school (Shairp), XXI, b 772; (Arnold), II, a b 547; (Clough), VI, a *b* 37; (Cotton, G. E. L.), b 451-2; (Football), IX, *b* 321
RUGE, Arnold, philosopher, XXI, a b 62; (Æsthetics), I, b 196; (Socialism), XXII, a 222
RUGEN, island, XXI, b 62-3
Ruggieri, archbishop (Pisa), XIX, b 129
Ruggiero, Michelé, engineer (Herculaneum), XI, a 647, b 648-9
Rugii, tribe (Odoacer), XVII, a b 747
Rugosa, order (Actinozoa), I, a b 121; (Corals), VI, b 336, b 337-41, b 343
Rugs, weaving (India), XII, a 801
Rugulas, chief. See Ruas
Ruhla, village (Saxe-Coburg-Gotha), XXI, *a* 363
Rühlmann, Richard, physicist (Electricity), VIII, a 57, a b 58; his formula (Barometer), III, b 333
Ruhmeshalle, Munich (Schwanthaler), XXI, a 482
Ruhmkorff's coil (Electricity), VIII, b 96-7
RUHNKEN, David, scholar, XXI, a 63-4; (Porson), XIX, a 538; (Wyttenbach), XXIV, *a b* 750, *a* b 751; *Life of*, XXIV, a b 751
Ruhr, river (Westphalia), XXIV, *a* 545
Rührblei, metal (Lead), XIV, b 375
Ruhr coal mines (Germany), X, *a* b 407
RUHRORT, town, XXI, a 64
Ruibinsk, town. See RYBINSK
Ruidera, lakes (Spain), XXII, b 309
Ruined Abbeys and Castles of Great Britain, XII, a 339
Ruines, Les, treatise on history (Volney), XXIV, b 302
Ruini, Carlo, veterinarist (Harvey), XI, a 450; (Vascular System), XXIV, a 104; (Veterinary Science), b 214
Ruins of Rome (Dyer), VII, a b 502
Ruisdaal, painter. See RUYSDAEL
Ruivo, mountain (Madeira), XV, a 178
Ruiz, Herman, architect (Cordova,) VI, a 346
——, Juan, of Hita, poet (Romance), XX, a 657; (Spain), XXII, b 367
—— de Alarçon. See ALARÇON Y MENDOZA
Rukh, bird. See Roc
——, Sháh (Ibn Batuta), XII, b 643; (Persia), XVIII, b 654, b 657
Rukshu, valley (Ladác), XIV, a 198
Rule, river (Roxburgh), XXI, b 39
——, setting (Typography), XXIII, b 745

Rule Britannia, song (Arne), II, b 544; (Thomson), XXIII, b 332
Ruled surface, XXII, a *b* 704; equation of (Geometry), X, a b 375
—— of faith (Origen), XVII, a b 866
—— of life (Templars), XXIII, a b 179
—— of Three (Arithmetic), II, b 469
Rules of procedure (Law), XIV, a b 359
RULHIÈRE, Claude Carloman de, historian, XXI, a b 64; (France), IX, b 587
Ruling, paper (Stationery), XXII, a 478
——, gratings (Wave Theory), XXIV, a b 462
Rullstengrus, gravel (Sweden), XXII, b 778
Rulos, Richard de, lord of Bruun (Lincoln), XIV, a 660
RUM, liquor, XXI, b 64; (Distillation), VII, *a* 230
——, empire. See ROUM
RUM, island (Scotland), XXI, a 543, b 544, a 545, a 550
Rumantzeff, marshal (Homel), XII, b 111
Rumbold, Richard, conspirator (Hertford), XI, a 690
Rumbow Hills (Malacca), XV, b 315
Rumex, plant (Botany), IV, b 99, a 100, b 118, b 136; (Dock), VII, *a* 269; (Horticulture), XII, *b* 300
Rumford, New Hampshire, town (Concord), VI, a 214
Rumford, count. See THOMPSON, Benjamin
—— medal (Royal Society), XXI, *a* 45
RUMI, Mauláná Jelál-uddín, poet, XXI, a b 65; (Jelál-ed-Din), XIII, b 630; (Persia), XVIII, a b 671
Rumilly, Eugenio di, monk (Capuchins), V, a 72
Rumiñagui, mountain (Ecuador), VII, a 559
Ruminantia or Ruminants, division (America), I, a 599; (Mammalia), XV, a 367, a 371, b 372, a 427
Ruminating fish (Parrot-Fishes), XVIII, b 329
RUMKER, Carl Ludwig Christian, astronomer, XXI, b 65
Rummell, river (Algeria), I, b 496
Rumney, river (Monmouth), XVI, b 780
Rumohr, Karl Friedrich Ludwig Felix, baron, critic (Schools of Painting), XXI, b 452
Rumph, George Eberhard, naturalist (Cuttle-Fish), VI, b 648
Rumpless fowl (Poultry), XIX, a 666
Rump parliament (Cromwell), VI, a 532; (England), VIII, a 312; (Milton), XVI, a 344, a 345, b 346; (Monk), a b 779; (Prynne), XX, a 31-2; (Whitelocke), XXIV, a 584
RUMSEY, James, inventor, XXI, a 897; (Fitch, J.), IX, a 236
Run, scale divisions of level (Surveying), XXII, a 755
Rúnameistari, grammarian (Scandinavian Languages), XXI, a 384
RUNCIMAN, Alexander, painter, XXI, b 65-6
RUNCIMAN, John, painter, XXI, a 66
RUNCORN, town, XXI, a 66
Rundale, land custom (Brehon Law), IV, b 225
Rundane mountain (Norway). XVII, a 589
RUNEBERG, Johan Ludwig, poet, XXI, a b 66; (Sweden), XXII, b 796
Rune stones (Iceland), XII, b 657, *b* 663
Rungpore. See RANGPUR
Runic Alphabet, I, b 534, a 538; (English Language), VIII, b 351; (Goths), X, b 757
—— Inscriptions (America), I, b 619-20; (Goths), X, a 757, note; (Northumberland), XVII, b 583; (Scandinavian Languages), XXI, b 382, *a* b 383, b 385, note, a *b* 386-7, a 388, a b 389
—— type (Typography). XXIII, b 740
Runigunj. See Raniganj
Runius, Johan, poet (Sweden), XXII, b 793
Runjit. See RANJIT SINGH
Runners (Botany), IV, a 86; propagation by (Horticulture), XII, a 241
Runn, morass. See Cutch
RUNNING, XXI, b 66-7; (Anatomy), I, a 739
—— ashore (Seamanship), XXI, a 628
Runrig lands (Partition), XVIII, b 334
Runsiens, tribes (Indians), XII, b 866
Run-Steel (Iron), XIII, b 326
Runt, pigeon (Dove), VII, b 328
Ruota, foundling wheel (Italy), XIII, a 459, note
Rúpaka (Drama), VII, b 344
Rupanco, lake (Chili), V, b 535
Ruparel, river (Alwar), I, a 571
Rupee, coin (Lhasa), XIV, b 497-8; (Numismatics), XVII, *b* 679; (Persia), XVIII, a 636 note; chilkí (Kashmir), XIV, b 14
Rupella, town. See ROCHELLE, LA
Ruperi, fabric (Gold Lace), X, a 671
Rupert, emperor (Germany), X, b 444
——, elector Palatine (Heidelberg), XI, a b 556; (Wenceslaus), XXIV, *a* 529
RUPERT, prince, soldier, XXI, a 67-8; (Birmingham), III, b 682; (Blake), *b* 697, a 698; (Engraving), VIII, a 396; (Navy), XVII, a b 290; *Memoir of Prince* (Warburton), XXIV, b 388
RUPERT or Hrodbert, St., bishop, XXI, a 67
Rupert's drops (Annealing), II, a 57; (Glass), X, b 584
—— Land (Hudson's Bay Company), XII, a 347; (North West Territory), XVII, b 587
Ruphia or Rouphi, river. See ALPHEUS
Rupp, sectary (Gustavus Adolphus Union), XI, a 300
——, Jacob, mechanic (Steam-Engine), XXII, b 925
Ruppel, river (Belgium), III, a 445
Rüppell, Wilhelm P., naturalist (Abyssinia), I, a 63, a 65
Ruppiner See, lake (New Ruppin), XVII, b 373-4
Rupture, disease (Hernia), XI, b 672; of the choroid (Ophthalmology), XVII, b 805
——, joint, in arch (Bridges) (Ill.), IV, b 276-8; modulus of (Bridges), b 260; (Strength of Materials), XXII, b 635
Rural dean, office (Dean), VII, a 15; (England), VIII, a b 198
Rurik and his brothers, legend of (Russia), XXI, a b 96, a 102
Rúrki or Roorkee, town (Sahāranpur), XXI, *a* 160
Rusalka, Russian Mermaid, XVI, a b 44
Rusera, town (Tirhut), XXIII, b 434
Rush, plant, XXI, b 68; (Botany), IV, a 75, a 119; flowering (Ill.), b 123
RUSH, Benjamin, physician, XXI, b 68-9; (Cobbett), VI, a 78; (Medicine), XV, a b 823; (Temperance), XXIII, b 174; (Yellow Fever), XXIV, a 771, a 772
——, Jacob, judge, XXI, b 897
RUSH, James, physician, XXI, a b 897; (Philadelphia), XVIII, a 754
RUSH, Richard, diplomatist, XXI, b 897-8; (Bentham), III, b 497
Rushan, district (Badakhshan), III, a 193
Rushanáináma, poem (Násir Khosrau), XVII, *a* 244
Rushbrook, town (Queenstown), XX, a 182
Rushcutter's Bay (Sydney), XXII, a 846
Rushikuliyá, river (Ganjam), X, a b 63
Rush Nut, XVII, b 683
Rusht, town. See Rasht
RUSHWORTH, John, historian, XXI, a b 69; (Charles I.), V, b 353
Rushworth Gospels (English Bible), VIII, a 342; (English Literature), b 352, 359
Rusicada, town (Numidia), XVII, b 643
RUSK, Thomas Jefferson, statesman, XXI, a 898
Ruskin, John, critic (Æsthetics), I, a 193, b 199-200; (Drawing), VII, b 389, a 390; (Engraving), VIII, b 396; (Fine Arts), IX, b 169; (Leech, J.), XIV, b 406; (Miller, William), XVI, a 333; (Political Economy), XIX, b 409, note; (Psychology), XX, b 80, note; (Robusti), b 626; (Rousseau, J. J.), XXI, b 32; (Scott), a b 575; (Shakespeare), *a* 779; (Sheffield), b 822; (Sidney), XXII, a 41; (Turner, J. M. W.), XXIII, *a* 706, a b 707, note, b 708, *a* 710; (Velazquez), XXIV, a 144; (Venice), b 160 note, a 162 note, a 163, note, a 164 note, a b 166 notes, a *b* 167, notes
Ruslan and Ly'udmila (Poushkin), XIX, b 668
Russ, Melchior, chronicler (Tell), XXIII, a b 171
Russelian snake (India), XII, b 781
RUSSELL, John, earl, premier, XXI, b 69-71; (Balance of Power), III, a 234; (Cabinet), IV, a 551; (Clarendon), V, a 706, a 707; (Cobden), VI, *a* 80, *a* 81; (Infanticide), XIII, a 6; (Moore), XVI, b 834; (Palmerston), XVIII, b 199, *b* 200; (Parliament), b 314, a 315; (Royal Society), XXI, a 45; (Seward), *b* 744 note
RUSSELL, John Scott, engineer, XXI, b 72; (Canal), IV, a b 694; (Harbors and Docks), XI, a 410, b 422; (Hydromechanics), XII, a 454; (Wave), XXIV, b 440, b 443
——, Richard, hydropathist (Brighton), IV, b 311
RUSSELL, William, lord, statesman, XXI, a 71-2; (Devonshire), VII, *b* 123
——, William Oldnall, Sir (Misdemeanor), XVI, b 525
Russellæ, city (Etruria), VIII, a 559
Russell's parallel motion (Steam-Engine), XXII, b 537
—— processes (Photography), XVIII, a 839, a b 840
Russell Square (London), XIV, a 850, *b* 861
RUSSIA (Plate II), XXI, a 73-119
  GENERAL SURVEY, a 73-9
    area and boundaries, a 73, b 75
    church, a 78
    cities, towns and villages, a 77
    educational features, a b 78
    ethnological table, 75
    finance, b 78-9
    government, a 77-8
    justice, administration of, b 77-8
    political divisions, area and population of, b 75-6
    population, distribution of, a 74-5
    rivers, a 74
    topography, a 73-4
    war organization, a 79
  GEOGRAPHICAL FEATURES, a 79-88
    Asiatic races settled in, a b 87
    bibliography, a 81 note, b 82 notes, a 84 note, a b 85 notes, b 88 note
    boundaries, a b 79
    chorography, b 79-80

- RUSSIA, *continued*
  - GEOGRAPHICAL
    - climate, b 83–4
    - ethnography, b 85–8
    - fauna, a b 85
    - flora, a 84–5
    - geology, a 81–2
    - Germanic and Roumanian settlers, b 88
    - meteorology, b 83–4
    - race distribution, a b 88
    - river systems, a 80–1
    - Russians, sub-divisions of, b 86–7
    - soil, b 82
  - HISTORY, a 96–111
    - Alexander I., b 108–9; II., b 110–11
    - Alexis I. and his children, b 104–5
    - Anna, czarina, b 106–7
    - appanage period, b 97–8
    - Basil I., a b 100; II., Shuiski, b 103–4
    - Boris, czar, a 102–3
    - Catherine II., b 107–8
    - Dmitri, false, b 102–3
    - Elizabeth, czarina, a b 107
    - Feodor I., b 101–2; II., b 103
    - French invasion, a 109
    - Igor and Oleg, b 96–7
    - Ivan III., b 99–100; IV., Terrible, b 100–1
    - Ladislaus of Poland, a 104
    - Michael Romanoff, czar, a b 104
    - Mongolian supremacy, b 98–9
    - Nicholas, czar, a b 110
    - Olga, regent, to Yaroslaff, a b 97
    - Paul, czar, b 108
    - Peter I., Great, a 105–6; II., b 106; III., b 107
    - Rurik legendary period, a b 96
  - INDEX, a 118–9
  - LITERATURE, a 111–8
    - bîlinî, folk-songs, a b 111
    - dialectic literature, a b 118
    - drama, recent, b 117
    - eighteenth century, a 114–5
    - historians, recent, b 116–7
    - Ivan IV., reign of, b 112–3
    - law-codes, b 112
    - mediæval period, b 111–2
    - novelists, recent, b 115–6
    - philologists, a b 117
    - poets, nineteenth century, a b 115, a 117
    - serials, b 117
    - seventeenth century, a 113–4
  - STATISTICAL FEATURES, a 89–96
    - agriculture, b 92–3
    - artels, industrial, b 92
    - bibliography, b 91 note, b 92 notes, b 93 notes, a b 94 notes
    - classes of people, b 90–1
    - commerce, a b 95
    - communications, b 95–6
    - fish and game, b 93
    - live stock, a b 93
    - manufactures, a b 94
    - mining industries, b 93–4
    - non-conformists, b 89–90
    - peasantry, b 90–1
    - population and vital statistics, a b 89
    - religion, b 89–90
    - village communities, b 91–2
- —— (Admiral), I, b 144; (Amoor), a 655; (Army), II, b 531–5; (Arsenal), a 555; (Artillery), b 575, b 577, a 583; (Asia), a 613; (Astrakhan), b 645; (Bee), III, a 431; (Bible Societies), a 562; (Bokhara), IV, a 5; (Brewing), IV, b 236; (Bucharest), a 372; (Calmucks), a 629; (Calendar), a 601; (Catherine II.), V, b 203, a 205; (Charles XII.), b 364–5; (China), b 564; (Circassia), a b 689; (Coal), VI, b 52, a 54, a 55, b 73; (Contraband), b 285, a 286; (Corn Laws), b 366; (Czerny George), b 666; (Europe), VIII, a b 630; (Fairs), a 743; (Ferghana), IX, b 74, *b* 75; (Finland), b 189, a b 190; (Fire), a 203; (Flax), a b 259, a b 260; (Forests), b 349, a 350, b 353–4; (Foundling Hospitals), b 426–7; (France), a 543, b 549; (Gendarmerie), X, b 127; (Georgia), a 389; (Gold), a 660, a 661, *b* 662; (Greece), XI, a b 103–4, b 108–9; (Gustavus II.), a b 298; (Hakodadi), a 339; (Hertzen), a b 691; (Hungary), XII, a b 387; (Ichthyology), a 671; (International Law), XIII, b 198, a 199; (Jenghiz), a 633; (Jesnits), *b* 666; (Jews), b 696 *sq.*; (Jomini), *b* 746; (Karamzin), XIV, a b 5; (Khazars), a b 62; (Khiva), *b* 64–5; (Land), a 263; (Lapland), a 306; (Libraries), b 532–3, a 552; (Liquor Laws), b 695; (Maritime Province), XV, b 554–6; (Meteorology), XVI, a 139, a 142, b 143, b 157, b 159, b 162, a 187; (Metternich), b 207–8, a 209; (Merv), b 46–7; (Military Law), b 312; (Mining), a b 490; (Moghileff), b 567; (Mongols), b 767–8, a b 771–2, a 774–5, b 776; (Napoleon I.), XVII, *b* 215, a *b* 216, a *b* 217, a 219, a b 220, b 221, b 222–5, b 226; (National Debt), a 253, 254; (Navy), a 300, a 309; (Newspapers), b 441–2; (Numismatics), a 677; (Observatory), b 734–5; (Oyster), XVIII, b 111; (Pallas), b 192–3; (Patents), a 363; (Periodicals), b 554; (Persia), a b 628–9, b 651, note, b 652, a b 657, a 658–9; (Poland), XIX, b 323–4; (Police), a 357; (Post-Office), b 601, b 604; (Press Laws), a b 733; (Prison Discipline), b 781–2; Railways of, XX, b 262–3; (Whistler), XXIV, a 896; (Slavery), XXII, b 151–2; (Socialism), b 228–9; (Societies), a *b* 236, a b 237, a b 238, b 239, a *b* 240; (Sweden), *a* 787, a b 788, a 789, *a b* 790, a 792; (Turkestan), XXIII, b 672–3, a 678; (Typography), b 740; (Universities), b 901, a 905, a 908; (Weights and Measures), XXIV, b 518; Black Sea interests of (Treaties), XXIII, a 565; black soil of (United States), a 863; British policy toward (Palmerston), XVIII, a 199, a 202; (Wellington), XXIV, b 525, *a b* 526; conversion of (Greece), XI, a 103, a 104; education in (Europe), VIII, *a* 624; imperial succession in (Paul), XVIII, b 442
- ——, *Home Life in* (Gogol), X, b 657
- ——, principality (Russia), XXI, a 98
- *Russia and the Ural Mountains* (Murchison), XVII, a 57, a 58
- Russian Academies, I, a 70–1; (Dashkoff), VI, a 731; (Euler), VIII, b 583; (Globe), X, a b 609; (St. Petersburg), XXI, a *b* 203
- —— America. See ALASKA
- —— art (Illumination), XII, a b 747; (Lace) (Ill.), XIV, *b* 185, b 189; (Niello-Work), XVII, b 508
- —— Backgammon, III, a 173
- —— Bagatelle, III, b 198–9
- —— Bath, III, b 378–9; (Hydropathy), XII, a 577; (Ischl), XIII, b 395
- —— block-houses (Buriats), IV, a 481
- —— church (Confession), VI, a 229; (Greek Church), XI, a 138, b 140; (Missions), XVI, b 540. See Church, Eastern; Greek Church, Orthodox Church
- —— Devonian system (Geology), X, a 303
- —— explorers (Geography), X, b 170, *b* 172, *a* 173; (Gobi), a 636; (Polar Regions), XIX, b 330, note, a b 331, a b 332
- —— heliometers (Micrometer) (Ill.), XVI, a 264
- —— Hemp, XI, *b* 578
- —— historians, XXI, b 116–7; (Nestor), XVII, a b 363
- —— language (Alphabet), I, *b* 539, *a* b 540; (Dictionaries), VII, a b 163; (Europe), VIII, a 615; (Slavs), XXII, b 157–8
- —— Leather, XIV, a b 388
- —— Literature, XXI, a 111–8; (Drama), VII, b 383–4; (Gogol), X, b 657–8; (Lermontoff), XIV, a b 471; (Poushkin), XIX, a 668–9; (Tourguenieff), XXIII, a b 519; (Turkestan), b 681
- —— locomotives (Steam-Engine), XXII, a 523
- —— meridian arc (Earth), VII, b 524, b 525
- RUSSIAN POLAND, XIX, b 309–10, a 317–24
- *Russian Press, Free* (Hertzen), XI, a b 691
- Russians, people (Birch), III, b 603; (Bribery), IV, a 248; (Caste), V, a 163 note; (Fortification), IX, b 379, a 380; (Funeral Rites), b 725; (Pilgrimage), XIX, b 100, a b 104; (Russia), XXI, b 74, a 75, b 86–8, b 90–2; (Seal), b 609–10; (Siberia), XXII, a 13, a 14; (Slavs), a 153, *b* 156, a b 157; (Turkestan), XXIII, b 677; (Volga), XXIV, a *b* 301
- —— Silurian system (Geology), X, b 299–300
- —— Tallow, XXIII, b 39, a 40
- *Russian Traveller, Letters of a* (Karanzin), XIV, a 5
- Russian or West Turkestan, XXIII, a 672–8
- *Russkii Arkhiv*, periodical (Russia), XXI, b 117
- Russkohle, mineral (Coal), VI, a 54
- Russophilism (Persia), XVIII a 659, a 660 note, b 661
- Russophobia (Cobden), VI, b 79, a 81
- Russo-Turkish wars (Gunnery), XI, a 280; (Herzegovina), b 693–4; (Plague), XIX, a b 177; (Turkey), XXIII, b 687–93; (War), XXIV, b 371, a 372, a 383
- Rust, in plants (Parasitism), XVIII, b 271; (Peppermint), a 529; (Wheat), XXIV, a 562
- Rustam, hero (Persepolis), XVIII, a 570, a b 571; (Persia), a b 626, a 669
- RUSTCHUK or Ruscúk, city, XXI, a 119
- Rustenberg district (Transvaal), XXIII, b 550, *a* 551
- *Rustica, De Re* (Latin), XIV, b 334
- Rusticating columns (Architecture), II, b 385
- Rustication, penalty (Universities), XXIII, a 959
- Rustic capital letters (Palæography) (Ill.), XVIII, a b 156
- Rusticiano, Rustichello or Rusticien of Pisa, poet (Italy), XIII, b 511; (Polo), XIX, a 420, *a* 421; (Romance), XX, a b 660, *b* 664, *b* 666
- Rustico, town (Prince Edward Island), XIX, a 760
- Rustre, the (Heraldry) (Ill.), XI, b 621
- Rutebœuf, poet (France), IX, b 565
- Ruten, nation (Egypt), VII, b 639, b 674
- Rutenu, district (Syria), XXII, b 861
- Rutgers College (New Brunswick), XVII, b 384; (New Jersey), b 407
- RUTH, *Book of*, XXI, b 119–20
- Ruthena, town. See Rodez

Ruthenium, metal (Chemistry), V, a 465-6; (Mineralogy), XVI, a 410; (Platinum), XIX, *b* 203, b 204
Ruthenians, race (Hungary), XII, *b* 379; (Poland), XIX, b 320-1; (Roman Catholic Church), XX, b 646
Rutherford, hill (United States), XXIII, a 845
Rutherford, mathematician (Trigonometry), XXIII, b 607
——, John, physicist (Thermometer), XXIII, a b 311
Rutherfurd, Lewis Morris (Astronomy), II, a 701; (Observatory), XVII, a 736; (Telescopic Work), XXIII, b 932-3
RUTHERFURD, Samuel, divine, XXI, b 120-1
—— act (Entail), VIII, a 403
RUTHERGLEN, borough, XXI, a 121
Rutherwycke, John de, abbot (Chertrey), V, b 509
Ruthin, town (Denbigh), VII, *a b* 68
——, Reginald de Grey, earl of (Glendower), X, a 605
Ruthven, earls. See Gowrie
——, Lady Mary (Van Dyck), XXIV, a b 70, a 71
——, Raid of, 1582 (Scotland), XXI, a *b* 529
Ruthwell Cross (Alphabet), I, b 538
Ruticilla, genus (Redstart), XX, b 330, *a* b 331
Rutile (Mineralogy) (Ill.), XVI, a 366, b 377, b 381, b 384, b 392, b 394, b 396, b 402; (Titanium), XXIII, *b* 437
RUTILIUS CLAUDIUS NAMATIANUS, poet, XXI, a 121-2
Rütimeyer, naturalist (Cattle), V, a *b* 213; (Ethnography), VIII, a 542
Rutlam, state (Ratlam), XX, b 304
RUTLAND (Plate), county, XXI, a 122-3
—— island (Andaman Islands), II, a b 12
RUTLAND, Vermont, town, XXI, a 123; (Vermont), XXIV, b 181
RUTLEDGE, Edward, statesman, XXI, a 898
——, Francis Huger, bishop, XXI, a 898
——, Hugh, statesman, XXI, a 898
RUTLEDGE, John, jurist, XXI, a b 898; (Slavery), XXII, b 909; (United States), XXIII, a 796 note
Rütli league, 1307 (Tell), XXIII, *b* 171
Rutnagherry, district and town. See RATNAGIRI; (Ratnagiri), XX, b 304-5
Ruttan system (Ventilation), XXIV, a 175
Rutter of the Sea (Sea Laws), XXI, a 611
Rutuba or Roya river (Liguria), XIV, b 646
Rutuli, people (Æneas), I, a 165; (Latium), XIV, b 344
Ruysbroeck, Guillaume de. See RUBRUQUIS
RUYSBROECK, John, mystic, XXI, a 123; (Groot), XI, a 185; (Mysticism), XVII, a 141; school of (Kempis), XIV, a 35
RUYSCH, Frederic, anatomist, XXI, a 123; (Anatomy), I, a 712, a 714, a 715; (Vascular System), XXIV, b 103
RUYSDAEL or Ruisdaal, Jacob, painter, XXI, a b 123; (Everdingen), VIII, *a* 645; (Hobbema), XII, *a* b 33; (Schools of Painting) (Ill.), XXI, a b 459, a 464
RUYSSELÈDE or Ruisselède, town, XXI, b 123
RUYTER, Michael Adrian de, admiral, XXI, b 123; (Behn), III, a 440; (France), IX, a 508; (Holland), XII, *b* 83-4
Rwon-za-leng, river (Salwin Hill Tracts), XXI, *b* 251
RYAZAÑ, government, XXI, a b 124; (Russia), a 76, a 87, a 93, a b 98, a *b* 99, b 100; town, b 124-5; assault on (Mongols), XVI, b 767
RYBINSK or Ruibinsk, town, XXI, a 125; (Volga), XXIV, a 299, *a* 301; (Yaroslavl), b 767, *a* 768
RYCAUT or Ricaut, Sir Paul, traveller, XXI, a b 125; (Knolles), XIV, b 128
Ryckaert, David, 2d, painter (Coques), VI, a b 326
Rijckevorsel, E. van, physicist (Indian Archipelago), XII, a 856
Rydberg, Viktor, novelist (Sweden), XXII, b 796
RYDE, town, XXI, b 125; (Hampshire), XI, *b* 385
Rydelius, Anders, bishop (Dalin), VI, a 687; (Sweden), XXII, b 793
Ryder, John A., naturalist, (Oystér), XVIII, b 114; (Pisciculture), XIX, a 137; (Smithsonian), XXII, a 916
Ryder's magnetic carbon test (Iron), XIII, b 358
Rydquist, Carl, economist (Protection), XIX, b 941
——, J. E., philologist (Scandinavian Languages), XXI, b 387, a 388
RYE, England, town, XXI, a b 126; (Sussex), XXII, *a* b 762, a 763
RYE, grain, XXI, b 125-6; (Agriculture), I, b 320; (France), IX, *b* 458; (United States), XXIII, b 877, a b 878
—— Grass or Solium (Agriculture), I, b 303, *b* 305, *a* b 306, b 307, b 329, a *b* 330, *a* b 333, a 334, a 337; (Botany), IV, a 111, b 113
—— House Plot, 1683 (Monmouth), XVI, a 783; (Russell, W., Lord), XXI, a 72; (Scotland), a 539
Ryeka, river (Montenegro), XVI, b 806-7
Ryeland sheep (Hereford), XI, a 653
RYEZHITZA, town, XXI, b 126
Rygh, Olaf, archæologist (Norway), XVII, b 606
Rykatchew's maximum (Meteorology), XVI, a 129
Ryland, John, minister (Bunyan), IV, a 471; (Hall, Robert), XI, a b 349, a 350
RYLAND, William Wynne, engraver, XXI, b 126-7
Ryle, John Charles, bishop of Liverpool (Gurnall), XI, a 297
RYMER, Thomas, historian, XXI, a 127-8; (Waller), XXIV, b 351
Rymsdyk, artist (Embryology), VIII, a 152
Rynchonycteris, genus (Mammalia), XV, a 412
Ryngold, chief (Lithuanians), XIV, a 708
Ryots or Rayahs, class (Greece), XI, b 109, a 110; (Mahrattas), XV, a 292
Ryotwari, land tenure (Mahrattas), XV, a 292
Rysbroeck, John. See RUYSBROECK
Ryssel, V., orientalist (Syriac Literature), XXII, a 875 note, b 883 note
Rysselberg's system (Telephone) (Ill.), XXIII, a b 144
Ryswick, Congress of, 1697, VI, b 239; (Finance), IX, a 158; (France), a 511; (Holland), XII, b 84. See Treaty of Ryswick
Rytiodus, fossils (Mammalia), XV, b 394
Ryxa, queen (Poland), XIX, *a* 298
Rzaczynski, traveller (Ornithology), XVIII, b 12
RZHEFF, Rsheff, Rjev or Rzhoff, town, XXI, b 128; (Tver), XXIII, a 715

S, letter, XXI, a 128-9
Sa, Mem de, governor (Brazil), IV, a b 206
Saab or Saan, race (Bushmen), IV, b 512
Sáad of Yemen, general (Arabia), II, a 225
Saádat Alí Khán, nawáb (India), XII, a 835; (Oudh), XVIII, *a* 77
Sa'ádatnáma (Násir Khosrau), XVII, *a* 244
Saadi, poet. See SA'DI
SAADIA or Saadias, rabbi, XXI, a 129-30; (Bible), III, a 560
Saale, river (Elbe), VII, a 717; (Saxe-Weimar), XXI, b 364, *a* 365; (Saxony), *b* 375, a 376
Saal Eisenberg, district (Saxe-Altenburg), XXI, *a b* 362
SAALFELD, town, XXI, a b 130; principality (Saxe-Meiningen), b 364; duchy (Saxony), *a* 372
Saane, river (Freiburg), IX, *b* 670
Saar, Saarbrück or Saarbrücken coal-fields (Coal), VI, b 310; (Geology), X, b 310; (Germany), a *b* 407, a 412; (Iron), XIII, a 299
SAARBRUCKEN, town, XXI, b 130
Saardam, town. See ZAANDAM
SAARGEMUND, town, XXI, b 130-1
Saavedra, navigator (Micronesia), XVI, b 268
SAAVEDRA, Angel de, poet, XXI, a 131; (Spain), XXII, a 375
SAAVEDRA FAXARDO, Diego de, diplomatist, XXI, a 131
SAAZ or Zatec, town, XXI, a b 131
Saba, people. See Sabæans
Sabadilla seeds (Veratrum), XXIV, a 177
Sabæan or Himyaritic language (Semitic Languages), XXI, *b* 675, *a* 676, *b* 682, b 685-6
Sabæans, people (Frankincense), IX, *a* 625; (Yemen), XXIV, b 775-6, b 777, *a* b 778. See Himyarites
——, sect. See SABIANS
SABAH, district, XXI, b 131-2
Sabanilla, port (Colombia), VI, a 137
Sabaragamuwa, district (Ceylon), V, b 314
Sabaratha, town (Mohammedanism), XVI, a 590
Sabarmatí river (Bombay), IV, b 20; (Kaira), XIII, b 833
SABAS or Sabbas, St., of Cappadocia, monk, XXI, b 132
——, St., the Goth, monk, XXI, b 132
Sabatier, naturalist (Reproduction), XX, b 429, a 435
Sabazius, god (Dionysius), VII, a 217; (Phrygia), XVIII, a b 867
Sabbas or Sava, St., archbishop (Servia), XXI, a 722
Sabbat, the (Apparitions), II, b 179
SABBATH, festival, XXI, b 132-5
Babylonian and Assyrian, a 135
Christian church, b 133-4
etymology, a 135
Jewish observance of, b 132-3
moon feasts, b 134-5
origin of, a 134-5
sabbatical year, a b 135
—— (Decalogue), VII, a 16, *a* b 17; (Jesus Christ), XIII, a *b* 676, b 677; (Taboo), XXIII, b 22; Christian observance of (Sunday), XXII, b 688, a 689; deification of (Falashas), IX, b 3; Scotch observance (Golf), X, a b 681; (Macleod), XV, a 165; sports (Abbot, G.), I, a 30
Sabbath, The, poem (Grahame), XI, *a* 31
Sabbathai Zebi, impostor (Jews), XIII, b 691
Sabbatical year (Sabbath), XXI, a b 135
Sabbatum, magnum (Holy Week), XII, b 109
Sabds (Hindustani Literature), XI, a 754
Sabella, mountain (Bachian), III, b 170
Sabellian dialect (Romance Languages), XX, *b* 698
Sabellians, people (Horace), XII, b 163; (Italy), XIII, b 453, b 454-5; (Rome), XX, a b 758, b 760, a b 761, b 762, a 770, a b 778; (Sabines), XXI, a 138
Sabellidæ (Annelida), II, a b 59, a 61
SABELLIUS, theologian, XXI, b 135-6; (Jesus Christ), XIII, b 681, a 682
Sābhā of Rēsh-'ainā, teacher (Syriac Literature), XXII, a 866 note
Sabhí river (Alwar), I, a 571

Sabhr-ishō' II., Baghdagh, catholicus (Syriac Literature), XXII, *b* 891
— of Lāshōm, bishop (Syriac Literature), XXII, b 880
— of Nisibis, catholicus (Syriac Literature), XXII, b 879
— Rustam, monk (Syriac Literature), XXII, a b 886
Sabianism in Peru (America), I, b 612
SABIANS or Sabæans, sect, XXI, a b 136; (Arabia), II, a 218; (Haran), XI, a 406; (Mandæans), XV, a 475, note; (Mohammedanism), XVI, a 571
SABICU-WOOD, tree, XXI, b 136; (Acacia), I, a 67
Sabine, river and lake (Louisiana), XV, a 22; (Texas), XXIII, b 219, b 220
SABINE, Sir Edward, astronomer, XXI, b 136–7; (Aurora,), III, b 80; (Meteorology), XVI, a b 173–4, *a* b 175, b 176, a b 177–81, a b 186, a 190, a 192; (Polar Regions), XIX, a 332
SABINE, Lorenzo, antiquary, XXI, b 898
— element of Roman Law, XX, a b 686, a 687; farm (Horace), XII, b 164
SABINES, race, XXI, a 137–8; (Italy), XIII, b 453–4, b 456; (Rome), XX, b 750–1, b 752, a *b* 758, a 763; (Umbria), XXIII, *a* 771; (Varro), XXIV, a 100
Sabinians, legal school (Gaius), X, a 16; (Labeo), XIV, *a* 165
Sabinianus, pope (Campanile), IV, b 665; (Popedom), XIX, b 508, b 523
Sabita, town (Celebes), V, a 251
Sable, cape (Florida), IX, a 296
—, island (Nova Scotia), XVII, a 616
—, mammal (Marten), XV, *b* 584; (Siberia), XXII, b 14; Russian (Fur), IX, a 735, b 736; trade (Khabarooka), XIV, a 58
Sablé, town (Sarthe), XXI, a b 329
SABLES D'OLONNE, town, XXI, a 138; (Vendée), XXIV, *b* 149
Sablière, Madame de la (La Fontaine), XIV, a b 205
Sablya, mountain (Ural Mountains), XXIV, *a* 8
Sabo river (Setubal), XXI, a 730
"Saboriam," opiners (Talmud), XXIII, a 42
Sabre, weapon (Sword) (Ill.), XXII, b 840, a 842
Sabre-wings (Humming-Bird), XII, a 373
Sabrina, island (Polar Regions), XIX, b 342
—, temporary island (Azores), III, a 148
Sabuktogín, amír (Ghazni), X, b 501; (Ghúr), a 509; (India), XII, b 831; (Persia) XVIII, a 669; (Sámánid Dynasty), XXI, b 253–4
Sabzvâr (Afghânistân), I, a 206, b 207
Sacæ, people (Herat), XI, b 638
Sacarancæ, tribe (Persia), XVIII, a b 605, note
Sacate Grande, island (Honduras), XII, b 133, a 134
Saccammina (Foraminifera) (Ill.), IX, b 328, a 329, b 339; (Protozoa), XIX, b 868
Saccata, group (Vertebrata), XXIV, a 202; (Actinozoa), I, a b 122
'Saccatras, mixed race (Martinique), XV, b 592
Saccharine (Brewing), IV, b 242; (Sugar), XXII, a 656; (Wine), XXIV, b 635
Saccharometer (Brewing), IV, b 237, b 245
Saccharomyces, ferment (Biology), III, b 599; (Fermentation), IX, *a* b 84, *a* 85; (Perry), XVIII, a 569
Saccharoses (Chemistry), V, a 490; (Sugar), XXII, b 655, a 656, a b 657
Saccharun (Adulteration), I, a 156
SACCHETTI, Franco, novelist, XXI, a b 138; (Italy), XIII, a 515
SACCHI Andrea, painter, XXI, b 138–9
—, Giuseppe, painter, XXI, a 139
— company, players (Gozzi), XI, b 22
SACCHINI, Antonio Maria Gasparo, composer, XXI, a 139
Sacco, river (Italy), XIII, a 448; (Latium), XIV, b 345
— of Milan, physician (Vaccination), XXIV, b 29
Sacconi, inquisitor (Waldenses), XXIV, a 344
Saccopterix, genus (Mammalia), XV, b 417
Sacculina, genus (Crustacea) (Ill.), VI, *b* 572, b 576, a 577, b 588
Sacculus of labyrinth (Anatomy), I, *b* 784, a 786
Sacebaro, magistrate (Salic Law), XXI, a 224
Sacerdotal Costume, VI, a 406
Sacerdotalism (Priest), XIX, b 743–9; Christian (Pelagius), XVIII, b 483
Sacharof, aëronaut (Aëronautics), I, b 175
Sachau, orientalist (Kurdistan), XIV, a 160; (Syriac Literature), XXII, b 879; (Tabarí), XXIII, b 8
Sachems, of Tammany Hall, XXIII, *a* 920–1
Sachets (Perfumery), XVIII, b 537
SACHEVERELL, Henry, politician, XXI, a b 139; (Atterbury), III, b 48; (England), VIII, a 317
SACHS, Hans, poet, XXI, b 139; (Drama), VII, a *b* 380; (Germany), X, a 473; (Music), XVII, a 91; (Nuremburg), *a* b 682
—, Julius, botanist (Botany), IV, *b* 599, a 600, a 601, b 602; (Histology), XII, a 19, a 20, b 21; (Morphology), XVI, b 867, a 868; (Physiology), XIX, *a* 54, a 56, *b* 65, b 66, a b 67, b 68, b 71
Sachsenhausen, suburb (Frankfort), IX, b 620, a 621
Sachsenspiegel, code (German Language), X, b 465, note; (Germany), X, b 470; (Gregory XI.), XI, b 159; (Homeyer), XII, b 127
Sack, measure (Weights and Measures), XXIV, a 518
Sackat, kingdom and town. See SOKOTO
Sackbut, musical instrument (Trombone), XXIII, b 623
SACKING AND SACK MANUFACTURE, XXI, b 139–40
Sack tree (Botany), IV, b 90
Sackville, town (New Brunswick), XVII, a b 384
Sackville. See DORSET, Earls of
—, George Sackville Germaine, viscount (Burke), IV, a 486
SACO, Maine, city, XXI, a 140; river (Maine), XV, b 300
Sacral artery (Anatomy), I, b 792, *b* 793; plexus (Anatomy), a b 763; vertebræ, (Skeleton), XXII, a 120
SACRAMENT, rite, XXI, a b 140; (Ablution), I, b 52; (Andrewes), II, b 20; (Armenian Church), b 481; (Calvin), IV, b 637; (Confession), VI, a 229; (Eucharist), VIII, b 572; (Greek Church), XI, b 141, a 142; (Irenæus), XIII, b 279, a 280; (Kempis), XIV, a 35; (Mandæans), XV, b 477; (Methodism), XVI, b 194, b 196 (Order), XVII, a b 844; (Penance), XVIII, b 497, b 498; (Quakers), XX, b 156; (Trent, Council of), XXIII, b 580; dual nature of (Baptism), III, b 301; (England, Church of), VIII, b 336; theory of (Zwingli), XXIV, b 873. See BAPTISM, EUCHARIST
Sacramental rites (Sacrifice), XXI, b 145–6; wine (Temperance), XXIII, a 175
Sacramentarians (Christianity), V, b 599–600, b 603; (Huguenots), XII, b 351
Sacramentaries, Roman (Liturgy), XIV, b 714; (Missal), XVI, b 531, a 532, note; *Gregorian* (Missal), a b 532
SACRAMENTO, California, city, XXI, b 140; (California), IV, a 620, a b 625; river (California), *b* 617, a 618, a 620, b 623; (Pisciculture), XIX, b 138; valley (Gold), X, *b* 661; valley races (Indians), XII, b 866
Sacrament of Baptism (Luther), XV, b 79
Sacramentum in law (Law), XIV, b 365; (Roman Law), XX, b 695, *b* 698, a 699–71; (Wager), XXIV, a 326
Sacratio capitis (Roman Law), XX, b 687, *a* 693, a 698
Sacra Via, street (Rome) (Plate VII) (Ill.), XX, b 836, b 837–8, a b 844
Sacred and Legendary Art (Jameson), XIII, a b 572
Sacred animals (Sacrifice), XXI, b 143–4; (Siam), a 891
— Art, The (Alchemy), I, b 408-11
— band, Theban (Pelopidas), XVIII, a 490
— College (Cardinal), V, a b 86–7; (Dean), VII, a 15; (Rome), XX, a b 757, b 780, note
— Countenance, relic (Lucca), XV, b 40–1
— Dances, VI, b 704
— Harmonic Society, London (Libraries), XIV, b 516, a 545
— Heart, church of the Vow of (Paris), XVIII, b 281; cult of (Popedom), XIX, b 521
Sacred History (Evemerus), VIII, b 644
—*Latin Poetry* (Hymns), XII, a 617
— Promontory (Lycia), XV, b 94
— Rites. See Rites, Congregation of
— wars of Greece (Amphictyony), I, b 678–9; 448 B.C. (Pericles), XVIII, a 542; (Phocis), b 814
SACRIFICE, rite, XXI, a 141–8
  animals, sacred, b 143–4
  Christian view of, a 146–8
  elements of honorific, a b 141
  eucharistic type, a 147–8
  family type, a 143
  feasting in, a 142–3, a 144, b 146–7
  honorific type, a 141–4
  human oblations, a b 144
  liturgies, b 147–8
  mystical pagan, b 145–6
  offering, honorific, mode of, b 141–2
  patristic view of, a 147
  piacular type, b 144–5
  reformation influence, a 148
  ritual of, b 142–3, a 146
  scope of, a 141
  totem types, b 143–4, a b 145
— (Brahmanism), IV, b 185–6; (Eucharist), VIII, b 572; (Funeral Rites), IX, b 724, *a* 725; (Isaiah), XIII, *a* b 391; (Kâfiristân), a 832; (Lustration), XV, b 71; (Manes), b 485; (Mars), *a* 577; (Oath), XVII, a 719; (Totemism), XXIII, b 500; (Vow), XXIV, a 321; Aryan (India), XII, a b 820; (Priest), XIX, a 745; Athenian (Buphonia), IV, a 475; of Christ (Gospels), X, a 738, b 743–4; (Paul), XVIII, b 435, b 437; Egyptian (Incense), XII, b 757
—, human (Abomey), I, a 53; (America), a 619; (Ashantee), II, a 595; (Busiris), IV, b 513–4; (Cannibalism), a 713; (Dahomey), VI, a 676; (Druidism), VII, b 412, b 413; (Egypt), b 623, note; (Jáintia Hills), XIII, b 554; (Lycaon), XV, b 93; (Mexico), XVI, a 217, a 218, b 219, a 220; (Moloch), a b 722; (Mythology), XVII, a 160, note; (Phal-

Sacrifice, *continued*
aris), XVIII, b 743; (Phœnicia), b 516; (Phrygia), a 867, note; (Saturn), XXI, *b* 336; (Tahiti), XXIII, a b 29
—— of Isaac (Abraham), I, a 56; Jewish (Israel), XIII, a b 425; (Joel), b 716; (Passover), XVIII, b 348, a 349; (Priest), XIX, a 746, a 747, *b* 748
—— of mass (Priest), XIX, b 749. See MISSAL
Sacrifices, imperial (China), V, a 581; Roman (Lupercalia), XV, b 67, a 68; (Saturn), XXI, a b 336
Sacrifice to Fecundity, Titian's (Schools of Painting), XXI, b 466
SACRILEGE, offence, XXI, b 148; penalties for (Charles X.), V, b 357
Sacristy (Architecture), II, a 416
SACRO Bosco, Johannes de, or Holywood, John, astronomer, XXI, b 148; (Calendar), IV, b 595; (Scotland), XXI, b 568
Sacro-coccygeal plexus (Anatomy), I, b 763
—— -iliac joint (Anatomy), I, b 737
Sacrosancta Concilia (Hormisdas), XII, a 171
Sacrosanct officials (Tribune), XXIII, a 592
Sacrum, bone (Amphibia), I, a 660; (Anatomy), b 719, a 720; (Ape), II, a 140; (Birds) (Ill.), III, *a* b 623; (Mammalia), XV, a 359; (Skeleton), XXII, a 120
—— Promontorium, peninsula (Wexford), XXIV, a 550
Sacs, tribes (Indians), XII, b 872
Sacsahuaman, hill (Cuzco), VI, b 656
SACY, Antoine Isaac, Baron Silvestre de, orientalist, XXI, b 148–9; (Arabia), II, a 218; (Druses), VII, b 420; (Harírí), XI, a b 429; (Hebrew Language and Literature), a 537; (La Fontaine), XIV, b 206; (Thousand and One Nights), XXIII, a b 337, a 338 note
SACY, Isaac Louis Le Maitre de, Jansenist, XXI, b 149–50
Sadang river (Celebes), V, a 251
Sa'd ben Zengi, sultan (Sa'di), XXI, *b* 150, a 151
Saddharma-Pundarīka (Lāmāism), XIV, *b* 227, *a* 228
Saddleback, peak (Massachusetts), XV, a 618
Saddle bar in Architecture, II, a 416; window (Glass), X, a 600
Saddle-billed stork (Jabiru), XIII, b 539
Saddle boiler (Horticulture) (Ill.), XII, b 233, a b 234
—— mountain (Andaman Island), II, a 12
—— mountain (United States), XXIII, b 842
SADDLERY, industry, XXI, a 150
Saddles (Cavalry), V, a 228; (Horse), XII, b 202
Saddle suspension bridge (Bridges) (Ill.), IV, b 269
SADDUCEES, sect, XXI, a b 150; (Apocrypha), II, b 160; (Canon), V, a 6; (Fasting), IX, a 41; (Israel), XIII, b 433, a b 434, *a* b 435, b 436; (Messiah), XVI, a 60; (Predestination), XIX, a 688
Sadducismus Triumphatus (Glanvill), X, b 566
Sade, James Francis Paul Aldonce de, abbé (Petrarch), XVIII, b 720, a 725
SÁ DE MIRANDA, Francisco de, poet, XXI, b 150; (Camoens), IV, b 659, a 660
SA'DI, poet, XXI, b 150–1; (Persia), XVIII, b 671
Sádik Khân, pretender (Persia), XVIII, b 655, a 656
—— Khân Shakáki, general (Persia), XVIII, b 658
Sadin, wrapper (Costume), VI, b 405, a 406
Sadiya, town (Tibet), XXIII, a 362
SADLER, Sir Ralph, statesman), XXI, b 151–2; (Scotland), a *b* 521, a 524
—— and Hofacker's law (Sex), XXI, a 758
Sadlers, the (Aëronautics), I, a 172, a 173, b 174, a 175
Sado, island (Japan), XIII, a 578, b 582, a 587
SADOLETO, Jacopo, cardinal, XXI, a 152; (Calvin), IV, a 635
——, Paolo, bishop (Volusenus), XXIV, b 316
Sadowa or Königgrätz, battle of, 1866 (Artillery), II, a 585; (Austria), III, a 122; (Germany), X, b 458; (Italy), XIII, a 501; (Königgrätz), XIV, b 139; campaign (War), XXIV, b 368, *a* b 373, a 378
Sad Shepherd (Jonson), XIII, a 754, a 756
Sadtler, Samuel P., geologist (Natural Gas), XVIII, a 895
Sa'd ud-Dín, historian (Turkey), XXIII, b 685, b 693, a 699
Sáduzárs, Afghan tribe (Persia), XVIII, a 651
Sa'eed, district (Egypt), VII, a 628
Sæmund Sigfusson, poet (Edda), VII, a 564, a 565; (Iceland), XII, b 660
Sætabis, town (Játiva), XIII, b 607
Safa, desert of (Inscriptions), XIII, b 123
——, hill (Mecca), XV, b 680
Safadí, biographer (Tarbarí), XXIII, a 9
Safarik, Paul J. See SCHAFARIK
Safarnâma (Násir Khosrau), XVII, *b* 243
Safawí dynasty (Persia), XVIII, a 645–52; (Shi'ites), XXII, b 698, *a* 699
Safed, town (Galilee), X, b 26, a b 27; (Templars), XXIII, a b 178
Safe Deposit Company, London (Safes), XXI, a 153
Safed Koh, mountains (Afghânistân), I, a 204, a *b* 205, b 206, *a* b 208, b 216; (Kohát), XIV, b 136
SAFES, XXI, a 152–3; fireproof (Patents), XVIII, b 882; Locks for, XIV, b 755–6
Safety, factor of (Strength of Materials), XXII, a b 625
—— catches (Coal), VI, b 70–1; (Lifts), XIV, a b 580
—— fund (Van Buren), XXIV, b 63 note
—— fuse (Mining), XVI, a 465–6
—— lamps (Coal), VI, a b 68; (Davy), a 745; (Mining), XVI, b 482
—— motor (Steam-Engine), XXII, a 542
—— valves (Bismuth), III, b 687; (Steam-Engine) (Ill.), XXII, *b* 491, a 519, b 520
Saffah. See Abú 'l-'Abbás
SAFFÁRIDS, dynasty, XXI, a 153; (Mohammedanism), XVI, b 608, a 609
SAFFI, town, XXI, a 153; (Morocco), XVI, b 857
Saffian (Leather), XIV, b 388
SAFFLOWER, plant, XXI, a b 153; (Thistle), XXIII, b 327; oil (Oils), XVII, a 765, b 767
SAFFRON, plant, XXI, b 153–4; (Botany) (Ill.), IV, *b* 87; (Colchicum), VI, b 113; (Duhamel du Monceau), VII, b 447; (Incense), XII, a 757
SAFFRON WALDEN, town, XXI, b 153, a b 154
Safid Rud, river (Persia), XVIII, a 631, b 637
Safiya (Mohammedanism), XVI, a 581
Safra, district (Arabia), II, a 207
Safranine (Coal Tar Colors), XVIII, a 903
Saga, goddess (Æsir), I, b 190
Sagai custom (India), XII, a 823
Sagaing, town (Ava), III, *a* 125
Sagais, tribe (Tartars), XXIII, b 76
Sagalassus, town (Pisidia), XIX, a 139
SAGAN, town and principality, XXI, b 154
SÁGAR or Saugor, district, XXI, b 154–5; town, a 155
Ságar Dighí, tank (Gaur), X, a 103
Sagard-Theodat, Gabriel, historian (Skunk), XXII, b 133–4
Sagartia (Crustacea), VI, a 581
Sagas (Haco V.), XI, b 322; (Hamlet), a 379; (Iceland), XII, b 655, a b 657, a 658, a 659–62; (Russia), XXI, b 96; *of the Norwegian Kings* (Snorro Sturluson), XXII, *b* 212. See EDDA
Sagastyr, polar station (Yakutsk), XXIV, *b* 762
Sage, plant (Horticulture), XII, b 259, b 273, b 302; (Honey), a b 142
——, wise man (Stoics), XXII, a b 599
——, Georges Louis, naturalist (Bee), III, b 423
—— brush (United States), XXIII, a 862. See Artemisia
—— cock (Grouse), XI, b 198; hen (California), IV, b 623
Sagen, Lyder Christian, author (Norway), XVII, b 604
Sagene, measure (Weights and Measures), XXIV, *b* 518
Sagenpoesie der Griechen (Homer), XII, a 120
Sagesse, De la (Charron), V, b 373, a 374
Saggers, boxes (Pottery and Porcelain), XIX, b 653, b 658, b 663
Saggiatore (Galileo), X, *b* 30
Sagging of ships (Shipbuilding), XXI, b 855, a 856
Saggio di Contrapunto (Martini), XV, b 591–2
SAGHALIN, Saghalien or Sakhalin, island, XXI, a 155–6; (Japan), XIII, a 578; (Prison Discipline), XIX, b 781, a 782; (Siberia), XXII, a 9
Sag Harbor (Long Island), XIV, a 877
Saghla Göl, lake (Isauria), XIII, a 395
Saginaw Bay, Michigan (United States), XXIII, b 860; (St Lawrence), XXI, a b 187; river (Michigan), XVI, a 156
SAGINAW, Michigan, city, XXI, a 156
SAGITTA, worm (Ill.), XXI, a b 156; (Animal Kingdom), II, *b* 47; (Reproduction), XX, a 426, b 431
Sagittarius, sign of the Zodiac, XXIV, b 829, a b 830, a b 831, a 833, *a* 834
Sag-lad cloth (Tibet), XXIII, a 364
SAGO, food, XXI, b 156–7; (Sarawak), a 322; (Botany), IV, *b* 77, a 78; Palm, XVIII, a 195
Sagua la Grande, river (Cuba), VI, a b 601
Saguenay river (Quebec), XX, b 171–2 note; (St. Lawrence), XXI, a 191
Sagulum, cloak (Costume), VI, a 404
SAGUNTUM, city, XXI, a 157; (Hannibal), XI, b 394–5; (Rome), XX, *b* 767; (Spain), XXII, b 320
Sagwissenschaftliche Studien (Hahn, J. G.), XI, b 333
Sahagun, Bernardino de, missionary (Mythology), XVII, b 156
Sahama, volcano (Bolivia), IV, b 11
Sahaptin, tribes (Indians), XII, a 865
SAHARA, desert, XXI, a 157–60
  area, a b 157
  dunes, b 157–8
  fauna and flora, a b 159
  flooding, artificial, b 159
  geology, a b 158
  literature on, b 160
  population, b 159
  topography, b 157–8
  trade-routes, b 159
  water circulation, b 158–9
—— (Africa), I, *a* 223, *a* b 224, b 228, a *b* 229, b 230, *a* 231, b 233, a 234, b 237; (Algeria), b 496; (Oases), XVII, b 714, a 715; Artesian wells in, II, a b 565; countries of (Africa), I, b 239–40; effects on migration (Birds), III, a 654

SAHÁRANPUR, district and city, XXI, a b 160
Sahariyas, savages (Lalitpur), XIV, b 226
Sāhdōnā of Halamūn, monk (Syriac Literature), XXII, a b 885
Sáh dynasty (India), XII, *a* 829; (Inscriptions), XIII, b 126
Sahel el-Ahma, plateau (Palestine), XVIII, b 175
Sahend or Serhend mountains (Azerbijan), III, b 145
Saheyl, island (Egypt), VII, b 679
Sahi or Zahi, district (Syria), XXII, b 861
Sáhibganj, town (Gayá), X, a 109
Sahibi river (Rohtak), XX, b 639
Sahidic dialect (Copts), VI, a 315; (Hieroglyphics), XI, b 710, *a b* 712, a b 713, b 714
Sahíh, tradition (Mohammedanism), XVI, a 617
Sahitya-darpanā (Sanskrit), XXI, b 308
Sahlite (Mineralogy), XVI, a 434
Sahlstedt, Abraham, grammarian (Sweden), XXII, b 794
Sáhyádri mountains (Bombay), IV, *a b* 20, a 21; (Goa), X, b 629; (Kánara), XIII, a 844; (Kolába), XIV, *a* 137; (Kolhápur), *b* 138; (Násik), XVII, a 243; (Satara), XXI, a 332
Sái, river (Lucknow), XV, *b* 50; (Rai Bareli), XX, *a* 229
——, title (Celtic Literature), V, *a* 263, a 264
Saibling, fish (Alps), I, b 557
Sa'id, sayyid or sultan (Mombasa), XVI, b 724
—— ál-Harashí, captain (Mohammedanism), XVI, a 603
—— bar Sābuni, bishop (Syriac Literature), XXII, a 893
—— Muhammad 'Ali, sectary (Persia), XVIII, b 662, a b 663
Saida, town. See Sidon.
Saidokki tribe (Nubia), XVII, b 627
Sa'id Pasha (Egypt), VII, a 665, *a* 681, a 682; (Port Said), XIX, b 548
Saif al-Dawla, prince (Motanabbi), XVII, a 7
Saif ibn 'Omar, historian (Tabarí), XXIII, a 7
Saifuddín Súrí, sultan (Ghazni), X, b 501; (Ghúr), a b 509
Saiga (Antelope), II, b 90
SAIGON, city (Map), XXI, b 160–1; (Cochin China), VI, b 86, b 88, a 89; (Tong-King), XXIII, a *b* 469
Saikaidô, circuit (Japan), XIII, a b 579
Saikiô, city (Japan), XIII, b 579; (Xavier), XXIV, b 753. See KIOTO
Saikoku provinces (Japan), XIII, b 579
SAIL, SAILCLOTH and SAILMAKING, XXI, a 161–3
    cloth for, a 162–3
    manufacture, a b 163
    nomenclature of, a 161–2
    working ship, a 162
—— (Shipbuilding), XXI, a 861–2; gaff-top (Seamanship), XXI, b 628; making and shortening (Seamanship), b 629–30
Sailing Directions, British Admiralty's (Whirlpool), XXIV, a b 572
Sailing ships (Seamanship) (Ill.), XXI, a 617, a b 622, a 623, b 625, a 627–31; (Shipbuilding), a 849, a 850, a 855, a 861–2
Sailors, duties of (Seamanship), XXI, b 617; laws affecting (Seamen), a 635–8
Sailor's Knots (Ill.) XIV, a 129–30
Sailors' Snug Harbor (New Brighton), XVII, b 381
Sails, bending (Seamanship), XXI, b 625; reefing, a 629, a 630; set of, b 628
Sailughem, mountains (Siberia), XXII, *a* b 7; (Tomsk), XXIII, a 466, a 467
Saima, lake (Finland), IX, b 188, a *b* 189; (Ladoga), XIV, b 199; (Viborg), XXIV, a 226
Saimiri, squirrel monkey (Ape), II, b 135
SAINFOIN, plant, XXI, b 163; (Agriculture), I, b 331, b 335, a 337; (Botany), IV, a b 136; (Hampshire), XI, a 385
SAINT, ecclesiastical term, XXI, b 163–4. See Saints
——, Thomas, inventor (Sewing Machine), XXI, a 754
St. Abb's Head, promontory (Berwickshire), III, a 529
St. Agnes island (Scilly Islands), XXI, *a* 487
ST. ALBANS, city, XXI, a 164–5; (Alban), I, a 395; (Hertford), XI, *b* 689, *a* 690; Abbots of, I, b 28, a 29; *Book of* (Heraldry), XI, b 613, a b 615, b 636; monkish historians of (England), VIII, a 285; jail (Prison Discipline), XIX, b 768
ST. ALBANS, Vermont, town, XXI, a 165
St. Allyre, town (Clermont), V, *b* 723
St. Alphonse, village (Quebec), XX, a 172
St. Amand of Tongres, bishop (St. Amand-Les-Eaux), XXI, a 165
ST. AMAND-LES-EAUX, town, XXI, a 165
Saint-Amant, Fournié de (Chess), V, b 522
SAINT-AMANT, Marc Antoine Gerard, Sieur de, poet, XXI, a b 165; (France), IX, *a* 578
St. André, Jean d'Albon, marshal (France), IX, a b 491
St. Andrew, cape (Madagascar), XV, a 169
St. Andrews, bay (Florida), IX, b 296
ST. ANDREWS, city (Plan), XXI, b 165–6; (Archbishop), II, *a* 324; (Culdees), VI, a b 613; (Knox), XIV, *b* 131, a 133; (Scotland), XXI, a 496, a 499, *a b* 504, a 506, a 531, a 550; club (Golf), X, b 681, a b 682–3; University, XXIII, b 898–9, (Libraries), XIV, a 522, a 546; (Melville), XV, *a b* 852
St. Andrew's Cross, VI, b 539, a 542
St. Angelo, castle, Rome. See San Angelo
St. Anne's, town (Alderney), I, a 419; well (Buxton), IV, a b 534
St. Anthony, Falls of (Minneapolis), XVI, b 497, a 498, b 499
St. Anthony's fire, disease. See ERYSIPELAS
St. Antonio or S. Antao, island (Cape Verd Islands), V, b 46, a 47
ST. ASAPH, city, XXI, a 167; (Flint), IX, a 287
Saint-Aubain, Andreas Nikolai de, novelist (Denmark), VII, b 81
St. Aubyn family (Devonport), VII, b 120
ST. AUGUSTINE, Florida, city, XXI, a b 167; (Florida), IX, a 297, a b 298
—— river (Labrador), XIV, a 176
St. Augustine, painting (Botticelli), IV, a 151
St. Augustine's bay (Madagascar), XV, a 169
ST. BARTHOLOMEW or Barthélemy, island, XXI, b 167; (France), IX, b 465
——, massacre of, 1572 (Charles IX.), V, b 357; (Coligni), VI, b 127; (France), IX, a b 495; (Jesuits), XIII, a 660; (Poland), XIX, b 303, a 304
St. Bartholomew's Hospital, London, XII, *a* 315, a 316; (Abernethy), I, b 49
St. Baume, hills (Var), XXIV, b 75
St. Bees, manor (Whitehaven), XXIV, b 583
—— sandstone (Westmorland), XXIV, a 542, a 544
St. Bel, farrier (Veterinary Science), XXIV, *a* 215
St. Bernard, hospice of (Ecuador), VII, a 561
—— mountains and pass (Alps), I, b 545, b 549; (Italy), XIII, a 445; Great (Switzerland), XXII, *b* 815; Little (Alps), I, b 545, *a* 549; (Hannibal), XI, *a* 395
—— Dog, VII, b 283, a b 284
St. Bernardino, mountain (Switzerland), XXII, b 815; pass (Grisons), XI, b 182
St. Bernardino of Siena, painting (Pinturicchio), XIX, *a* 117
St. Boniface, town (Winnipeg), XXIV, a 646
St. Brandon, island (Brazil, Island of), IV, *a* 216
St. Briavel castle (Gloucester), X, b 614 note, b 615
St. Brice, massacre of, 1002 (England), VIII, b 259
St. Bride's bay (Pembroke), XVIII, b 492
ST. BRIEUC, town, XXI, b 167–8; bay (Côtes-du-Noir), VI, a 426
St. Callistus or Callixtus, Catacomb (Ill.), V, a b 183, *a* 184, b 185; (Mural Decoration) (Ill.), XVII, b 49, a 50
St. Castor, church (Coblentz), VI, b 82
St. Catherine, Burial of, painting (Luini), XV, b 63
ST. CATHERINES, Canada, town, XXI, a 168; (Mineral Waters), XVI, a 453, a 456
—— college (Cambridge), IV, b 646–7
—— island (Tenby), XXIII, a 189
St. Cecilia, paintings (Pianoforte), XIX, b 73, a 75. See CECILIA
St. Cerques, Col de, road (Jura), XIII, a *b* 791
St. Chamas bridge (Bridges) (Ill.), IV, a 297
ST. CHAMOND, town, XXI, a 168
ST. CHARLES, Missouri, city, XXI, a 168
—— river (St. Lawrence), XXI, b 190
St. Christian, spa (Pyrénées), XX, a 133
ST. CHRISTOPHER, island, XXI, a b 168; (Buccaneers), IV, *b* 337; (Nevis), XVII, *b* 378; (West Indies), XXIV, a b 538
St. Christopher (Mural Decoration) (Ill.), XVII, a 51
ST. CLAIR, Pennsylvania, borough, XXI, b 168
—— Lake, XIV, a b 218; and river (St. Lawrence), XXI, a 188, b 191
ST. CLAIR, Arthur, general, XXI, b 898–9
——, General (Hume), XII, a b 362
—— of Rosslyn, family (Freemasonry), IX, a b 659
St. Claude, town (Jura), XIII, a 792
St. Clement, festival of (Hats), XI, b 462
ST. CLOUD, village, XXI, b 168; ordinances of (France), IX, b 545; ware (Pottery and Porcelain), XIX, b 656
ST. CROIX or Santa Cruz, island, XXI, b 168–9; (Denmark), VII, *b* 73
——, river (New Brunswick), XVII, b 382
St. Cuthbert's beads (Echinodermata), VII, b 552; Duck (Eider), VII, a 685
St. Cyr, Laurent Gouvion. See GOUVION
ST. CYR-L'ÉCOLE, village, XXI, a 169; school (Maintenon), XV, b 307, *a* 308; (Paris), XVIII, b 286
St. Dabeoc's heath, XI, a 527
ST. DAVID'S, village, XXI, a b 169
ST. DENIS, town, XXI, b 169–70; (Réunion), XX, b 505, b 506, a 507
ST. DIÉ, town, XXI, a b 170
St. Douceline, Life of (Provençal Literature), XIX, a 902
Sainte Aldegonde, Filips Van Marnix de, governor (Farnese, A.), IX, b 34; (France), a 576; (Holland), XII, *a* 96
Ste. Anne, Falls of (Quebec), XX, a 172

SAINTE-BEUVE, Charles Augustin, critic XXI, b 170-4
  Causeries du Lundi, period, b 171
  criticism of, b 172–4
  death and will, b 171–2
  parentage and education b 170
  periodical connection, early, b 170–1
  personal characteristics, a 173–4
  poetry, a b 172
  revolution of 1848, effect of, a 171
  value of his work, a 174
—— (Chamfort), V, *b* 332; (Chateaubriand), b 379; (Chénier), *a* 505; (Drog), VII, *a* 412; (Fontenelle), IX, *b* 319, a 320; (France), b 597; (Gautier), X, b 105; (Gibbon), a b 515 note; (Guérin), XI, *b* 218; (Hamilton), b 370; (Musset), XVII, *a* 118, b 119; (Newspapers), a 438; (Ronsard), XX, b 864, *a* 865; (St. Simon), XXI, b 209, a 210; (Sismondi), XXII, b 107, a 108; (Terence), XXIII, a 205; (Thiers), *b* 323; (Vauvenargues), XXIV, b 127, a 128; (Vigny), *b* 243
Sainte Chapelle, church (Architecture), II, b 398; (Paris), XVIII, b 294, b 295
SAINTE-CLAIRE DEVILLE, Étienne Henri, chemist, XXI, a 174–2; (Wöhler), XXIV, b 660; on petroleum fuel (Paraffin), XVIII, b 243-4. See Deville
St. Elias, mountain (Alaska) (Plate), I, b 393; (America), a 592, b 595
—— or Oche, mountains (Eubœa), VIII, a 569; (Greece), XI, a 74; (Imbros), XII, a 753; (Laconia), XIV, a 194
St. Elizabeth of Hungary (Murillo), XVII, b 62, a 63
St. Elmo's fire (Lightning Conductor), XIV, a b 640
St. Eloi, town (Puy de Dôme), XX, *a* 126
St. Éloy, bishop (Plate), XIX, a 194
Sainte Marguerite, islands (Iron Mask), XIII, b 370–1
Sainte-Marie, town (Oloron-Sainte-Marie), XVII, b 786
St. Émilion, town (Libourne), XIV, *b* 508
Sainte Monthélon, Madame. See Chantal, J. F. F., de
Sainte-More, Benoit de, writer (Greece), XI, a 134
Sainte-Palaye, Jean Baptiste de Lacurne de, author (Knighthood), XIV, b 119 note, b 126 note
Saintes, Les, island (Guadeloupe), XI, b 203, a 204
SAINTES, town, XXI, b 175–6; bridge (Bridges) (Ill.), IV, a b 298
Saint Esprit, suburb (Bayonne), III, b 396
ST. ÉTIENNE, town (Plan), XXI, a b 176; (Coal), VI, a b 53; (Ribbons), XX, *b* 546
St. Euphemia of Chalcedon (Rovigno), XXI, a 34
ST. EUSTATIUS or Eustache, island, XXI, b 176–7
SAINT-ÉVREMOND, Charles de Marguetel de Saint-Denis, Seigneur de, author, XXI, a b 177; (France), IX, b 583; (Lenclos), XIV, *a* 446; (Racine), XX, b 212
St. Florent's experiments (Photography), XVIII, a 848
St. Florian, Austria, town (Libraries), XIV, b 549
St. Francis lake (St. Lawrence), XXI, *a* 190; river (Quebec), XX, a 172
——, river (Mississippi), XVI, b 542
St. Francis Sheltering the Universe (Rubens), XXI, b 49
ST. GALL, canton, XXI, b 177; (Switzerland), XXII, b 814, b 815, 816, *a* b 818, a 819, a 824, *b* 832, a b 833; town, XXI, b 177–8; (Switzerland), XXII, b 816, *b* 823, a 825, b 828, *a* 829, a 830, b 831; (Libraries), XIV, a 550
—— Abbey (Ill.), I, a 18–9; (Cloister), VI, a 36; (Hymns), XII, *b* 618
St. Gaudens, town (Garonne), X, a b 75
St. Gelais, Mellin de, poet (France), IX, b 572; (Ronsard), XX, a 864
St. Genevieve, town (Missouri), XVI, a b 550
—— Bibliothèque (Libraries), XIV, b 524
SAINT-GERMAIN, Comte de, adventurer, XXI, b 178
ST. GERMAIN-EN-LAYE, town, XXI, b 178–9
St. George Bay (Newfoundland), XVII, a b 392, a 394
—— or Saõ Jorge, island (Azores), III, a b 147, a 148, a 149
—— and the Dragon (Mint), XVI, a 504
St. George de Boscherville, sculpture (Pianoforte), XIX, a 73
St. George the Martyr (Crusades), VI, a b 553
——, bank of (Genoa), X, a 141
St. George's, town (Bermudas), III, *a* 518
——, town (Grenada), XI, b 164–5
—— channel (Danube), VI, *b* 721
—— channel (England), VIII, a 195; (Pembroke), XVIII, a 492
—— channel (New Britain), XVII, b 381
—— chapel, Windsor (Bray), IV, b 198; (Windsor), XXIV, b 632, a b 633
—— hall (Liverpool), XIV, a 720
——, Hanover Square, district (London), XIV, a 829, b 830, a 861; in the East, district (London), b 830, a b 842
—— islands (Seal), XXI, *a* 610
St. Giles, district (London), XIV, b 830, a 858
St. Giles and St. James (Jerrold), XIII, a b 644
St. Gobain, town (France), IX, b 460; Company (Glass), X, a 583, a 590, a 591; (Mirror), XVI, b 523
St. Gotthard pass (Alps), I, b 545, *a* 551; (Maggiore), XV, *b* 99; (Switzerland), XXII, b 815, b 820, a 824; (Tunnel) (Ill.), XXIII, b 664; (Switzerland), XXII, b 834
Saint Graal. See GRAIL, The Holy
ST. HELENA, island (Plan), XXI, a 179–80; (Africa), I, a 237, b 243; (Atlantic Ocean), III, b 17; (Birds), b 658; (Napoleon I.), XVII, b 231–2; (Observatory), a 737; (Meteorology), XVI, b 173, a 178–9, b 180–1, a 186
——, mountain (California), IV, a 618
St. Helens, Mount (America), I, b 595; (United States), XXIII, a 849, a b 851
ST. HELEN'S, town, XXI, a 180; (Lancashire), XIV, a b 254
—— Isle (Montreal), XVI, a 820
St. Helier, town (Jersey), XIII, a 646
St. Herbert's island (Cumberland), VI, b 617
SAINT-HILAIRE, Auguste de, botanist, XXI, b 180; (Morphology), XVI, b 871
——, Étienne and Isidore Geoffroy. See GEOFFROY ST. HILAIRE
St. Hubert, Dürer's (Engraving), VIII, *a* 393
St. Hubert reformatory (Prison Discipline), XIX, *a* 778
St. Ildefonso, painting (Rubens), XXI, b 50
ST. IVES, town and bay, XXI, b 180; (Fisheries), IX, a b 221–2
St. Jacob, battle of, 1444 (France), IX, a 486
St. Jago, city (Santiago), XXI, b 314–5
——, island (Cape Verd Islands), V, a b 46, a b 47
St. James market (London), XIV, b 837
St. James's island (Gambia), X, b 54
—— Palace, London, XIV, a 849; Park, *a* 833, a 859
St. Jean, Isle of (Prince Edward Island), XIX, b 758, b 760
ST. JEAN BAPTISTE, Canada, town, XXI, b 180
St. Jean d'Acre, town. See ACRE
ST. JEAN D'ANGÉLY, town, XXI, b 180–1
—— de Luz, town (Pyrénées), XX, *b* 132
St. Jerome, painting (Correggio), VI, b 387; (Dürer), VII, b 481, a 482
St. Johann, town (Saarbrücken), XXI, *b* 130
ST. JOHN, New Brunswick, town (Plan), XXI, a 180–2; (New Brunswick), XVII, b 383, a b 384; (Insurance), XIII, a 175
——, town (Quebec), XX, a b 174
——, island (Denmark), VII, *b* 73
——, Bayle, traveller, XXI, b 182
ST. JOHN, Charles William George, naturalist, XXI, a 182
——, Henry, statesman. See BOLINGBROKE
ST. JOHN, James Augustus, traveller, XXI, a b 182
SAINT JOHN OF JERUSALEM, Knights of, XXI, b 182–4. See Knights of St. John
——, Oliver (Bacon), III, a b 177
——, Sir Oliver, engineer (Persia) XVIII, b 629, a b 630, a b 631
Saint John and St. Peter, painting (Dürer), VII, b 482
St. John in the Wilderness, statue (Michel-Angelo), XVI, a 239
St. John's, town (Antigua), II, a 113
ST. JOHN'S, Newfoundland, city, XXI, b 184–5; (Newfoundland), XVII, b 391, a b 392, a 393, a *b* 394, b 395
——, town (Porto Rico), XIX, b 547
—— bread (Bean), III, a 398
ST. JOHNSBURY, Vermont, town, XXI, a 185
St John's college, Cambridge, IV, a 646; (Libraries), XIV, b 519, a 543; (Universities), XXIII, b 908
—— college, Oxford, XVIII, a b 101; (Libraries), XIV, a 519, a 546
—— Gate, Clerkenwell (St. John of Jerusalem), XXI, a 184
—— lake (Quebec), XX, b 171, a 172
—— port (Seal), XXI, *a* 609
—— river (Florida), IX, a b 296
—— river (Maine), XV, b 300; (New Brunswick), XVII, a 382; (St. John), XXI, a 181
—— Territory (Cape Colony), V, b 37, b 42, *a* 43
—— Wood, district (London), XIV, b 827
—— wort (Botany), IV, a 78, a 118
ST. JOSEPH, Missouri, city, XXI, a 185
—— river (Indiana), XII, b 852
"St. Julien" (Horse), XII, b 208, a b 209
St. Junien, town (Vienne, Haute-), XXIV, b 241
ST.-JUST, Antoine Louis Léon, revolutionist, XXI, a 185–6; (Pichegru), XIX, a b 88; (Robespierre), XX, a b 619, a *b* 620, a 621
St. Kevin's bed, cave (Wicklow), XXIV, a 589
ST. KILDA, Hebrides, island, XXI, a 186; (Fulmar), IX, *a* 717; (Jew's Harp), XIII, b 698–9
ST. KILDA, Australia, town, XXI, a 186
St. Kitts, island. See ST. CHRISTOPHER
SAINT-LAMBERT, Jean François de, poet, XXI, a b 186
St. Laurent, convict town (Guiana), XI, a 226
—— du Pont, village (Chartreuse), V, b 376
St. Lawrence, Gulf of (Seal), XXI, b 608, *a* 609, a 610

St. Lawrence, river (Plate IV), XXI, b 186–91
  basin area, a b 191
  canal system, a 187, b 188, a *b* 189, a b 190
  length, b 186–7
  lower lakes system, a 188–9
  Montreal to gulf, b 190–1
  Niagara, a b 189
  Ontario to Montreal and affluents, b 189-90
  upper lakes system, b 186–8
  volume and navigation of, a 191
—— (America), I, b 592, a 593; (Canada), IV, a b 679, a 684, b 686; (Lake), XIV, b 218; (Montreal), XVI, b 820; (Navigation Laws), XVII, a 287; (Quebec), XX, *b* 171; (United States), XXIII, b 840
St. Leger, Sir Anthony, viceroy (Ireland), XIII, a b 269
—— races (Betting), III, b 534; (Doncaster), VII, a 313; (Horse), XII, *b* 188, *a b* 189, b 204, a b 205
St. Léonard, town (Vienne), XXIV, b 241
St. Leonards, town, XXI, b 191; (Hastings), XI, a 457
—— college, St. Andrews (Universities), XXIII, a 899, b 910
—— Forest (Sussex), XXII, *a* 761
St. Leonards, Edward Burtenshaw Sugden, lord chancellor, XXI, b 191
St. Liz, Simon de, soldier (Huntingdon), XII, a 414
St. Lo, town, XXI, a 191-2
St. Louis, Missouri, city (Plans), XXI, a 192-5
  administrative features, b 193–4
  commerce, a b 194
  education and churches, a b 193
  history, a 195
  parks, b 193
  population, b 193
  railways and bridge, b 194–5
  site and plan, a 192–3
  structural features, a 193
—— (Artesian Wells), II, a b 565; (Libraries), XIV, b 553; (Missouri), XVI, b 549, a b 550; (Newspapers), XVII, *a* 447; bridge (Bridges) (Plate XVIII), IV, a 282, b 305–6; (Diving), VII, a 258, b 260; (Iron), XIII, b 364
St. Louis, Senegambia, city, XXI, a 192; (Senegambia), a *b* 694, *a* b 695; (Senegal), *b* 692, note, a 693; (Africa), I, b 240
—— lake, Canada (St. Lawrence), XXI, *a b* 190
—— rapids. See Lachine
——, river (Minnesota), XVI, b 498; (St. Lawrence), XXI, *b* 186, note, b 187
St. Loup, volcanic cone (Herault), XI, a 639
St. Lucia, island, XXI, a b 195; (Moore, Sir J.), XVI, b 830
—— bay, lagoon (Zululand), XXIV, b 866, b 867
St. Luke's hospital, London (Insanity), XIII, b 116
St. Malo, town, XXI, b 195–6; (Ille-et-Vilaine), XII, *a* 742
St. Marceau, suburb (Orleans), XVII, b 874
St. Marguerite, island (Cannes), IV, b 712
St. Marie's island (Madagascar), XV, a 169
St. Mark, painting (Titian), XXIII, a 444
St. Mark's church, Venice (Architecture), II, b 369, b 380-1, b 381, a 383, b 398, b 399; (Crypt), VI, a 592; (Dandolo), a 707; (Fine Arts), IX, a 178, (Glass), X, a b 579; (Metal-Work), XVI, a 77, a 79, a 80; (Mosaic), b 879, b 880, a 881; (Mural Decoration), XVII, b 41; (Niello), b 507; (Venice) (Plan), XXIV, a 154, a 155, a 160, a 162–5, b 169; library (Libraries), XIV, b 529, a 551
——, town (Hayti), XI, b 485
Saint Mars, M. de, governor (Iron Mask), XIII, a 370–1, note, b 371
St. Martin, West Indies, island, XXI, a 196
——, Antoine Jean, orientalist (Syriac Literature), XXII, b 873 note
Saint-Martin, Louis Claude de, philosopher, XXI, a b 196
——, Vivien de, geographer (Gætulia), X, b 14; (Hanno), XI, a b 398
St. Martin Dividing his Cloak, painting (Van Dyck), XXIV, a *b* 67
St. Martin's island (Scilly Islands), XXI, b 486
St. Mary, cape (Madagascar), XV, b 168
——, cape (Senegambia), XXI, b 693
——, island (Azores), III, a b 147, a 148, a 149; (Gambia), X, b 54
St. Mary's bay (Newfoundland), XVII, a 392
—— Hall (Coventry), VI, b 470
—— island (Scilly Islands), XXI, b 486, a 487
—— loch (Selkirk), XXI, a 670
—— river (Florida), IX, b 296; and town (Georgia), X, a 391, a *b* 392, a 394
—— river (Lake), XIV, b 218; (St. Lawrence), XXI, *a* 187
St. Mathieu, cape (France), IX, b 445
St. Maurice, monastery (Valais), XXIV, a 37
——, river (Quebec), XX, b 171, b 172, a 174; (St. Lawrence), XXI, b 190; (Three Rivers), XXIII, a 340
St Maurice and Mary Magdalen (Grunewald), XI, a 200
St. Maur-sur-Loire, monastery, XXI, b 196
St. Médard abbey (Soissons), XXII, b 260
—— cemetery, Paris (Jansenism), XIII, a 577
St. Michael and St. George, order (Knighthood), XIV, a b 125
St. Michael's bay (Channel Islands), V, *a* 340
——, cave (Gibraltar), X, a b 521
——, island (Azores), III, a b 147, b 148–9
—— mount, castle (Cornwall), VI, b 378, a 379
St. Michel, province (Russia), XXI, a 76
——, town (Ushant), XXIV, a 21
——, Order of (Mont St. Michel), XVI, b 823
St. Mihiel, town (Mense), XVI, b 214
St. Moritz lake and springs (Engadine), VIII, a 193, a 194
St. Murgen (Mermaids), XVI, a 45
St. Nazaire, town, XXI, b 196–7; (Loire Inférieure), XIV, *b* 817, *a* 818
—— lagoon (Pyrénées), XX, a 134
St. Nectaire, spa (Puy de Dôme), XX, a 126
St. Nicholas, town, XXI, a 197
—— Mole, town (Hayti), XI, a 485, b 486
St. Omer, town and fortress, XXI, a b 197; (Pas de Calais), XVIII, a 345
Saintonge, province, XXI, b 197
St. Ouen, district, XXI, b 197
St. Pancras, parish (London), XIV, a 829, *a* 830, a b 831, a b 842; station (Railway), XX, b 244–5
St. Patrick, Order of (Knighthood), XIV, a 125
St. Patrick's Bell, III, a 463; library, Dublin (Libraries), XIV, b 522; Purgatory (Donegal), VII, b 313
St. Paul, island, XXI, b 198–9; (Indian Ocean), XII, *b* 860
—— island (Nova Scotia), XVII, a 616
St. Paul, Minnesota, city (Plan), XXI, b 197-8; (Minnesota), XVI, b 498, b 499, a 500; (United States), XXIII, b 841
St. Paul, oratorio (Hymns), XII, a 621; (Mendelssohn), XVI, *a* b 12
St. Paul and St. Mark, painting (Dürer), VII, b 482
St. Paul de Loanda (Angola), II, b 41; (Loanda), XIV, a b 748
St. Paul's cathedral, London (Architecture) (Plates XXII, XXIII), II, b 383, b 387, a 388, b 405, *b* 406, a 407, 413, a 415; (Consistory), VI, a 261; (Crypt), b 591; (Dome), VII, a 301, *a* 302; (Libraries), XIV, a 516; (London), *a* 827, a 837, a 844, a b 847, *a* 850, a *b* 853, a 854, a b 858, b 859, a 862; (Organ), XVII, a 859, b 861; (Sculpture), XXI, a 587, a b 588; (Serjeant-at-Law), b 714 note; (Thornhill), XXIII, a 335; (Wren), XXIV, b 724–5
—— church, Rome (Basilica) (Ill.), III, *a* b 358, a b 359, a 360
—— cross (London), XIV, a 847
St. Paul's Rocks, islands, XXI, a b 199
—— school (London), XIV, a *b* 844; (Colet), VI, a 126
St. Peter, Martyr, painting (Titian), XXIII, a 444
St. Peter Port, town, XXI, b 199; (Guernsey), XI, b 219
St. Petersburg, government, XXI, b 199; (Russia), a 76, b 81, *a b* 83, b 85, b 94
St. Petersburg, city (Plan), XXI, b 199-205
  buildings and streets, b 200-2, a 204
  climate, b 200
  communications, internal, a b 200
  educational features, a 203
  finances, a 204
  history, a 204–5
  industrial characteristics, b 202, a b 203
  influence of, a 205
  islands and suburbs, a 202
  population and vital statistics, a b 202
  press, b 203
  railways, a 204
  scientific and art institutions, a b 203
  topographical features, b 199-200, a 201, a 202
—— (Academy), I, a 70–1, a 75; (Architecture), II, a 387; (Libraries), XIV, b 532, a 552; (Newspapers), XVII, a 423, b 441, note; (Observatory), XVII, b 734; (Volga), XXIV, a 299, *a* 301; Academy of Sciences I, a 70–1, a 75; (Aëronautics), b 175; declaration, 1881 (International Law), XIII, a b 201, a 203; gallery (Schools of Painting), XXI, b 466; hermitage (Neer, Van der), XVII, a 324; museum, XXI, b 203; (Gems), X, b 124
St. Peter's Church, Rome (Alexander VII.), I, b 433; (Architecture) (Plate XXII, XXIII), II, a 380, a *b* 383, a 384; (Basilica) (Ill.), III, *a b* 358–9; (Bramante), IV, b 192–3; (Dome), VII, b 301, a 302; (Giotto), X, b 544; (Metal-Work), XVI, a 80; (Michel Angelo), b 239, a 240, b 243; (Rome), XX, *a* 826, note, b 848, a 858, b 859; (Sculpture), XXI, *a* 583, note, a b 597; (Tiles), XXIII, a 415; (Wren), XXIV, a 725, note
—— college (Cambridge), IV, a 646
—— lake (Quebec), XX, *a* 172; (St. Lawrence), XXI, b 190
—— school (London), XIV, a *b* 844
St. Pierre, island, XXI, a 206; (France), IX, a 465; (Newfoundland), XVII, a 392
——, town (Réunion), XX, a 507
——, astronomer (Navigation), XVII, b 263

St. Pierre, count of (Prince Edward Island), XIX, b 760
SAINT-PIERRE, Charles Irénée Castel, Abbé de, author, XXI, a b 205
——, Germain de, botanist (Grasses), XI, b 49
SAINT-PIERRE, Jacques Henri Bernardin de, author, XXI, b 205–6; (France), IX, a 586, a 588; (Havre), XI, b 470, b 471
ST. PIERRE LÈS CALAIS, suburb, XXI, a 206; (Calais), IV, b 578; (Pas de Calais), XVIII, a 345
—— de Chartreuse, village, V, b 376
St. Pietersburg, town (Holland), XII, a 64, a 71
ST. POL DE LÉON, town, XXI, a b 206
ST. QUENTIN, town, XXI, b 206–7; (Coligni), VI, a 127; battle of, 1557 (France), IX, a 493; (Henry II., France), XI, b 597
—— museum (Tour), XXIII, a 518
St. Raphael, village (Frejus), IX, b 674
St. Réal, César Vichard, Abbé de, writer (France), IX, b 580
Saint-Remy, pseudonym (Morny), XVI, a 856
St. Riquier monastery (Libraries), XIV, a 513
St. Robert, count de, chemist (Gunpowder), XI, b 288, a 295
St. Roche, town (Quebec), XX, b 174
St Romuald relating his Vision, painting (Sacchi), XXI, b 138
St. Ronan's Well, novel (Scott), XXI, b 575
Saint-Ruth, general (Ginckell), X, *a* 538
St. Salvador, island. See San Salvador
St. Sampson, town (Guernsey), XI, b 219–20
St. Scholastica, Subiaco (Cloister), VI, a 36
St. Sebastian, fortress (Wellington), XXIV, *b* 524
——, town (Mozambique), XVII, b 13
St. Sebastian, picture (Baccio), III, a 168
St. Serf (Dysart), VII, b 505
ST. SERVAN, town, XXI, a 207; (St. Malo), *b* 195, *a* 196
St. Sever, faubourg (Rouen), XXI, *b* 15
Saint Simon, Claude de, duc de, XXI, b 208, a 209
SAINT-SIMON, Claude Henri, comte de, socialist, XXI, a 207–8, b 209; (Bazard), III, a 397; (Buchez), IV, b 372; (Comte), VI, b 204–5; (Socialism), XXII, a 216, *b* 217, *a* b 219, *a* 220, a 229, a 230
SAINT-SIMON, Louis de Rouvray, duc de, XXI, b 208–10; (Dubois), VII, b 434; (History), XII, a 23
St. Simon's island and sound (Georgia), X, a 391, b 392, b 393, *a* 394
St. Sophia, mosque, plan (Constantinople), VI, b 271–3; (Justinian I.), XIII, a 805; (Niello), XVII, b 507
St. Stephen's chapel, Westminster (Crypt), VI, b 591; (Mural Decoration), XVII, a b 53
St. Sulpice, Seminary of (Montreal), XVI, a 821
St. Theodule, pass (Switzerland), XXII, *b* 815
ST. THOMAS or São Thomé, African island and town, XXI, b 210–1
ST. THOMAS, West Indies, island, XXI, a b 210; (Denmark), VII, *b* 73
St. Thomas Aquinas, altar piece (Zurbaran), XXIV, a 869
St. Thomas Hospital, London, XII, a b 315, b 317, a 318, b 320
St. Ubes, town (Sétubal), XXI, a 730
St. Valery, town (Seine Inférieure), XXI, *a* 657; (Somme), XXII, b 274
St. Venant, de, physicist (Elasticity), VII, b 701, note, b 702, *b* 703, *b* 704
St. Veran, village (Briançon), IV, b 247
St. Victor, monastery (Hymns), XII, a *b* 618; (Mysticism), XVII, a b 139
SAINT-VICTOR, Paul de, critic, XXI, a 211
——, Richard of. See RICHARD
St. Vincent, cape. See Cape St. Vincent
—— gulf (South Australia), XXII, a 297, b 300
ST. VINCENT, West Indies, island, XXI, a b 211
St. Vincent, Bory de, geologist (America), I, b 602; (Réunion), XX, a b 506 note
ST. VINCENT, Sir John Jervis, earl, admiral, XXI, b 211
—— Pinzon, river (Guiana), XI, a 225
ST. VITUS'S DANCE, disease, XXI, b 211–3; (Insanity), XIII, a 108; (Iron, Therapeutics), a 370: (Pathology), XVIII, b 400–1; (Tarantula), XXIII, a 66
Saints or People of God (Paul), XVIII, a 438; invocation of (England, Church of), VIII, b 336. See SAINT
Saints, Lives of the (Butler), IV, *b* 518
——, *Lives of* (Syriac Literature), XXII, b 868–9, a 877
——, Mohammedan worship of (Abyssinia), I, a 63; (Afghânistân), a 213; (Shi'ites), XXII, b 698; (Sunnites), a 697
——, recognition of (Roman Catholic Church), XX, a 646
Saint's Tragedy (Kingsley), XIV, a 90, *a* 91
Saïs, ancient town (Egypt), VII, b 666
Saison river (Pyrénées), XX, b 132
Saites, measure (Weights and Measures), XXIV, a 513
Saithe, fish (Fisheries), IX, *a* 229
Sáividábád, town (Tiflis), XXIII, b 411
Saivism, form of Buddhism (Lāmāism), XIV, a 229
Saixe or Zax, knife (Building), IV, a 448
Saka, tribe (Baluchistan), III, a 259
——, Hindu era (Chronology), V, b 624; (India), XII, a 829, note, a 830
Sàkalàva, peoples (Madagascar), XV, a 172, a 173, *b* 174; (Nossi-bé), XVII, b 610, a 611
Sâkalaya, phonologist (Sanskrit), XXI, a 290
Sakaria river (Asia Minor), II, b 618
Sakars, tribe (Turks), XXIII, a 703
Sakata-gawa, river (Japan), XIII, b 581
Sâkatâyana, grammarian (Sanskrit), XXI, a 306
Sakatu, town (Africa), I, a 243. See SOKOTO
Saké, beverage (Japan), XIII, a 584
Sakei, race (Malay Peninsula), XV, b 325, note
Sakeinski, Ivan Kukuljevic, author (Servia), XXI, a 724
Saker, bird (Falcon), IX, b 4
Sakhalin, island. See SAGHALIN
Sakháwí, bibliographer (Tabarí), XXIII, a 9
Sakhis (Hindustani Literature), XI, a 754
Sakhondo mountain (Transbaikalia), XXIII, a 542
Sakhra, stone (Temple), XXIII, a b 185
Saki or Kirni river (Amritsar), I, a 682
Sakis (Ape), II, a 135
Sákiyeh, water-wheel (Egypt), VII, a 614
Sakkara Pyramids, XX, b 128, a b 129, *a* 130; (Architecture), II, b 338; (Egypt), VII, a b 634, a 670
Sakmara, river (Uralsk), XXIV, b 10
Saksaul, tree (Turkestan), XXIII, b 676–7, note
Sāktas, sect (Brahmanism), IV, b 187, a 189
Sákuntalá, (Drama), VII, b 343, b 344, a 345, a 346; (Sanskrit), XXI, a 299, note
Sakuru mountains (Borneo), IV, a 50
Sakya (Lhasa), XIV, b 498, b 500, a 501; monastery (Tibet), XXIII, b 361, b 364, b 367
Sakya-Jong-chu, river (Tibet), XXIII, b 361
Sakya Muni, Buddha (Barlaam and Josaphat), III, *a* b 324; (Oudh), XVIII, b 76. See Gautama
Sākyas, tribe (Buddhism), IV, a 381, a 382
Sal, island (Cape Verd Islands), V, a 47
——, tree (Forests), IX, *a* 356; (Maimansinh), XV, a 297
Sala river (Mauretania), XV, b 643
Salabut Jung, Nizam (Circar), V, a 688
Salade, headpiece (Helmet), XI, a 569
Saladero prison (Prison Discipline), XIX, b 782
Saladin or Saláh al-Din, sultan (Ascalon), II, a 591; (Assassin), b 632; (Bohaddin), III, *a* 747; (Crusades), VI, a b 554, a 555; (Egypt), VII, b 615, *a* 653–4; (Mohammedanism), XVI, b 610; (Templars) XXIII, b 176–7
—— tithe (Taxation), XXIII, b 94
Salado, battle of, 1340 (Alphonso XI.), I, b 542; (Spain), XXII, a 334
Salaha, town (Gold Coast), X, b 672
Saláh al-din. See Saladin
Salair mountains (Tomsk), XXIII, a 466
SALAMANCA, province, XXI, a b 213; (Spain), XXII, b 309, b 312, a 317, b 318
SALAMANCA, city, XXI, b 213–4; battle, 1812 (Wellington), XXIV, *a* 524; university of (Ferdinand III., Castile), IX, b 71; (Palencia), XVIII, b 172; (Universities), XXIII, *a* 895
Salamander, fabulous animal (Phœnix), XVIII, b 824; (Prester John), XIX, b 734; (Salamandra), XXI, a 215, note
SALAMANDRA, reptile, XXI, a 214–5; (Reproduction), XX, b 422, a b 425
Salamandrida, group (Amphibia), I, b 658 note, b 665, *a* 666, *a* 667, a *b* 668, a 668*, b 671, a b 672, *a b* 673, a 675, a b 676
Salámát river and race (Soudan), XXII, b 290, b 292
SALAMIS, island and city, XXI, a b 215; (Attica), III, b 52; (Greece), XI, b 75, b 86, a 87, a 90; (Solon), XXII, a 267; (Themistocles), XXIII, a b 270; battle of, 480 B.C. (Ægina), I, a 164; (Æschylus), a b 188; (Aristides), II, b 444; (Artemisia), b 563; (Finance), IX, b 150; conquest of (Pisistratus), XIX, b 139 note; *Sea fight at*, painting (Kaulbach), XIV, a b 19
——, Cyprus, town, XXI, b 215; (Cyprus), VI, *b* 559, *a b* 660, *a* 661; (Numismatics), XVII, b 665
Sal Ammoniac, I, a b 650; (Camel), IV, a 651; (Molecule), XVI, b 644–5; (Nitrogen), XVII, b 530
Salanga, island (Malay Peninsula), XV, b 323
Salanx, genus (Ichthyology), XII, b 717–8, a 732; (Salmonidæ), XXI, a 232, b 234
Salapia, ruins (Cerignola), V, b 300
Salaria, Via (Rieti), XX, a 567
Salarian bridge (Bridges) (Ill), IV, a b 297
Salaries, Admiralty, I, a b 143, b 145, b 146, *a b* 147; official (Finance), IX, b 158
Salas, sea (Bornu), IV, b 54
Salassi, tribe (Liguria), XIV, a 646
Salatiga, town (Java), XIII, a 617
Salatis, king (Egypt), VII, b 637

- Salaverry, Carlos Augusto, poet (Peru), XVIII, a 689
- ——, Felipe Santiago, general (Peru), XVIII, a 692, note
- Salawatti, kingdom (New Guinea), XVII, a *b* 399
- Salazie, cirque or basin (Réunion), XX, *a* 506
- Salbacum, Mount (Caria), V, *b* 90
- Salda, town (Bougie), IV, a 155
- Saldanha bay (Cape Colony), V, *a* 39
- ——, Oliveira e Daun, João Carlos, duke of (Miguel), XVI, b 302; (Portugal), XIX, *a b* 568, a 569, a 570
- SALE, district, XXI, b 215
- SALE, contract, XXI, b 215-20
  - compulsory sale, a 219
  - English law, a 216
  - judicial sale, a 219
  - personalty, b 217-9
  - persons not owners, a b 219
  - preëmption, b 219
  - real estate, a 216-7
  - recapitulation, b 218
  - remedies, a b 217, b 218
  - Roman law, b 215-6
  - Scotland, b 219
  - United States, b 219-20
  - warranty of personalty, a 218
- —— (Settlement), XXI, b 723; (Warranty), XXIV, b 393; Bill of, III, a 583; (Registration), XX, b 356; consensual (Roman Law), b 716, a b 717, b 718-9; taxes on (Taxation), XXIII, a 95
- ——, Antoine de la, novelist (Romance), XX, b 675
- ——, George, translator (Mohammedanism), XVI, b 628
- Salée, La Rivière (Gaudeloupe), XI, b 203
- —— bay (Sumbawa), XXII, a 675
- SALEIYER, island, XXI, a 220
- Salem, town (Jerusalem), XIII, b 646 note; (Melchizedek), XV, a 848
- SALEM, India, district and town, XXI, a b 220; (Madras), XV, b 186
- SALEM, Massachusetts, city, XXI, b 220-1; (Schools), a b 903; (Hawthorne), XI, b 479; (Libraries), XIV, b 553; (Massachusetts), XV, a 618; (Peters), XVIII, b 715; (United States), XXIII, a 788; (Witchcraft), XXIV, a 656
- SALEM, New Jersey, town, XXI, a 221; (Penn), XVIII, b 504
- SALEM, Oregon, city, XXI, a b 221
- Salens, M'lle de (Pigault-Lebrun), XIX, a 93
- Salensky, anatomist (Tunicata), XXIII, a 648
- *Sale of Lives*, dialogúe (Lucian), XV, a 47
- SALEP, drug, XXI, b 221; (Orchids), XVII, b 841
- Salerne, François, naturalist (Humming-Bird), XII, b 372 note; (Ornithology), XVIII, b 9, a 10
- SALERNO, city, XXI, b 221-2; school of (Medicine), XV, *a b* 816; (Surgery), XXII, a 710; (Universities), XXIII, a 892
- ——, Giuseppe Ricca (Political Economy), XIX, *b* 408
- Sales, Francis de. See FRANCIS St. of Sales
- Salford, town (Libraries), XIV, a 520, a 546; borough (Manchester), XV, *a b* 467, a 468, *a b* 469, a *b* 470, *b* 471
- Salghyr, river (Crimea), VI, a 518
- Salian Franks, tribe, IX, *b* 636, a 637; (Germany), X, *a* 428-31. See SALIC LAW
- Saliany, town (Transcaucasia), XXIII, b 547
- Salicaria, genus (Whitethroat), XXIV, b 584
- Salicetti, Christopher, politician (Napoleon I.), XVII, a b 200, a b 201, a 202
- SALICIN, drug, XXI, a b 222; (Fermentation), IX, b 84; (Rheumatism), XX, a 532
- Salicional or salicet stop (Organ), XVII, a 857
- SALIC LAW (Map), XXI, b 222-7
  - *Alamannic code*, a 225
  - *Anglo-Saxon code*, b 225-6
  - *Bavarian code*, a 225
  - *Burgundian code*, a 226
  - *Chamavian code*, a 225
  - code Salian, a 223-4
  - contents of Salian law, a b 224
  - enumeration of barbarian codes, b 222
  - *Lombardic code*, a 227
  - recensions, Salian, b 223-4
  - *Ripuarian code*, b 224-5
  - Salian Franks, b 222-3
  - *Saxon code*, b 225
  - *Theodorici edictum*, a 227
  - *Theodosian code*, b 226-7
  - *Thuringian code*, b 225
  - *Visigothic code*, a b 226
  - *Welsh code*, a b 227
- —— (England), VIII, a 286; (Ferdinand VII.), IX, a 74; (France), b 467; (Franks), a 637; (Germany), X, a 428; (Primogeniture), XIX, a 756; (Women), XXIV, b 672
- Salicylate of sodium (Salicylic Acid), XXI, a 228
- SALICYLIC ACID, XXI, b 227-8; (Chemistry), V, b 451, a 495; (Milk), XVI, a b 317; (Nutrition), XVII, b 690; (Perry), XVIII, a 569; (Preserved Food), XIX, b 727
- Salient angles (Fortification), IX, b 375
- SALIERI, Antonio, composer, XXI, a b 228
- Saligenol, chemical (Salicin), XXI, b 222
- Salih Negm-ed-Deen Eiyoobes, sultan (Egypt), VII, a 655
- Salii, priests (Mars), XV, a b 577
- Sálik of Damascus, sultan (Templars), XXIII, *a* 178
- Salim. See Selim
- Salimbeni of Parma, friar (Carpini), V, a 117
- Salina, island (Lipari Islands), XIV, a 689
- Salina formation (Geology), X, a 301
- Salinas, town (Guipuzcoa), XI, a 235
- Saline springs. See Salt Springs
- Salinity of seas (Geology), X, b 197-8; (Sea-Water) (Ill.), XXI, b 644-5; of the Baltic, III, b 256; of Black Sea, a b 693; of Caspian Sea, V, b 155-6, a 158; of Dead Sea, VII, a 4; of Mediterranean Sea, XV, a b 830, a 831; of Pacific Ocean, XVIII, b 123-4; of Red Sea, XX, a 330; estuarian (Sea), XXI, a 606
- Salinometer (Hydrometer), XII, b 573
- Salins, town (Jura), XIII, b 790, a *b* 791
- Salisburia, tree. See Gingko
- SALISBURY or New Sarum, city, XXI, b 228-9; (Newspapers), XVII, b 432; (Wilts), XXIV, b 625, a *b* 626
- ——, Margaret, countess of (Cromwell, Thomas), VI, *a* 536; (England), VIII, a 301; (Ware), XXIV, a 391; (York), b 790
- Salisbury, John of. See JOHN of Salisbury
- ——, John Montacute, earl of (Christine de Pisan), V, a 611
- ——, Richard Nevil, earl of (Warwick), XXIV, b 401, *a* 402
- ——, Robert Cecil, earl of V, b 245-6; (Bacon), III, *b* 174, a b 176; (Elizabeth), VIII, a 135; (Jonson), XIII, *a* 753; (Scotland), XXI, b 531, a 532
- ——, plain (Stonehenge), XXII, b 604; (Wilts), XXIV, *a* b 625
- Salis-Seewis, Johann Gaudenz, poet (Switzerland), XXII, b 836
- Saliva (Mammalia), XV, b 364-5; (Nutrition), XVII, a 691-2, a 694
- Saliváhana, king (India), XII, a 829, a 830; era of (Chronology), V, a 624
- Salivary duct (Haller), XI, a 354; glands (Digestive Organs), VII, a b 193; (Horse), XII, b 183; (Hymenoptera), a 610; (Mammalia), XV, b 364-5; (Mollusca), XVI, a 702; (Nutrition), XVII, b 688, a b 691-2
- Salivation (Mercury), XVI, b 39, a 40
- Salivi, race (Indians), XII, b 868
- Salix or willow (Botany), IV, b 102; (Willow) (Ill.), XXIV, a 620-1
- Sallee, town (Morocco), XVI, a 857; (Rabát), XX, b 198
- Salles d'asile (Paris), XVIII, b 285
- Sallo, Denis de, counsellor (Periodicals), XVIII, b 549
- SALLUST or Caius Sallustius Crispus, historian, XXI, b 229-30; (Brosses), IV, b 335; (Catilina), V, a 208; (Jugurtha), XIII, a 777; (Latin Language), XIV, b 334, note; (Libraries), b 554; (Quintilian), XX, a b 194; (Roman Literature), a b 740
- Sallyes or Salluvii, tribe (Italy), XIII, b 455; (Liguria), XIV, b 646
- Salma, measure (Weights and Measures), XXIV, *a* 518
- *Salmagundi* (Irving, W.), XIII, a 383; (Paulding), XVIII, a 443
- SALMASIUS, Claudius, classicist, XXI, a 230-1; (Augustan History), III, b 65, a 66; (Heinsius, N.), XI, b 561; (Milton), XVI, b 344, b 345
- Salmeron, Alfonso, priest (Jesuits), XIII, a b 663, a 664
- Salmiac (Mineralogy), XVI, a 400
- Sal microcosmicum (Phosphorus), XVIII, a 832
- Salmo, genus (Hindú Kúsh), XI, a 749; (Ichthyology) (Ill.), XII, b 674, b 698, a b 703, a 707, *b* 713, a 732; (Salmonidæ), XXI, a b 231, a b 232-4, a b 235, a 236-8; alpinus, b 233; brachypoma, a 233; cambricus, a 233, b 235; colii, a 234; fario, a *b* 233, b 235-6, note, *a* 237; ferox, b 233; gallivensis, a b 233; grayi, a 234; irideus, b 233; killinensis, b 233; levenensis, a 233, a 236, note; namaycush, b 233; nigripinnis, b 233; perissii, a 234; salar, b 232, a 235, a 236, note, *a* b 237; stomachicus, b 233; trutta, b 232-3, b 235; umbla, a 234; willughbii, b 233-4
- Salmon, fish (Caspian Sea), V, b 156; (Hereford), XI, b 652; (Newfoundland), XVII, b 393; (New Zealand), a 483, note; (Northumberland), b 581; (Parr), XVIII, a 326; (Salmonidæ), XXI, *b* 232, a 236-8; canneries (Oregon), XVII, b 848; (Fisheries), IX, a 235; (Pisciculture), XIX, *b* 135, b 136, a *b* 137, a b 138; (Transbaikalia), XXIII, a 543; (Washington), XXIV, a b 407; -fishing (Angling), II, a 36-7; -flies (Angling), a b 37, a 41; -trout (Angling), a 38
- —— disease (Parasitism), XVIII, a 271, note
- —— river and mountains (California), IV, b 618; (Idaho), XII, a 736; (United States), XXIII, b 848
- ——, George, mathematician (Geometry), X, b 366; his *Logarithmische Tafeln* (Tables), XXIII, a b 12, b 15, a 17, a b 18
- Salmone, town (Elis), VIII, b 130
- Salmoneus, king, Elis (Gunpowder), XI, b 282
- SALMONIDÆ, family of fishes, XXI, a 231-8
  - argentina, genus, a 232, b 234
  - breeding, a b 235
  - coregonus, genus, a 232, a b 234, a 236
  - culture of, a b 237

SALMONIDÆ, *continued*
  - disease, salmon, b 237-8
  - distribution, natural and artificial, b 231, a 237
  - fishery legislation, a 236-7
  - general characteristics, a b 231
  - habits, b 235-6
  - literature, a 238
  - minor genera, a 232, b 234
  - osmerus or smelt, genus, a 232, a 234, a 236
  - salmo, genus or salmon and trout, a b 232-4
  - synopsis of genera, a 232
  - thymallus or grayling, genus, a 232, b 234, a 236

—— (Ichthyology), XII, *b* 677, b 696, a 698, b 701, a b 702, a b 707, a 708, a b 709, b 713, a b 714, a 716, b 717, a 718, a 723, a 732; (Norway), XVII, b 595
Salo, town (Garda), X, b 68
Salobreña, village (Motril), XVII, a 10
SALOME, queen, Judæa, XXI, a 238; (Israel), XIII, a 434
——, wife of Herod Philip, XI, b 675; (Israel), XIII, a 436
Salomon, Johann Peter, violinist (Haydn), XI, a *b* 482
—— ben-Gebirol, poet. See AVICEBRON
Salomons, David, mayor (Jews), XIII, *a* 695
Salon (Heine), XI, a 559
Salon, French (Rambouillet), XX, b 276-7; (Recamier, Mme.), a 322
—— river (Marne, Haute-), XV, a 569
Salona, bay (Greece), XI, b 74
——, city (Spalato), XXII, b 380-1
SALONICA or Saloniki, city, XXI, a 238-9; Opium, XVII, *b* 811
Saloon-keepers and politics (Tammany Society), XXIII, a 921
Salop, county. See SHROPSHIRE
——, town. See SHREWSBURY
Salors, tribe (Merv), XVI, b 48; (Transcaspian), XXIII, a 545; (Turks), a 783
Salpa, genus of Tunicata (Ill.), XXIII, a 655-6
Salpetrière, hospital (Insanity), XIII, b 116; (Paris), XVIII, b 288
Salpidæ, family of Tunicata (Ill.), XXIII, a 655-6
Salpingœca (Protozoa) (Ill.), XIX, b 860, a 882, a 883
Salpinx, Greek Trumpet, XXIII, a 630
Salses, volcanoes (Geology), X, b 223, b 224
SALSETTE, island, XXI, a 239; temple of (Teak), XXIII, a 111 note
Salsify, plant (Horticulture), XII, a 300; calyx of (Botany) (Ill.), IV, b 118
SALT (Ill.), XXI, b 239-46
  - beds, distribution of, a 241-2
  - brine. factory, a 245
  - British manufacturing, b 242-3, a 244-5

SALT, *continued*
  - commercial varieties, b 240, *b* 243, a 245
  - composition of rock salts, 243
  - composition of sea salts, 241
  - European, continental manufacturing, a 244-5
  - evaporation process, b 239-41
  - evils of making, b 245
  - history of, b 245-6
  - production, of, b 245, b 246, note
  - purifying, b 240-1
  - rock salt, a 241-5
  - sea salt, b 239-41
  - sources of, b 239
  - treatment of rock salts, a 243-5
  - United States, b 246 note

—— (Antrim), II, b 125; (Austria), III, b 104; (Bengal), a 491; (Balasor), a 235; (Bavaria), b 390; (Bochnia), a 736; (Berchtesgaden), b 504; (Bouches-du-Rhone), IV, a 154; (Brazil), b 201; (Cape Verd Islands), V, a *b* 47; (Cheshire), b 511, b 512; (China), b 555; (Coal), VI, b 44; (Crimea), a b 519; (Dry-Rot), VII, a 426; (Europe), VIII, b 604; (Germany), X, b 408; (Hérault), XI, b 639; (India), XII, b 803-4; (Kansas), XIII, *a* 852; (Lons-Le-Saulnier), XIV, a b 879; (Louisiana), XV, b 22; (Madura), b 194; (Manistee), b 497; (Marutse-Mabunda), a 595; (Meurthe-et-Moselle), XVI, a 213; (Mexico), a 225, b 909; (Michigan), a 248; (Mineralogy) (Ill.), b 383, a 400; (Nitrogen), XVII, b 531; (Oudh), XVIII, a 75, a 76; (Palestine), a 178; (Prussia), XX, *a* 19; (Sahara), XXI, b 159; (Schönebeck), b 449; (Setubal), a 730; (Strassfurt), XXII, b 475; (Turkestan), XXIII, a 677; (Transylvania), a 555; (United States), b 870; (Ural Mountains), XXIV, a 10; (West Virginia), a 546-7
——, crystals of (Mineralogy), XVI, a 361, b 383; diffusion through water (Heat), XI, b 519, b 523; hill (Manresa), XV, b 504; manure (Africa), I, a 226, a 240; (Agriculture), a b 314; (Horticulture), XII, a 239; preparation of pure (Sodium), XXII, a 254; mediæval trade in (Venice), XXIV, a 155; revenue from (India), XII, a b 811, a b 812; tax on (Ceylon), V, b 321; use of (Brewing), IV, a 244; (Butter), a b 526; (Dairy), VI, a b 678, a 680; (Preserved Food), XIX, b 727; (Soap), XXII, b 214; in puddling (Iron), XIII, a 329
——, rock, XXI, b 243-4; (Cardona), V, a 88; Colombia), VI, *b* 138; (Geology), X, a 204, a b 207, a 224, b 312, a b 323; (Kálabágh), XIII, b 835; (Louisiana), XV, b 22; (Ormus), XVII, b 881
——, Henry, traveller (Belzoni), III, a 478
——, Sir Titus (Alpaca), I, *b* 526; (Bradford), IV, b 178, a 179; (Mohair), XVI, a 568
SALTA, town, XXI, b 246-7
Sal tartari, drug (Potassium), XIX, a b 606
Saltash bridge (Bridges) (Ill.), IV, a 294, a 305
Saltburn, town (York), XXIV, a 784, b 785
Salt-cake making (Sodium), XXII, b 255, a 256
—— caravans (Air), I, a 381
SALTCOATS, seaport, XXI, a 247
Salt Desert, Great (Persia), XVIII, a 632, b 642
—— dwellings (Gerrha), X, b 490
Salten Fjord, estuary (Whirlpool), XXIV, a 572
Salter, John William, geologist (Geology), X, b 291, a 295
Salt glaze (Pottery and Porcelain), XIX, b 651
Salticides (Arachnida), II, a *b* 261, a b 262
Saltikoff, novelist (Russia), XXIV, b 779
SALTILLO, town, XXI, a 247
Saltire, the (Heraldry) (Ill.), XI, a b 620
SALT LAKE CITY, Utah (Map), XXI, a b 247; (Mormons), XVI, a b 853; (Utah), XXIV, a *b* 25
Salt Lakes, XIV, b 217, b 222-3; (Africa), I, b 229; (Bessarabia), III, b 531; (Bilma), b 586; (Geology), X, a b 248; (Sodium), XXII, a 253; (Yeniseisk), XXIV, b 779
Salt-mines (Cracow), VI, a 480; (Gas-Lighting), X, a 79; (Hungary), XII, a 378; (Ischl), XIII, b 395; (Kohát), XIV, *b* 136; (Mining) (Ill.), XVI, a b 475, a b 489; (Northwich), XVII, b 587; (Roumania), XXI, a 20, b 22; (Saxony), b 375; (Tibet), XXIII, a 367
Salto, department (Uruguay), XXIV, a 19, a 20
Salt of sorrel (Oxalic Acid), XVIII, a b 95
Salton parish (Haddington), XI, b 323-4
SALTONSTALL, Gurdon, governor, XXI, a b 899
SALTONSTALL, Leverett, judge, XXI, b 899
SALTONSTALL, Sir Richard, XXI, a 899
SALTPETRE or Nitrate of Potash, XXI, b 247; (Agriculture), I, a b 314; (Brazil), IV, b 201; (Explosives), VIII, b 705; (Gunpowder), XI, a b 283, *a b* 284, a 285, b 288-9; (India), XII, a 804; (Mineralogy), XVI, b 412; (Nitrogen), XVII, a b 531
Salt range, hills (Himalaya), XI, b 736; (India), XII, b 773-4; (Jhelum), XIII, b 701, *a* 702; (Punjab), XX, a b 113, a 116; (Sháhpur), XXI, b 771, *a* 772
Salts (Acid), I, b 91, a 92; (Cadmium), IV, b 558; (Chemistry), V, b 413-4, a b 421-3; (Copper), VI, a 312; (Insectivorous Plants), XIII, b 141-2; (Iron), a 286; (Jaborandi), a 540; (Kelp), XIV, b 31; (Lanthanum), a b 292; (Lead), b 378-9; (Lime), a b 654; (Lithium), b 703; (Manure), XV, *a* 514, *b* 515, *a b* 516, *a* b 517, a 518, *a b* 519; alkaline (Iron), XIII, b 316; ammoniacal (Nitrogen), XVII, a 530-1, b 533-4; calcareous (Ivory), XIII, a b 530; cerium (Lanthanum), XIV, a 292; ethereal (Chemistry), V, a 480, b 496-7; iron (Chemistry), a *b* 463; ocean (Sea Water), XXI, b 641, a 642; periodic (Chemistry), V, b 430-1; polyxene (Platinum), XIX, a 204; Potassium, a 608-9; solubility in water (Chemistry), V, b 419-20; of urine (Nutrition), XVII, *a* 703
Salt-springs (Droitwich), VII, a 407; (Halle), XI, *a* 353; (Mineral Waters), XVI, b 452-3; (Reichenhall), XX, b 362; (Staraya Russa), XXII, b 472; (Syracuse), a 857; (Troad), XXIII, a 615
—— swamps (Persia), XVIII, a 632
—— water, composition of (Lake), XIV, 223; (Seawater), XXI, b 641-2
—— wells (Artesian Wells), II, a 565; (Mekong), XV, a 841; (New York), XVII, b 465
Saltwood, town (Hythe), XII, b 636
Salt works (Halle), XI, *b* 346; (Nantwich), XVII, a 181; (Salzkammergut), XXI, a b 253; (Slavyansk), XXII, *a* 164; (Würtemberg), XXIV, b 736
Saluda, mountain and river (South Carolina), XXII, *a* 301
SALUS, goddess, XXI, b 247
Salutaris, province (Phrygia), XVIII, a b 866, notes
Salutation, Dürer's (Engraving), VIII, b 389
SALUTATIONS, XXI, b 247-9; (Eskimo), VIII, a 483; (New Guinea), XVII, b 398
SALUZZO or Saluces, city, XXI, b 249
—— sheep (Italy), XIII, b 461
Salvador, republic. See SAN SALVADOR
Salvadori, T., count, ornithologist (Lory), XV, a b 9
SALVAGE, XXI, b 249-50; (Admiralty), I, a *b* 145; (Average), III, b 128; (Insurance), XIII, b 171, a 174; (Prize), XIX, b 786, b 787; (Wreck), XXIV, *a* 723
Salvation, Brahman way of (Vedanta), XXIV, b 130-1; Buddhist way of (Buddhism), IV, b 383-4; Christian way of (Christianity), V, b 599-600; (Irenæus), XIII, b 279-80; (Paul), XVIII, a 435-7; (Predestination), XIX, b 638-9; theory of (Rothe),

Salvation, *continued* XXI, a 6; universal (Erigena), VIII, b 463; by faith (Methodism), XVI, a 193
SALVATION ARMY, XXI, b 899-900
Salvatore, Monte (Lugano), XV, b 61
Salvelinus, genus (Salmonidæ), XXI, b 233-4, a 236, note, *a* 237
Salves for smearing sheep (Agriculture), I, b 350, note, b 352, a 354
Salvi, Giambattisti or Sassoferrato, painter (Dolci), VII, a 298
Salvia, plant (Botany) (Ill.), IV, b 75, *b* 107, a b 124; (Horticulture), XII, b 259, b 273, b 302
SALVIAN, author, XXI, b 250-1
—— of Marseilles (Goths), X, a 757; (Slavery), XXII, a 144
Salviani, Hippolito, naturalist (Ichthyology), XII, b 667
Salviati, Antonio, artist (Glass), X, b 581
——, Jacopo, gonfalonier (Savonarola), XXI, a b 353
Salvin, Osbert. ornithologist (Birds), III, b 645 note, a 646, a 648 note; (Ornithology), XVIII, b 15, a 17, a 45; (Ousel), a 79; (Tinamou), XXIII, b 429, a 430
Salvinieæ, order (Ferns), IX, *a* 93; (Vegetable Kingdom), XXIV, a b 141
Salvioni, G. B, statistician (Statistics), XXII, b 478, a 484
Salvius, Adler, diplomatist (Christina), V, b 610
Salvius, Julianus, jurist (Hadrian), XI, a 326
Salwin, river (Burmah), IV, a b 492; (Burmah, British), a 500; (China), V, *b* 556; (Salwin Hill Tracts), XXI, *b* 251; (Teak), XXIII, b 111, *a* 112; (Tibet), b 362
SALWIN HILL TRACTS, district, XXI, b 251
Salyes, tribe. See Sallyes
SALZA, Hermann von, knight, XXI, b 251; (Teutonic Order), XXIII, b 218
Salzach river (Salzburg), XXI, b 251-2
SALZBRUNN, watering-place, XXI, b 251
SALZBURG, city (Plan), XXI, b 251-3; (Libraries), XIV, b 549; (Universities), XXIII, b 907
SALZKAMMERGUT, district, XXI, a 253
Salzmann, Christian Gotthilf, divine (Education), VII, a 587; his system (Ritter), XX, a b 585
SALZWEDEL, town, XXI, b 253
Samaden, village (Engadine), VIII, a 193
Sāmāel, devil (Kabbalah), XIII, b 821, a 822
"Samæna," cutter (Yachting), XXIV, b 759, b 760
Saman, tree (Venezuela), XXIV, b 151
Samana, peninsula and bay (Hayti), XI, b 485, *a* 486
Saman Burj, tower (Lahore), XIV, b 212, b 215
Sam'ani, historian (Shahrastání), XXI, a 772; (Tabarí), XXIII, b 8
SÁMÁNID DYNASTY, Persia, XXI, b 253-4; (Samarkand), b 258; (Avicenna), III, *a* 133; (Mohammedanism), XVI, a 609
Samar, island (Philippine Islands), XVIII, b 765
Samara, fruit (Botany) (Ill.), IV, a b 137
SAMARA, government, XXI, a 254-5; (Russia), a 76, b 83, *a* 87, *a* 88, a 93
SAMARA, city, XXI, b 255; (Volga), XXIV, b 299, *b* 300, *a* 301
Samarang, town (Java), XIII, a 617
Samarcand, city. See SAMARKAND
SAMARIA, city, XXI, b 255-6; (Herod), XI, b 674; siege of (Isaiah), XIII, b 388
——, district (Palestine), XVIII, a 179, a b 181; kingdom (Hosea), XII, a b 309; (Hyrcanus), a 634; (Israel), XIII, b 416, *a* b 417, a 418, a 422
Samaritan Canon, V, a 6; church (Israel), XIII, a b 429; dialect (Aramaic Languages), II, a b 270; Semitic Languages), XXI, b 680; Dictionaries, VII, b 164; *Pentateuch* (Chronology), V, b 619; (Hebrew Language and Literature), XI, a 534; priesthood (Levites), XIV, b 487; printing (Typography), XXIII, b 740
SAMARITANS, people, XXI, a 256-8
  authorities, b 258
  history, later, a 258
  Jews, hostility of, b 257-8
  literature, a b 258
  origin, a 256-7
  religion, a b 257
—— (Haggai), XI, a 332; (Jesus Christ), XIII, b 674; (Pilate), XIX, a 98. See SAMARIA
Samaritan woman at the well (Gospels), X, a b 740, note
Samarium spectrum (Spectroscopy), XXII, a 391
SAMARKAND, city (Plan), XXI, b 258-9; (Glass), X, a 580; (Mongols), XVI, a b 774, *b* 775; (Observatory), XVII, a 729; (Paper), XVIII, a 221; (Persia), b 643; (Zerafshan), XXIV, a 820
Samarskite (Mineralogy), XVI, a 446
Samartchik Cossacks (Novomoskovsk), XVII, b 623
Samas-Rimmon, king of Assyria, III, b 161
Samatoq (Lāmāism), XIV, a b 229
Sāma-veda (Brahmanism), IV, *b* 182; (Sanskrit), XXI, a b 286, *b* 288, b 290-1
Samavidhana (Sanskrit), XXI, a 291
Samawa, island. See Sumbawa
Samayacharika-sûtras (Sanskrit), XXI, a 288, b 301
Samayé, convent (Lhasa), XIV, b 500
SAMBALPUR or Sumbulpoor, district and town, XXI, a 260
Sambas, province (Borneo), IV, a b 51, b 52, *a* b 53
Sambâso, Japanese dance (Drama), VII, a 348
Sambawa, island. See Sumbawa
Sambhal, town (Murádábád), XVII, b 39
Sámbhar lake (India), XII, b 803; (Jodhpur), XIII, b 714
—— deer (India), XII, b 780
Sambos, Indians (Honduras), XII, b 134
Samb'ota, Tonmi, orientalist (Tibet), XXIII, b 368 note, b 370
Sambre, river (Meuse), XVI, b 213; basin (Coal), VI, a 53
Sambucus, genus of trees (Elder), VII, a b 719
Samburu Lake (Africa), I, a 229
Samekh, letter (X), XXIV, a 751, a 752
Samelats or Lapps (Lapland), XIV, b 305
Samen mountains (Abyssinia), I, b 61-2
Samh, grain (Arabia), II, a 206, a 219
Samhita, sacred texts (Sanskrit), XXI, a b 286, *a* b 287, *a b* 288-9, b 290, *b* 291-2, a b 293
Samhitopanishad - brahmana (Sanskrit), XXI, b 291
Samhúdi, historian (Tabarí), XXIII, a 9
Sámí, poet (Turkey), XXIII, b 698
Samia, genus (Butterflies), IV, b 528
Samian Labyrinth, XIV, a 181; war, B.C. 440 (Pericles), XVIII, a 543, a 544; ware (Pottery and Porcelain) (Ill.), XIX, b 635, a b 636
Samidæ, family (Sponges), XXII, a 440
Samiri, myth (Jew, Wandering), XIII, a 685
Samite, cloth (Textiles), XXIII, a 228
Samnite inscriptions (Herculaneum), XI, b 648
SAMNITES, people, XXI, a 260-1; (Sabines), *a* 137; (Capua), V, a 71; (Gladiators), X, b 563; (Italy), XIII, b 454, b 456; (Rome), XX, b 758, b 759-60, *b* 762, b 763, a *b* 778, b 779
Samnite wars (Rome), XX, a 760-2; (Samnites), XXI, a 261; (Sulla), XXII, b 665, a b 666; (Umbria), XXIII, b 771
Samnium, district (Italy), XIII, b 448; (Numismatics), XVII, a 653; (Rome), XX, *a* 763, b 775, b 778; (Samnites), XXI, a b 260
Samoa, island (Demonology), VII, a b 54; (Mythology) XVII, a 152; (Navigators' Islands), a b 287; (Polynesia), XIX, a 435, a b 437, a b 438, b 441, note, *a* 442; (Taboo), XXIII, a b 21; (Totemism), XXIII, b 497, *a* 498, b 501, a 504
Samoan Dictionaries, VII, b 167
Samoghitians, race (Lithuanians), XIV, b 707, *b* 708, *a* 709; (Slavs), XXII, a 157
Samonian plain (Troad), XXIII, a 615
SAMOS, island, XXI, b 261-3; (Aqueduct), II, a 191; (Gems), X, *a* 124; (Greece), XI, b 90, a 91; (Hera), a b 606; (Herodotus), b 676-7; (Numismatics), XVII, a b 664; (Polycrates), XIX, b 430, note
——, ruins (Cephalonia), V, a 299
Samosata, city (Persia), XVIII, b 614, note; (Syria), XXII, a 862
SAMOTHRACE, island, XXI, a 263; (Cabiri), IV, *b* 551; (Penates), XVIII, a 500
Samothracian relief (Archæology), II, a 306
Samotica, Mount (Herzegovina), XI, a 693
Samoyed Dictionary, VII, a 167
SAMOYEDES, people, XXI, a 263-4; (Mythology), XVII, a b 151; (Ostiaks), XVIII, a 65; (Polar Regions), XIX, a 341; (Yeniseisk), XXIV, a b 780
Samoyedic language (Castren), V, *b* 174; (Ural-Altaic), XXIV, a 5, b 6
Sampang, town and department (Madura), XV, a 195
SAMPIERDARENA, suburb, XXI, a 264; (Genoa), X, b 141
Sample vending (Sale), XXI, a 218
Sampnâ river (Betul), III, b 535
Samsams, race (Malay Peninsula), XV, a b 325, note
Samsāra series, process (Vedanta), XXIV, a 129
Sam-shee, liquor (Brewing), IV, b 236
Samsö, island (Zealand), XXIV, a 810, note
Samsöe, Ole, dramatist (Denmark), VII, a 80
SAMSON, hero, XXI, a b 264; (Nazarite), XVII, *b* 312
——, Bernardine, monk (Reformation), XX, *b* 344
Samson Agonistes (Drama), I, b 113; (Milton), XVI, a b 348, a 349, b 351
Samsoun bay (Black Sea), III, a 692
Samter, Adolph (Political Economy), XIX, b 407
Samucu race (Indians), XII, a 865, a 869
Samudera, town (Sumatra), XXII, b 674
Samuel, king, Bulgaria (Greece), XI, b 103
SAMUEL, prophet, XXI, b 264-5; (David), VI, b 736, a 737, a 738; (Israel), XIII, a 413-4; (Nazarite), XVII, *b* 312; (Prophet), XIX, a b 837
SAMUEL, *Books of*, XXI, a 265-6; (David), VI, b 736, a b 737; (Kings), XIV, a b 85
——, rabbi (Chronology), V, a 620

Samuin, festival (Ireland), XIII, b 250, note
Samur, river (Caucasus), V, b 221, a 222
Samurai, class (Japan), XIII, a 589, a 593
Samvat, Hindu era (Chronology), V, a 624; (India), XII, a 829, note
San, Greek letter (S), XXI, b 128, a 129
——, river (Poland), XIX, b 318
SANAA, town, XXI, a b 266; (Arabia), II, a 213, a 221, *a* 223, a 224, *b* 227, b 229
SANÁ'I, poet, XXI, b 266–7; (Persia), XVIII, a 671
San Angelo bridge, Rome (Bridges) (Ill.), IV, b 296; (Rome), XX, a 853; castle (Hadrian), XI, b 325; (Urban VIII.), XXIV, b 13
Sanang Setzen, poet (Kublai Khan), XIV, b 151
San Antonio, district (Lower California), IV, a 616
—— mountains (New Mexico), XVII, a 410
SAN ANTONIO, Texas, city, XXI, a 267; (Texas), XXIII, a b 222
Sanatio or *Al Shefa* (Avicenna), III, b 133, a 135
Sanatorium. See Health-Resort, Sanitarium
San Benito, suburb (Murcia), XVII, b 58
——, town (Paysandu), XVIII, a 452
San Bernardino, mountains (United States), XXIII, a 852
San Blas, isthmus of (Panamá), XVIII, b 212, a 213
San Carlos Peak (United States), XXIII, a 852
Sanchan, island (Xavier), XXIV, a 754
Sanches, Affonso, poet (Portugal), XIX, a 571
SANCHEZ, Francisco, physician, XXI, b 267; (Scepticism), b 399
SANCHEZ, Francisco, rhetorician, XXI, a b 267
SANCHEZ, Thomas, Jesuit, XXI, b 267
Sanchi tope (Architecture) (Ill.), II, b 345
Sancho I., king, Castile, and III. of Navarre; (Alphonso VI.), I, a 541; (Ferdinand I.), IX, b 76; (Navarra), XVII, b 256; (Spain), XXII, b 326–7
—— II., Castile (Cid), V, *a* 676
—— III., Castile, king (Spain), XXII, *b* 331
—— IV., Castile, king (Spain), XXII, *b* 333, b 368
—— I., Leon, king (Spain), XXII, b 326
—— I., Navarre, king (Spain), XXII, b 326, *a* b 328
—— III. of Navarre. See Sancho I., Castile
SANCHO I., Portugal, XXI, b 267; (Portugal), XIX, b 556–7, b 570
SANCHO II., Portugal, XXI, b 267, note; (Portugal), XIX, a b 557
——, Ramirez, Aragon, king (Spain), XXII, b 330, b 331
Sanchol of Cordova, caliph (Spain), XXII, b 329
Sanchoniatho. See SANCHUNIATHON
San Christoval, island (Solomon Islands), XXII, *b* 265, note, b 266, a 267
SANCHUNIATHON or Sanchoniatho, historian, XXI, b 267; (Cumberland), VI, a 619; (Grotefend), XI, a 193
SAN CRISTOBAL DE LOS LLANOS, town, XXI, b 267
SANCROFT, William, archbishop, XXI, b 267; (Wren), XXIV, b 724
Sanctification, doctrine of (Methodism), XVI, a 192
Sanction (Law), XIV, a b 356, b 357
SANCTUARY, refuge, XXI, b 267–8; (Ireland), XIII, b 255–6; (Tours), XXIII, b 522
——, sacred place (Israel), XIII, a b 408, b 409, b 412, a 414, b 419, a 420; (Priest), XIX, *a b* 747, *b* 748; (Shechem), XXI, a 820, note; (Temple), XXIII, *b* 181; (Tithes), b 438. See Adytum
Sancy Diamond, VII, b 144
Sand (Climate), VI, *a* b 5; (Filter), IX, a 146, a 149; (Founding), *b* 423; (Holland), XII, b 64; (Mineralogy), XVI, b 387; (Horticulture), XII, b 237; (Sahara), XXI, a 159; glacial (Sweden), XXII, b 778; volcanic (Geology), X, b 216
Sand, George, novelist. See DUDEVANT
—— Karl Ludwig, patriot (Kotzebue), XIV, b 145
Sandakan Harbor (Sabah), XXI, *a* b 132
Sandal (Shoemaking), XXI, a 869
SANDALWOOD, XXI, a 268–9; (Almug), I, a 525; (Forests), IX, *b* 355, a 356, b 358; (Incense), XII, b 756; (India), a 802; (Juan Fernandez), XIII, b 767, a 767
Sandan, deity (Tarsus), XXIII, b 73
SANDARACH, resin, XXI, a 269; (Morocco), XVI, b 859; (Paphlagonia), XVIII, a 232
Sanday island (Orkney), XVII, *b* 870, b 872
——, theologian (Gospels), X, *a* 724, b 726, a 730, a 732, a 735 note, *b* 748, a 749
SANDBACH, town, XXI, a 269
Sand-baths. See Arenation
Sand-bear (Mammalia), XV, b 446
Sandberger, F. (Mining), XVI, a 461
Sandbergerite (Mineralogy), XVI, a 431
SAND-BLAST, XXI, a b 269; (Glass), X, b 594
SANDBY, Paul, painter, XXI, b 269; (Caricature), V, b 92; (Painting), XVIII, a 144
Sand-drifts (Holland), XII, b 64
Sand dunes (Africa), I, a 224; (Sahara), XXI, b 157–8, a 159
SANDEAU, Léonard Sylvain Jules, novelist, XXI, a 270; (Dudevant), VII, b 439; (France), IX, b 596
SAND-EEL or Sand-launce, fish, XXI, a b 270; (Ichthyology), XII, a 730
Sandeman, Robert, sectary (Glas), X, a 568
Sandemanians, sect (Glas), X, b 567–8; (Godwin), b 639; (Hervey, J.), XI, a 692
Sanderling, bird (Birds), III, b 653; (Sandpiper), XXI, a 273
Sanders, B., inventor (Button), IV, a b 532
——, Nicholas, legate (Ireland), XIII, b 270, a 271
Sanderson, Burdon, botanist (Insectivorous Plants), XIII, b 143, b 147
SANDERSON, John, author, XXI, a b 900
SANDERSON, Robert, bishop, XXI, b 270; (Casuistry), V, b 178; (Rymer), XXI, *b* 127
Sand fly (Diptera), VII, b 223
Sandford and Merton, Day (Edgeworth, R. L.), VII, b 568
Sand-glass (Log), XIV, *a* b 777
SAND-GROUSE, bird, XXI, b 270–1; (Birds), III, b 615, b 627, a b 655 note, b 667, a 672; (Ornithology), XVIII, a 50
Sand-hills (Geology), X, a b 236; (Nebraska), XVII, a 316; (Peru), XVIII, b 683. See Sand-dunes
SANDHURST, city, XXI, b 171–2
—— Military College (Army), II, *a* 504, a 512; (Athletic Sports), III, b 12
Sandie, George, archæologist (Sepulchre, Holy), XXI, a 703, note, b 704 note
SAN DIEGO, city, XXI, a 272; (California), IV, b 618, a *b* 619; (United States), XXIII, b 840
Sandilands, Sir John, ambassador (Scotland), XXI, a 525
Sandili, chief (Kaffraria), XIII, *a* 827, a 828
Sandilya-sûtra (Sanskrit), XXI, b 304
Sand, island (Heligoland), XI, a 563, a 564
Sandiver, by-product (Glass), X, b 587
Sand Lizard (Ill.), XIV, a 741
Sand-martin (Hibernation), XI, a 704; (Martin), XV, *a* 588
Sandö, island (Faroe Islands), IX, a 36
San Domingo, island, republic (America), I, a 627; (Buccaneers), IV, a *b* 367; (Columbus), VI, a b 155; *a* b 156, a 157; (Hayti), XI, b 487; (Slavery), XXII, b 118–9; town (Hayti), XI, b 485, b 486, b 487
SANDOMIR or Sedomierz, town, XXI, a 272; (Radom), XX, a 225; heights (Poland), XIX, a b 318
SANDOWAY, district, river and town, XXI, a b 272; (Arákán), II, a 268
SANDPIPER, bird, XXI, b 272–3; (Greenshank), XI, a 155; (Tahiti), XXIII, b 28; (Birds), III, a 653
Sandrakoptos, king (Inscriptions), XIII, a 124, b 126. See SANDROCOTTUS
Sand River Convention, 1852 (Transvaal), XXIII, b 551
Sand rivers (Geology), X, a 244; rocks (Geology), a 211–2
SANDROCOTTUS or Chandragupta, king, XXI, b 273; (India), XII, b 826, *a b* 827, a b 829; (Macedonian Empire), XV, b 143; (Sanskrit), XXI, a 300. See Sandrakoptos
Sands (Building), IV, a 410, b 411; blowing (Agriculture), I, b 360–1
SANDS, Robert Charles, essayist, XXI, b 900
Sandschaks, troops (Army), II, a 541
Sand Snakes, XXII, b 203
Sand-stars (Echinodermata), VII, a 544, a b 550
Sandstone (Australia), III, b 93, a 94; (Filter), IX, b 146; (Geology), X, a 212; (Mineralogy), XVI, a 414; (Pacific Ocean), XVIII, b 131; (Petroleum), a b 887; (Scotland), XXI, a b 543, *a* 544, a *b* 546, *b* 549; (Western Australia), XXIV, *b* 535; (Westmorland), *a b* 542, a 544; intrusive rocks in (Geology), X, *a* 275; New Red (Geology), a 311, a b 312; Old Red (Geology), b 301, a b 303–6; red, South America, I, b 590–1
—— masonry (Building), IV, b 419
Sandukli river (Asia Minor), II, a 619
Sandúr, principality (Bállarí), III, b 247, a 248
Sanduséros, people (Paysandu), XVIII, a 452
SANDUSKY, city, XXI, b 273
Sand-wasps (Hymenoptera), XII, a b 607, *b* 611
Sandwich, bay (Labrador), XIV, a 176
SANDWICH or Hawaiian Islands (Plate XIII), XI, b 471–6; (Birds), III, b 643; (Ichthyology), XII, a 713; (Pacific Ocean), XVIII, a 132; (Taboo), XXIII, a *b* 20; (Vancouver), XXIV, *b* 63, a 64; volcanoes of (Geology), X, b 217, a *b* 220, *b* 224
SANDWICH, town, XXI, b 273; (Cinque Ports), V, *a* 687
SANDWICH, Edward Montagu, 1st earl, admiral, XXI, a 274; (Pepys), XVIII, a b 530; (Portugal), XIX, *a* 564
SANDWICH, John Montagu, fourth earl of, statesman, XXI, a 274
—— Land (Geology), X, b 195
—— Tern, bird, XXIII, *a* 206
Sandwirth, pseudonym (Hofer), XII, b 46
Sandy Foundation Shaken (Penn), XVIII, b 503
Sandys, Edwin, archbishop (Baptists), III, b 305; (Hooker), XII, *a* b 154
SANDYS, George, traveller, XXI, b 274; his *Ovid* (American Literature), I, a 632

San Espiritu, settlement (Argentine Republic), II, *a* *b* 431
Sanétomo, chief (Japan), XIII, *a* 592, b 597
San Felipe, town (Játiva), XIII, b 607
—— de Austria, town (Cariaco), V, b 91
—— de Benguela, town III, a 494
SAN FERNANDO, city, XXI, b 274
——, town (Trinidad), XXIII, b 610
—— de Atabapo, town (Orinoco), XVII, a 868
—— de Catamarca, town, V, a 190
—— de Nuevitas, port (Puerto Principe), XX, b 104
San Francisco, bay, XXI, b 274; (California), IV, b 615, b 617, a 618, a 621, b 623, a 625; (United States), XXIII, a 852
SAN FRANCISCO, city (Plans), XXI, b 274–7
  aspects, internal, b 275–6
  churches and charities, a 277
  educational features, a b 277
  industrial features, b 276–7
  location and waters of, b 274–5
  political statistics, a b 276
  presidio period, a b 275
—— (California), IV, *a* 616, b 617, *b* 619, a 620, a 622, *a* *b* 625; (Tramway), XXIII, *b* 540, a 541; (United States), b 840, a 857, *a* 858, b 880, a 881; Marine Hospital, XII, a 320
—— mountains (United States), XXIII, a 850
Saug, Edward, engineer (Gyroscope), XI, a b 314; his method (Mechanics), XV, b 767, his tables (Logarithms), XIV, a 781, a 783; (Tables), XXIII, b 14, b 18
Sangai, volcano (Ecuador), VII, a b 559
Sangala, town (Alexander the Great), I, a 428; (Lahore), XIV, a 214
SANGALLO, Antonio di, architect, XXI, a 278, note
SANGALLO, Antonio di, the Younger, architect, a b 278, note; (Michel Angelo), XVI, b 243; (Orvieto), XVIII, b 57
SANGALLO, Francesco di, sculptor, XXI, a 278
SANGALLO, Giuliano di, architect, XXI, b 277–8
Sangamnair, city (Ahmadnagar), I, *a* 376
Sangar, state (Sumbawa), XXII, *a* 675
Sangarius or Sakaria river (Asia Minor), II, b 618; (Bithynia), III, b 688, a 689; valley (Phrygia), XVIII, b 863, a b 864, b 865, a 866, a 867
Sangatte, village (Calais), IV, b 578
San Gemignano, town (Ghirlandajo), X, b 507; (Gozzoli), XI, a 23
SANGERHAUSEN, town, XXI, b 278
San Germano, town (Monte Cassino), XVI, b 804
Sangha, society (Buddhism), IV, a *b* 385, *a* b 387, a 389–91
Sangharakkhita, grammarian (Pâli), XVIII, a 190
Sanginesio, town (Gentili), X, b 144
San Giacomo, valley (Italy), XIII, b 445
San Giorgio, cardinal (Michel Angelo), XVI, a 238, a 239
Sangita, music (Sanskrit), XXI, a 308
Sangje Gyamtso, regent (Lhasa), XIV, a b 502
Sangkalok, town (Siam), XXI, *a* 894
Sanglawála Tiba ruins (Jhang), XIII, b 700
Sang-mêlé, mixed race (Martinique), XV, b 592
San Gonzalo, town (Bahia), III, a 207
Sangre de Cristo, mountains (United States), XXIII, b 846
Sangro basin (Italy), XIII, b 450
Sangu river (Chittagong), V, b 586, a 587
Sanhedrin, court (Israel), XIII, a 434; (Synedrium), XXII, a b 851; convocation of, at Paris, 1806 (Jews), XIII, a b 693; private (Luther), XV, b 77
San Hermenegildo (Herrera), XI, b 681, a 682
Sanhitas (Brahmanism), IV, *b* 182, a 184
Sanidine (Mineralogy), XVI, b 437
Sanindô circuit (Japan), XIII, a b 579, a 586
Sanitarium (Hamalaya), XI, b 736; (Mentone), XVI, a 33; (Meran), a b 34; (Moffat), b 566; (Mogador), a 567; (Murree), XVII, b 69; (Pan), XVIII, a 425; (Penzance), a 526; (Phthisis), a 872, note; (Switzerland), XXII, b 818; (Tunbridge Wells), XXIII, a 645; in India (Army), II, a 519
Sanitary Boards (Public Health), XX, a 102–3
SANITARY COMMISSION, United States, XXI, b 900–5
  battle-field relief, b 901–2
  dietetics, a 902
  governmental relations, a 901–2
  organization of, b 903–4
  origin of, b 900–1
  popular services, a b 903
  resources of, a b 904
  scientific results, b 904–5
  soldier, relations to the, a 902–3
—— conditions of Plague, XIX, a b 171, b 173–4, b 175; cordon (Quarantine), XX, a 161; international conference, 1874 and 1885 (Quarantine), a 160, a 162 notes, b 163
—— police company (Police), XIX, b 354–5; Protection Association (Sewerage), XXI, b 753
—— regulations (Barracks), III, b 337–8; (Glasgow), X, a 872; (Government), XI, a 18; (London), XIV, b 835–6; (New York), XVII, a 477. See PUBLIC HEALTH, QUARANTINE
—— state of British Army, II, b 511; zone (Hospital), XII, b 317
Sanitas, disinfectant (Oils), XVII, b 769
Sanitation (Hygiene), XII, b 601–2; (Italy), XIII, b 465; (Medicine), XV, a b 807–8; (Typhus), XXIII, b 719–20; (Yellow Fever), XXIV, a 773; in Moorish cities (Fez), IX, b 111 note
Sanitäts detachments (Ambulance), I, a 586
San Jacinto, battle of, 1836 (Houston), XII, b 332; (Santa Ana), XXI, b 905
——, mountain (United States), XXIII, a 852
Sanjár Khan (Prester John), XIX, b 735; poets of (Persia), XVIII, b 670
San Joaquin river (California), IV, *b* 617, a b 618, a 620; valley (Stockton), XXII, a 589
San José, department (Uruguay), XXIV, a 19, a 20
SAN JOSÉ, California, city, XXI, b 278; (California), IV, b 626
SAN JOSÉ, Costa Rica, town, XXI, b 278; (Costa Rica), VI, *a* *b* 398, a 399; (Guatemala), XI, a 214
—— mountain (Chili), V, *b* 535
—— peninsula (Patagonia), XVIII, b 538
Sanju, town (Turkestan), XXIII, *a* 680
SAN JUAN or HARO ISLANDS, XXI, a 279
—— mountains (United States), XXIII, *b* 846
—— river (New Mexico), XVII, a 310, a 411
—— river, Nicaragua (Canal), IV, a b 701; (Costa Rica), VI, a 398; (Granada), XI, a 42; (Nicaragua), XVII, a b 490, *a* 491, note
—— Bautista, town (Porto Rico), XIX, *b* 547
SAN JUAN DE LA FRONTERA, town, XXI, b 278–9
—— del Norte, town (Greytown), XI, a 173; (Nicaragua), XVII, b 490
—— del Sur (Nicaragua), XVII, b 490
Sankara - Achárya, sage (Brahmanism), IV, *b* 189; (Himalaya), XI, b 745; (India), XII, a 823, b 825; (Sanskrit), XXI, b 300, a b 304; (Vedanta), XXIV, a b 128, a b 129, a 130
Sankey canal (Lancashire), XIV, a 253
Sânkhâyana, writer (Sanskrit), XXI, b 289, *a* 290
Sānkhya, Hindu philosophy (Brahmanism), IV, b 188; (Sanskrit), XXI, b 304–5
San-koo, town (China), V, b 563
SANKT POLTEN, town, XXI, a 279, note
Sankuru, river (Zaire), XXIV, a 803
Sān Kusi river (Nepāl), XVII, a 249
San Lorenzo island (Callao), IV, b 626; (Peru), XVIII, b 684
SAN LUCAR DE BARRAMEDA, town, XXI, a 279
San Luis park (Colorado), VI, b 145; (United States), XXIII, a *b* 846
SAN LUIS POTOSI, town, XXI, a b 279; state (Mexico), XVI, a 223, b 907, b 908–9
Santa Luzia, island (Cape Verd Islands), V, a 46, a 47
San Marcos river (Texas), XXIII, b 220
SAN MARINO, republic, XXI, b 279–80; (Alberoni), I, a 399; (Italy), XIII, a 496; (Rimini), XX, a 570
SAN MARTIN DE JOSÉ, general, XXI, a 280; (Chili), V, b 537; (Peru), XVIII, b 691
San Matias, Bay of (Patagonia), XVIII, b 358
SANMICHELE, Michele, architect, XXI, a b 280, notes; (Verona), XXIV, b 185, a 186, a 187
San Miguel, island (Time), XXIII, a 421
—— river (San Salvador), XXI, a 281; volcanoes (San Salvador), *a* 281
—— de Tucumen, town. See Tucumen
SANNAZARO, Jacopo, poet, XXI, b 280; (Drama), VII, b 361; (Pastoral), XVIII, b 350, a b 351, a 352
San Nicholas, town (Buenos Ayres), IV, a 394
San Nicola, mountain (Italy), XIII, b 452
San Nicolo, town (Cerigo), V, *b* 300
Sano Catino, emerald (Glass), X, b 579 note
Sano di Pietro, painter (Schools of Painting), XXI, a 452, a 462; (Siena), XXII, *b* 44, a 49
San Pablo bay (California), IV, b 617; (San Francisco), XXI, b 274
—— lake (Ecuador), VII, b 560
San Pedro, river (Liberia), XIV, b 507
——, town (Buenos Ayres), IV, a 394
——, town (Honduras), XII, a 134
San Policarpo, suburb of Pola, XIX, b 296
Sanpu river (Assam), II, b 628; (Brahmaputra), IV, a b 190
Sanquhar, town (Dumfries), VII, a b 454, a 456; declaration (Cargill), VI, b 90
SAN REMO, town, XXI, b 280
San Rocco, chapel and school, Venice (Titian), XXIII, b 443
San Salvador, island (Bahamas), III, a 204; (Columbus), VI, a 155, note; (West Indies), XXIV, a 538
——, mountains (Corfu), VI, a 351
SAN SALVADOR, republic (Plate III, vol. XI), XXI, b 281; (Guatemala), XI, *a* 214
—— de Bahia, city, III, a 207
SANSANDING, town, XXI, b 281
Sans-culottes of Paris (Pichegru), XIX, b 88

San Sebastian, town, XXI, b 281-2; (Guipuzcoa), XI, a 235
——, town (Canary Islands), IV, b 706
Sans égal, game (Bagatelle), III, b 198
Sauseverino, Antonio, cardinal (Capuchins), V, b 71
San Severo, city, XXI, b 282
San-Sing, city (Manchuria), XV, *a* 474
Sanskrit Language and Literature, XXI, a 282-309
  Language, a 282-6
    accentuation, a b 285
    alphabet, b 282-3
    declension, a b 283
    grammars and lexicons, a b 286
    phonetic changes, a 283, b 287
    relations of, comparative, a b 282
    verb system, b 283-4
    word formation, b 284-5
    written characters, b 285
  Literature, a 286-309
    astronomy, mathematics, b 287, a b 309
    Atharva-veda, a b 293
    Brahmanas, b 286-7, b 289, a 291, a b 292, b 293
    Bhatta Näráyana, poet, a 300
    Bhavabhûti, poet, b 299-300
    ceremonial, b 287-8, b 289-90
    chronological difficulties, a 286
    classical period, a 294-309
    Dharma-sastras, b 301-2
    dictionaries, b 307-8
    didactic poetry, b 300-1
    drama, a 298-300
    epics, modern, a 297-8; national, a 294-6
    fables and tales, a b 301
    grammar, b 287, a 306-7
    Grammars, modern, a b 307
    Harsha-deva, poet, b 299
    heretical philosophies, b 305-6
    Kålidasa, poet, a b 299
    law literature, b 301-2
    logic, b 305
    lyric poetry, b 300
    Mahabharata, b 294-6
    medicine, b 308-9
    metempsychosis, a 303
    Mîmamsa system, b 303-4
    music, a 308
    Nyaya and Vaiseshika systems, a b 305
    philosophical literature, b 302-6
Sanskrit Language and Literature, *continued*
  Literature
    priestly classes, Vedic, b 286
    prosody, a 308
    Pûranas, b 296-7
    Ramayana, a b 296
    recensions, Vedic, a 287
    rhetoric, a b 308
    Rigveda, a 288-90
    Sama-veda, b 290-1
    Samhitas, a 286-7, a 288-9, b 290, b 291-2, a b 293
    Sânkhya system, b 304-5
    science, six Vedic branches, b 287-8
    Smritis, b 301-2
    Sûdraka, poet, a 299
    Sûtras, b 287-8, a b 290, a b 291, b 292-3
    Tantras, a 297
    Upanishads, a 287, a 294, a b 303
    Vedangas, a 287
    Vedanta system, a b 303
    Vedic period, a 286-94
    Yajur-veda, b 291-2
    Yoga sytem, a 305
——— (Alphabet), I, b 533; (Amara Sinha), a 574; (Bopp), IV, b 44-5; (Colebrook), VI, b 114; (Dictionaries), b 165; (Grammar), XI, *b* 37, a 38; (Greece), *b* 114, a 115; (Hindustani), *b* 750, *a b* 751, *a b* 752, a 753; (Hindustani Literature), a *b* 753; (Italy), XIII, a 508, note; (Jains), b 553; (Julien), b 780; (N), XVII, b 165, a 166; (Pâli), XVIII, a 187-90; (Persia), b 665-8; (Philology), a 794, b 797, a b 801-2; (Wilson), XXIV, b 622
——— college, Calcutta (Libraries), XIV, a 533, a 552
——— literature (Adelung), I, b 138; (Fables), VIII, a b 733; (Goldstücker), X, b 680; (Kashmir), XIV, b 14, a 15; (Lamaism), b 227-8; (Lassen), *b* 322-3; (Magic), XV, *b* 204; (Muir), XVII, a 19; imitations of (Tamils), XXIII, b 48; Manuscripts (Libraries), XIV, *a* b 533; poetry (Kálidása), XIII, a b 838
Sanson, Nicolas, cartographer, XXI, a 309
——, missionary (Persia), XVIII, b 650
Sansovino, Andrea Contucci del Monte, sculptor, XXI, a 309-10
——, Francesco, publicist (Statistics), XXII, b 478, a 479
Sansovino, Jacopo, sculptor, XXI, a b 310; (Titian), XXIII, b 442; (Venice), XXIV, a 166, a b 168, b 169, note
Sans Souci, palace (Potsdam), XIX, *a* 617
San Stefano avalauche (Geology), X, b 241
——, treaty of, 1878 (Montenegro), XVI, b 805; (Turkey), XXIII, a b 693
Santa river (Peru), XVIII, a 684, b 685
Santa Ana, river (San Salvador), XXI, a 281; town, *b* 281
Santo Aña de Coro, town, VI, b 379
Sant'Angelo, Monte (Italy), XIII, b 448; (Lipari Islands), XIV, b 688; (Naples), XVII, b 194
Santa Anna, island (Araguaya), II, b 267; (Brazil), IV, b 199
——— island (Solomon Islands), XXII, b 265, note
Santa Anna, Antonio Lopez de, dictator, XXI, b 310, a b 905; (Mexico), XVI, a b 228, b 897, b 898
Santa Barbara, department (Honduras), XII, b 135
——, town (California), IV, a 621
——— quicksilver mine (Huancavelica), XII, a 341
Santa Catherina, province (Brazil), IV, b 201, a b 202, b 210, *b* 211, *b* 212, a 215; city (Desterro), VII, a 115
Santa Cruz and New Hebrides, islands, XVII, a 405-6
——— river (Argentine Republic), II, a 430; (Patagonia), XVIII, a 358
——, town (Azores), III, a 149
——, town, Palma (Canary Islands), IV, a 706
——, ship (Xavier), XXIV, *b* 753, *a* 754
——, Don Alvaro de Bazan, marqués de, admiral (Cervantes), V, a 305
——, Andrés, president (Bolivar), IV, a 10; (Bolivia), *a b* 17; (Peru), XVIII, a 692
——— de la Sierra, department (Bolivia), IV, *a* 11, b 13, a 14, a 15
——— de Santiago, town (Canary Islands), IV, *a* 703, *a* 704, *b* 705
Santa Decca, mountain (Corfu), VI, a 351
Santa Eulalia mine (Mexico), XVI, b 907
Sante Fé, Argentine Republic, city, XXI, b 310-1; (Argentine Republic), II, b 430, a b 431, b 434
——— de Bogota, III, a 746
Santa Fé, New Mexico, city, XXI, a 311; (New Mexico), XVII, a b 411, *a* 412
Santa Hermandad, confederation (Spain), XXII, *b* 340
Santa Ines, mountain (Logrono), XIV, b 814
Santa Iñez, mountain (United States), XXIII, a 852
Santa Klaus (Nicholas, St.), XVII, b 496
Santalaceæ, order (Botany), IV, a 130. a 132; (Parasitism), XVIII, b 270
Santa Laura at Athos (Abbey), I, b 17-8
Santa Leopoldina, colony (Brazil), IV, b 211
Santalin or Santalic acid (Sandalwood), XXI, a 269
Santál Parganás, district, XXI, a b 311
Santáls, race (Chutiá Nágpur), V, *a* 671; (Dance), VI, b 703; (India), XII, *b* 816, *a b* 817, a 818; (Oath), XVII, a 718
Santa Lucia lake (Africa), I, a 228
Santalum, tree (Botany), IV, b 132, a 134; (Sandalwood), XXI, a b 268
Santa Maria island (Chili), V, b 535
——, town (Capua), V, a 71
——— de Filleri, ruins (Civita Castellana), V, a b 696
——— de Soledade, colony (Brazil), IV, b 211
Santa Marta, port (Colombia), VI, a 137
Santa Maura or Leucadia, island, XXI, b 311-2; (Greece), XI, *b* 108; (Ionian Islands), XIII, *b* 211, *a* 212
Santa Monica, mountain (United States), XXIII, a 852
Santander, province, XXI, a b 312; (Spain), XXII, a 308, *a* 310, b 312, b 316, b 318; town, XXI, b 312
——, Francisco de Paula de, general (Bolivar), IV, a b 9, *a* b 10
Santangel, Luis de (Columbus), VI, b 154
Sta. Petronilla, picture (Barbieri), III, a 314
Santarem, Brazil, city, XXI, a 313
Santarem, Portugal, city, XXI, b 312-3; (Portugal), XIX, a b 556; (Tagus), XXIII, b 26
——— João de, navigator (St. Thomas), XXI, a 211
——, Manuel Francisco de Barros e Sousa, viscount (Portugal), XIX, b 573
Santa Rita mines (United States), XXIII, b 869
Santash Pass (Issik-Kul), XIII, a 442
Santa Toma, town (Texas), XXIII, b 221
Santee (Ashantee), II, a 595
——— river (South Carolina), XXII. *a* 301
Santerre, Jean Baptiste, painter, XXI, a 313
Santeul or Santolius Victorinus, Jean Baptiste, poet (Hymns), XII, *b* 619
San Thiago or St. Jago, island (Cape Verd Islands), V, b 46, a b 47
Santi, Giovanni, painter (Cagli), IV, b 568; (Raphael), XX, *b* 286, note; (Robbia), XX, b 607; (Urbino), XXIV, a b 14, a 15
Santiago, Chili, city (Map), XXI, a 313-4; (Libraries), XIV, a 536, b 554; (Newspapers), XVII, a 449; (Observatory), b 736
——, province and city (Chili), V, *a* b 535, *a b* 536, a b 537, *a b* 539, *a* 540, *a* 541, a b 542
——, town (Panamá), XVIII, a 213
——, river (Mexico), XVI, b 224
Santiago de Compostella, Spain, town, XXI, a b 314; (Spain), XXII, b 310, a 311, a 326, a 329, b 331; shrine of (Compostella), VI, a 204; (Pilgrimage, XIX, b 103, a 104

SANTIAGO DE CUBA, city, XXI, b 314-5; (Cuba), VI, b 602, a b 603
—— de Guatemala, city (Guatemala), XI, b 214
SANTIAGO DEL ESTERO, town, XXI, a 315
Santillana, province and town (Santander), XXI, a b 312
SANTILLANA, Inigo Lopez de Mendoza, marquis of, poet, XXI, a 315; (Mena), XVI, a b 5; (Spain), XXII, *b* 369
SANTINI, Giovanni, astronomer, XXI, a b 315
Santiparvan (Caste), V, *b* 164
Santipur, town (Nadiyá), XVII, *a* 168
Santob of Carrion, author (Spain), XXII, a 368
Santo Domingo, republic. See HAYTI
Santolius Victorinus, poet (Hymns), XII, *b* 619
Santonine, vermifuge (Parasitism), XVIII, a b 275; (Physiology), XIX, a 60
Santorin, island. See THERA
Santorini, Giovanni Domenico, anatomist (Anatomy), I, b 713
Santo Rocco, school and church, Venice (Robusti), XX, a b 625
SANTOS, city, XXI, b 315
—— cotton, VI, b 430
——, Francisco, novelist (Spain), XXII, a 372
Santo Tomas, town (Guatemala), XI, a 214
—— de la Nueva Guayana, town (Angostura), II, a 42
Sanudo, Marco, adventurer (Naxos), XVII, a 311
San Vicente, volcanoes (San Salvador), XXI, a 281
Sanyâsis, bandits (Rennell), XX, a b 411
Sanyôdò circuit (Japan), XIII, a b 579, a 586
Sanzio, Raphael. See RAPHAEL
São Felippe, town (Cape Verd Islands), V, b 47
São Francisco, river (Brazil), IV, b 199, b 200, b 201, a b 202, a b 203, b 215
Sao hirsuta (Crustacea) (Ill.), VI, a b 584
São João da Foz, village (Oporto), XVII, a 818
SAO LEOPOLDO, colony, XXI b 315
São Lourenço river (Brazil), IV, *a* 200
SAONE, Haute, department, XXI, b 315-6
——, island (Hayti), XI, b 485
——, river, XXI, *b* 315, *a b* 316; (Cote D'Or), VI, b 425; (France), IX, b 446, b 457: (Jura), XIII, a b 791, b 792; (Lyons), XV, *b* 111, *a b* 112, *a b* 113, *a* 114; (Rhone), XX, a 542, a b 543; (Vosges), XXIV, *b* 319
SAONE-ET-LOIRE, department, XXI, a b 316; basin (Coal), VI, b 53
Sao Nicolao, island (Cape Verd Islands), V, *a* 46, a 47
Sáood b. Abd-el-Aziz, imam (Arabia), II, a b 228
——, Mohammed, sheik (Arabia), II, *a* 228
——, sultans of Mascat (Arabia), II, a b 229
São Paulo, province (Brazil), IV, a *b* 201, *a b* 202, a 203, *b* 204, a 205, a b 207, *a* 208, b 210, b 211, *b* 212, a 215
SAO PAULO, city, XXI, b 316-7; (Brazil), IV, b 202, a 206, b 210, b 212, a 214, a 215
São Salvador, town (Congo), VI, b 236, b 237
Saoshyant, prophet (Zoroaster), XXIV, b 862
São Vincente, island (Cape Verd Islands), V, b 46, a 47
——, city (Santos), XXI, b 315
Sap, motion in trees (Ray), XX, b 313
Sapajou (Ape) (Ill.), II, b 134
Saphedin, sultan (Egypt), VII, b 653, a b 654
Saphena, vein (Anatomy), I, *a* 796
Saphenous nerve (Anatomy), I, b 763
Saphir, J., Hebraist (Targum), XXIII, b 68 note
Sapho, pseudonym (Scudéry, M.), XXI, b 581-2
Sapienza, naval battle (Turkey), XXIII, a 684
Sapojok, town and district (Ryazañ), XXI, a b 124
Saponification (Candle), IV, *b* 708; (Glycerin), X, b 621, *a b* 622, *a b* 623, a 624; (Oils), XVII, a b 761
Saponin (Horse-Chestnut), XII, b 210; (Soap Bark), XXII, b 216
Saponite (Mineralogy), XVI, a 401, a 432
SAPOR or Shápur, kings, Persia, XXI, a 317
—— I., Persia (Manichæism), XV, b 489, a 490; (Palmyra), XVIII, a b 205, note; (Persia), b 618, a b 619
—— II., Persia (Jovianus), XIII, b 765; (Persia), XVIII, a b 620; (Valens), XXIV, b 41, a 42
—— III., Persia, XVIII, a 621, a 622
Saporta, de, palæontologist (Distribution), VII, a b 252
SAPPAN WOOD, dye wood, XXI, a 317
Sappers (Fortification), IX, b 402, *a* b 403; British (Army), II, b 507
Sapphic metre (Horace), XII, a 169
SAPPHIRE, gem, XXI, a b 317; (Burmah), IV, a 493, b 495; (Lapis Lazuli), XIV, b 300; (Mineralogy), XVI, b 387, a 388, a 390, *a* 393, a 401; (Mining), b 491; Brazilian (Topaz), XXIII, a 475; d'eau (Mineralogy), XVI, a 436; lens (Microscope), a 270
Sapphirine (Mineralogy), XVI, a 402
Sapphirite (Mineralogy), XVI, a 426
Sapphirus, altar (Grail, Holy), XI, b 32
Sappho, asteroid (Parallax), XVIII, a 254
SAPPHO, poetess, XXI, b 317-8; (Greece), XI, b 117, b 124; (Poetry), XIX, b 271, *b* 272, b 283
Sappho (Grillparzer), XI, a 175, a 176
Saprolegnia, fungus (Salmonidæ), XXI, b 237-8; cell division (Histology), XII, b 15-6
Saprolegnieæ, sub-order (Fungus), IX, *a* b 729; (Parasitism), XVIII, a 271; (Reproduction), XX, b 438, *b* 440, *a* 442, a 443
Saprophytes (Biology), III, b 597; (Fungus), IX, a b 728; (Insectivorous Plants) XIII, b 146; (Mildew), XVI, a 306; (Parasitism), XVIII, b 268; (Physiology), XIX, b 55; (Schizomycetes), XXI, b 423; (Septicæmia), a 699; (Surgery), XXII, a 718
Sapucaya Nut, XVII, b 683, a 684; (Oil), b 767
Sapurgan or Shibrghan, province (Afghânistân), I, b 216, a 217
Saputan, mountain (Celebes), V, b 251
Saque (Costume), VI, a b 422
Sar, lake (Puri), XX, a 121
Sarabaites, monks (Monachism), XVI, a 730
SARABAND, dance, XXI, b 318
Sara Burgerhart (Holland), XII, a 100
Saracen bezants, coins (Numismatics), XVII, a 677; dynasties (Spain), XXII, a 327-32; heads (Heraldry), XI, b 610
Saracenic Arabesque, II, *a* 204
SARACENIC ARCHITECTURE (Ill.), II, b 389-92
—— weaving (Textiles), XXIII, b 226, b 227, a 230
Saracen learning, introduction of (Universities), XXIII, a 888
SARACENS, people, XXI, b 318; (Agriculture), I, b 261; (France), IX, a b 469; (Genoa), X, b 141; (Greece), XI, b 99, a 100, a 102, a 103; (Gunpowder), a b 283; (Italy), XIII, b 479; (Malta), XV, a 343, b 344; (Nicephorus II.), XVII, a *b* 595; (Normans), a 561; (Palermo), XVIII, b 173, a 174: (Pisa), XIX, a 128; (Sardinia), XXI, b 324; (Sicily), XXII, b 28-31; (Spain), a 324-5
Saracens, History of the (Ockley), XVII, a 741
Saracens' mosque (Constantinople), VI, b 273
Saragossa, province and town. See ZARAGOZA
Saragu, fish (Sheepshead), XXI, b 821
Sarah or Sarai, wife of Abraham, I, a *b* 54, *a b* 55
Sarai, city and empire (Russia), XXI, *a* 99, a 100
Saraitchik, town (Uralsk), XXIV, a 11
Saraiva law (Slavery), XXII, b 151
Sarakhs, oasis (Transcaspian), XXIII, a 544, *a* 545; town (Merv), XVI, b 46, b 47; (Persia), XVIII, a 629
Sarakolés, tribe (Senegambia), XXI, *a* 695
Saramacca, river (Guiana), XI, b 223
Sârameyas, god (Hermes), XI, a b 670
SÁRAN or Sarun, district, XXI, b 318-9; (India), XII, a 783
Saranda of the 700 hills (Singbhúm), XXII, b 101
Sarapis, god (Serapis), XXI, b 706-7
Sarasara, mountain (Peru), XVIII, a 685
Saraswatí, river (Allahábád), I, b 510; (Bombay), IV, b 20; (Punjab), XX, a b 112 note, 113
Sarat Chandra Das, pundit (Tibet), XXIII, a *b* 366
SARATOFF, government, XXI, a 319-20; (Russia), a 76, *a* 88; town, XXI, a b 320; (Volga), XXIV, b 298, b 299, *b* 300, *a* 301
Saratoga, battle of, 1777 (Burgoyne), IV, b 478; (Gates), X, b 97; (United States), XXIII, a 792
SARATOGA SPRINGS, village (Plan), XXI, b 320-1; (Mineral Waters), XVI, a 453, a 454, b 455, a 456
Sarau, animal (India), XII, b 780
SARÁWAK, territory, XXI, a 321-2; (Brooke, Rajah), IV, a *b* 333; river (Borneo), b 50, a *b* 51, b 52, a b 53; town (Gutta Percha), XI, b 303
Sarbievius or Sarbiewski, Casimir, poet (Poland), XIX, b 312
Sarca river (Garda), X, b 68; (Italy), XIII, b 445
Sarcenchyme, tissue (Sponges) (Ill.), XXII, a *b* 435
Sarclett, town (Caithness), IV, b 574, b 575
Sarcocystidea, sub-class (Protozoa), XIX, a 879
Sarcocystis, genus (Protozoa), XIX, a *b* 879
Sarcode, protoplasm (Anatomy), I, b 717, a 740; (Foraminifera), IX, b 324, a 325, b 332, *a* 333; (Protoplasm), XIX, b 850, *a* 851; (Protozoa), a 854
Sarcolactic acid (Lactic Acid), XIV, b 197
Sarcolemma, membrane (Anatomy), I, *a* b 753, b 756; (Histology), XII, b 10
Sarcolite (Mineralogy) (Ill.), XVI, a b 429
Sarcoma, tumor (Pathology) (Ill.), XVIII, a 374-5, a 391; contrasted with cancer, b 390-1; melanotic, a 412; of the choroid (Ophthalmology), XVII, b 805
Sarcophaga, genus (Insects), XIII, a 153
Sarcophagi (Altar), I, b 564; (Monreale), XVI, b 786; Carian (Architecture), II, *a* 352; Corneto (Mural Decoration), XVII, a 47; Egyptian (Alabaster), I, b 389-90; (Architecture), II, b 337, b 338, a b 339; (Mummies), XVII, b 27; Phœnician, XVIII, b 823: Roman (Architecture), II, b 367
Sarcophila, insect (Diptera), VII, b 223
Sarcophilus, genus (Mammalia), XV, a 383
Sarcophyton (Corals), VI, b 341

Sarcoptes, parasite (Veterinary Science), XXIV, *b* 223
Sarcorhampus, genus (Vulture), XXIV, *b* 322
Sárda river (Himalaya), XI, a 735
SARDANAPALUS or Assur-bani-pal, king, Assyria, XXI, a 322; (Babylonia), III, a 163; (Libraries), XIV, a 509; (Tarsus), XXIII, b 73
Sardes, town. See **SARDIS**
Sardica, district (Thrace), XXIII, a 339; town (Sofia), XXII, b 259
——, council of. See Council of Sardica
SARDINE, fish, XXI, a 322; (Fisheries), IX, a 221, a 234; (Ichthyology), XII, b 732; (Loire-Inférieure), XIV, a 818; (Pilchard), XIX, b 98; fishery (Douarnenez), VII, a 325; (Italy), XIII, a 465; (Ratnagiri), XX, a 305
Sardines, American (Menhaden), XVI, b 14
SARDINIA, island (Map), XXI, a 322-5
  antiquities, a b 324
  climate, b 323
  geology, b 322-3
  history, b 324-5
  industrial features, b 323-4
  minerals, a b 323
  political features, a 324
  situation and topography, b 322
——(Mediterranean Sea), XV a b 829; (Phœnicia), XVIII, b 819; (Pisa), XIX, a *b* 128, *a* b 129, a 130; (Spain), XXII, a 361, b 362, a 363, b 366; annexation of (Rome), XX, *a* 767; dialects of (Italy), XIII, b 503-4, b 505
——, kingdom (Italy), XIII, a 457, b 473, b 494, a 495, a b 497, b 498, a 499-501; (Bossi), IV, b 61-2; (Cavour), V, b 238, a b 239, a 240; (Mazzini), XV, b 661; (Napoleon III.), XVII, b 234; (Nice), a 495
Sardinian wars with Austria (Azeglio), III, b 145; war, 1848 (Radetzky), XX, b 218-9; war, 1859. See Franco-Austrian War
SARDIS, city, XXI, a b 325; (Greece), XI, a 89; (Lydia), XV, b 99, a 100, a b 101; (Persia), XVIII, b 577, a 578, a 582, a 586, a 587, a 589, b 592
SARDONYX, gem, XXI, b 325; (Cameo), IV, *a* b 653, a 654; (Onyx), XVII, a 798
Sardou, Victorien, dramatist (France), IX, b 594
Sarepta, town (Saratoff), XXI, *a* b 319, a 320
Sargasso Sea (Atlantic Ocean), III, *b* 19, b 24; (Meteorology), XVI, a 149; (Pacific Ocean), XVIII, a 122
Sargeant, John, teacher (Wheelock), XXIV, a 893
SARGENT, Epes, author, XXI, b 905-6
——, Henry, painter, XXI, b 906
——, John Osborne, lawyer, XXI, a 906
SARGENT, Lucius Manlius, philanthropist, XXI, a b 906
——, Winthrop, lawyer, XXI, b 906
SARGON, king, Assyria, XXI, b 325; (Babylonia), III, a 161, *a* b 162; (Berosus), a 525; (Isaiah), XIII, b 388, a 389, a 394; (Israel), XIII, a 422, b 423; (Yemen), XXIV, a 776, a 777
Sargus, genus of fishes (Sheepshead), XXI, b 821-2
Sari Dagh, mount (Caucasus), V, b 221
Sariks, tribe (Turks), XXIII, a 703
Sarine, river (Freiburg), IX, *b* 670
Sāriputra, mendicant (Buddhism), IV, a b 385, a 387
Sarjektjakko, mountain (Sweden), XXII, a 774
Sark, island (Channel Islands), V, a *b* 340
Sarka Jong, town (Tibet), XXIII, a 361
Sar-kel, or White abode, fort (Khazars), XIV, b 62
Sarmanæ, class (India), XII, a 827, note
Sarmatia, country (Numismatics), XVII, a 656
Sarmatian plateau (Lemberg), XIV, b 435
SARMATIANS, nomads, XXI, b 325-6; (Russia), a 86; (Scythia), a 603, *a* b 605; (Persia), XVIII, a 612; (Denmark), VII, a 74
Sarmentum, stem (Botany), IV, b 84
Sarmiento, Mount (Andes), II, b 16; (Tierra del Fuego), XXIII, a 410
——, Domingo Faustino, president (Argentine Republic), II, a 434, b 436; (San Juan de la Frontera), XXI, a 279
——, Pedro, navigator (Geography), X, b 165
Sarnelli, Pompeo, vicar-general (Carthusians), V, a 144
Sarnen, town (Switzerland), XXII, b 816, *a* 821; (Unterwalden), XXIII, *a* 915
Sarnia, island (Guernsey), XI, a 220
Sarnicki, historian (Poland), XIX, a 313
SARNO, city, XXI, a 326
Sarnus, river (Pompeii), XIX, a 459, a 460
Särö, island (Sweden), XXII, b 775
Sarôna, colony (Joppa), XIII, b 756
Saros, Chaldean cycle (Astronomy), II, a 651; (Chronology), V, a 617
SARPI, Pietro, usually Fra Paolo, theologian, XXI, a 326-8; (Pallavicino), XVIII, b 193; (Paul V.), a 442; (Popedom), XIX, a 520; (Trent, Council of), XXIII, b 586
Sarracenia, genus (Insectivorous Plants) (Ill.), XIII, *b* 140, b 144-5
Sarraceniaceæ, order (Insectivorous Plants), XIII, *b* 140, b 144-5
Sarrasin, Jean François, writer (France), IX, b 580
Sarratt, gamester (Chess), V, b 522, a 524
Sarrau and Roux, experiments (Explosives), VIII, a 708, *a* 709, b 710, a 711
SARRAZIN, Jacquez, painter, XXI, a 328
Sárrét, marsh (Hungary), XII, a 377
Sarrus, M., inventor (Oboe), XVII, a 727
Sarrusophones, musical instruments (Oboe), XVII, a 727
Sars, George Ossian, zoologist (Fisheries), IX, *a* 213; (Norway), XVII, b 606
——, Michael, zoologist (Norway), XVII, b 606
SARSAPARILLA, alterative remedy, XXI, a 328-9; (Uruguay), XXIV, b 19
Sarsenstones (Geology), X, a 239
Sar-shila, wady (Sistán), XXII, a 109
Sarsia (Hydrozoa) (Ill.), XII, a 596
Sarskaya, village (Tsarkoye Selo), XXIII, a 638
Sarsuti, settlement (India), XII, a 819
Sart, village (Sardis), XXI, b 325
SARTHE, department, XXI, a b 329; river (France), IX, a 446, b 457; (Maine-et-Loire), XV, b 305; (Mans), b 504; (Mayenne), a 655; (Orne), XVIII, a 5
SARTI, Giuseppe, composer, XXI, b 329-30; (Cherubini), V, *a* 510
SARTO, Andrea del, painter, XXI, a 330-1; (Franciabigio), IX, *a* 607; (Schools of Painting), XXI, a 453, b 462, a 465, *b* 467
Sartorite (Mineralogy), XVI, b 410
Sartorius, George (Political Economy), XIX, a 401
——, Sir George Rose, admiral (Portugal), XIX, a 568
Sartor Resartus, Carlyle's (Leopardi), XIV, a 465
Sarts, tribe (Khiva), XIV, a 66; (Tajak), XXIII, b 30, note; (Turkestan), b 677
Sarúk, castle (Ispahán), XIII, b 405
Saru Khan, princes of (Turkey), XXIII, a 681
Sar-ulang pass (Hindú Kúsh), XI, a b 748
Sarum, New, city (Salisbury), XXI, b 228-9
—— Old, borough (Chatham), V, a b 381; (Salisbury), XXI, *a* 229
—— *Breviary*, IV, a 236; *Missal* or *Use* (England, Church of), VIII, b 339; (Hymns), XII, *a* 618, a 620; (Liturgy), XIV, b 715, b 716
Sarun. See **SARAN**
Sarus river (Asia Minor), II, b 619; (Cappadocia), V, b 67; (Cilicia), a 679; (Comana), VI, b 158
Saruwaka Kanzaburô, dramatist (Drama), VII, a 348
Sarvanukrama, index (Sanskrit), XXI, b 290
Sary-Kamysh lakes (Transcaspian), XXIII, *b* 544, note; mountains (Transcaucasia), a 547
Sary-su, river (Syr-Daria), XXII, a b 858; (Turkestan), XXIII, b 674
Sásánian coins (Numismatics), XVII, a 678; dynasty (Persia), XVIII, a b 617-27; (Artaxerxes), II, b 561; (Ctesiphon), VI, b 599; (Georgia, kingdom), X, *a* 388; (Rome), XX, a 795; (Zoroaster), XXIV, a 863; Gems, X, *a* 126; inscriptions (Pahlaví), XVIII, a 140; Plate (Ill.), XIX, a b 193; remains (Kúrdistán), XIV, a 160
Sas Báhu temple (Gwalior), XI, a 309
Sash-bars (Building) (Ill.), IV, b 438
Sashes (Building) (Plate XXVI) (Ill.), IV, b 442-4
Sasine (Seisin), XXI, b 657
Saskatchewan, district (N.W. Territory), XVII, b 587; river (Canada), IV, a 679, *a* 682; (Manitoba), XV, b 497, a 498
Sassaks, race (Lombok), XIV, a 826
Sassanian. See Sásánian
Sassanidæ or Sassanids. See Sásánian Dynasty
SASSARI, town, XXI, b 331; province (Sardinia), a 322, a 324, note
SÁSSERÁM, district, XXI, b 331-2
Sassetti Chapel, Florence (Ghirlandajo, D.), X, b 507
Sassoline (Mineralogy), XVI, b 403
Sasvan Gend, town (Ghent), X, b 504
Sasvata Kosha, dictionary (Libraries), XIV, b 533
SATALI or Adalia, town, XXI, a 332; (Asia Minor), II, a 616
Satan (Adam), I, a 125, b 127; (Bogomili), III, a 746; (Devil), VII, b 117-9; (Israel), XIII, a 430; (Job), b 712; (Manichæism), XV, b 490, *a* 491; Milton's (Mephistopheles), XVI, a 34; (Poetry), XIX, a 281
Satapatha-brahmana (Sanskrit), XXI, a b 292, note
SÁTÁRA or Sattarah, district and town, XXI, a b 332
Satellite and planet, relative motion of (Tides), XXIII, a 401
Satellites (Nebular Theory), XVII, b 319, a 320; density of (Geology), X, *b* 191; elements of (Astronomy), II, 684-5; (Tides), XXIII, b 378-9; of Jupiter (Astronomy), II, a 709; of Saturn, a 711; (Huygens), XII, b 431; of Uranus (Astronomy), II, a b 711; of Neptune (Astronomy) (Plate XXIX), a 685, a 712; planetary systems of (Tides), XXIII, a *b* 405-6
Satellite's velocity retarded (Tides), XXIII, a 400
Sátgáon, town (Hooghly), XII, b 151
Sathas, Constantinos, historian (Greece), XI, a 130, a b 131, *b* 134, a b 136
Sati, goddess (Egypt), VII, b 622
——, rite. See Suttee
Satin, fabric (Weaving), XXIV, *a* 491; origin of name (Chinchew), V, a 585

Satin-spar, mineral (Alabaster), I, b 389; (Gypsum), XI, b 313; (Mineralogy), XVI, a 385
SATIN-WOOD, XXI, b 332
Satiræ (Petronius), XVIII, a b 734, a b 735–6; (Romance), XX, b 652
SATIRE, XXI, b 332–5
  Greek, a b 333
  mediæval, a b 334
  modern, b 334–5
  recent, a b 335
  Roman, ancient, b 333–4
  scope, b 332–3
—— (Anthology), II, a 93; (Archilochus), a 332; (Camœns), IV, b 660–1; (Italy), XIII, a b 511, a 520, b 521–2; (Lucian), XV, a 44–7; (Parini), XVIII, b 278; (Persia), a b 670; (Russia), XXI, a b 114, b 115
——, English (Barclay), III, a 318; (Burns), IV, *a* 508; (Butler, S.), b 524–5; (Chatterton), V, b 387, 388; (Churchill), a b 670; (Cleveland), b 724–5; (Donne), VII, *b* 315, b 316; (Dryden), b 424–5; (Hall, J.), XI, a 348; (Hone), XII, a 139; (Hopkins, S.), b 162; (Jerrold), XIII, a b 644; (Marvell), XV, b 584–7; (Nash, T.), XVII, a b 242; (Pope), XIX, b 496, a b 501; (Skelton), XXII, a 127; (Wolcot), XXIV, *a* 662
——, French, IX, b 565, b 570; (Barthélemy), III, b 346; (La Fontaine), XIV, b 206; (Rabelais), XX, a 203; (Regnier), a 361
——, German, X, a 472, a 473, a b 475; (Börne), IV, b 49; (Fischart), IX, a 211; (Goethe), X, b 647–8, b 651; (Goltz), a 684; (Hutten), XII, b 428–9; (Musäus), XVII, b 70
——, Irish, early (Celtic Literature), V, b 270–1
——, Italian (Aretino), II, a 428; (Giusti), X, b 557
——, pictorial (Hogarth), XII, a 50–1; (Luther), XV, b 76
——, Roman (Ennius), VIII, *a* 399; (Horace), XII, a b 163, a b 164, a 166, a *b* 167, *a b* 168, b 169; (Juvenal), XIII, a b 813, a b 816, a 817–8; (Lucilius), XV, b 48; (Martial), b 584–6; (Persius), XVIII, a 675, a b 676; (Roman Literature), XX, b 736, a 738, a b 741, *b* 742, b 744, a b 745–6; (Varro), XXIV, b 100–1
——, Spanish (Isla), XIII, a b 397; (Rosa), XX, a b 870; (Spain), XXII, a 374
Satire and Satirists (Hannay), XI, *b* 394
Satire Ménippée (Pamphlets), XVIII, b 209; (Passerat), a 347; (Pithou), XIX, a 143; (Thou), XXIII, a 336
Satire of the Three Estates (Lyndsay), XV, a 109
Satires, mediæval (Scotland), XXI, *a* 567
Satires, Menippean (Yarro), XXIV, b 100–1
Satirical drama in Athens (Aristophanes), II, a 447
Satlaj, river. See Sutlej
Sátmálá or Ajantá hills (Bombay), IV, a 20
Satnámís, sect (Bilaspur), III, a 580
Satnios, river (Troad), XXIII, a 615
Satoan island (Caroline Islands), V, b 111
Saton, measure (Weights and Measures), XXIV, *b* 512, a 513
Satow, E., orientalist (Japan), XIII, b 596 note, a 597 note, b 602
Sátpurá mountains (Bombay), IV, a 20; (Central Provinces), V, a b 297; (Chhindwárá), *a* 529; (Ellichpur), VIII, a 138; (India), XII, b 771; (Nágpur), XVII, a 171; (Narsinhpur), b 240; (Seoni), XXI, a 698; (Wardhá), XXIV, b 390
Satrapies of Alexander's successors (Persia), XVIII, a 597
Satraps, Persian (Darius I.), VI, b 726; (Numismatics), XVII, b 677; (Persia), XVIII, a 581, a 595
Satricum, city (Latium), XIV, a 345
Satrunjaya, sacred hill (Pálitána), XVIII, b 191
Sat-saī (Hindustani Literature), XI, a 755
Satsuma, daimio of (Xavier), XXIV, b 753; dialect (Japan), XIII, a 596; insurrection, b 594; pottery, *b* 600; (Pottery and Porcelain), XIX, a 655
Saturæ, Roman (Drama), VII, a 354; (Nævius), XVII, a 168; (Roman Literature), XX, a 735, *a* 736, a 737, b 743; (Satire), XXI, b 333
Saturated steam (Steam-Engine), XXII, a b 502; density of, a 506
Saturation (Magnetism), XV, a 255; (Meteorology), XVI, b 125
Saturday (Festivals), IX, a 102; (Mary), XV, a 599
Satureja thymus, plant (Hyssop), XII, a 635
SATURN, god, XXI, b 335–6; (Faun), IX, b 47
——, planet (Astronomy) (Ill.) (Plate XXIX), II, b 709–11; (Laplace), XIV, b 301, a 303; discovery of satellites and rings of (Telescope), XXIII, a 148; elements of (Astronomy), II, 684, a 685; figure of, b 710; rings of (Plate XXIX), b 709–10; (Peirce), XVIII, b 479; satellites of (Astronomy), II, a 711; (Herschel, F. W.), XI, a 686; (Telescopic Work), XXIII, a 936; sub-system of (Tides), *b* 405–6
Saturnalia, festival (Saturn), XXI, b 336
Saturnalia (Macrobius), XV, a b 168
Saturnia, city (Etruria), VIII, a 559
Saturninus, Lucius Appuleius, tribune (Metellus), XVI, a b 111; (Rome), XX, a *b* 777, a 778, a 782
Saturninus, Lucius Antonius, rebel (Trajan), XXIII, a 534
SATYR, myth, XXI, b 336–7; (Drama), VII, a 349; (Silenus), XXII, b 56–7
Satyr, painting (Protogenes), XIX, b 849, a 850
Satyra de Nuptüs (Capella), V, b 48
Satyric Drama, VII, a b 350, a b 351, note, a 355; (Greece), XI, b 125
Satyricon (Barclay), III, a 318
——, Petronius (Latin Language), XIV, b 336–7
——, cyclopædia (Romance), XX, b 652; (Scholasticism), XXI, b 437
Satyridæ, butterflies (Butterflies and Moths) (Plate XXIX), IV, a 530
Satyrus, anatomist (Anatomy), I, a 704
——, philosopher (Sophocles), XXII, b 284
Satz vom zureichenden Grunde (Schopenhauer), XXI, b 470–1, b 474
Saucerotte's law of contrecoup (Surgery), XXII, a 724, a 725
Saucisson, slow match (Fortification), IX, b 410
Sauerkraut (Cabbage), IV, a 549
Sauerland, district (Westphalia), XXIV, a b 545
Saul, former name of Paul, XVIII, a 425
SAUL, king, Israel, XXI, a 337; (Samuel), *b* 265, a 266; (David), VI, b 736–8; (Israel), XIII, a 413–4; (Moab), XVI, a 558; (Prophet), XIX, a b 837; (Samuel), XXI, a b 265; descent from (Afghânistân), I, b 213; elegy of (Israel), XIII, b 415
Saul, tragedy (Alfieri), I, *b* 444
Sauldre, river (Loir-et-Cher), XIV, b 818
Saulx, river (Marne), XV, a 568, b 569
Saumaise, Claude. See SALMASIUS
Saumalkul, lake (Syr-Daria), XXII, b 858
SAUMAREZ, James, Baron de, admiral, XXI, a b 337; (Algeciras), I, a 496
SAUMUR, town, XXI, b 337; district (Wine), XXIV, a b 638; university (Amyraut), I, a b 687; (Mornay), XVI, b 855
Saunaka, author (Sanskrit), XXI, a 290, b 293
Saunakíya Chaturadhyayika (Sanskrit), XXI, b 293, note
Saunders, Howard, ornithologist (Gull), XI, a 243; (Tern), XXIII, b 206
SAUNDERSON, Nicholas, mathematician, XXI, a 338; (Blind), III, b 722; (Calculating Machines), IV, a 580
Saunders's salinometer (Hydrometer), XII, b 573
Sauraboni, state (Celebes), V, a 251
Sauranodon, fossil (Reptiles), XX, a 455, a 479
Sauras, architect (Batrachus), III, b 382
Sauraseni dialect (Hindūstānī), XI, b 750
Saurian digits (Skeleton), XXII, *a b* 126
Saurians (America), I, a 601; (Reptiles), XX, a 445, a 447, b 466, a 467, a b 469, b 478, *a* 479; (Zoology, American), XXIV, a b 925; cretaceous (Geology), X, b 319; Jurassic (Geology), a b 315; ornithichnite (Geology), a 314
Sauridæ, fishes (Ichthyology), XII, a 726
SAURIN, Jacques, preacher, XXI, a 338
Saurodypteridæ, fishes (Ichthyology), XII, b 725
Saurognathæ, order (Birds), III, b 604, a 605, b 620–2; (Woodpecker), XXIV, a 686
Sauromatæ, people (Sarmatians), XXI, b 325
Sauropoda, fossils (Reptiles), XX, a 456 note
SAUROPSIDA, province of vertebrates, XXI, a b 338; (Amphibia), I, *a* 658, b 661; (Birds), III, *b* 628, *a* b 629, a 631; (Mammalia), XV, a 350, b 361, a b 367, b 368, a b 370, *a b* 373, *a* 374, *a* 380; (Ornithology), XVIII, a 38, b 46; (Reptiles), XX, b 450
Sauropterygia, group (Reptiles), XX, a 457, *a* 458, b 478, *a* 479
Saurothera (Birds), III, a 650
Saururæ, group (Birds), III, a 605; (Ornithology), XVIII, a b 38, note, b 40, b 42, b 46, note, b 47–8
Saurus, fish (Ichthyology) (Ill.), XII, b 674, a 717
SAUSSURE, Horace Benedict de, physicist, XXI, b 338–9; (Bonnet), IV, a 32; (Deluc), VII, b 48; (Electricity), VIII, a 10; (Evaporation), b 639; (Geology), X, b 230; (Glacier), a b 560, b 562; (Jade), XIII, b 550; (Lake), XIV, b 218, b 221; (Mediterranean Sea), XV, b 831; (Switzerland), XXII, b 837; (Thermometer), XXIII, b 310 note, *a* 312
——, Nicolas de, agriculturist, XXI, b 338 note
SAUSSURE, Nicolas Théodore de, chemist, XXI, a b 339; (Liebig), XIV, a 571; (Physiology), XIX, a b 52
Saussure's Hygrometer, XII, a 604
Saussurite (Jade), XIII, b 550; (Mineralogy), XVI, b 438
Sauterne wine (Gironde), X, b 556; (Wine), XXIV, b 637–8
Sautrie, musical instrument (Pianoforte), XIX, b 73
Sauty's capacity test (Telegraph), XXIII, b 126
Sauvenière waters (Spa), XXII, b 306
Sauveterre, causse of, plateau (Lozère), XV, a 33
Sava, St. See Sabbas
SAVAGE, Edward, painter, XXI, b 906
SAVAGE, James, antiquary, XXI, b 906; (Winthrop), XXIV, b 904
SAVAGE, Richard, poet, XXI, b 339; (Gutzkow), XI, a 301; Johnson's *Life of*, XIII, a b 733, b 739

Savage and civilized, land needed for (Ethnography), VIII, a 542; culture (Anthropology), II, b 106–7; (Archæology), a 298, a 299; (Mythology), XVII, b 149, a 150-2; (Wood-Carving), XXIV, a 684; life (Tibet), XXIII, b 365; Names, XVII, a 176
Savages (Festivals), IX, b 99, a 100; (Fetichism), a 104; (Fine Arts), b 170; (Fire), a b 198-9, a b 200, a b 201, a 202; (Foundling Hospitals), a 425; (International Law), XIII, b 202–3; (Law), XIV, b 357
——, brain of (Anatomy), I, a 773; superstitions of (Demonology), VII, a b 54, a *b* 55, *a* *b* 56
Savage's Station, battle, 1862 (United States), XXIII, a 826
Savalan, mount (Persia), XVIII, b 630, a 633
SAVANNAH, Georgia, city, XXI, b 339–40; (Georgia), X, b 390, a b 392, b 393, a b 394; (United States), XXIII, a b 856; captures of (Pulaski), XX, b 839; (United States), XXIII, b 792, b 828
—— river (Georgia), X, *b* 390, *a* *b* 392, *b* 393
Savanne, mountains (Mauritius), XV, b 646
Savare's induction current (Blasting), III, b 703, a 704
Savaria or Sabaria, town (Pannonia), XVIII, b 217
Savaric of Bath, bishop (Glastonbury), X, a 602
Savars, tribe (Cattack), V, a 212; (India), XII, a 817
Savart, Felix (Mineralogy), XVI, b 393; his apparatus (Acoustics), I, b 101
Savary, physicist (Electricity), VIII, a 11; (Micrometer), XVI, b 259
SAVARY, Anne Jean Marie Réné, duke of Rovigo, XXI, a b 340; (Algeria), I, a 500
Save, river (Carniola), V, b 106; (Croatia), VI, *a* 523; (Hungary), XII, *b* 376
——, C., philologist (Scandinavian Languages), XXI, b 390
Savelli, Luca, senator (Rome), XX, a 813
Savernake Forest (Wilts), XXIV, a *b* 625
Savery, Roelandt, painter (Dodo), VII, *a* 279; (Everdingen), VIII, *a* 645
——, Thomas, inventor (Steam-Engine), XXII, a b 491, *a* *b* 492
——, William, preacher (Fry, E.), IX, b 706
Savia, province (Pannonia), XVIII, b 217
SAVIGLIANO, city, XXI, b 340
Savigny, Carl Friedrich von, diplomat, XXI, a 342
SAVIGNY, Friedrich Carl von, jurist, b 340–2; (Capitularies), V, a 66; (Grimm), XI, a 177, a 178; (Law), XIV, a 364; (Possession), XIX, a *b* 576; (Rome), XX, b 802, b 824; (Thibaut), XXIII, a b 321, a b 322
——, naturalist (Ibis), XII, *b* 641; (Tunicata), XXIII, a 647, b 658
SAVILE, Sir Henry, scholar XXI, a b 342; (Casaubon), V, *a* 152; (Chrysostom), b 661; (English Bible), VIII, b 347, a 348; (Tea), XXIII, a 108
Saville (Sponges), XXII, *b* 443
——, George (Halifax), XI, b 345–6
Savin tree (Juniper), XIII, a b 784
SAVINGS BANKS, XXI, b 342–7
  aggregate, a 347
  Brazil, b 346
  classes in Great Britain of, a b 345
  colonies, British, b 345–6
  deposits, depositors, a b 344
  disputes, miscellaneous provisions, b 344–5
  Europe, continental, b 346–7
  frauds, a 345
  growth of, b 342–3
  interest, b 343–4
  organization, b 343
  United States, a b 346
—— (Banking), III, a 283; (England), VIII, a 232–3; (Glasgow), X, a 575; (Paris), XVIII, a 289; (Workingmen, U. S.), XXIV, b 917–8; (Prussia), XX, a 24; (United States), XXIII, b 881–2; British postal (England), VIII, b 217, b 232; (Post-Office), XIX, b 588–90, b 593, a b 594, a b 596; Canadian, IV, b 688; French (Post-Office), XIX, b 598; Italian, a b 600
—— funds (Building Societies), IV, a b 460
SAVOIE, department, XXI, a 347–8
SAVOIE, Haute, department, XXI, a b 348
SAVONA, city, XXI, b 348–9; Congress of, 1408 (Rome), XX, a 822
SAVONAROLA, Girolamo, reformer, XXI, a 349–54
  Alexander VI., hostility of, a 352–4
  Arrabbiati and Piagnoni factions, a b 352
  authorities, b 354
  birth and youth, a 349
  Bologna monastic period, b 349
  domination in Florence of, a 351–2
  Florentine period under Lorenzo de' Medici, b 349–50
  French invasion, a 351
  martyrdom of, b 353–4
  ordeal trial, a b 353
  Piero de' Medici, accession of, b 350–1
  writings, b 354
—— (Alexander VI.), I, a 432; (Botticelli), IV, *b* 151; (Italy), XIII, b 491, b 518; (Michel Angelo), XVI, a b 238
——, Michele, physician, XXI, a 349
Savory, herb (Horticulture), XII, b 302
Savoy, plant (Horticulture), XII, a 300
——, departments. See SAVOIE
——, province (Academy), I, a 72; (Italy), XIII, a 444; (Porto Maurizio), XIX, b 546
SAVOY, House of, XXI, b 354-8
  eighteenth century, a b 357
  fifteenth century, b 356
  fourteenth century, a b 356
  genealogical table, 355
  mediæval house, early, b 354–6
  nineteenth century, b 357–8
  policy of, b 354
  seventeenth century, a 357
  sixteenth century, b 356–7
—— (Austria), III, *a* 110; (Freiburg), IX, *a* 671; (Geneva), X, a *b* 133, a *b* 134; (Italy), XIII, b 473, a 493–4, b 498, a b 499–501; (Jura), a b 792; (Pinerolo), XIX, b 115
—— palace (London), XIV, b 855; foundation (Fuller), IX, b 714, a 715, *a* 716
—— Conference, 1662 (Baxter), III, a 394, a 395; (Presbyterianism), XIX, b 709
Saw, tool. See SAWS
Sawád, district (Mesopotamia), XVI, *a* 56
Sawahili Coast or Zanzibar (Africa), I, a b 242
Sawaii, island (Navigators' Islands), XVII, a b 287
Sawaiori race (Polynesia), XIX, *a* b 436, a 437–40
Sáwákin, port. See SUAKIN
Sawalan, mountain (Caspian Sea), V, a 155
SÁWANTWÁRI or Sawuntwarrie, state, XXI, a 358
Sawatch range (Colorado), VI, b 145; (United States), XXIII, a *b* 846
Saw-bill, bird (Merganser), XVI, a 40
Sawdust (Iron), XIII, a 302
Sawel, Mount (Londonderry), XIV, a 863
Saw Fish (Ichthyology), XII, b 691, b 718, a 724; (Ray) (Ill.), XX, b 311–2
SAW-FLIES, insects (Ill.), XXI, a b 358; (Galls), X, *b* 41, b 42; (Hymenoptera), XII, a b 607, *a* *b* 608, *a* b 609, a b 610, note; (Wheat), XXIV, a 566
Saw-mills (Dockyards), VII, a 271; (Saws), XXI, b 359–61
Sawoil mountain (Tyrone), XXIII, b 759
SAWS, tools, XXI, b 358–61
  band saws, b 359, a 361
  hand saws, b 358–9
  history, milling, b 359–60
  machine saws, a b 359
  methods of milling, a b 360–1
  mills, b 359–61
  shingle mills, a b 361
  uses of, b 358
—— hand Tools (Ill.), XI, b 391–2; (Veneering), XXIV, a 150; American (Patents), XVIII, a 882; circular for rails (Iron), XIII, b 339; tempering (Iron), a 363
Sawtrey, William, martyr (Lollards), XIV, b 820; (Reformation), XX, b 335
Sawyer, Thomas J., divine (Universalists), XXIII, a 952
Sawyer's process, J. R. (Photography), XVIII, a 845
Sawyer-work (Building), IV, a 426
Sax, Adolphe, instrument-maker (Oboe), XVII, a 728
——, Charles Joseph, instrument-maker (Music), XVII, b 105
Saxe, John Godfrey, poet (American Literature), I, a 641
SAXE, Maurice, Comte de, marshal, XXI, b 361–2; (Cavalry), V, b 228; (Favart), IX, a b 50; (France), *b* 516; tomb of (Pigalle), XIX, a 93
SAXE-ALTENBURG, duchy (Plate V), XXI, a b 362; (Saxony), *a* 372
Saxe-Eisenach, duchies (Saxony), XXI, *a* 372
SAXE-COBURG-GOTHA, duchy (Plate V), XXI, a b 363; (Saxony), *a* 372
——, Ferdinand, prince (Portugal), XIX, *b* 568
Saxe-Lauenburg, duchy (Saxony), XXI, a 368
Saxe-Marksuhl, duchy (Saxony), XXI, a 372
SAXE-MEININGEN, duchy (Plate V), XXI, b 363–4; (Saxony), b 372
Saxe-Neustadt, duchy (Saxony), XXI, a 370
Saxe-Saalfeld, duchy (Saalfeld), XXI, *b* 130
Saxe-Teschen, duchy (Teschen), XXIII, a 216
SAXE-WEIMAR-EISENACH, duchy (Plate V), XXI, b 364–6; (Saxony), *a* 372
Saxe-Wittenberg, duchy (Saxony), XXI, a b 368, a 369
Saxicola, genus (Wheat-ear), XXIV, a 567
Saxicole, species (Lichens), XIV, *b* 565–6
Saxicolidæ, family (Warbler), XXIV, *a* 387
Saxicolinæ, group (Ornithology), XVIII, b 51
SAXIFRAGE, plant, XXI, a 366; (Botany) (Ill.), IV, a 79, a 100, a 103, a 113, a 115, a b 122, a 136; (Ecuador), VII, b 561; (Horticulture), XII, a 260; (Insectivorous Plants), XIII, a 144; (Polar Regions), XIX, a 341
Saxifragaceæ, order (America), I, b 601
SAXO GRAMMATICUS, historian, XXI, a b 366; (Absalon), I, b 57; (Denmark), VII, a 74, *a* 79; (Hamlet), XI, b 378–9
Saxon antiquities (Northumberland), XVII, *b* 581; Army, II, b 524; charters (Diplomacy), VII, a 222

Saxon Chronicle (English Literature), VIII, a b 363, b 364; Middlesex, XVI, a b 293, note
—— coins (Numismatics), XVII, a 674; dialect (Heliand), XI, b 562; (Holland), XII, *a* b 87, a *b* 88, *a* *b* 89, b 90, note, a *b* 91, a b 92
—— emperors (Germany), X, a 433-6
—— invasions (Arthur), II, b 569; (Britannia), IV, b 349; (Celtic Literature), V, a *b* 261-2; (Hampshire), XI, b 385; (London), XIV, b 852-4; (Scotland), XXI, *a* b 501
—— language (Europe), VIII, a 615; (German), X, *a* b 462, *a* 465; law (Carpzov), V, b 117; (Sunday), XXII, a 689; (Women), XXIV, a 673; literature, resuscitation of (Parker), XVIII, a 306; magistrates (Alderman), I, b 418; Mirror, XVI, a 523; Names, XVII, b 176
Saxons, people (Angles), II, a b 28; (Filigree), IX, a 144; (England), VIII, b 242, a 243, note, a b 244; (Germany), X, *b* 427, b 428, a b 429, a 430, b 433; (Government), XI, a 12; (Héliand), b 562; (Hesse), a 696; (Holland), XII, b 67, a b 73; (Lombards), XIV, *a* 823; (Middlesex), XVI, a b 293; (Saxony), XXI, b 366-7; (Scotland), b 494; (Transylvania), XXIII, a b 555; (Valentine I.), XXIV, *b* 42; conquest of (Charlemagne), V, a *b* 349
Saxons in England, History of the (Kemble, J. M.), XIV, b 32
Saxon school of German Literature, X, b 476-7
"Saxon" sees (Hungary), XII, a 389
—— settlements (Devonshire), VII, b 122; (England), VIII, a b 244
—— Switzerland (Germany), X, a b 403
—— towers (Architecture), II, a 418
Saxonum, Lex (Salic Law), XXI, b 225
Saxon ware (Pottery and Porcelain) (Ill.), XIX, a b 642
SAXONY, kingdom (Plate V), XXI, b 366-75
  GEOGRAPHY AND STATISTICS, a 372-5
    administrative features, b 375
    agricultural features, b 372-3
    area and boundaries, a b 372
    authorities, a 375
    communications, a 374
    constitution, b 374-5
    education, b 374
    manufactures, commerce, b 373
    physical features, b 372
    population, a b 374
    products, natural, a b 373
    religious statistics, b 374
SAXONY, *continued*
  HISTORY, b 366-72
    circles, imperial, a b 368, note
    constitutionalism, period of, a 371-2
    division of duchy, a 368
    duchy, b 367-8
    electorate, a 368, a 369-70
    Ernestine and Albertine contest, a b 369
    Meissen mark, history of, b 368-9
    Napoleonic wars, b 370-1
    Polish kings, electorate of, a b 370
    Protestant electorate, b 369-70
    Prussian subjugation of, b 371-2
    sub-divisions of, ducal, a 372
    subjugation, primitive, a b 367
    Thuringia, Ernestine line in, a 372
    tribal history, b 366-7

—— (Coal), VI, a 54; (Feudalism), IX, a 107, note; (Gustavus II.), XI, b 298-9; (Insanity), XIII, a 105; (Prison Dicipline), XIX, b 780; (Suicide), XXII, b 662, *a* b 663, a 664, a 665; (Wool), XXIV, b 689; allied to Prussia (Army), II, b 524; education of the Blind, III, a b 721; fisheries in (Pearl), XVIII, a 459; history of (Germany), X, b 432, *a b* 433, a 435, b 436, a 437, a 438, *a b* 439, a 440, a 442, a 444; statistics of (Germany), b 404, a 405, *b* 407, *b* 408, a *b* 409, a 410, *b* 411, *b* 412, *b* 413, a b 417, a 418, *a* 420, *b* 421, *a* b 423
SAXONY, Prussian (Plate V), XXI, a 375-6; (Prussia), XX, *a b* 18, *a b* 19, *b* 20
Saxophone, musical instrument (Oboe), XVII, a b 728
SAXTON, Joseph, inventor, XXI, b 906
Sa'y, ceremony (Mecca), XV, b 680, *a* 681, a 682
Say, Horace Emile, economist, XXI, a 377
SAY, Jean Baptiste, economist, XXI, a 376-7; (Political Economy), XIX, a b 359, b 395, a 396, a 402
SAY, Thomas, naturalist XXI, b 906-7
Sayan, highlands (Yeniseisk), XXIV, a 780
Sayana, commentator (Sanskrit), XXI, a 288 note, b 289, note, b 293
Sayanski mountains (Irkutsk), XIII, b 282
Saya Pandita (Mongols), XVI, a 777
Saybrook, town, Connecticut (Winthrop), XXIV, b 904
Sayce, Archibald Henry, philologist (Hittites), XII, *a b* 29, *a* 30; (Slavs), XXII, b 155
Sayce's process (Photography), XVIII, b 840, note
Sayer, James, satirist (Caricature), V, b 92
Sayes Court, mansion (Deptford), VII, a 89
Sayle, William, pioneer (Charleston), V, b 371; (South Carolina), XXII, a 303
Saynite (Mineralogy), XVI, b 407
Saypan island (Ladrone Islands), XIV, b 200
Say's stereometer (Hydrometer) (Ill.), XII, b 573
Sayyids, people (India), XII, *a* 784
Sayyid Kalif, sultan (Zanzibar), XXIV, a 807
Sbeitla, town (Tunis), XXIII, b 660
Sbynko, archbishop (Huss), XII, b 419, *b* 420
Scab, disease (Veterinary Science), XXIV, b 223
Scabies, itch (Parasitism), XVIII, a 275; (Skin Diseases), XXII, b 131. See Itch, Psoriasis
Scabiosa, plant (Botany) (Ill.), IV, a 110, a 111, b 113, a 134
Scævola, Publius and Quintus Mucius, jurists (Cicero), V, b 673; (Stoics), XXII, a 600
"Scaffold" (Iron), XIII, a 303, b 305, b 307
Scaffolding (Building), IV, a b 409, a 419, b 451; (Geodesy), X, b 147
Scagliola (Building), IV, a 455
Scala, theatre (Milan), XVI, b 303
—— family (Italy), XIII, a b 487, a 489, a 490; (Verona), XXIV, b 187; tombs of (Metal-Work), XVI, a 81
——, Can Grande della, prince (Dante), VI, b 714, b 715; (Verona), XXIV, a b 187
——, Can Signorio della, prince (Verona), XXIV, b 186, a b 187
——, Mastino della (Pisa), XIX, a 130
Scalæ Caci, stairs (Rome), XX, a 831, note
—— of Labyrinth (Anatomy) (Ill.), I, a 784, *a* b 785; (Ear), VII, a 512
Scala Humanæ Salvationis (Mural Decoration), XVII, b 52
—— *Intellectus* (Bacon), III, b 183
SCALA NOVA or Nuova, town, XXI, a 377
Scalaridæ, family (Mollusca), XVI, b 672
Scale, Gunter's, XI, b 295-6
——, insect (Horticulture), XII, b 271
——, separation of (Paraffin), XVIII, b 246-7
—— delineation (Surveying), XXII, a 745
—— -divisions (Hydrometer), XII, b 568-9, b 570, b 571-2; spirit level (Surveying), XXII, a 755
—— of shade on maps (Surveying), XXII, b 746-7
Scalene cone (Conic Sections), VI, b 251, a 352-3
Scalenohedron (Mineralogy) (Ill.), XVI, b 370, b 379
Scales, Barometric, III, a 332
——, leaf (Botany), IV, a 103; (Histology), XII, *a* 20
Scales of fish (Ichthyology) (Ill.), XII, b 670, b 675-7, a b 705, a b 706; of Mammalia, XV, a 351
—— in Music, XVII, a 88; (Acoustics), I, b 101; (Pianoforte), XIX, a 73; ecclesiastical (Zarlino), XXIV, b 809-10; Greek, (Acoustics), I, b 101
—— of Reptiles, XX, b 458; of snakes (Ill.), XXII, b 200-1, b 208
—— of Thermometers, XXIII, a b 309 note, a 310; (Heat), XI, b 503-5, b 507-8, b 509, b 512; Graduation of, a 25-8
——, integumentary (Skeleton), XXII, *a* b 115
Scales, plotting instrument (Surveying), XXII, a 758
Scale stones (Sculpture), XXI, a 298
Scale-values in observations (Parallax), XVIII, b 252
Scalia, Beltrami, penologist (Italy), XIII, b 473
Scalichius de Lika, Paulus, count (Encyclopædia), VIII, a 174
SCALIGER, Joseph Justus, scholar, XXI, b 378; (Ana), I, a b 688; (Calendar), IV, a 595; (Casaubon), V, *a* 151; (Chronology), b 617, b 624; (Grotius), XI, b 193, b 195
SCALIGER, Julius Cæsar, scholar, XXI, a 377, a b 378, a 379, *a b* 380, a 381; (Cardan), V, a 81; (Epigrams), VIII, a 424; (Pianoforte), XIX, b 75, *a* 76, a 77
——, family (Verona), XXIV, b 187. See Scala
Scaling, William, manufacturer (Basket), III, b 364, *a* 365
Scallions, onions (Horticulture), XII, b 297
Scallop, shell (Heraldry) (Ill.), XI, a 628
Scalloway, village (Orkney and Shetland), XVII, b 872
Scalp, ravine (Dublin), VII, b 427, b 428
Scalpellum, genus (Crustacea) (Ill.), VI, b 588, a 589; (Distribution), VII, a 243
Scalps, shell fish (Mussel), XVII, *a* b 117
Scamander, river (Asia Minor), II, 618; (Troad), XXIII, a 615, b 617, b 619
Scamandria, ancient town (Troad), XXIII, b 617
Scamell, bird (Godwit), X, a 642
Scammon, naturalist (Whale), XXIV, b 552, a 558
SCAMMONY, drug, XXI, a b 381
Scamozzi, architect (Architecture), II, b 382, a 384
SCANDERBEG, patriot, XXI, b 381; (Ætolia), I, b 202; (Albania), a 396; (Turkey), XXIII, b 683
SCANDEROON or Iskanderun, town, XXI, b 381; Cilicia), V, b 679; gulf of (Cilicia), a *b* 679

Scandinavia (Fire), IX, b 202; (Ichthyology), XII, a 671; (Meteorology), XVI, b 147; (Mythology), XVII, a 162-3, a 164; (Railway), XX, b 262; (Reformation), b 348-9; (Sculpture), XXI, b 584, note, b 591 note, b 597; (Wood-Carving, XXIV, a 680, b 682; land-oscillations of (Baltic), III, b 255; origin of (Russia), XXI, a *b* 96, a 97; rainfall of (Meteorology), XVI, b 157; union of (Denmark), VII, b 74-5; (Sweden), XXII, a 774
Scandinavian Alphabets, I, b 534, a b 538: Arms and Armor, II, a 487; Baptism, III, a 301; Barrows, a *b* 343; Brooch, IV, *b* 332; Cambrian system (Geology), X, a 293; coins (Numismatics), XVII, b 676
—— diluvium (Holland), XII, *a* 65; Drama, VII, b 383; flora (Distribution), b 249, *a* b 250, a 251
—— historians (Denmark), VII, a b 78, a b 79; (Iceland), XII, b 654, a 660-1; (Norway), XVII, b 606; (Saxo Grammaticus), XXI, b 366; (Sweden), XXII, a b 792, b 793, b 794, a 796
SCANDINAVIAN LANGUAGES, XXI, b 381-91
  Danish, modern, b 389-90
  Danish, old, a b 389
  Dano-Norwegian, a b 390
  dialects, b 383, b 384, a 385, a 386, b 387-8, b 389, b 390
  Icelandic, modern, b 385
  Icelandic, old, b 383-4
  Norwegian or Norse, b 385-6, b 390
  primitive forms, a b 382
  relative position of, b 382-3
  study of Swedish, a 388, a 389
  Swedish, modern, a 388-9
  Swedish, old, b 386-8
  territory of, b 381-2
  transformation period, a b 383

——

—— (Dictionaries), VII, b 161; (Europe), VIII, a 615; (Iceland), XII, b 663
—— legends (Hamlet), XI, b 378-9; loom (Textiles), XXIII, b 224; Missions, XVI, b 535; (Ornithologists, XVIII, a 13, b 20-1; Periodicals, a 554; Plate, XIX, b 198; poetry (Iceland), XII, a b 657. See Poetry, Scandinavian
—— population (United States), XXIII, a *b* 874, a 875. races (Women), XXIV, a 673: settlements (Ireland), XIII, b 257, b 258, b 259-60; (Normandy), XVII, b 552-3
—— Silurian system (Geology), X, a b 299
—— Union (Money), XVI, a 758 note, b 760, b 762, a 864
—— ware (Pottery and Porcelain), XIX, a 651; weaving (Textiles), XXIII, a 229
Scandium, spectrum (Spectroscopy), XXII, a 391
Scania. See Skane
Scansores, birds (Ornithology), XVIII, a 34
Scansorius muscle (Ape), II, a 144
Scape (Botany), IV, b 108
Scapegoat ceremony (Lhasa), XIV, a 501
Scape wheel (Clocks), VI, b 17
Scaphognathite (Crustacea), VI, b 566
Scaphopoda, class (Mollusca), XVI, a 688-9
Scapolite (Mineralogy), XVI, a 386, a 393, b 429
Scapula, bone (Anatomy) (Ill.), I, a 725, *b* 729, a 730, b 735-6; (Ape), II, a b 141; (Birds), III, b 624; (Horse), XII, a 181; (Mammalia), XV, b 361; (Skeleton), XXII, a 125, b 126
Scapular arch (Ichthyology), XII, b 683, b 684, a 685, a b 686; (Ichthyosaurus), b 734
Scapulary (Costume), VI, b 410
Scapulimancy (Divination), VII, b 254-5; (Magic), XV, a 207
Scar, formation of (Pathology) (Ill.), XVIII, b 371, a 372
Scarab or Scarabæus (Gems), X, a b 122, a 123, a b 124, a 125; (Archæology), II, b 308; (Cameo), IV, a 653; (Etruria) (Ill.), VIII, b 562-3; (Jewellery), XIII, b 686; (Ring), XX, *a* 575
Scarabæidæ, family (Coleoptera), VI, b 116, b 119
Scarabæus, beetle (Alchemy), I, b 408; sign of Zodiac, XXIV, a 831
Scaraboid Gems, X, a b 122, a 125
SCARBOROUGH, borough (Plan), XXI, b 391-2; (York), XXIV, a b 784, *b* 785, *a* b 786
——, town (Tobago), XXIII, a 456
Scarbroite (Mineralogy), XVI, b 442
Scarcies, river (Sierra Leone), XXII, *b* 50
Scardus, Mount (Albania), I, b 395; (Balkan), III, b 243; (Macedonia), XV, a *b* 137, *a* b 138
Scare-crow, derivation of (Tern), XXIII, a 206 note
Scarfing beams (Building), (Plate XXII), IV, a 427, a b 428, a 430, a 431
Scarifiers (Agriculture) (Ill.), I, *a* 278, a 301
Scarlatina, disease (Scarlet Fever), XXI, b 393-4; (Deaf and Dumb), VII, a 6
SCARLATTI, Alessandro, composer, XXI, b 392-3; (Durante), VII, b 477; (Music), XVII, b 94; (Wagner), XXIV, b 335
SCARLATTI, Domenico, composer, XXI, a 393; (Handel), XI, b 388; (Music), XVII, a 103
Scarlet, color (Dyeing), VII, b 495-6; (Pigments), XIX, a b 96
SCARLET FEVER, XXI, a 393-5; (Pathology), XVIII, a 414; rash (Pathology), a 414
Scarlet Letter (American Literature), I, b 637; (Hawthorne), XI, b 480
Scarlet runner, bean (Horticulture), XII, b 295
Scarpa, Antonio, anatomist (Anatomy), I, b 715; (Morgagni), XVI, b 848
Scarpanto, island. See CARPATHUS
Scarpe, river (France), IX, a 446, a 458
Scarpelino or chisel-man (Sculpture), XXI, b 598, a 599
SCARRON, Paul, dramatist, XXI, a b 395; (France), IX, b 509, a 580; (Molière), XVI, a 648
Scaruffi, Gasparo, count (Political Economy), XIX, a 369
Scarus, genus (Corals), VI, b 335; (Parrot-Fishes), XXIV, b 329
Scatari, island (Nova Scotia), XVII, a 616
Scattery island (Clare), V, a b 702
SCAUP or Scaup-duck, bird, XXI, b 395; (Pochard), XIX, b 264
Scaurus, Marcus Æmilius, ædile (Rome), XX, a 826
Scavenger's daughter (Torture), XXIII, b 494, note, b 496
Scawfell, mountain (Cumberland), VI, *b* 615; (England), VIII, a 196
Scazon, metre (Greece), XI, b 124; (Hipponax), b 763
Sceattas, coin (Numismatics), XVII, a 674
Sceberras, mountain (Malta), XV, a 343, b 344
Scelidosauridæ (Reptiles), XX, a 456 note
Scene painting (De Loutherbourg), VII, b 46-7
Scenery (Himalaya), XI, b 745-6
——, stage (Drama), VII, b 353, b 374; (Theatre), XXIII, b 241, a b 243, b 244, note
Scenes in South Africa (Moffat), XVI, b 566
—— *of Infancy* (Leyden J.), XIV, a 496
Scepsis, ancient town (Troad), XXIII, b 617, *a* 618
SCEPTICISM, XXI, b 395-401
  Academy, Greek, b 396-7
  Alexandrian school, b 397
  authorities, a b 401
  Carneades, a b 397
  comparison of ancient and modern, a b 398
  faith, a motive to, b 398-9
  fifteenth to eighteenth century, b 399-400
  function of, a 401
  Hume, a b 400
  Kantianism, b 400
  nature and origin of, b 395
  Pascal, a 399
  prejudices, basic, b 400-1
  Pyrrho, b 396
  Sophists, b 395-6
  troops of Ænesidemus, b 397-8

——

—— (Academy), I, *b* 67; (Al-Gazali), b 450; (Arcesilaus), II, a 286; (Charron), V, *b* 373; (Hegel), XI, a 552; (Hume), XII, a 362, a b 369; (Italy), XIII, a 517, a 520; (Locke), XIV, b 767; (Metaphysic), XVI, b 102-3; (Montaigne), b 796; (Neoplatonism), XVII, b 342; (Occam), a 739; (Reformation), XX, a 336; (Reid), b 363; (Robertson), b 613-4; (Socrates), XXII, b 248, *a* b 250; (Sophists), XXII, *b* 277, a 281, a b 282; rise of (Scholasticism), XXI, b 448, a 449
—— in 12th century (Averroes), III, a b 131
Sceptics (Medicine), XV, a 812
Sceptic's Walk (Diderot), VII, b 168
SCEPTRE, emblem, XXI, b 401-2
Scesvenna, Piz (Alps), I, a 546, b 551
Schaaf, Karl, orientalist (Syriac Literature), XXII, a 864 note
Schaal, Adam, Jesuit (China), V, b 564; (Chronology), a 623
Schach Dagh, mountain (Caucasus), V, b 221, b 223
Schack, Adolf Friedrich von, critic (Calderon), IV, b 585, *a* 587
Schack-Staffeldt, Adolph, poet (Denmark), VII, b 80
Schade, Oscar (Ursula, St.), XXIV, b 18 note
SCHADOW, Friedrich Wilhelm, painter, XXI, b 402; (Hildebrandt), XI, b 728; (Overbeck), XVIII, b 80
SCHADOW, Johann Gottfried, sculptor, XXI, a 402
SCHADOW, Rudolph, sculptor, XXI, a b 402
SCHAFARIK or Safarik, Paul Joseph, philologist, XXI, b 402-3; (Servia), a b 720, a 722, a 723, a 724; (Slavs), XXII, *a* *b* 154, a 155, *a* b 156, a 158, *a* 160, a 163
Schafberg, mountain (Salzkammergut), XXI, a 253
Schäfer, E. A. (Anatomy), I, a 753; (Hydrozoa), XII, b 584, *a* 585
——, Johann Wilhelm, critic (Goethe), X, a b 656
Schäfer's Manometer, XV, b 503
SCHAFFHAUSEN, canton, XXI, b 403; (Switzerland), XXII, a 814, a 816, b 818, *a* 825, *a* 829
SCHAFFHAUSEN, city, XXI, b 403-4; (Switzerland), XXII, b 816, a 818, *a* 828; bridge (Bridges) (Ill.), IV, a 300, a 301; truss (Bridges) (Ill.), b 290
Schäffle, Albert (Political Economy), XIX, *a* b 406, a b 407, a 408; (Socialism), XXII, a 218, b 231, b 232
Schaffner and Helbig process (Sodium), XXII, a 257
Schaibani Khan, Usbek chief (Baber), III, *b* 155
SCHALCKEN, Godfried, painter, XXI, a 404
Schalmey, musical instrument (Oboe) (Ill.), XVII, a b 725-6

Schalow, ornithologist (Touraco), XXIII, b 518
SCHAMYL, patriot, XXI, a 404; (Caucasus), V, *a* b 225; (Kaluga), XIII, a 840
SCHANDAU, town, XXI, a 404; (Elbe), VII, a 717
Schank, mountain (South Australia), XXII, b 297, a 298
Schanolt, Colombe, of Bamberg (Stigmatization), XXII, a 578
Schara river (Slonim), XXII, b 170, a 171
Scharf stop (Organ), XVII, b 855
SCHARNHORST, Gerhard Johann David von, general, XXI, a 404
Schärtlin, Sebastian, general (Charles V.), V, b 360
SCHASSBURG, town, XXI, a 404
Schattenburg, town. See Feldkirch
Schauenburg counts (Hamburg), XI, *a* 365
Schaumburg-Lippe, principality, XIV, b 689-90
Schauspiel (Drama), VII, b 342
Schedæ Vaticanæ, Virgil (Miniature), XVI, a 457
Scheel, Heinrich Otto von (Political Economy), XIX, b 407, a 408, a 415; (Socialism), XXII, b 216-7, b 232
SCHEELE, Karl Wilhelm, chemist, XXI, b 404-5; (Atmosphere), III, b 29; (Chemistry), V, a 401, a 425, a 446, b 481; (Chlorine), a 589; (Citric Acid), a 694; (Glycerin), X, b 621, b 622; (Lactic Acid), XIV, a 197; (Metals), XVI, b 68; (Oxalic Acid), XVIII, a 95; (Phosphorus), b 827; (Photography), a b 834, a b 848; (Prussic Acid), XX, b 26; (Soap), XXII, b 213; (Sodium), a 255; (Tartaric Acid), XXIII, a 75; (Tungsten), a 645
Scheele's green (Copper), VI, a 312; (Pigments), XIX, b 96
Scheelite (Mineralogy) (Ill.), XVI, a 420
Scheemakers, Pieter, sculptor (Sculpture), XXI, a 587
Scheerer, mineralogist (Geology), X, *b* 231, a 234
Scheererite (Mineralogy), XVI, b 447
Schefer, Leopold, poet (Germany), X, a 488
Scheffauer, Philip Jakob von, sculptor (Dannecker), VI, a 712
SCHEFFER, Ary, painter, XXI, b 405-6; (Delacroix), VII, a 36
——, Henri, painter, XXI, a 406
——, John, inventor (Pen), XVIII, b 494
Scheffler, Johann (Angelus Silesius), II, a 27; (Hymns), XII, b 621, a 622; (Mysticism), XVII, a 142
Scheibe, mountain (Glarus), X, b 566
Scheibler, Johann Heinrich, inventor (Tuning-Fork), XXIII, a b 659
Scheibler's strontia process (Sugar), XXII, a 657, a b 660
Scheiner, Christoph, astronomer (Astronomy), II, a 685, a 686; (Telescope), XXIII, a 148
Scheiner's experiment (Eye), VIII, b 715
SCHELDT or Schelde river, XXI, a b 406; (Antwerp), II, b 126, a b 127; (Belgium), III, b 441-5; (France), IX, a 446, a 458; (Holland), XII, *a* 63, *b* 65, b 82, *b* 85, *b* 86; (Nord), XVII, *a* 548; (River Engineering), XX, *a* b 591; navigation of (Belgium), III, *b* 454, b 455, a 457; (Joseph II.), XIII, a 761
Schellbach, mathematician (Trigonometry), XXIII, a 609
SCHELLING, Friedrich Wilhelm Joseph von, philosopher, XXI, b 406-10
  absolute, character of the, a 410
  Berlin, last years in, b 408
  bibliographical, a 410
  educational period, b 406-7
  German philosophy, relation to, b 408-9
  Jena life, a b 407
  Munich residence, a b 408
  Naturphilosophie, a b 409
  transcendentalism, relation of, b 409-10
  Wurzburg professorship, b 407-8
—— (Æsthetics), I, a 196; (Baader), III, b 150; (Category), V, b 196; (Coleridge), VI, b 124; (Cousin), *b* 463, a 464, a 466, a *b* 467; (Eclectic), VII, a 558; (Ethics), VIII, b 536 note; (Evolution), a 667; (Hegel), XI, *b* 546, *a* b 547, *a b* 548, *a* 552; (Jacobi), XIII, a b 547; (Logic), XIV, b 805; (Lotze), XV, *a b* 14, b 16; (Metaphysic), XVI, b 92-3, b 104, a 105, a b 107; (Morphology), b 865; (Mysticism), XVII, a 140, b 142; (Schleiermacher), XXI, a 430; (Schopenhauer), a 478; (Theosophy), XXIII, a b 299; (Zoology), XXIV, b 846
—— school of art (Ast), II, b 642
Schelly, fish (Gwyniad), XI, b 309; (Powan), XIX, b 670
"Schemata" (Kant), XIII, b 862
Scheme arches (Building), IV, b 415
SCHEMNITZ, town, XXI, b 410; mining (Gold), X, a 661, a 665
Schenck's process (Flax), IX, b 257, a b 258
SCHENECTADY, New York, city, XXI, b 410
Schenkel, Lambert, teacher, (Mnemonics), XVI, b 556
Schenkendorf, Max von, poet (Gilsit), XXIII, a 418
"Schepenen" (Holland), XII, a 75
Scheppler, Louise, savant (Oberlin, J.F.), XVII, b 723
Scherer, Barthélemi Louis Joseph, general (France), IX, b 536
Scherner, psychologist (Dream), VII, *b* 394, b 396
SCHETKY, John Alexander, painter, XXI, b 410
SCHETKY, John Christian, painter, XXI, b 410-1
Scheutz, George, inventor (Calculating Machines), IV, b 581
SCHEVENINGEN, village, XXI, a 411; (Holland), XII, b 62, b 63, b 70
Schiavone, weapon (Sword), XXII, b 840
——, Andrea Medula le, painter (Robusti), XX, b 624
SCHIAVONETTI, Luigi, engraver, XXI, a 411
Schick, C., architect (Jerusalem), XIII, a 647, b 651 note
SCHIEDAM, town, XXI, a b 411
——, liquor (Gin), X, b 537
SCHIEFNER, Franz Anton, philologist, XXI, b 411-2; (Castren), V, b 174; (Georgia), X, a 389, b 390
Schiehallion, mountain (Perth), XVIII, b 678; (Scotland), XXI, a 548; experiment (Astronomy), II, b 693, a 694; (Maskelyne), XV, a 616
Schiel, fish (Pike-Perch), XIX, a 98
Schienfer, A., orientalist (Tibet), XXIII, a 366, a 368 note, a 369
Schieringers, people (Frisians), IX, a b 692
Schiermonnikoog, island (Holland), XII, b 62, b 63
Schiller, Hermann, historian (Tiberius), XXIII, a 359; (Trajan), b 537
SCHILLER, Johann Christoph Friedrich, poet, XXI, a 412-5
  bibliographical, a 415
  characteristics, a 415
  education, b 412
  Goethe associations, a b 414
  Jena professoriate, b 413-4
  Mannheim experience, a 413
  military service, b 412-3
  parentage, a b 412
  Saxony, residence in, a b 413
  Weimar days, b 413, b 414-5
—— (Æsthetics), I, a 198; (Cotta, J. F. F.), VI, *b* 426, *a* 427; (Dannecker), a b 712; (Drama), VII, a 379, b 382; (Fine Arts), IX, b 173-4; (Germany), X, b 480, a *b* 481-2, b 483; (Goethe), a 649, *a* *b* 651-3, *a* 656; (Holderlin), XII, a 60; (Humboldt, W.), b 359, a 360; (Mannheim), XV, b 501; (Weimar), XXIV, *a* b 519
——, physicist (Electricity), VIII, b 35, a 36, b 77
——, Johann Kaspar, surgeon (Surgery), XXI, a b 412
Schiller-Szinessy, S. M., orientalist (Psalms), XX, b 39. See List of Contributors.
Schilling, Diepold, two Swiss chroniclers (Winkelried), XXIV, a b 645
Schimmelmann, E. H., count von (Schiller), XXI, b 413
Schindler, Houtum, general (Persia), XVIII, a 638, a 643, b 665
SCHINKEL, Karl Friedrich, architect, XXI, a 415; (Berlin), III, b 512, *b* 515, a 516
Schinus, genus (Pepper-Tree), XVIII, b 529; (Peru), b 686
Schinznach, baths (Aarau), I, b 10
Schirach, Adam Gottlieb, agriculturist (Bee), III, b 418, b 425, a b 429
SCHIRMER, Friedrich Wilhelm, painter, XXI, a b 415
SCHIRMER, Johann Wilhelm, painter, XXI, b 415
Schirmerite (Mineralogy), XVI, a 411
Schiskoff, chemist (Gunpowder), XI, a b 288, a 295
Schism, Eastern (Felix III.), IX, b 58; (Justin I.), XIII, a 801; (Justinian I.), a 805; (Michael VIII.), XVI, b 235; (Greece), XI, b 102-3, a 107, a b 133; (Greek Church), a 139-40
——, the Great (Gerson), X, b 491; (Gregory XI), XI, b 159; (Italy), XIII, b 486, b 490; (Popedom), XIX, a b 505, b 516; (Rome), XX, b 820, a 822
——, Scotch (Presbyterianism), XIX, b 704
—— Act (England), VIII, a b 317
Schistose rock (Geology), X, b 204, b 210-1, b 278-80
Schistostega, mosses (Musicineæ), XVII, a 78
Schists, rocks (America), I, a 590; (Geology) (Ill.), X, a 206
Schizæaceæ (Ferns), IX, a 92
Schizocarp, fruit (Botany) (Ill.), IV, b 136, b 139
Schizocœla (Animal Kingdom), II, b 47, a 48
Schizognathæ, group (Birds), III, a b 605, b 615, a b 616; (Ornithology), XVIII, b 38-9, b 43
SCHIZOMYCETES (Ill.), XXI, b 415-25
  alliances of, b 415
  bibliography of germ theory, a b 425 notes
  chemical agents, effects of, a b 424
  classification, a b 423
  cultivation of, b 417
  disease theory, a b 425
  fermentation, b 424-5
  food attraction, b 424
  form and structure (Ill.), a 418
  general characteristics, b 415-6
  germ theory of disease, history of, a b 417
  history of research, b 416-7
  morphology (Ill.), b 417-23

- SCHIZOMYCETES, *continued*
  - nutrition, b 423-4
  - physical conditions, effects of, a 424
  - physiology of, b 423-5
  - pleomorphism (Ill.), b 421-3
  - reproduction (Ill.), a 419-21
  - size of, a 418
  - spores, a b 421
  - vegetation states (Ill.), a 418-9
  - zooglœæ (Ill.), a 420-1
- —— (Biology), III, b 599; (Fungus), IX, a b 734; (Vegetable Kingdom), XXIV, a 137, a b 139
- Schizonemertea, sub-order (Nemertines) (Ill.), XVII, b 335-6, *a b* 337, *a b* 338, a *b* 339, *a* b 340
- Schizophyta, group (Schizomycetes), XXI, b 415
- Schizorrhis, genus (Touraco), XXIII, b 518
- Schizothorax, fish (Ichthyology), XII, b 710, a 731
- Schjellerup, Hans C. F. C., astronomer (Time), XXIII, a 419
- Schladaer Säurling. See Franzensbad
- Schläger, weapon (Sword), XXII, a 842
- Schlagintweit, Adolf, traveller, XXI, *b* 425; (Yarkand), XXIV, b 764
- ——, Edward, soldier, XXI, a 426
- ——, Emil von, orientalist, XXI, a 426; (Tibet), XXIII, b 366, b 370
- ——, Robert, traveller, XXI, *b* 425, *a* 426
- SCHLAGINTWEIT - SAKUNLUNSKI, Hermann von traveller, XXI, b 425-6
- Schlangenbad, village (Schwalbach), XXI, a 481; (Mineral Waters), XVI, a 452
- Schlasler, Max (Æsthetics), I, b 194, *a b* 197, a 199, b 201
- SCHLATTER, Michael, missionary, XXI, a 907
- SCHLEGEL, August Wilhelm von, critic, XXI, a b 426; (Euripides), VIII, b 595, a 596; (Germany), X, b 484; (Lassen), XIV, *b* 322
- ——, Caroline von, littérateur (Schelling), XXI, b 407, a 408
- ——, Dorothea Mendelssohn, littérateur, XXI, a 427
- ——, Frederick von, critic (Æsthetics), I, a 198; (Agriculture), *a* 261
- ——, Hermann, naturalist (Dodo), VII, *a* b 279, notes; (Heron), XI, b 679, a *b* 680, a 681; (Indian Archipelago), XII, *a* 857; (Ornithology), XVIII, a 18, b 21; (Tinamou), XXIII, b 429; his catalogue of Pigeons, XIX, a 94
- ——, Johann Adolf, divine, XXI, a b 426
- SCHLEGEL, Johann Elias, dramatist, XXI, b 426; (Germany), X, b 477
- ——, Johann Heinrich, historian, XXI, b 426
- SCHLEGEL, Karl Wilhelm Friedrich von, historian, XXI, a b 426-7; (Schleiermacher), b 427, a 438; (Æsthetics), I, a 198; (Agriculture), *a* 261; (Calderon de la Barca), IV, b 586, a 587; (Germany), X, b 484
- Schleglerkrieg, feud (Swabia), XXII, a 767
- Schlei, bay (Schleswig), XXI, *b* 431, a 432
- SCHLEICHER, August, philogist, XXI, a 427; (Greece), XI, a 113, *b* 115, a 117; (Philology), XVIII, b 795, a 796, b 798; (Slavs), XXII, a b 156, a *b* 158, note, a 160, a b 163, a b 164
- SCHLEIDEN, Matthias Jakob, botanist, XXI, a 427; (Morphology), XVI, a 867, a 868
- Schleierfall (Gastein), X, a 97
- SCHLEIERMACHER, Friedrich Daniel Ernst, theologian, XXI, a 427-31
  - antithesis of real and ideal, a b 429
  - appearance of, a 429
  - Berlin university days, a 428-9
  - bibliographical, b 431
  - charity chaplaincy period, b 427-8
  - ethics of, a b 430
  - Halle professoriate, a 428
  - method, b 431
  - philosophical system, a 429-30
  - psychology of, 429-30
  - religious system of, b 430-1
  - Stolpe pastorate, a 428
  - student life, a b 427
- —— (Baur), III, b 387; (Burmah), IV, a 496; (Dogmatic), VII, a b 289, note, a b 291, b 296, *a* 297; (Germany), X, b 485; (Gospels), b 747, a 749; (Hegel), XI, b 550; (Hermeneutics), b 663, a 664, a *b* 669; (Jesus Christ), XIII, b 682, a 683; (Logic), XIV, b 805, a 806 (Logos), a 813; (Neander), XVII, *b* 313, a 314; (Pastoral Epistles), XVIII, b 356; (Plato), XIX, b 223; (Rationalism), XX, a 302, a 303; (Spinoza), XXII, b 418; (Theism), XXIII, b 264, a 265; (Theology), b 291, b 296; (Thirlwall), a 326
- SCHLESWIG, city, XXI, b 431-2
- ——, duchy (Denmark), VII, *b* 77, a 78; (Sweden), XXII, a 785; march (Germany), X, b 433, a 434, a 437
- SCHLESWIG-HOLSTEIN, province, XXI, a 432-4; (Bunsen), IV, a 469 (Longevity), XIV, b 869; (Oldenburg), XVII, b 779, *a* 780; (Oyster), XVIII, b 111, b 112, b 114; (Prussia), XX, *a b* 18, *b* 20, a b 21; Prussian annexation of (Palmerston), XVIII, b 201-2; (Balance of Power), III, a 234
- —— controversy (Germany), X, b 454, a 456, b 457-9; war, 1864 (Austria), III, b 121, b 122
- SCHLETTSTADT, town, XXI, a 434
- Schlick, Kaspar, chancellor (Pius II.), XIX, b 162
- Schliemann, Heinrich, archæologist (Archæology), II, b 298; (Ithaca), XIII, a 527; (Ivory), b 533, b 534; (Jade), a 550; (Jewellery), b 686; (Tiryns), XXIII, a b 435; (Troad), b 618-9
- Schlömilch, Oscar, mathematician (Infinitesimal Calculus), XIII, b 43; (Tables), XXIII, *a b* 19
- Schlossberg (Gratz), XI, b 57
- Schlossbrücke, bridge (Berlin), III, b 512
- Schlosser, Cornelia (Goethe), X, a 643, b 644, a b 647
- ——, Friedrich Christoph, historian (Gervinus), X, *a* 494, a 495
- ——, Johann Georg, critic (Goethe), X, a 644, b 645, a 646, a 647, b 651, a 656
- Schlossvorstadt, town (Kalbe), XIII, a 836
- SCHLOZER, August Ludwig von, historian, XXI, a 434
- Schlözer, Christian von, economist, XXI, a 434; (Political Economy), XIX, *b* 401
- ——, Kurd von, historian (Slavs), XXII, b 154
- Schlüter, Andreas, sculptor (Sculpture), XXI, a 593
- Schlyter, Karl Johan, philologist (Scandinavian Languages), XXI, a 387, note, a 388; (Sea Laws), *a b* 612, a 613; (Sweden), XXII, b 791, a 796
- SCHMALKALDEN, town, XXI, b 434
- Schmalkald League, 1531 (Reformation), XX, *a* b 346
- Schmalz, Theodor, publicist (Political Economy), XIX, a 377
- Schmeisser's formulæ (Trigonometry), XXIII, b 602
- Schmelz, glass (Glass), X, a 581
- Schmerling, Dr. (Anthropology), II, a 102
- Schmid, K. A., editor (Education), VII, b 588
- Schmidt, Carl, scholar (Nicholas of Basel), XVII, b 499, a 500
- ——, Carl, naturalist (Tunicata), XXIII, b 647
- ——, F., geologist (Geology), X, a 300
- ——, Friedrich, architect (Vienna), XXIV, a 238
- ——, Heinrich Julian, critic (Germany), X, a 487, b 488
- ——, Isaac Jacob, orientalist (Rubruquis), XXI, b 53; (Tibet), XXIII, a 368 note, a 369
- ——, Johann, philologist (Greece), XI, a 113; (Slavs), XXII, b 156, a 158
- ——, J. Lorenz, translator (Tindal), XXIII, a 431
- ——, J. F. Julius (Astronomy), II, a b 701, a 708; (Greece), XI, a 75, a 81; (Meteor), XVI, b 114; (Zodiacal Light), XXIV, *a* 836, a 837
- ——, Oscar, naturalist (Brachiopoda), IV, b 172, a 173
- ——, Sebastian, philologist (Ural-Altaic), XXIV, b 6, b 7
- ——, Ulrich, traveller (Paraguay), XVIII, b 249
- Schmitt, historian (Poland), XIX, *b* 316-7
- Schmitz, Leonhard, scholar (Niebuhr, B. G.), XVII, b 505, a b 506
- Schmolke, Benjamin, poet (Hymns), XII, *a* b 622
- Schmoller, Gustav (Political Economy), XIX, *a* b 406, b 407, a 408
- Schmucker, Samuel Mosheim, biographer, XXI, a 907
- SCHMUCKER, Samuel Simon, theologian, XXI, a 907
- Schnebelhorn, peak (Zurich), XXIV, b 869
- Schneckenstein, rock (Topaz), XXIII, a 475
- Schneeberg, town and district (Saxony), XXI, a 369, a 373; (Bismuth), III, b 686, b 687; (Uranium), XXIV, b 11
- ——, mountain (Fichtelgebirge), IX, b 121; (Moravia), XVI, a 836
- Schnee Berge, mountains (Africa), I, a 225
- Schneebergite (Mineralogy), XVI, b 446
- Schneegruben, valleys (Riesengebirge), XX, b 566
- Schneekopf, mountain (Saxe-Coburg-Gotha), XXI, *a* 363; (Thuringia), XXIII, a 353
- Schneekoppe or Riesenkoppe, mountains (Austria), III, a 101; (Germany), X, b 403; (Riesengebirge), XX, b 566, a 567
- SCHNEIDEMUHL, town, XXI, b 434; (German Catholics), X, *a* 400
- Schneider, geologist (Indian Archipelago), XII, a b 855
- ——, Aimé, naturalist (Protozoa), XIX, *b* 877, *b* 878, a b 891
- ——, Johannes, reformer. See AGRICOLA
- Schneiderite (Mineralogy), XVI, a 398
- Schneider's process (Platinum), XIX, a 202
- Schnepfenthal school (Education), VII, a 587
- Schnitter or Schneider, reformer. See AGRICOLA
- SCHNORR VON KAROLSFELD, Julius, painter, XXI, b 434-5
- Schoeffer, Johann, publisher (Typography), XXIII, a 724, *a* 732
- —— de Gernssheym, Peter, printer (English Bible), VIII, a b 344; (Fust), IX, *b* 750, a b 751; (Typography), XXIII, a b 723, a 724, *b* 727, *a* b 728, b 729, *a b* 731, *a* 732, a b 734, a 736, a 739
- Schoell, Adolf, archæologist (Latin), XIV, a 329; (Roman Law), XX, b 697 note
- Schoepflin, antiquary (Typography), XXIII, b 733, a 737
- Schöffen, assessors (Prussia), XX, *a* 23
- Schofield, John McAllister, general (United States), XXIII, b 826
- Schokland, island (Holland), XII, b 62

Scholæ militum (Rome), XX, a 802, b 805–6
Schola Persica, theological school (Edessa), VII, b 566
Scholarius, Georgius, patriarch (Gennadius), X, b 137–8
Scholarships in American Universities, XXIII, a 961; in Belgium, III, a 449
SCHOLASTICISM, XXI, a 435–49
  Abelard, a 442–3
  Alexander Hales, school of, b 444–5
  Anselm, a 440
  antecedents of, a 435
  Aquinas, b 445–6
  Aristotelian revival, b 443-5
  authorities, a 449
  Berengarius, a 439
  Bernard of Clairvaux, b 442–3
  Boetius, influence of, a 438
  Chartres, school of, a 439, b 441–2
  chronological limits of, a b 435
  decline of, b 448–9
  Duns Scotus, b 446–7
  Erigena, b 437–8
  freedom of will, a b 447
  Fulda, school of, a 438–9
  indifference theory, a b 441
  individuation theory, a 446–7
  Isagoge, Porphyry's, a 437
  John of Salisbury, b 443
  logic and theology, b 435, a 439, b 443
  mysteries, exclusion of, a 446
  Occam, William of, a b 448
  progressiveness of, b 436
  reason and authority, b 435–6
  Roscellinus, influence of, a 439-40
  schoolmen, knowledge of, a b 437
  Summists, a 443
  thirteenth century, b 445–7
  Thomists and Scotists, b 447
  universals, b 436–7
  William of Champeaux, a 440–1

—— (Anselm), II, a b 82; (Apologetics), a 168; (Aquinas), a b 202; (Averroes), III, b 130, a b 131; (Avicebron), b 132; (Baader), a 151; (Brahmanism), IV, b 188–9; (Duns Scotus), VII, b 470–1; (English Literature), VIII, a 365, b 370; (Erigena), a 462–4; (Ethics), a 522–4; (Henry of Ghent), XI, a 601; (Hobbes), XII, b 34; (Medicine), XV, b 816–7; (Metaphysic), XVI, a 87, b 96; (Mysticism), XVII, b 138, a 140; (Neoplatonism), a 347; (Occam), a 738–9; (Scepticism), XXI, b 398–9; eulogy of (Christianity), V, b 606
——, Mahometan (Al-Gazali), I, a b 450; (Arabian Philosophy), II, b 232-3, b 235; (Averroes), III, a b 130
Scholastic learning (Bacon, R.), III, a b 189; Logic, XIV, a b 790, a b 799; (Metaphysic), XVI, b 99, b 100; Theology, XXIII, b 280, a 281; (Angel), II, a 27; (Baptism), III, b 301–2; (Dogmatic), VII, a b 295; (Inspiration), XIII, b 162
Scholemaster (Ascham), II, a 593
SCHOMBERG, Frederick Armand, duc de, marshal, XXI, a b 449; (Portugal), XIX, b 563, *a* 564
Schomburgk, Sir Robert, explorer (Geography), X, a 174
Schönau, village (Teplitz), XXIII, b 200
SCHONBEIN, Christian Friedrich, chemist, XXI, b 449, note; (Electrolysis), VIII, a 102, *a* 103; (Ozone), XVIII, b 116–7
Schönbrunn decree (Concordat), VI, a 215
SCHONEBECK, town, XXI, b 449
SCHONEBERG, town, XXI, b 449
Schönemann, Lili, inamorata (Goethe), X, *b* 647, *a* 648, a 649
Schonen, island (Hanseatic League), XI, a 403
Schöner, Johann, geographer (Globe), X, a b 607
SCHONGAUER, Martin, artist, XXI, b 449-50; (Engraving), VIII, b 392–3; (Pottery and Porcelain), XIX, b 645
Schöning, Gerhard, historian (Norway), XVII, a 604
Schöningen, town (Brunswick), IV, b 360, a 361
Schönkopf, Käthchen, inamorata (Goethe), X, a 644, a 649
Schönlein, Johann Lucas, physician (Medicine), XV, b 826
School boards, English (Education), VII, b 589–90; (Women), XXIV, a 674, a b 676
Schoolboy, ancient dress of (Essex), VIII, b 489
SCHOOLCRAFT, Henry Rowe, ethnologist, XXI, a b 450, note
School for Scandal, play (Sheridan), XXI, a *b* 835
School grammars (Grammar), XI, a 39
—— *Histories* (Goldsmith), X, a 679
—— house (Abbey), I, a b 19
——-lands (Michigan), XVI, b 248; (United States), XXIII, a 812
—— Logic, XIV, b 811
Schoolmen. See SCHOLASTICISM
Schoolmistresses in British Army, II, b 512
School of Athens (Raphael), XX, b 290, note
—— of engineering, British (Army), II, a 513; of gunnery, a 513
—— of Homer, sanctuary (Scio), XXI, b 487
—— of mining, Freiberg, IX, a 670; (Werner), XXIV, *a* 530
—— of music, British Army, II, b 513; of musketry, b 513
School of Pan (Signorelli), XXII, b 55; (Schools of Painting), XXI, a 453
—— of Pythagoras (Cambridge), IV, b 645
—— of Siphnos or Holy Tomb (Siphanto), XXII, a 103
—— -rooms (Ventilation), XXIV, a b 171, note, a 172, a b 175, a 176
Schools (Austria), III, a b 103; (Belgium), b 447–9; (Berlin), b 514–5; (Blind), b 717, a 720–2; (Cloister), VI, a b 36; (Constantinople), a 274; (Edinburgh), VII, b 577–8; (Egypt), b 680, a 681; (Germany), X, a 423–4; (Glasgow), b 574–5; (Gothenburg), b 751; (Greece), XI, a b 78, a 111; (Haddington), b 324; (Holland), XII, b 69; (Hungary), a b 380, a 388; (India), a 814–5; (Ireland), XIII, a 247–8; (Italy), a b 471; (Jamaica), b 559–60; (Japan), b 588, a 590; (Jesuits), b 659, a 664; (Kindergarten), XIV, b 81–2; (Navy), XVII, b 305–6; (Prussia), XX, b 21; (Salonica), XXI, b 238–9; (Scotland), b 559–60; (Siberia), XXII, a 16; (Stockholm), b 588; (Sunnites), b 695–6, (Women), XXIV, b 910–1. See Colleges, École, EDUCATION, Gymnasia, Industrial Schools, TECHNICAL EDUCATION, UNIVERSITIES
School Savings Bank, XXI, b 346, a 347
SCHOOLS in the United States, XXI, a 907–12
  compulsory features of, a b 909
  faith in higher education, b 909–10
  local control, a b 908
  national features, b 907–8
  Southern States, a b 911
  supervision, b 910–1
  teachers, training of, b 910
  tendencies of, b 911–2
  universality and gratuity of, b 908–9
  women, equal advantages for, a b 910

—— (Connecticut), VI, a 257; (Hartford), XI, *b* 444; (Philadelphia), XVIII, b 753; (San Francisco), XXI, a b 277; (Stevens), XXII, a 573 note; (United States), XXIII, a 814; (Utah), XXIV, b 25, a 26
——, ancient (Alcuin), I, b 417; (Minerva), XVI, b 456
——, Army, British, II, b 512–3; Russian (Army), b 534
——, Artillery, Austrian, II, a 583; British, a 575
——, cathedral (Universities), XXIII, a *b* 887, a 888, *a* 890, a 898
——, English, VIII, a 225–6, b 231; (Birmingham), III, a 680; (Bristol), IV, b 317; (Education), VII, b 589–93; (Gloucester), X, b 616; (Government), XI, b 17; (Gymnastics), b 321; (Harrow), a 443; (Hartlepool), *a* 445; (Hertford), b 690; (Leeds), XIV, b 408, a 409; (London), a 844; (Manchester), XV, b 469; (Peterborough), XVIII, b 713; (Plymouth), XIX, a 248; (Poor Laws), a b 491; (Shakespeare), XXI, a 787–8
——, Forest, IX, b 351, a b 352, *a* b 353, b 354, a 355, a 356
——, French, IX, b 453; (Libraries), XIV, b 525; (Navy), XVII, a b 308; (Paris), XVIII, b 285–6
——, Gladiators', X, b 563
——, Indian, XXI, a 911; (Oregon), XVII, b 848
——, industrial (Technical Education), XXIII, b 114–7; (Paris), XVIII, a b 286
——, Irish early (Celtic Literature), V, b 264-5; (Ireland), XIII, a *b* 256, b 257; hedge (Carleton), V, a 95
——, Jewish, XIII, a 694, a 695, a 696, a b 697; (Semitic Languages), XXI, b 677–8
——, law (Beyrout), III, a 538; (Inns of Court), XIII, b 93–8; (Universities), XXIII, a b 888, a b 889, a *b* 891, *a* 892, a 893, *a* b 894; statistics in United States, 963; (Vico), XXIV, a 229
——, military. See Military Schools
——, monitorial (Bell, A.), III, a 466
——, Musical, XVII, b 90, note; (Conservatory), VI, a b 260
——, negro (Slavery), XXII, a 910
——, polytechnic (Zurich), XXIV, a 870
——, primary (Belgium), III, b 447; (Germany), X, *a* b 423
——, Prussian (Gymnastics), XI, b 311, a 312
——, ragged (Guthrie), XI, a 301
SCHOOLS, REFORMATORY AND INDUSTRIAL, XX, a 350–2
——, Roman Catholic (Canada), IV, a b 690; (France), IX, b 453; (Ontario), XVII, *b* 797
——, Syrian (Syriac Literature), XXII, a 866
——, technical. See TECHNICAL EDUCATION
——, Veterinary, XXIV, b 214-6
SCHOOLS OF PAINTING (Ill.), XXI, a 450-69
  Arezzo, b 454, b 462
  bibliography, a 468–9
  Bologna, b 455, a 463
  Brescia, b 455, a 463
  British, b 460–1, a b 464, a b 469
    galleries, a 465–6
  Cremona, a 456, b 463
  definition, a 450–1
  Dutch, a b 459, b 463–4, b 468
  Ferrara, b 455, a 463
  Flemish, b 457–8, b 463, b 468
  Florence, b 452–3, a b 462

SCHOOLS OF PAINTING, *continued*
- Florentine galleries, a b 467
- French, a b 460, a 464, b 468–9
- galleries of Europe, a 465–8
- German, a b 457, b 463, *b* 468
  - galleries, a b 466
- Italian, a 451–7, a 462–3, a b 468
  - galleries, a 467–8
- London galleries, a 465–6
- Louvre, a 466
- Lucca and Pisa, b 451, a 462
- mediæval methods, a 451, a 468
- Milan, a b 456, a b 463, b 467–8
- Modena and Parma, b 455–6, a 463
- Naples, b 456–7, b 463
- Netherland galleries, b 466
- Padua, b 453–4, b 462
- painters, list of, a 462–4
- Roman galleries, a 467
- Rome, b 456, b 463
- St. Petersburg gallery, b 466
- Siena, b 451–2, a 462
- Spanish, b 459–60, a 464, b 468
  - galleries, b 466–7
- Umbria, a b 453, b 462
- Venice, b 454–5, b 462–3, b 467
- Verona, b 455, a 463

—— (Miniature), XVI, b 456–9; (Weimar), XXIV, b 519. See ART, FINE ARTS, Painting, Paintings, Picture Galleries
School ships in United States (Reformatories), XX, a 900
Schooner-yacht rig (Seamanship) (Ill.), XXI, b 622, a *b* 628, b 630
Schooten, Francis, mathematician (Porism), XIX, a 535
Schopenhauer, Adele, authoress, XXI, a 469, a 470, b 473, b 474 note
SCHOPENHAUER, Arthur, philosopher, XXI, a 469–79
- Berlin life, b 473–4
- bibliography, a 479
- Dresden residence, a 471–3
- *Ethics, Two Problems in*, a b 475
- eudæmonism of, a b 476
- Frankfort, settlement in, b 474–7
- Italian visit, a b 473
- last days, b 477
- parentage, a b 469
- personal characteristics, b 476–7
- philosophy of, b 477–8
- *Principle of Sufficient Reason*, b 470–1
- recognition of his genius, b 475
- religion of, b 476
- tendencies of his system, b 478–9
- university career, a b 470
- Weimar residence, a 471
- *Will in Nature*, a 475
- *World as Will and Idea*, b 471–3, b 475
- youth at Hamburg, b 469–70

—— (Æsthetics), I, a 197; (Bunsen), IV, a 467; (Dream), VII, b 394; (Evolution), VIII, b 667–8; (Germany), X, a b 486; (Pessimism), XVIII, a 701–2, b 704
——, Johanna Henrietta Trosiener, novelist, XXI, a *b* 469, *a* 470, a 471, b 474, note; (Germany), X, a 486
Schopi dialect (Slavs), XXII, b 158–9
Schöppenstedt, town (Brunswick), IV, b 360, a 361
Schorham's Psalter (English Bible), VIII, a 343
Schorl, mineral (Mineralogy), XVI, b 426
Schorlaceous Granite, XI, *a* 44
Schorlemmer (Chemistry), V, a 477, b 478, a 479 note, b 483
Schorlomite (Mineralogy), XVI, b 444
Schoterland, town (Friesland), IX, a 690
Schott, Casper (Aëronautics), I, *b* 168
——, C. A., surveyor (Surveys), XXII, a 939, *b* 940: his rain charts (United States), XXIII, b 857, a 858
——, Johan, printer (Typography), XXIII, a 724, a b 732
—— Kebir or Sebka-el-Faroon (Africa), I, b 229
Schouten, Jan, sailor (Geography), X, b 166
——, William, discoverer (Hoorn), XII, b 159
Schouw, Joachim Frederik, botanist (Denmark), VII, b 81
Schouwen, island (Zealand), XXIV, a 810
Schrader, Eberhard, orientalist (Slavs), XXII. a b 154
Schram's drill (Mining), XVI, a 469
Schreber, Johan Christoph D. von, naturalist (Kangaroo), XIII, a 848
Schreibersite (Iron), XIII, a 291
Schreijerstoren (Amsterdam), I, b 684
Schreyer monument, Nuremburg (Sculpture), XXI, a 592
Schröckh, Johann Matthias, historian (Church History), V, a b 669
Schroder, Fredrich Ludwig, actor (Drama), VII, b 381, b 382; (Hamburg), XI, *a* 363
Schröder, L. von, philologist (Sanskrit), XXI, b 291, note
Schröder's eye-piece, Hugo (Telescope), XXIII, a b 157; object-glasses (Telescope), *b* 153, a *b* 154
Schrön's *Logarithms* (Tables), XXIII, a b 15, a b 17
Schroon, river (Hudson River), XII, a 345
Schröter, Christoph Gottlieb, composer (Pianoforte), XIX, b 79, *a b* 80
——, Fr. Chr. G., orientalist (Tibet), XXIII, *a* 368 note
SCHROTER, Johann Hieronymus, astronomer, XXI, a 479; (Astronomy), II, b 691, *a* b 692, a 708; (Observatory), XVII, a 733
Schrötter, Anton von, professor (Matches), XV, a b 632–3
Schubart, Christian Friedrich Daniel, poet (Germany), X, a 483
——, philologist (Pausanias), XVIII, a 449
SCHUBERT, Franz Peter, composer, XXI, a 479–80
Schudy, family. See Tschudi
Schulte, Johann Friedrich von, theologian (Old Catholics), XVII, a b 776
SCHULTENS, Albert, orientalist, XXI, a 480, note; (Hebrew Language and Literature), XI, *a* 537 note; (Michaelis, XVI, a b 236; (Reiske), XX, *a* 367
SCHULTENS, Henry Albert, orientalist, XXI, a 480
SCHULTENS, John James, orientalist, XXI, a 480
Schultze, Franz Eilhard, biologist (Hydrozoa), XII, b 581 note, *b* 583, b 597; (Reproduction), XX, b 424; (Sponges), XXII, b 427, b 429, b 435, a 437, *b* 441, b 442, *b* 443, a b 444
SCHULTZE, Max Johann Siegmund, anatomist, XXI, a b 480; (Anatomy), I, b 717, *b* 740, b 742, a b 755, a 756, a 779, a b 780; (Embryology), VIII, a 155; (Parasitism), XVIII, b 273, a 274 note; (Protoplasm), XIX, a b 851, a 852; (Protozoa), a b 860; (Zoology), XXIV, a 855, a 856
Schultz's solution (Histology), XII, *b* 13, note, b 16, a 17, b 19
Schulze, G. P., critic (Periodicals), XVIII, b 551
—— -Delitzsch, Hermann, economist (Communism), VI, a 191, a 195; (Coöperation), a b 301; (Political Economy), XIX, a 408
Schulze's powder (Gun-Cotton), XI, b 246; (Shooting), XXI, a 874 note
Schulze's *Sammlung* (Tables), XXIII, a 16, a b 17, a *b* 18
SCHUMACHER, Heinrich Christian, astronomer, XXI, b 480; (Hansen), XI, a 404
Schumaker's correction formula (Barometer), III, b 331
Schumann, Clara, pianist, XXI, a 481
——, H. A., physicist (Photography), XVIII, a 851
SCHUMANN, Robert, composer, XXI, b 480–1; (Bennett, W. S.), III, a 496; (Berlioz), a 517; (Music), XVII, b 104
Schumi Dagh, mount (Caucasus), V, b 221
Schupp, Balthasar, divine (Germany), X, b 475
Schürman, Anna Maria von, pietist (La Badie), XIV, *b* 164
Schüsselburg, town (St. Petersburg), XXI, b 199, a 204
Schuster, Ignatz, composer (Tuning-Fork) XXIII, b 659
Schut, Cornelius, painter (Fyt), IX, *b* 752
Schutzmänner (Police), XIX, a 356
Schuyler, Eugene, diplomatist (Tourguenieff), XXIII, a 519 note
SCHUYLER, Philip, general, XXI, a b 912; (United States), XXIII, b 789, b 839
——, Pieter von, statesman, XXI, a 912
Schuylkill coal region (Pennsylvania), XVIII, a b 511
—— river (Philadelphia), XVIII, a 750, b 752
Schwab, Gustav, critic (Germany), X, b 485
SCHWABE, Samuel Heinrich, astronomer, XXI, a 481; (Astronomy), II, a 688; (Meteorology), XVI, a–b 175
Schwabenspiegel, law-code (Germany), X, b 465, b 470
SCHWALBACH, town, XXI, a 481; (Mineral Waters), XVI, b 453
Schwalenberg, Wittekind, count of (Waldeck), XXIV, b 342
Schwanenburg castle (Cleves), V, a 725
Schwaneria (Birds), III, a 662
SCHWANN, Theodor, physiologist, XXI, a b 481; (Schizomycetes), b 416, *a* 417; (Anatomy), I, b 717, a b 740, a 741, *b* 753; (Embryology), VIII, *a* 153; (Fermentation), IX, a *b* 83; (Morphology), XVI, *a* 867, a 868; (Zoology), XXIV, a b 855
SCHWANTHALER, Ludwig Michael, sculptor, XXI, b 481–2; (Sculpture), a 593
——, Xaver, sculptor, XXI, b 481
Schwartau, river (Oldenburg), XVII, a 779
Schwartz, Bertholdus, monk (Gunpowder), XI, a 282
——, Marie Sofia, novelist (Sweden), XXII, b 796
Schwartzembergite (Mineralogy), XVI, b 400
SCHWARZ or Schwartz, Christian Friedrich, missionary, XXI, a b 482; (Tamils), XXIII, a 49; (Tanjore), a 52
——, Friedrich Heinrich Christian, theologian (Education), VII, b 588, a 589
——, Karl Heinrich Wilhelm, theologian (Schwegler), XXI, b 483
SCHWARZBURG - RUDOLSTADT, principality, XXI, b 482
SCHWARZBURG - SONDERSHAUSEN, principality, XXI, b 482–3
Schwarzenberg, Felix Ludwig Johann Friedrich, prince (Germany), X, b 454, a 455, *a* 456
SCHWARZENBERG, Karl Philipp, prince of, marshal, XXI, a b 483; (Napoleon), XVII, b 226
Schwarze Schöps, beverage (Schweidnitz), XXI, a 484
Schwarzwald, mountains (Würtemberg), XXIV, *b* 735, a 736. See Black Forest

Schwatka, Frederick, explorer (Polar Regions), XIX, b 337–8
Schwedenburgen, defences (Vitrified Forts), XXIV, b 284
SCHWEGLER, Albert, historian, XXI, b 483; (Rome), XX, b 750 note, a b 751 notes, b 752 note, a b 753 notes, b 754 notes, b 824
SCHWEIDNITZ, town, XXI, b 483–4
Schweigaard, Anton Martin, jurist (Norway), XVII, b 606
Schweigger's multiplier (Electricity), VIII, a 13
Schweinfurth, Georg August, traveller (Africa), I, a 222, a 236; (Hyæna), XII, *a* 437; (Negro), XVII, a 326 notes, a b 327 notes; (Nile), a 520, a b 521; (Soudan), XXII, b 290; (Zaire), XXIV, b 802
SCHWEINFURT, town, XXI, a 484; green (Copper), VI, a 312; (Pigments), XIX, b 96
Schweinitz, Edmund Alexander de, bishop, XXI, a 913
SCHWEINITZ, Lewis David von, botanist, XXI, b 912–3; (Say), a 907
Schweitzer, geodesist (Earth), VII, b 521
Schweizer, Alexander, theologian (Dogmatic), VII, a 289, a 297
Schweizerpfeiff (Transverse Flute), XXIII, b 552
SCHWELM, town, XXI, a 484
Schwendener, Simon, naturalist (Biology), III, b 599; (Lichens), XIV, b 559, *a* b 560; (Parasitism), XVIII, a b 273, note; his system (Histology), XII, a 18
SCHWENKFELD, Caspar, mystic, XXI, a 484–5; (Boehme), III, a b 741; (Ornithology), XVIII, b 8
Schwentine, river (Oldenburg), XVII, a 779
SCHWERIN, city and lake, XXI, a b 485
"Schwert-brüder," military order (Livonia), XIV, *a* 731
Schwerter, game (Piquet), XIX, b 122
SCHWIND, Moritz von, painter, XXI, b 485–6
SCHWYZ, canton, XXI, a b 486; (Switzerland), XXII, b 815, 816, a 817, a 819, *a b* 820, *a* b 821, *a* b 822, *a* b 823, *b* 824, a 829, a 830, a 832, a *b* 833, b 834; (Tell), XXIII, a b 171; (Unterwalden), a *b* 915; town (Switzerland), XXII, b 815, b 816, a 822
Schylærus de Rheita. See Rheita
SCIACCA, town, XXI, b 486
Sciænidæ, family (Ichthyology), XII, b 695, a 704, b 715, a 716, *b* 719, b 727
Scialoja, Antonio, economist (Political Economy), XIX, b 400
Sciarra Colonna gallery (Schools of Painting), XXI, a 467
Sciatica, disease (Neuralgia), XVII, *b* 373; (Pathology), XVIII, b 399
Sciatic nerves (Anatomy), I, b 763
Science, defined (Analysis), I, a 699; (Art), II, b 557–8; (Descartes), VII, b 102, a 105; (Hamilton, Sir W.), XI, b 374; (Metaphysic), XVI, b 85, a b 86, a b 87, b 93, b 96, a 98, a 100–1, a 102–3; (Zoology), XXIV, a 838
—— (Babylonia), III, a b 165; (Egypt), VII, b 625–6; (France), IX, a b 590; (Goethe), X, a 650, b 653–4; (Italy), XIII, b 521, a 522; (Macedonian Empire), XV, b 145; (Renaissance), XX, a 398; (Sanskrit), XXI, b 301–9
——, Arabian (Al-Farabi), I, a 443; (Mohammedanism), XVI, a b 615, a 617–9
——, Association for the Advancement of. See SOCIETIES
——, experimental (Bacon, Roger), III, a 191
——, influence of (Animism), II, a b 50
——, modern foreshadowed (Cardan), V, a 81
——, pagan (Christianity), V, a b 606
——, physical. See PHYSICAL SCIENCES
——, promotion of (Patents), XVIII, b 874, a 875
——, Spinoza's conception of (Cartesianism), V, b 135, a 136
——, Vedic (Sanskrit), XXI, b 287–8, b 301–9
Science de l'Homme (Barthez), III, *b* 347
Science in relation to Theism, XXIII, b 268
—— of legislation (Filangieri), IX, b 139; Law, XIV, b 355
—— of religion (Theology), XXIII, b 281–2
Sciences, classification of (Bacon), III, b 182, note, a 184; (Comte), VI, a 209; (Physical Sciences), XIX, a 5–7; (Zoology), XXIV, a 838
Sciences, History and Philosophy of (Whewell), XXIV, b 569–70
Sciences, relations of the (Theology), XXIII, a b 291
Scientia generalis (Logic), XIV, a b 802
"—— media," God's (Molina), XVI, a 653
—— scientiarum (Theology), XXIII, b 291
Scientific Academies, I, b 68–71. See SOCIETIES
—— Aëronautics, I, b 175–80; American Periodicals, XVIII, a 556; Christianity (Lully), XV, b 65, *a* 66; congress (Italy), XIII, a 497
—— courses, American (Universities), XXIII, b 959, b 961–2
—— evidences of religion (Faraday), IX, a b 29; method in Church History, V, a 669–70; in (Theology), XXIII, b 232–3, a 284–5
—— Museums See Museums and specific names
—— problems of Æsthetics, I, a 192–3
—— publications, American (Signal Service), XXII, a 905; (Smithsonian), b 914–5; (Surveys), a b 938, b 939–40
—— research fund (Royal Society), XXI, a 45
—— schools (France), IX, b 453; (Paris), XVIII, a b 286
—— Societies, XXII, b 233–6; (Germany), X, a b 424; (Haarlem), XI, a 318; (Hamburg), b 362–3; (London), XIV, a b 845; (Manchester), XV, b 469; (Moscow), XVI, a 886; (Paris), XVIII, a 286, a 287; (Philadelphia), a 754; (Russia), XXI, b 78; (St. Petersburg), a b 203
Scienza Nuova (Italy), XIII, a 522
Scilla, plant (Horticulture), XII, a 260; (Hyacinth), a 436; (Squill), XXII, a 454
Scillus, in Elis, town (Xenophon), XXIV, *b* 756
SCILLY ISLANDS, XXI, b 486–7; (Cornwall), VI, a b 376; (Puffin), XX, a 107
Scilurus, kingdom (Scythia), XXI, a 605
Scimitar (Sword), XXII, b 840, a 841
Scincidæ, family (Lizard), XIV, b 739
Scintilla juris (Trust), XXIII, b 634
Scintled Brick, IV, b 250
SCIO, anciently Chios, island, XXI, a 487–8; (Greece), XI, b 90, b 111; (Mastic), XV, *a* 628; (Numismatics), XVII, a 664; massacre of (Turkey), XXIII, b 690; school of (Archæology), II, a 304, a 305
Scions, grafting (Horticulture), XII, b 217–8, b 241–2
Scioppius, Gaspar, Jesuit (Scaliger), XXI, a *b* 380
Sciopticon (Magic Lantern) (Ill.), XV, b 212, *a* 213, a 214
Scipio, family tombs (Inscriptions), XIII, a 134; (Latin), XIV, b 329; (Rome), XX, a 852
—— Barbatus, Cornelius, consul (Ring), XX, a b 575
——, Cneius Cornelius, general, XXI, *a* 488
——, Lucius Cornelius, general, XXI, b 488; (Rome), XX, b 771
SCIPIO, Publius Cornelius, general, XXI, a 488; (Hannibal), XI, a b 395, b 396
——, shield of (Plate), XIX, b 192
SCIPIO Africanus, Publius Cornelius, the Elder, general, XXI, *a* 488–9; (Cato), V, b 208; (Hannibal), XI, b 395, a b 397; (Rome), XX, b 767, b 768; (Spain), XXII, *b* 320
SCIPIO Africanus, Publius Cornelius Æmilianus, the Younger, general, XXI, a b 489; (Masinissa), XV, *a* 615; (Panætius), XVIII, a 212; (Polybius), XIX, *b* 425; (Rome), XX, *b* 769; (Spain), XXII, a 321; (Terence), XXIII, *a* 204
—— Nasica, Publius Cornelius, XXI, b 489
Scipion bakery, Paris (Baking), III, a 220, b 221
Scipionum Elogia (Latin Language), XIV, b 329
SCIRE FACIAS, writ, XXI, b 489–90
Sciritis, plain of (Greece), XI, b 74
Sciron, myth (Attica), III, a 53; (Theseus), XXIII, a 315
Scirrhus (Cancer), IV, a 707; (Pathology) (Ill.), XVIII, b 389
Scirtopoda, order (Rotifera), XXI, a 12
Scissel, clipped metal (Mint), XVI, b 511
Scissorbill, bird (Skimmer), XXII, a 128 note
Scittace, bird (Macaw), XV, a 131
Sciuridæ, family (Mammalia), XV, b 421, a b 422–3
Sciurina, group (Squirrel), XXII, b 454–5
Sciuromorpha, group (Mammalia), XV, a 422–3
Sciuropterus, genus (Squirrel), XXII, b 455
Sciurus, genus (Squirrel), XXII, b 454–5
Scivias (Hildegard), XI, b 728, a 729
Sclaigueaux Cave, V, b 234
Sclater, Philip Lutley, ornithologist (Birds), III, b 630 note, *b* 639, a 642 note, a b 646; (Distribution), VII, b 233; (Ornithology), XVIII, a 16, a 17, a 20 note, a 31, a 33, b 44–6, b 48, a b 49, a 51; (Parrot), a 329; (Puff-Birds), XX, *b* 106, note; (Screamer), XXI, b 578; (Scrub-Bird), *a* 581; (Tapaculo), XXIII, a 54; (Tinamou), b 429, a 430
—— and Salvin's *Nomenclator* (Trumpeter), XXIII, a 632
Sclaves, people. See SLAVS
Sclerenchyma (Histology), XII, a 18
Scleres, skeletal (Sponges) (Ill.), XXII, a 432–4
Sclengese, dialect (Buriats), IV, a 481
Sclerites or spicules (Corals), VI, a 341, *a* b 342
Sclerobasis, axis (Corals), VI, b 341, a 342
Scleroblasts, cells (Sponges), XXII, b 436
Scleroderma, false Truffle, XXIII, b 628, a 629
Sclerodermi, class of fishes (Ichthyology), XII, b 733
Scleropleura, genus (Mammalia), XV, a 391 note
Sclerosis, disease (Insanity), XIII, a 106, a 107; (Surgery), XXII, b 719, a 720; spinal (Pathology), XVIII, b 401
Sclerothamnidæ (Sponges), XXII, b 439
Sclerotia, tuberous bodies (Fungus), IX, b 727
Sclerotic coat of eye (Anatomy), I, *a* 778, a 782; tunics (Lämmergeyer), XIV, b 244
Sclerotitis, disease (Ophthalmology), XVII, a 804

Scodra, town (Scutari), XXI, b 600
Scodrus or Skhar-dagh, mountains (Uskup), XXIV b 22
Scoglio Olivi, island (Pola), XIX, a b 296
Scolari, Paulino. See CLEMENT III., Pope
Scolastica, nun (Benedict), III, b 481
Scolecite (Mineralogy) (Ill.), XVI, b 391, b 441
Scolecophagus (Grackle), XI, b 24–5
Scolex (Tape-Worms), XXIII, b 57
Scolopacidæ (Birds), III, b 646
Scolopax, genus (Redshank), XX, a 330; (Snipe), XXII, *a* 211; (Woodcock), XXIV, b 684, b 685
Scolopendrella, genus (Myriapoda), XVII, b 124, a 125, b 126–7, a 128
Scolopendrin (Ferns), IX, a 91
Scoloti, people (Scythia), XXI, a *b* 602
Scolytus, genus (Coleoptera), VI, a 121
Scomber, genus (Mackerel), XV, a b 160
Scombresocidæ, family (Ichthyology), XII, b 731
Scombridæ, family (Ichthyology), XII, b 693, b 702, b 720, b 728
Scone, kingdom (Scotland), XXI, b 497, *a b* 499, *a* 500–3, *a* 504
——, parish (Perth), XVIII, *a* 680
——, stone of, seat (London), XIV, b 847; (Rude Stone Monuments), XXI, b 56; (Scotland), b 509
Scopas, mountain (Zante), XXIV, *b* 805
—— of Paros, sculptor (Archæology), II, a b 315; (Ephesus), VIII, b 416; (Tegea), XXIII, *b* 117
Scopasis, king (Scythia), XXI, b 603
Scopelidæ, family (Distribution), VII, a 244; (Ichthyology), XII, b 706, a 723, a 731
Scopelus, genus (Ichthyology) (Ill.), XII, b 675, a 720, a 731
Scopoli, Giovanni Antonio, naturalist (Ornithology), XVIII, a 11
Scops, bird (Owl), XVIII, a 94
Scopularia (Sponges), XXII, a b 439
Scopus, genus (Birds), III, b 617; (Stork), XXII, *b* 606
Scorbutic Dysentery, VII, a b 506
Scorbutus, disease (Scurvy), XXI, a 599–600
Scordatura, tuning (Violin), XXIV, a 264
SCORESBY, William, explorer, XXI, a b 490; (Greenland), XI, b 148, b 153; (Harbors and Docks), b 408, a 422; (Polar Regions), XIX, b 330, a 331
Scoriaceous rocks (Geology), X, b 204
Scorification, assay (Gold), X, b 669
Scoring, counting (Whist), XXIV, b 576
Scornful Lady (Beaumont and Fletcher), III, a 408
Scorodite (Mineralogy) (Ill.), XVI, a 422
Scorpænidæ, fishes (Ichthyology), XII, b 704, a 716, b 718, a 719, a 720, a 722, b 727
Scorpio, sign of the Zodiac, XXIV, b 829, a *b* 830, *a* 831
Scorpioid cyme (Botany) (Ill.), IV, a b 112–3
Scorpion, Arachnid (Ill.), II, b 248–51; (Arabia), a 212; (Egypt), VII, a 618, note; (Instinct), XIII, b 166; false (Arachnida) (Ill.), II, a 247–8
——, lake (Tibet), XXIII, b 361
—— -fly (Insect), XIII, a 158
—— -grass (Forget-Me-Not), IX, b 364
Scorpionidea, sub-order (Arachnida) (Ill.), II, a b 239, note, a 240, a 247–51, b 252, b 258
Scorpionidæ, family (Crustacea), VI, b 578, a b 579
Scorzonera, plant (Horticulture), XII, a 300
SCOT, Michael, wizard, XXI, b 490–1; (Scholasticism), b 444, b 445; (Arabian Philosophy), II, a 237; (Physiognomy), XIX, b 8
SCOT, Reginald, author, XXI, b 491
Scotch Acts of Parliament, I, a b 114; adventurers (Russia), XXI, b 104; antiquities (Rude Stone Monuments), XXI, b 56, b 57, b 58; appeals (Appeal), II, b 182, a b 183; Archæan rocks (Geology), X, a 290
—— Athletes, III, a 13
—— ballads (Leyden, J.), XIV, b 495; banks (Banking), III, b 281, a 282, b 286–90; Baptists, a 307; Boroughs, IV, b 56–7; (Municipality), XVII, b 36; breviaries (Breviary), IV, b 235
—— Cambrian system (Geology), X, a b 292; carboniferous system (Geology), a b 307–9; cattle (Agriculture), I, b 331, b 344; coal measures (Geology), X, *b* 309; coins (Numismatics), XVII, b 674; Criminal law, VI, a 522
—— depreciations of coin (Money), XVI, b 753; dioceses (Celtic Literature), V, a b 262; Episcopal Church (Bancroft), III, a 267; (Episcopacy), VIII, a 434–5; (Liturgy), XIV, a b 717
—— fir (Pine) (Ill.), XIX, a 111–2; ovule of (Botany), IV, a 134
—— fisheries (Pearl), XVIII, b 458–9; fishery laws (Salmonidæ), XXI, b 236; forestry (Eagle), VII, b 509, note; Gothic (Architecture), II, a 375
—— Harp, XI, b 437; Highlanders (Apparitions), II, *a* 178; (Lovat), XV, b 29
—— Highlands (Gaelic), X, *a* 8, b 9, b 12; (Geology), a b 295; hogs (Agriculture), I, b 355; intervention (Ireland), XIII, a b 266, a 273; judicial Torture, XXIII, a b 495
—— kirk. See SCOTLAND, CHURCH OF
—— lairds (Scott), XXI, a 570
—— law (Adjudication), I, b 140; (Administrator), *a* 141; (Aliment), a 508; (Arbitration), II, b 273–4; (Arrest), b 550–1; (Bankruptcy), III, b 296–7; (Bastard), a 369; (Bell, G. J.), a 468; (Canon Law), V, a b 21; (Diligence), VII, a 209; (Divorce), b 263, b 264–5; (Education), a b 590; (Husband and Wife), XII, b 417; (Hypothec), a 633; (Infant), XIII, b 4–5; (Infanticide), b 6; (Inheritance), b 84–5; (Insanity), a 118, a b 119; (Interdiction), b 194; (Intestacy), b 204; (Kames), b 842; (Landlord and Tenant), XIV, b 276–7; (Libel), b 506–7; (Marriage), XV, a b 574; (Partition), XVIII, b 334; (Partnership), a 337; (Payment), b 451; (Perjury), a 560; (Pleading), XIX, b 231; (Possession), b 577; (Prescription), b 725–6; (Process), b 810; (Riot), XX, a 580; (Riparian Laws), a 581; (Sale), XXI, b 219; (Sanctuary), a 268; (Sedition), a 651; (Settlement), a b 729; (Statute), XXII, a 488; (Summary Jurisdiction), *a* 676; (Summons), a 677; (Sunday), a 691; (Term), XXIII, b 205; (Tithes), b 440; (Theft), b 252–3; (Treason), b 562; (Trusts), a b 637; (Usury), XXIV, b 23; (Warrant), a 393; (Warranty), b 393–4; (Waste), a 415; (Will), a b 605; (Witchcraft), b 655–6; (Women), a b 676, a 677; (Wreck), b 723; (Writ), b 732–3
—— lawyers (Solicitor), XXII, a b 264
Scotchman, defined (Seamanship), XXI, a 634
Scotch, military qualities of the (Army), II, b 515
—— Militia, XVI, a 313; mineral oil industry (Paraffin), XVIII, a 244–7; mortality tables (Insurance), XIII, a 177; national Covenant, VI, a 470; (Milton), XVI, a 339, b 340, a 342, b 343
—— Old Red Sandstone system (Geology), X, a 304–5; Ornithology, XVIII, b 22 note
—— *Paraphrases* (Hymns), XII, a 625, b 628
—— pebble (Agate), I, a 248; Peerage, XVIII, b 469, b 476; (Precedence), XIX, a 681, a 683 note
—— philosophy (Abercromby), I, b 40; (Brown, Dr. T.), IV, a b 349; (Hamilton, Sir W.), XI, a 375; (Hume), XII, a 365–9; (Hutcheson), a 426–7; (Reid, T.), XX, a b 363–5; (Stewart, D.), XXII, b 574–5
—— pine (Arboriculture), II, a 277, a 282
—— poetry (Burns), IV, a 505–9; (Douglas), VII, b 326; (Fergusson), IX, a 77–8; (Hogg), XII, a b 53; (Ramsay), XX, b 278–9; early (Scotland, Literature of), XXI, b 565–8
—— Presbyterianism, XIX, a 699–705; (Calderwood), IV, a b 587. See SCOTLAND, Church of, FREE CHURCH, UNITED PRESBYTERIAN CHURCH
—— *Psalms* (Hymns), XII, b 624–5
—— raised beaches (Geology), X, a 228
—— Secession Church (Gib), X, b 511, a 512. See UNITED PRESBYTERIAN CHURCH
—— Silurian system, Lower (Geology), X, a 299; Upper, b 294–5
—— slaves (Slavery), XXII, b 145; Terrier (Dog), VII, b 287; Topaz, XXIII, a 475; Universities, b 898–9, b 904, b 910–11; Theatre, a 248
SCOTER, bird, XXI, b 491–2; (Coot), VI, a 303, note
Scotia, origin of name (Scotland), XXI, a 503
——, moulding (Architecture) (Plate XIII), II, a b 358, b 366, a 416
Scoticarum, Historia Rerum (Buchanan), IV, a 371
Scotichronicon (Fordun), IX, a 349; (Scotland), XXI, a 566
Scotists, followers of Duns Scotus, *q.v.* (Scholasticism), XXI, b 447
SCOTLAND (Plate VII), kingdom, XXI, a 491–568
  CHURCH, a 562–5
    development since 1843, a 564–5
    disruption, recent, b 564
    evangelical revival, a b 563–4
    extension schemes, b 563
    financial, a b 565
    Highlands, b 562–3
    membership statistics, a 565
    moderate party, rule of, a 562–3
    patronage question, a b 562, b 564
  HISTORY, a 493–542
    aboriginal races, a 495–5
    Agricola's campaigns, a b 493
    Albany regencies, b 513–4, b 519–20
    Alexander I., reign of, a b 504; II., reign of, a b 507; III., reign of, b 507–8
    Arran regencies, b 521–2, a b 529
    Bains's usurpation, b 503–4
    Baliol, reign of, b 508–9
    Bothwell's marriage b 626–7
    Boyd's ascendancy, a 517
    character of Scone monarchy, b 502

Scotland, *continued*
- History
  - Charles I., reign of, a 533-6; II., accepts the Covenant, a 536; reign of, a 537-9
  - Christianity, conversion to, a 496-7
  - civil war, b 534-5
  - Columba and his church, b 496-7
  - Commonwealth period, a 536-7
  - Constantine II., reign of, a b 501
  - Covenanters, persecution of, b 537-9; resist Charles I., a 534-5
  - Dalriad annals, a b 499
  - Darnley tragedy, a b 524
  - David I., reign of, b 504-5; II., reign of, 511-2
  - Edgar's reign, a 504
  - Edward I., England, settlement by, a b 510; III., England, settlement with, a 512
  - Elizabeth, England, relations with James VI., b 529-30
  - England supports the Reformation, a b 524
  - Episcopal reaction, b 529, b 532
  - Episcopacy restored, b 537
  - favorites, rule by, a b 517
  - feudal organization, a b 505, a b 508
  - Hadrian to Roman evacuation, b 494-5
  - Henry VIII., England, wars with, b 518-9, b 520, a b 221-2
  - Highlands, acquisition of, a 515
  - Jacobite rebellions, a b 542
  - James I., reign of, b 513-5; II., reign of, b 515-6; III., reign of, b 516-8; IV., reign of, a 518-9; V., reign of, b 519-21; VI., from his majority, a 530-3; VII., reign of, a b 539
  - Knox and queen Mary, b 525-6
  - Lauderdale administration, a b 538
  - Lennox regencies, a 528, a 529
  - liturgy, enforcement of English, b 533-4
  - Lothian, conquest of, a 502
  - Macalpine, Kenneth, to Donald II., a b 500
  - Macbeth and Duncan period, a b 502
  - Malcolm I. to II., b 501-3; III. and queen Margaret, a b 503; IV., reign of, b 505-6
  - Margaret of Norway, b 508
  - Mary of Guise, regency of, b 522-4; Stuart, reign of, b 521-7
  - Morton regency, a 528-9
  - Murray's regency, b 527-8
  - Northumbrian supremacy, b 497-8
  - nobles under James I., b 514, a b 515
  - Octavius, a 531
  - parliament, reformation, b 524-5
  - Pictish annals, b 498-9
  - plantations of James VI., a 533
  - Presbyterianism reestablished, b 530-1
  - progress in nineteenth century, b 542
  - Ptolemy's map, b 493-4
  - Reformation under Knox, a 523-6
  - Robert Bruce, reign of, b 510-1; II., reign of, a 512-3; III., reign of, a b 513
  - Roman period, a 493-5; walls, b 493
  - Scone kingdom, a 500-3
  - Somerset's invasions, a 520
  - Strathclyde, rise of, b 497
  - Stuart house, rise of, a 512
  - Tacitus, account of, a 494
  - union of crowns, English and Scotch, b 531-2; parliamentary, a 537, b 540-2; of Picts and Scots, b 499
  - Viking raids, b 499-500
  - Wallace, struggles of, b 509-10
  - William I. the Lion, reign of, a 596-7; III., reign of, b 539-40
- Index, a b 561
- Literature, b 565-8
  - fifteenth century, a b 566
  - mediæval, b 565-6
  - Reformation period, b 567-8
  - sciences and professions, early writers, b 568
  - seventeenth century, a b 568
  - sixteenth century, b 566
- Physical Features, a 543-50
  - central lowlands, a b 546
  - climate, a b 550
  - coast-line, a b 549
  - corries and glens, a 548
  - geology, a 543-4
  - Highlands, b 544-5
  - islands, b 549-50
  - lakes, b 548-9
  - mountains, types of, a 547-8
  - Southern uplands, b 545-6
  - topography, influence of, a 550
  - valleys, b 546-7
- Statistical Features, a 450-561
  - administrative features, a 560-1
  - communications, b 553-4
  - crime and pauperism, a 553
  - crops, b 555-6
  - distribution of people, b 551-2
  - education. b 559-60
  - emigration, b 552
  - fisheries, a 557
  - forests, b 556-7
  - landowners, a 554-5
  - live-stock, a b 556
  - manufactures, b 557-8
  - mining industries, a b 557
  - nationality of people, a b 552
  - occupations, a 553
  - population, a 550-3
  - religion, b 560
  - shipping and commerce, b 558-9
  - tenants and crofters, a b 553
  - vital statistics, b 552-3
  - wealth, national, a b 559

—— (Admiralty), I, a 148; (Agriculture), b 262, a b 266, a 268-9, a b 270, a 292, b 316, *a* 320, b 323, b 337, a 361, b 362, *a* 363; (Annates), II, b 55; (Bribery), IV, a b 248; (Buckle), a b 379; (Burial), b 480; (Calendar), IV, a 601; (Census), V, *b* 291, a 292, a 294; (Chancellor), b 337; (Coal), VI, b 46, b 50-1; (Conveyancing), a b 288; (Corn Trade), *a* 368; (Cotton), a b 445-6; (Crannogs), a b 489; (Cromwell), b 530, a b 531-2: (Deer), VII, b 22; (Dentistry), a 84; (Edward I.), *b* 592; (Edward III.), a 593; (Dundee, Viscount), b 463-5; (Feu), IX, b 104, a 105; (Fiars Prices), b 114-5; (Fisheries), a 224-9; (Flax), b 258; (Fordun), a 349; (Forests), b 350, *a* 351; (Foundling Hospitals), b 427; (Freemasonry), a b 659; (Froissart), b 701

—— (Game Laws), X, a b 57; (George IV.), a b 385; (Gipsies), a 547; (Golf), a 681-2; (Heraldry), XI, b 612, b 613, a 614, a 615, a 621, a 627, a 637; (Highways), b 725; (Insanity), XIII, a 105, a 117, a b 119; (Knox), XIV, a 133-5; (Labor), a b 170, a 171, note, b 173; (Libraries), a 521-2, b 542-6; (Linen Manufacture), *a* 671, a b 673, a b 674; (Mar), XV, a b 532; (Mary Stuart), a 601-8; (Meteorology), XVI, b 121, a 131, b 134, a 143; (Methodism), b 195; (Newspapers), XVII, a 433-4; (Normans), a 564; (Police), XIX, a 346, a 349, b 353; (Post-Office), b 580, a 582; (Presbyterianism), a 699-705; (Press Laws), a 731; (Prison Discipline), b 776, a 777; (Public Health), XX, a 103; (Quarter Sessions), b 166; (Railway), a b 233, a b 234, a b 235, a b 236, *a b* 237-8; (Reformation), b 349; (Regalia), a 353; (Registration), *a* 356, b 358; (Rent), b 415-6; (Round Towers), XXI, a 28; (Sheriff), a 837-8; (Suicide), XXII, *a* b 663, a 664; (Test Acts), XXIII, b 216

——, ancient (Caledonia), IV, a 588-9; ancient capitals of (Perth), XVIII, *a* 680; bank of (Banking), III, a b 287; banks of, table (Banking), 288; Baronets of, b 335; *Chronicle of* (Wyntoun's), XXIV, a 748

Scotland, Church of, XXI, a 562-5; (Aberdeen), I, b 43, b 48; (Adamson), a b 132; (Chalmers), V, b 326-7, a 328; (Creeds), VI, a 500; (Festivals), IX, a 103; (Macleod), XV, a b 164; (Margaret, St.), b 544; (Melville), a b 852; (Presbyterianism), XIX, a 699-705; (Tulloch), XXIII, a 644; General Assembly of (Edinburgh), VII, a 579; resumption of revenues (Scotland), XXI, a b 533; history of (Calderwood), IV, b 587

——, *Church and State of* (Spotswood), XXII, b 448

——, conquest of (England), VIII, a b 281

——, *Criminal Law of* (Alison, Sir A.), I, a 508

——, Cymric inhabitants of (Arthur), II, a b 570; early printing in (Typography), XXIII, b 729, note

Scotland, Free Church of, IX, a 653-6

——, game preserves (Land), XIV, a 271; geology of (Macculloch), XV, a 135; glaciers (Agassiz), I, *a* 247

——, *Histories of* (Boece), III, b 738-9; (Pinkerton), XIX, a 116; (Robertson), XX, b 615, b 616; (Tytler), XXIII, a b 761

——, independence of (Rymer), XXI, b 127

——, *Institute of the Law of* (Erskine, John), VIII, a 468

——, *Institutions of Law of* (Stair), XXII, a 463

——, invasions of (Monk), XVI, a 779; (Norway), XVII, b 602

——, Lakes of, XIV, *a* 218, a b 219-20, a 222

Scotland, Literature of, early, XXI, b 565-8

Scotland, names of places in (Gaelic), X, b 10–11; parishes in (Parish), XVIII, b 302–3; parliamentary representation of (United Kingdom), XXIII a 775; pisciculture in (Salmonidæ), XXI, a b 237; rainfall (Meteorology), XVI, a 155, a b 157; tenures in (Land), XIV, b 264, b 265, b 269
Scotland, Tours in (Pennant), XVIII, b 508
——, union with England (Abercromby), I, a 41; (Bacon), III, *b* 176; (Parliament), XVIII, b 313–4; (Paterson), a b 365; war of independence (Robert Bruce), XX, a 609–10
——, witch trials in (Apparitions), II, a *b* 179; (Witchcraft), XXIV, b 655–6
—— yard, police headquarters (London), XIV, b 843; (Police), XIX, b 349
Scotophilus, genus (Mammalia) (Ill.), XV, a b 415
Scots, race (Britannia), IV, a b 319; (England), VIII, b 240, b 243; (Fenians), IX, a 66; (Ireland), XIII, a b 249, a 250–3; (Patrick, St.), XVIII, b 421, note, a 422; (Scotland), XXI, *b* 494, *b* 495, a 496, note, a 498, *a* 510
—— and Picts, union of (Scotland), XXI, b 499–500
Scotsman, The (Newspapers), XVII, b 433; (Reporting), XX, *b* 417
Scots Nation, Martial Achievements of (Abercromby, P.), I, a 41
Scott mountains (California), IV, b 618; (Oregon), XVII, b 845
——, Alexander, poet (Scotland), XXI, b 567
SCOTT, David, painter, XXI, b 568–9
——, Elizabeth, hymnist (Williams), XXIV, b 899
SCOTT, Sir George Gilbert, architect, XXI, a b 569; (Buckingham), IV, a 374; (Cambridge), a 646; (Dundee), VII, *a* 462; (Edinburgh), a 579; (Glasgow), X, *a* 574; (Grantham), XI, b 47; (Hamburg), b 361; (Oxford), XVIII, a 99, a 100; (Pembroke), b 493; (Peterborough), b 713; (Tewkesbury), XXIII, a 219
——, John. See ELDON, Lord
——, John, editor (Hood, Thos.), XII, b 148
SCOTT, John Morin, patriot XXI, a 913
——, Michael, wizard. See Scot, Michael
——, Samuel, painter (Hogarth), XII, b 50
——, Thomas, of Rotherham, bishop (Libraries), XIV, a 519
SCOTT, Thomas Arnold, railroad manager, XXI, a 913
SCOTT, Sir Walter, novelist, XXI, a 570–6
ballad writing, a b 572
critics and defence, b 574–5
SCOTT, Sir Walter, *continued*
educational period, a 570–1
health, broken, a b 575, a b 576
Lady of the Lake, a 574
Lay of the Last Minstrel, b 572–3
Marmion, b 573–4
morbid anatomy of, b 570 note
novel writing period, b 573, a 574–6
pedigree, a 570
poetical period, a 572–4
professional career, b 571–2
publishers, troubles with, b 573–4, a 576
social training, a b 571
—— (Abbotsford), I, *a* 31; (Allan, Sir W.), *a* 511; (Apparitions), II, a b 178, a b 180, a 181; (Arthur), b 569; (Banking), III, a 278; (Burns), IV, a b 506; (Campbell), b 667, *a* 668, a 669; (Cattle), V, b 213; (Cervantes), b 307; (Cockburn, Alison), VI, b 90; (Croker, J. W.), b 526; (Defoe), VII, *a* 28, *a* 29; (Drama), *a* 379; (Edgeworth), *a* 567, a b 568; (Encyclopædia), VIII, a b 183; (English Literature), b 385, a b 386; (Ferrier, Susan E.), IX, b 97, a 98; (France), b 586, *a* 594, *a* 596; (Galt), X, *b* 43, a 44; (Geoffrey of Monmouth), b 154; (George IV.), a 385; (Gourgaud), XI, b 6; (Häring), b 428, note; (Hemans), a b 575; (Heraldry), a 616; (History), XII, b 25; (Hogg), *a* 53; (Holy Island), b 108; (Hood, Thos.), b 148; (Hymns), a 625
—— (Irving, W.), XIII, b 383; (James, G. P. R.), a 571; (Knighthood), XIV, a 119 note; (Leyden, J.), b 495; (Mackenzie), XV, a 160; (Maclise), b 165; (Melrose), a 851; (Mickle), XVI, b 250; (Newspapers), XVII, b 433; (Park, Mungo), XVIII, b 303, a 304; (Porter), XIX, a 542; (Scot), XXI, a 491; (Shakespeare), a b 780, b 789; (Swift) XXII, a 806; (Thomson), XXIII, b 333; (Turner), b 708; (Tweed), b 715; *Life of* (Lockhart), XIV, b 770; monument to (Edinburgh), VII, a 579
——, Walter, of Harden, moss trooper (Scott), XXI, a 570
—— of Kirkud, Sir Walter, chief (Scotland), XXI, a 516 note
——, William, jurist. See STOWELL, Lord
SCOTT, Winfield, general, XXI, b 576–7, note; (Battle), III, a 385; (Totten), XXIII, b 943; (United States), a 816
Scottish Bible Society, III, b 562; brooches (Brooch), IV, b 332; Celtic Literature, V, b 271–2
Scottish Chiefs (Porter), XIX, a 542
—— church, early (Alexander I., II. and III.), I, b 433, *a* 434; (Columba), VI, a 150; (Culdees), a b 613; (Penance), XVIII, a 499; conspiracy (James I., England), XIII, a 568
—— colony (Darien), VI, b 725–6; Celtic dialect (Celtic Literature), V, b 258, a b 259; Episcopacy, VIII, a 434–5; (Sharp), XXI, *b* 816; frame for deep-sea Thermometer (Ill.), XXIII a 313
—— franchise reform acts (Parliament), XVIII, b 314, a 315; homage (Hardyng), XI, *b* 425; literature, rise of (Robertson), XX, a b 616; nobility (Knighthood), XIV, b 121, note
—— scale (Music), XVII, b 86
Scott's Bluffs (Nebraska), XVII, b 315
—— map shading scale (Surveying), XXII, a 747
Scotus. See DUNS SCOTUS and ERIGENA
Scourging of St. Andrew, painting (Domenichino), VII, a 303
Scouring (Harbors and Docks), XI, a b 416; (Hydromechanics), XII, a 521, b 525, b 528, b 530–1
—— Silk, XXII, a 69; wool (Bleaching), III, a 714; (Wool), XXIV, a b 691
—— machine (Leather) (Ill.), XIV, b 387
SCRANTON, Pennsylvania, city, XXI, b 577–8
SCREAMER, bird, XXI, a b 578; (Birds), III, *a b* 617, *b* 625, a 645
Screech, bird (Thrush), XXIII, a 343
—— Owl, bird, XVIII, a b 92
Screeds, plastering (Building), IV, a 453
Screening (Coal), VI, b 71–2
Screens, church (Architecture), II, a 416; (Metal-Work), XVI, a 81–2; (Wood-Carving), XXIV, b 681, a 682, b 683
——, Electric, VIII, b 27
——, masking (Lighthouse), XIV, b 636
—— for Thermometers, XXIII, b 310–1; (Meteorology) (Ill.), XVI, a b 120
Scremerston coal (Northumberland), XVII, b 579
SCREW, manufacture (Ill.), XXI, b 578–80; (Mechanics), XV, a b 769; (Archimedes (Ill.), II, b 333; differential (Mechanics), XV, a 773; hydraulic (Babylon), III, b 158; introduction of American (Protection), XIX, a 933; micrometer (Surveying), XXII, a 755; theory of (Measurement), XV, b 674
—— -cutting (Hand Tools), XI, b 392; (Lathe), XIV, a 325; (Machine Tools) (Ill.), XV, a b 154
—— docks (Harbors and Docks), XI, b 420
Screwing machine (Machine Tools) (Ill.), XV, b 155
Screw-Logs, XIV, b 777; micrometer (Microscope), XVI, a b 289; motion (Mechanics), XV, b 699; piles (Bridges), IV, b 295
Screw pine or pandanus (Botany), IV, b 83, b 93, b 105
—— propellers (Iron), XIII, a 327; (Navy), XVII, a 292; (Shipbuilding), XXI, a b 862, b 863; introduction of (Steam-Engine), XXII, a 543
Scribbling card (Wool) (Ill.), XXIV, a b 693
SCRIBE, Augustin Eugène, dramatist, XXI, a 580; (Auber), III, b 58; (Meyerbeer), XVI, a 231
Scribes, Jewish (Bible), III, b 554–5; (Ezra), VIII, a 728; (Israel), XIII, b 428, b 429, b 431, b 433, *a* 434, *b* 438; (Messiah), XVI, a b 59, a b 60
Scribing (Building), IV, a 442
Scriblerus Club (Arbuthnot), II, a 285; (Pope), XIX, b 500
Scrip (Homestead), XII, a b 126
Scriptores Erotici (Greece), XI, *a* 130
Scriptoria in monasteries (Libraries), XIV, a 513
Scriptoris, Paulus, monk (Pellacanus), XVIII, b 488
Scripturalists, sect (Mahzor), XV, a 295
Scripture (Inspiration), XIII, a 161–3; authority of (Church), V, *b* 663–4; (Mysticism), XVII, b 141; corrupted (Newton), a 460; reading in early church (Lection), XIV, a b 398; translation of (Trent, Council of), XXIII, a 580, See BIBLE, CANON
Scripulæ, weight (Weights and Measures), XXIV, b 514, a 515, b 516
Scrivener, Frederick Henry Ambrose, scholar (Acts of the Apostles), I, b 114; (Alexandrian MS.), *a* b 439; (Syriac Literature), XXII, a 866 note
Scrivener's palsy (Cramp), VI, b 481
Scrivia river (Italy), XIII, a 446; (Liguria), XIV, b 646
SCROFULA or Struma, disease, XXI, a b 580; (Hydrocephalus), XII, b 447–9; (Pathology), XVIII, a b 415; (Phthisis), a 870
Scroggs, John, explorer (Polar Regions), XIX, a 330
Scrope, George Poulett Thomson, geologist (Earthquake), VII, a 527; (Geology), X, b 215, b 217, b 219, *b* 220, b 222 note
——, Sir Richard (Heraldry), XI, b 608, b 611
——, William, earl of Wilts (Bristol), IV, a 315
Scrophularia, genus (Botany), IV, b 124
Scrophulariaceæ, order (Botany), IV, b 116, a 119, a 120, a 125, a 131; (Parasitism), XVIII, b 269
Scrotum (Mammalia), XV, b 370
Scrubber (Gas and Gas-Lighting) (Ill.), X, b 84–5

Scrub-Bird (Ill,), XXI, b 580-1; (Birds), III, a 643
Scrub Pine, XIX, a 113
Scrutin, French Ballot, III, a 251
Scrutiny (Conclave), VI, b 213, a 214
Scudamere, Frank Ives, inventor (Post-Office), XIX, a b 591
Scudder, John, missionary, XXI, a b 913
——, Samuel Hubbard, naturalist (Geology), X, b 306
Scudéry or Scudéri, Georges de, author, XXI, b 581; (Viau), XXIV, b 225
Scudéry, Madeleine, novelist, XXI, b 581-2; (France), IX, b 579; (Romance), XX, *b* 676, a 677
Scuir of Eigg, mountain (Scotland), XXI, b 544
Scuir-na-Coinnich, mountain (Skye), XXII, a 135
Scuir-na-Gillean, mountain (Skye), XXII, a 135
Sculpto-fusi types (Typography), XXIII, b 736-7
Sculptors, Greek (Inscriptions), XIII, b 129
Sculpture (Ill.), XXI, a 582-99
  bibliography, a 584 note, b 588 note, b 590 note, a 593 note, b 597 note, b 599
  Byzantine (Ill.), a 583-4
  Christian, early (Ill.), a b 582
  England (Ill.), a 584-8
    architectural, Norman, a b 585
    effigies, Norman, b 584-5
    eighteenth century, a 587
    mediæval, post-Norman, a 586
    nineteenth century, a 587-8
    Norman period, b 584-6
    Saxon period, a b 584
    seventeenth century, b 586-7
    sixteenth century, a b 586
    technical methods, Norman, b 585-6
  France (Ill.), b 588-90
    mediæval, b 588-9
    modern schools, b 590
    renaissance, b 589-90
  Germany (Ill.), b 590-3
    fifteenth century, b 591-2
    mediæval, b 590-1
    sixteenth to nineteenth century, b 592-3
  Italy (Ill.), a 594-7
    fifteenth century, b 595-6
    mediæval, a 594-5
    seventeenth to nineteenth century, b 596-7
    sixteenth century, a b 596
  Scandinavian, b 597
  Spain, a 593-4
  technical methods, a 598-9
——
—— (Abonkausk), I, a 12; (Æsthetics), a b 194, b 196, b 197; (Alvarez), b 570; (Amphion), a 679; (Antinous), II, a 115; (Arabesque), b 204; (Archæology), a 301, a *b* 303, a b 304-8, a 310-3, a 315-6; (Babylonia), III, a b 164; (Byström), IV, b 544; (Egypt), VII, a 626, a 663, b 670, a b 672, *a* 673, a *b* 674, b 675, *a* b 676, a 678; (Fine Arts), IX, *b* 175, *a* b 176, b 178-9, *a* b 181; (Gladiators), X, a 564; (Herat), XI, b 638; (Image Worship), XII, a b 752; (India), a 802; (London), XIV, b 846; (Phœnicia), XVIII, a b 828; (Poetry), XIX, b 274-5; (Schopenhauer), XXI, b 472; (Venice), XXIV, a b 169; (Wood-Carving) (Ill.), b 678-84
——, American (Greenough), XI, a 155; (Powers), XIX, b 670-1; (Rinehart), XX, a 909; portrait (Story), XXII, b 929
——, British (Bacon), III, a 188; (Baily), b 211; (Chantry), V, a b 343; (Cibber, C. G.), b 672; (Flaxman), IX, a 261-2; (Foley), b 311; (Gibson, J.), X, a 524-5; (Nollekens), XVII, a 546; (Wells), XXIV, a b 491
——, collections of (Paris), XVIII, a b 287
——, copying machines (Watt), XXIV, a 436
——, French (Girardon), X, a 555; (Goujon), XI, a 5; (Houdon), XII, a b 328; (Pigalle), XIX, a 93; (Puget), XX, b 107-8; (Renaissance), b 402; (Roubiliac), XXI, a b 15; (Slodtz), XXII, b 170
——, German (Dannecker), VI, a b 712; (Krafft), XIV, b 147; (Rauch), XX, a 307; (Rietschel), b 567; (Schwanthaler), XXI, a 482; (Schadow), a b 402
——, Græco-Roman (Rome), XX, a 829, b 851 note
——, Greek (Ægina), I, b 163-4; (Archæology), II, a 319-20; (Argos), a 438; (Athens), III, b 6-7; (Bryaxis), IV, a 366; (Bupalis), a 475; (Leochares), XIV, a b 454; (Lysippus), XV, b 121; (Myron), XVII, a 128; (Niobe), a 527; (Olympia), *b* 790; (Numismatics), a b 644, a b 649-50; (Pindar), XIX, a 110; (Scio), XXI, a 487; (Selinus), *b* 665; (Socrates), XXII, a 244; (Sphinx), b 311
——, Italian (Bandinelli), III, a 268; (Bartolini), a 348; (Desiderio), VII, b 112; (Donatello), b 310-1; (Michel Angelo), XVI, a 238-9, a 241-2; (Orcagna), XVII, b 838-9; (Pisa), XIX, b 131-3; (Pistoia), *a* 141; (Rome), XX, b 857-8; (Rosselino), b 879-80; (Sansovino), XXI, b 309-10; (Venice), XXIV, a b 166; (Verona), b 186-7; (Verrochio), a b 190
——, Syrian (Euphrates), VIII, b 587
Sculptured antlers (Cave), V, a 233; ornaments in Architecture, II, b 358; reliefs (Mural Decoration), XVII, a 40-1
Sculptures, Assyrian (Architecture), II, *a* b 349; of Bamian (Afghânistân), I, b 218, a 219; Indian (America), I, a b 609; painted (Egypt), VII, a 670, a 672; rock (Boghaz-Keuy), III, b 745; (Gwalior), XI, a 309
Scultura, Storia della (Cicognara), V, *b* 675
Scumbling (Painting), XVIII, a 143
Scuola, guild (Venice), XXIV, a b 168; (Robusti), XX, b 624, *a* 625
Scupi, town (Macedonia), XV, a 138
Scuppernong grape (Wine), XXIV, a 644, note
Scurvy or Scorbutus, disease, XXI, a 599-600; (Cartier), V, b 144; (Dietetics), VII, a b 180-1; (Lemon), XIV, a b 439; (Navy), XVII, a 306; (Pathology), XVIII, b 384
Scutage or Escuage, land tenure, XXI, a 600; (Finance), IX, a b 154; (À Becket), I, b 36; (Knighthood), XIV, b 116, a 117, note
Scutage Rolls (Records), XX, b 325-6
Scutari or Skodar, Albania, town, XXI, b 600, note; (Albania), I, b 395, *a* b 396; lake, a 396; (Montenegro), XVI, b 806
Scutari, Turkey, town, XXI, a b 600; (Constantinople), VI, b 269; (Hospital), XII, b 315, b 320
Scutcher (Cotton) (Ill.), VI, a b 436
Scutching (Flax), IX, a 258
Scutellidæ, family (Echinodermata) (Ill.), VII, b 544, a 546, a 547
Scutelliplantares, birds (Lark), XIV, b 316 note; (Ornithology), XVIII, b 41, a 42, a 45
Scutellum (Botany), IV, b 142-3; (Grasses), XI, b 51; (Hymenoptera), XII, a 607
Scutes, integumentary (Skeleton), XXII, a 115, a b 116; (Hippocampus), XI, a 761; (Reptiles), XX, b 458; (Tortoise) (Ill.), XXIII, b 484
Scutigera, insects (Myriapoda), XVII, b 124, *a* 125, b 126
Scutiplantares, group (Ornithology), XVIII, a 45
Scyetamtaras, party (Jains), XIII, b 553, a 554
Scylax of Caryanda, explorer, XXI, b 600-1; (Persia), XVIII, b 581; (Troad), XXIII, a 618
—— of Halicarnassus, statesman, XXI, a 601
——, Pseudo- (Phœnicia), XVIII, b 818, b 822
Scyles, king (Scythia), XXI, a 605
Scylitza, Georgius, chronicler (Byzantine Historians), IV, a 546
Scylla and Charybdis myths, XXI, a 601
Scyllaridæ, family (Crustacea), VI, b 560, b 563, a 566
Scylliidæ, family (Ichthyology), XII, b 699, a 716, b 718, a 719, b 723; (Shark), XXI, a 815
Scyllis of Crete, sculptor (Archæology), II, a b 305
Scyllium, genus (Dog-Fish), VII, a 288; (Ichthyology) (Ill.), XII, a 700, b 706, a 716, b 717, b 723; (Shark) (Ill.), XXI, a b 811, a 815; (Touch), XXIII, b 508
Scymnos of Chios, geographer, XXI, a 601
Scyphistoma (Hydrozoa), XII, b 588, b 589 note, a b 591-2
Scyphomedusæ (Hydrozoa) (Ill.), XII, a b 580, a 581 note, *a* 582, a b 583, *a b* 584, b 585, a *b* 586, a *b* 587, a b 588-93, b 599
Scyros, island, XXI, a b 601
Scyrri, tribes (Odoacer), XVII, a 747
Scytalidæ, family (Snakes), XXII, b 203
Scytalopus, genus of birds (Tapaculo), XXIII, b 54
Scythe and Sickle, XXI, b 601-2; (Agriculture), I, a 322; (Europe), VIII, a 621
Scythia, **Scythians**, country and race, XXI, a 602-5
  authorities, b 605
  Asiatic invasions, a b 604
  boundaries, b 602-3
  customs of, a b 603
  European invasions, b 604-5
  Greek accounts, primitive, a b 602
  legends of, b 603-4
——
—— (Gog), X, a 657; (Khazars), XIV, b 61; (Persia), XVIII, b 581, a 605, a 611; (Ptolemy), XX, b 98, *b* 99; (Sarmatians), XXI, b 325, a 326; (Slavs), XXII, *b* 154; (Zephaniah), XXIV, a 819, note; funeral customs (Barrows), III, b 343-4
Scythian Alphabet, I, a b 531; antiquities (Nikopol), XVII, b 517; expedition of Darius I. (Persia), XVIII, b 581; invasions (India), XII, a 823-9; (Israel), XIII, *b* 425; (Josiah), b 763; (Persia), XVIII, a 575, b 605; languages (Philology), b 792-3
Scythopolis, city (Decapolis), VII, b 18
Scytosiphon, plant (Reproduction), XX, b 437
Scytosiphoneæ, family (Vegetable Kingdom), XXIV, *a* b 138
Sdobba river (Görz), X, b 700
Sea, XXI, b 605-6; (Mineralogy), XVI, b 386; color of (Light), XIV, a 605; earthquake effects on (Geology), X, a 227; encroachments of (England), VIII, b 195; (Essex), a 488; physical history of (Marsigli), XV, a 582;

Sea, *continued*
  temperature (Meteorology), XVI, a b 121, a 123, a 137–8, b 139. See ATLANTIC and other Oceans, ADRIATIC, BALTIC and other Seas
——, *Physical Geography of* (Geography), X, b 175; (Maury, M. F.), XV, b 649
—— -anemones (Corals) (Ill.), VI, a b 327–9; (Longevity), XIV, b 868
—— -beaches (Scotland), XXI, b 549
—— -Bear, III, b 398–9
—— -breeze (Meteorology), XVI, b 130–1
SEABURY, Samuel, bishop, XXI, b 913; (Episcopacy), VIII, a 435; (Hamilton, A.), XI, b 368
SEABURY, Samuel, Jr., priest, XXI, b 913–4
Sea-cat, fish (Sea-Wolf), XXI, a b 645
Sea climates (Geography), X, a 189
—— -cow (Mammalia), XV, b 376, a 394
—— -cucumber (Echinodermata) (Ill.), VII, a 554–5; (Reproduction) (Ill.), XX, b 422; nerves of (Physiology), XIX, b 35
—— -devil, fish (Devil-Fish), VII, b 119; (Ray), XX, b 312–3
—— -eagle (Ill.), VII, a 510; (Birds), III, b 653
—— -elephant (Seal), XXI, a 610; (Mammalia), XV, b 376, b 450
Seafield, Jas. Chas. Ogilvie Grant, earl of (Banffshire), III, a 270
Sea Fisheries Act (Fisheries), IX, b 212, a 214, a b 227
Seaford, town (Sussex), XXII, a 761, *a* 762
Sea forts (Fortification) (Ill.), IX, a b 397–8
—— fossils (Geology), X, b 283, a b 284–5
—— -fowl and the weather (Birds), III, b 665
—— gipsies (Malays), XV, a 327
—— -hare (Mollusca) (Ill.), XVI, a b 680
—— -hedgehog, fish (Globe-Fish), X, a b 611; (Ichthyology), XII, b 733
—— -hog (Mammalia), XV, b 397
SEA-HORSE, fish (Ill.), XXI, a 606–7; (Hippocampus) (Ill.), XI, a 761; (Ichthyology), XII, a 733
—— islands (Georgia), X, *a* 391; Cotton, VI, b 428, *a* 429, a 430, a 433, note, a 444
—— -kale, plant (Horticulture), XII, a b 300
SEAL, animal (Ill.), XXI, a 607–10
  fur seal fisheries, a b 610
  habits of, a b 607
  hair seal fisheries, b 608–10
  species, b 607–8
—— (Fur), IX, a 736, a 737; (Greenland), XI, *a* 151, *b* 152, *a* 153; (Mammalia), XV, b 352, a 353, a 357, a 367, a b 368, b 449–50; (Sweden), XXII, a 780; fisheries (Newfoundland), XVII, b 393; (New South Shetland), a 418; (Norwegian Sea), b 607; (Pisciculture), XIX, a 135; Oil, XVII, b 765, b 768; skins (Leather), XIV, a 388, *b* 391
Seal, stamp. See SEALS
SEA-LAWS, XXI, b 610–3; (Azuni), III, b 150; (Barcelona), a 317; (Company), VI, a 197; (Consulate of the Sea), a 282; (Declaration of Paris), VII, b 20–1; (Demurrage), b 66; (Grotius), XI, a 194; (Pilot), XIX, a 105, note; (Pisa), a b 128; (Seamen), XXI, a 635–8
—— -lemon (Crustacea), VI, a 581
—— letter (Passport), XVIII, b 349
—— -lettuce (Aquarium), II, b 190
—— level (Indian Ocean), XII, a 861; (Surveying), XXII, a b 744
SEALING WAX, XXI, a 613; ornamentation (Waxwing), XXIV, b 486, a 487, note
Sea-lion (Seal), XXI, a 610 note; (California), IV, a 623; (Mammalia), XV, b 449–50; (Peru), XVIII, b 684–5
Sealkote, district. See Siálkot
SEALS, attesting (Ill.), XXI, a 613–6
  bullæ, metal, b 616
  English (Ill.), a 614–6
  mediæval, a 613–4
  royal, French and English (Ill.), a b 614
—— (Diplomatics), VII, b 221–2; (Gems), X, a 122, *a* b 123, *a* 124, *a* 126; (Griffin), XI, a 174; (Heraldry) (Ill.), b 608–9, a 611, b 617, a b 630; common (Corporation), VI, b 382, b 383; English (Heraldry) (Ill.), XI, b 631, a 632–4; papal (Bulls and Briefs), IV, a 465
SEALSFIELD, Charles, novelist, XXI, a 914
Seal writing (China), V, b 569
SEAMANSHIP (Ill.), XXI, a 617–35
  anchors, using, a 626–7, b 629
  bending sails, b 625
  bowsprit and rig, a b 623
  cable, b 625, b 626, b 627
  collision, a 631
  fire, b 630
  Flemish eye, a 620
  gaff-top-sail, b 628
  getting under way, b 627
  getting up tops, b 623–4
  GLOSSARY, a 632–5
  heaving to, b 630
  knots, hitches, bends, b 617–9
  lanyards, b 624
  leaks, a b 631
  lower cap and top-mast, b 624–5
  lower rigging, a 624
  lower yards, b 625
  mainyard, raising (Ill.), a 632
SEAMANSHIP, *continued*
  man overboard, b 630
  masting (Ill.), b 621–3
  reefing, a 629
  rudders, b 631–2
  running ashore, a 628, b 631
  sailing, operations occasional in, a 629–30
  seaman, duties of, b 617
  seizing, a b 620
  set of sails, b 628
  setting up stays, a b 624
  ships, classes of, a b 617
  slings, butt, b 621
  splices, b 619
  stowage, b 625
  stropping, b 620
  tacking, b 623, a 629
  top-gallant and royal rigging, a b 625
  top-sails and courses, handling, a 630
  wearing ship, a b 628
  whipping and pointing, a b 621
Seaman's Secrets (Navigation), XVII, b 260
Seamen, British (Navy), XVII, a 304–5; statistics, a 299, b 307
SEAMEN, Laws relating to, XXI, a 635–8
  contract, nature of, b 635–6
  discharge of, b 636
  duties and offences, a 637
  fishermen, a 638
  hospital funds, a b 637
  legislative acts, b 635
  lodging houses, b 636
  log-book, b 636
  remedies for wages, b 637–8
  royal navy, a 635
  sanitary regulations, b 636
  security of person, a 637
  United States, a b 638
  wages, regulations concerning, a 636
—— (Conspiracy), VI, a 263; (Consul), b 281–2; (Registration), XX, a b 356; liabilities of (Smuggling), XXII, *b* 195; testaments of (Will), XXIV, b 604–5
Seams (Coal) (Ill.), VI, a b 47, b 48; working (Ill.), b 61–2
Seang Keang, river (China), V, *b* 553, a 554
Seang-tang, town (China), V, b 553
Sean or seine nets (Fisheries), IX, a 221–2, a 227
Sea of light, gem (Bracelet), IV, b 169
—— of Stars (China), V, a 548
—— Otter (Ill.), XVIII, a b 73; (Mammalia), XV, a 440, a 446
—— -pens (Actinozoa), I, a 120–1; (Corals), VI, b 341, a 343
—— Phosphorescence, XVIII, b 827
—— -pie, bird (Oyster-Catcher), XVIII, b 114, note
—— -pink, plant (Botany), IV, a b 113, b 133; (Horticulture), XII, b 257
—— polders (Holland), XII, a 62, a b 64
SEARCH, Right of, XXI, b 638; (Navy), XVII, *b* 304; (Theft), XXIII, b 250; (Warrant), XXIV, b 392
——, Edward, pseudonym (Tucker), XXIII, a 641
Searle, Arthur, astronomer (Zodiacal Light), XXIV, *a* 836, a 837
Sea-rods (Corals), VI, b 341, a 343
Sea-routes, early (Commerce), VI, b 177
SEARS, Barnas, educator, XXI, a b 914
SEARS, Edmund Hamilton, clergyman, XXI, b 914
Seas, high (International Law), XIII, a 199, b 201; jurisdiction on (Admiralty), I, a 145, a 146, a 147
Sea Salt, XXI, *b* 239–41
Seasalter oyster fishery (Whitstable), XXIV, *b* 586
SEA-SERPENT (Ill.), XXI, b 638–40; (Oar-Fish), XVII, b 714; fossil (Geology), X, b 319
—— -shrub (Corals), VI, a 342, a 343
SEA-SICKNESS, XXI, b 640–1
Seaside laboratories (Zoology), XXIV, b 853, b 856
Sea-slugs (Echinodermata) (Ill.), VII, a 544, a 550, a 554–5
Sea-Snakes, XXII, a 200, b 202, a 204, b 208–9; (Reptiles), XX, *b* 480
Seasoning wood (Dry-Rot), VII, a b 426; (Wood-Carving), XXIV, a 679
Seasons (Africa), I, a 230; (Astronomy) (Ill.), II, a 676, b 695; (Australia), III, a 96; (Congo), VI, a 236; (Crime), a 517; (Geography), X, b 178; (Russia), XXI, a 83; influence of (Crime), VI, a 517; (Suicide), XXII, a 665; myth of (Œdipus), XVII, b 750
Seasons, cantata (Haydn), XI, *b* 482; poem (Thomson), XXIII, a 332
Sea soundings (Mediterranean Sea), XV, a b 829, b 830, b 831–3
Sea-swallow, bird (Tern), XXIII, a 206
Seaton, A. E., engineer (Steam-Engine), XXII, a 547 note
——, John Colborne, lord (Ionian Islands), XIII, b 212, a 213
SEATON, William Winston, journalist, XXI, b 914
Sea-trout fishing (Angling), II, b 37–8
SEATTLE, city, XXI, a 641; (California), IV, a 623; (Washington), XXIV, *a* 408
Sea unicorn (Narwhal), XVII, b 241; (Mammalia), XV, a 402
—— -urchin (Distribution), VII, b 241; (Echinodermata) (Ill.), a 544–7; (Reproduction) (Ill.), XX, b 422, a 427; (Skeleton), XXII, a 114; nerves of (Physiology), XIX, b 35
—— walls (Harbors and Docks) (Plate VIII), XI, a b 413
—— wash balls (Egg), VII, a 604

SEA WATER, XXI, a 641-5
  carbonic acid, a 642-3
  composition of, b 641-2
  oxygen and nitrogen absorbed, b 643-4
  salinity of, b 644-5
—— (Bromine), IV, a 326; (Climate), VI, *a* 6; (Distillation), VII, a 229; (Foraminifera), IX, b 325, note, a 226; (Ice), XII, b 647; (Potassium), XIX, a b 605, b 609; (Sodium), XXII, a 253; evaporation of (Salt), XXI, a 240-1; in boilers (Steam-Engine), XXII, a 546; mortar (Building), IV, a b 410, a 411
Seaweed (Agriculture), I, b 311; (Algæ), b 448-9; (Botany) (Ill.), IV, b 75, a 78, b 84, a 92, a 127, a b 144; (Herbarium), XI, a b 641; (Iodine), XIII, b 208; (Kelp), XIV, b 31; harvest (Jersey Island), XIII, a b 645
Sea winds (Mediterranean Sea), XV, a b 831, b 832
SEA-WOLF, fish (Ill.), XXI, a b 645
Seaworthy ships (Insurance) XIII, a 192; (Seamen), XXI, a 637
Seb, god (Egypt), VII, b 619, *a* b 620-1; (Mythology), XVII, a b 158
Seba, Albert, naturalist (Ornithology), XVIII, a 9 note
Sebaceous glands (Anatomy), I, a 789; (Nutrition), XVII, b 704
Sebald islands (Falkland Islands), IX, a 15
Sebastian, king, Portugal (Camoens), IV, b 661-2; (Portugal), XIX, b 561-2
SEBASTIAN, Saint, XXI, b 645-6
SEBASTIANO DEL PIOMBO, painter, XXI, a 646-7; (Titian), XXIII, a 442
Sebastiya, village (Samaria), XXI, a 256
SEBASTOPOL or Sevastopol, city, XXI, a b 647; (Crimea), VI, a b 519; (Russia), XXI, a b 110; harbor (Black Sea), III, a 691, b 692; siege of, 1854 (Fortification), IX, a 390, note, *a* 404; (France), a b 549; (Todleben), XXIII, b 459
—— Goose, X, b 691; (Poultry), XIX, b 667
Sebek, god (Egypt), VII, b 619, a b 620, a 622, *a* 679
Sebek-neferura, queen (Egypt), VII, b 634
SEBENICO, town, XXI, b 647
Sebestena (Fibres, Textile), IX, a 116
Sebichius or Sabatok, king (Egypt), VII, b 643
Seborrhœa (Skin Diseases), XXII, b 128-9
Sebright Bantams (Breeds), IV, a 221, a 223; (Poultry), XIX, a 666
Sebta, town (Ceuta), V, a 311
Sebû river (Morocco), XVI, b 858
Sebuku river (Borneo), IV, b 50
Secani, tribe (Gipsies), X, a b 546
Secant of an angle (Trigonometry), XXIII, b 598; of the cubic (Geometry), X, a 366
SECCHI, Angelo, astronomer, XXI, b 647, note; (Astronomy), II, b 689, a 690, *b* 691, a 701, b 715, a 716; (Meteorology), XVI, a 180 note
Secchia Rapita, La (Tassoni), XXIII, a 85
Seceders, sect. See Secession Church
Secentismo period of literature (Italy), XIII, *a* 521-2
Secession Church, Scotch (Erskine, Ebenezer), VIII, b 467-8; (Gib), X, b 511-2; (M'Crie), XV, b 133; (Whitefield), XXIV, b 582. See UNITED PRESBYTERIAN
—— of Southern States (America), I, a 596; (United States), XXIII, a b 821-2, a 823 note; conspiracy (Yancey), XXIV, a b 922; tendencies (United States), XXIII, a b 818; theory, a b 797, b 799, a 811; provision against, a 803, a 811
—— war, American (Aëronautics), I, b 180; (American Journalism), XVII, a 886; (Army), II, b 541; (Banking), III, b 293; (Burns), IV, b 506; (Charleston), V, b 371; (Choctaws), b 591; (Contraband), VI, *a* 286; (Fortification), IX, b 379; (Georgia), X, a b 394; (Harper's Ferry), XI, b 438; (Hooker), XII, b 153; (Kansas), XIII, b 853; (Kentucky), XIV, b 46; (Lee, R. E.), a b 400; (Lieber), a 568; (Lincoln, A.), a 666-8; (Louisiana), XV, b 24; (Lowell), b 31; (Manchester), b 472; (Massachusetts), a 623; (Mississippi), XVI, b 547; (Minnesota), a 500; (Missouri), b 550, a 551; (Navy), XVII, a 310; (New Orleans), b 414; (North Carolina), a 576; (Palmerston), XVIII, b 201; (Pennsylvania), a 515; (Rousseau, L. H.), XXI, a 897; (Sedgwick, J.), b 915-6; (Seward), b 744-5 note; (Stephens), XXII, b 563 note, a 564 note; (Stevens), b 572; (Stuart), a b 931; (Surveys), b 939; (Taxation, United States), XXIII, b 924; (Tennessee), a 195; (United States), b 822-9; (West Virginia), XXIV, *a* b 548; effect on population (United States), XXIII, b 871; *Reviews of* (Chesney), V, a 513, a 514
Sechuana Dictionary, VII, b 167
Seckendorf, Christian Adolf, author, XXI, b 647 note
——, Friedrich Heinrich, soldier, XXI, b 647 note
——, Gustav Anton, "Patrik Peale," author, XXI, b 647 note
——, Leo, poet, XXI, b 647 note
SECKENDORF, Viet Ludwig von, statesman, XXI, b 647-8
Second, division of time (Measurement), XV, *a* 675
Secondary actions (Electrolysis), VIII, b 100, a 102-3
—— Coals, VI, b 52, b 54
—— compensation (Watch), XXIV, b 416-7
—— spectrum (Optics), XVII, b 827, a b 828
Secondat, family (Montesquieu), XVI, b 808
Second century, events in, B.C. (Chronology), V, a 627; A.D. (Chronology), b 627-8
Secondee, town (Gold Coast), X, b 672
Second sight (Apparitions), II, b 178; (Magic), XV, a 209
Secrecy (Mysteries), XVII, a 132; military (War), XXIV, a b 372
Secret (Seals), XXI, b 613, b 614, note, b 616
Secrétaire de la rédaction (Newspapers), XVII, a 438
Secrétan, theologian (Theology), XXIII, a 289
Secretaries of departments (United States), XXIII, b 798, b 802
—— of State (Ministry), XVI, b 495; list of (England), VIII, a 330-1
SECRETARY-BIRD (Ill.), XXI, a 648-9; (Africa), I, b 232
Secretary for India (Ministry), XVI, b 495, a 496
—— of Navy, United States (Navy), XVII, a b 310
—— of State for war, British (Army), II, a b 501
—— type (Typography), XXIII, *a* 739
Secreting disorders (Skin Diseases), XXII, b 128-9; glands (Anatomy), I, a 744
Secretion (Myriapoda), XVII a 124, a 125, b 126
——, alimentary (Digestive Organs), VII, b 200-1; (Nutrition), XVII, a 690-1, b 692-4; (Physiology), XIX, a 22-3; arrest of (Narcotics), XVII, a 239
Secretive diseases (Pathology) (Ill.), XVIII, b 384-7, a 388-9, a b 395
Secretiveness, organ of (Phrenology), XVIII, b 859
Secret Love or the Maiden Queen (Dryden), VII, a 423
Secret Societies (Adams), I, a 131; (Freemasonry), IX, a b 657; (Oaths), XVII, a 721; (Oddfellows), XVII, b 743-4; patriotic (Greece), XI, *b* 111; political (Metternich), XVI, b 209
—— writing (Hieroglyphics), XI, b 720
Secta (Writ), XXIV, a 731
Sectarian doctrines (Dogmatic), VII, b 293, a 296
Sectarianism (Greek-Church), XI, b 138-9
Sectional boilers (Steam-Engine), XXII, a 520
Sections, revolt of the Paris (Napoleon I.), XVII, b 202-3
Sector, Gunter's XI, b 295; (Navigation), XVII, b 261, b 262; sub-dividing (Graduation), XI, b 26; of annulus (Mensuration), XVI, a 23; of circle, b 22, b 23; of hyperbola, b 24
Sects of Mohammedanism, XVI, b 614-7
——, mediæval (Reformation), XX, b 334-5
SECULAR GAMES, Roman festival, XXI, a 649
—— inequalities of moon (Astronomy), II, b 699; upheaval and depression (Geology), X, 227-30, a 231
SECUNDERÁBAD, cantonment, XXI, a b 649
Secundicerius notariorum (Rome), XX, a 803
SECUNDUS, Johannes or Johann Everts, poet, XXI, b 649
Securifera (Hymenoptera), XII, a b 610
Security, debt (Statute Merchant), XXII, b 488; of person (Ambassador), I, b 578. See RIGHTS
Secutor, athlete (Gladiators), X, b 563
SEDAINE, Michel Jean, dramatist, XXI, b 649, note; (France), IX, b 585
SEDALIA, city, XXI, b 649-50
SEDAN, town, XXI, a 650; battle of, 1870 (Ammunition), I, b 652; (France), IX, a 552; (Germany), X, b 459; (Napoleon III.), XVII, b 235; university (Jurieu), XIII, a 793
Sedarim, parts of the Mishnah, XVI, a b 528; (Hermeneutics), XI, b 664. See *Seder*
Sedatives in Typhus Fever, XXIII, a 720
SEDDON, Thomas, painter, XXI, a b 650
Sedentaria, sub-order (Protozoa), XIX, b 887-8
Seder' Olam (Midrash) XVI, b 298; *Tohoroth* (Maimonides), XV, a 299
Sedeyr, district (Arabia), II, a 209, a b 221
Sedge, plant (Botany) (Ill.), IV, a 102, a 106, *a* 121; plant (Flag), IX, b 244-5
Sedgebird (Warbler), XXIV, b 387
Sedgemoor, plain (Somerset), XXII, a 271
SEDGWICK, Adam, geologist, XXI, b 650; (Cambridge), IV, *a* 644, b 645; (Geology), X, a 272, a 280, *a* 291, a 292, a 296, b 298, b 301, b 302
SEDGWICK, Catharine Maria, authoress, XXI, a 915
——, Daniel, hymnologist (Hymns), XII, b 627, b 630
SEDGWICK, John, general, XXI, b 915-6
SEDGWICK, Robert, merchant, XXI, b 914
SEDGWICK, Susan Ridley, authoress, XXI, a 915
SEDGWICK, Theodore, 1st, jurist, XXI, b 914-5
SEDGWICK, Theodore, 2d, lawyer, XXI, a 915
SEDGWICK, Theodore, 3d, jurist, XXI, a b 915
Sedigitus, Volcatius, poet (Terence), XXIII, b 203
Sedilia (Architecture), II, b 416

Sedimentary rock (Geology), X, b 205-6, a 234, b 258-62; joints (Ill.), a b 263; metamorphism of, b 274
Sediment of rivers (Geology), X, a 243-7
SEDITION, XXI, b 650-1; in United States, XXIII, b 804; verbal (Treason), b 562
SEDLEY, Sir Charles, wit, XXI, a b 651; (Etheredge), VIII, *b* 505; (Pastoral), XVIII, b 352
Sedomierz, district and town (Radom), XX, a 225; (Sandomir), XXI, a 272
SEDUCTION, XXI, b 651-2; (Women), XXIV, a 675
SEDULIUS, Cœlius, poet, XXI, a 652; (Hymns), XII, b 616; (Ireland), XIII, b 256, b 257; (Latin Language), XIV, a 339; MS. (Palæography), XVIII, b 156
——, grammarian, XXI, a 652
SEDUM, genus of plants, XXI, a 652; (Horticulture), XII, a 260; (Houseleek), a *b* 331
See, bishop's, defined (Cathedral), V, b 197; (Church of England), VIII, b 224. See DIOCESE
Sée, river (Manche), XV, b 466
Seebeck, Johann Thomas, physicist (Electricity), VIII, a b 11, a b 88, a 89; (Photography), XVIII, a 834, a 835
Seebeck's syren, Ludwig F. W. A. (Acoustics), I, a 102
Seebohm, Henry, ornithologist (Thrush), XXIII, a 343; (Wren), XXIV, a 724, note
Seebasaugor, district (Sibságar), XXII, a b 18
Seeburger See, lake (Hanover), XI, a 399
Seed (Botany) (Ill.), IV, b 139-41; (Grasses) (Ill.), XI, *a* b 51; (Hemp), a b 579; (Palm), XVIII, a 195; formation of (Horticulture), XII, b 219-20, a 221; (Reproduction), XX, a 443; germination (Horticulture), XII, a 221; (Physiology), XIX, a b 62; oat (Agriculture), I, a b 320; propagation by (Horticulture), XII, a b 240; transportation of (Geology), X, a 236-7. See Seeds
Seed-leaf Tobacco, XXIII, b 453
Seedlings (Acclimatization), I, b 81-2, a 83
Seedorf, lake (Freiburg), IX, b 670
Seed-Pearls, XVIII, a 458
Seed potatoes (Agriculture), I, a b 324
Seeds (Adulteration), I, b 152, b 158-9; (Agriculture), b 324, a 337, b 340-1; (Arboriculture), II, b 281-2; carrot (Agriculture), I, a b 328; culture of (Breeds), IV, b 222; (Vine), XXIV, b 255, *a* 256; (Oils), XVII, a 762-4; for water meadows (Irrigation), XIII a 374
"Seeds" pasture (Agriculture), I, a 329, a b 331
Seed-wheat (Agriculture), I, b 315, b 316
Seeland island (Copenhagen), VI, *b* 304
Seeley, naturalist (Birds), III, a *b* 632, note; (Ornithology), XVIII, a 47
——, John Robert, author (Prussia), XX, a 24. See List of Contributors
Seelmann, philologist (Romance Languages), XX, b 678 note
Seen-pe, tribe (China), V, *b* 560
Seenplatte range (Germany), X, *b* 403, b 411
Seen-shuy-Kow, town (China), V, b 547
Seen-taou Chin, town (China), V, b 549
Seer (Prophet), XIX, *a* 837, b 842; (Corea), VI, b 349
——, weight (Weights and Measures), XXIV, *a* b 518
Seeroee. See Sirohi, state
SEES, town, XXI, a b 652
Seesen, town (Steinway), XXII, *b* 926
SEETZEN, Ulrich Jasper, traveller, XXI, b 652
Seewah, oasis. See Siwa
Sefatites, sect (Arabian Philosophy), II, a 233
Sefid river (Caspian Sea), V, a 155
—— Rud, river (Irak), XIII, a 219
Sefstrom's portable furnace (Ill.), IX, b 744
Segamá river (Sabah), XXI, *a* 132
SE-GAN FOO, city, XXI, b 652-3; department (China), V, *a* b 554, a 559, a 562
Segar, Sir William (Knighthood), XIV, a b 120, b 126
Segara Anak, lake (Lombok), XIV, a 826
Segarelli, Gerhard, fanatic (Apostolici), II, *b* 173
SEGESTA or Ægesta, city, XXI, b 653; (Selinus), XXI, *a* 665; (Alcamo), I, b 405; (Calatafimi), IV, b 579; (Numismatics), XVII, a 656; (Sicily), XXII, b 22, b 23, *b* 26
Segeste or Siscia, town (Pannonia), XVIII, a b 217
Segesvar, town. See SCHASSBURG
Segging (Agriculture), I, b 320
Segmental organs (Leech), XIV, b 402
Segmentation (Biology), III, b 590-1; (Embryology), VIII, a 154, a 155; Dohrn on (Vertebrata), XXIV, a b 198; of ovum (Reproduction) (Ill.), XX, b 430-1, b 432-3
Segment of circle (Mensuration), XVI, a 23; of sphere, b 30; of hyperbola, b 24
Segments of a line (Geometry), X, a b 348
Segna di Buoninsegna, painter (Schools of Painting), XXI, b 451, a 462
Segner, Johann Andreas, mathematician (Capillary Action), V, a 51, a 52
Segneri, Paolo, Jesuit (Molinos), XVI, b 653
Segnes pass (Glarus), X, b 566
Sego, town (Africa), I, b 242; (Soudan), XXII, a 292
Segobriga, city (Celtiberia), V, a 258
Segodunum, town (Rodez), XX, a 633
Segontiaci, tribe (Carnarvon), V, *b* 105
SEGOVIA, province, XXI, b 653-4; (Spain), XXII, b 312, a 315
SEGOVIA, city, XXI, a b 654; (Aqueduct), II, b 192
—— or Wanks, river (Honduras), XII, a *b* 133
Segraisiana (Ana), I, a 689
Segre, river (Lérida), XIV, b 470, *a* 471
Segregation veins (Geology), X, a b 276, b 281
Segreis, minstrels (Portugal), XIX, b 570
Séguier, Esprit, rebel (Camisards), IV, b 657
Séguin, Armand, physicist (Energy), VIII, a b 189; (Leather), XIV, a 383
SEGUIN, Edouard, physician, XXI, a 916
Segura river (Murcia), XVII, *a* 58; (Spain), XXII, a 361
——, Manuel, poet (Peru), XVIII, a 689
——, Ruy Lopez de, author (Chess), V, a 522, a 524
Segusio, city (Susa), XXII, a b 760
Sehama mountain (Andes), II, a 17
Seharunpoor, district. See SAHARANPUR
Seiches, oscillation (Geneva, Lake of), X, b 135-6; (Lake), XIV, a b 221-2
Seidel, Ludwig, astronomer (Photometry), XVIII, b 855
Seidenberg, village (Boehme), III, b 740
Seidlitz powders (Aërated Waters), I, b 166; (Tartaric Acid), XXIII, b 75; water (Epsom Salts), VIII, b 440
Seifhennersdorf, village (Hennersdorf), XI, a 584
Seigniorage (Mint), XVI, b 503, b 504; (Money), b 751
SEIGNORY, relation of, XXI, b 654
Seihan, wadi (Arabia), II, a 208
Seiland, island (Norway), XVII, b 592
Seiler, Andrew, poet (Slavs), XXII, *b* 163
Seilûn, village (Shiloh), XXI, a 840
Seimu, emperor (Japan), XIII, b 578-9
SEINE, department, XXI, a b 655
SEINE, river, XXI, b 654-5, a b 655, *a b* 656, a b 657; (France), IX, a 416, b 457; (Loire), XIV, b 815; (Paris), XVIII, b 278, a b 279, a 280, b 284, a b 285, a b 291, b 292, a 294; (River Engineering) (Ill.), XX, a *b* 589, *b* 590, *a b* 591, b 592, a 593, b 594-5
SEINE-ET-MARNE, department, XXI, b 655-6
SEINE-ET-OISE, department, XXI, a b 656
SEINE INFÉRIEURE, department, XXI, b 656-7
Seine nets (Fisheries), IX, a 221-2, a b 227
Seir or Sherá, Mount (Arabia), II, a 206, a 208; (Esau), VIII, *a* 472; (Hor), XII, a 163; (Idumea), *a* 738
Sĕ'îrîm, demons (Satyr), XXI, a 337
SEISIN of the freehold, XXI, b 657; (Possession), XIX, *a* 577, note; livery of (Real Estate), XX, b 318
Seisina habenda (Writ), XXIV, a 731
Seismology (Earthquake), VII, a 526-30
SEISMOMETER, instrument (Ill.), XXI, b 657-61
    earth-movements, b 657-8
    equilibrium method (Ill.), a b 661
    horizontal pendulum instrument (Ill.), b 659-60
    inertia method (Ill.), a 658-61
    rolling sphere instrument (Ill.), a b 659
    tremor measurers (Ill.), b 660-1
    vertical motion instrument, a b 660
        pendulum instrument (Ill.), a 658-9
—— (Earthquake), VII, b 528-9
Seison, genus (Rotifera) (Ill.), XXI, a b 12
Seistan or Sejistán. See Sistan
Seize quartiers (Heraldry), XI, a b 632, b 633
Seizings (Seamanship) (Ill.), XXI, a b 620
SEJANUS, Lucius Ælius, minister, XXI, b 661; (Phædrus), XVIII, a 740; (Tiberius), XXIII, *a b* 358
Sejanus his Fall (Jonson), XIII, b 752, *a* 755
Se Keang, river (China), V, b 549, *b* 555, *a* 557
Sekhet, goddess (Egypt), VII, b 622
Sekigahara, battle of (Japan), XIII, b 592
Sékivado, town (Japan), XIII, b 581
Seklucyan, John, poet (Poland), XIX, a 313
Sekwati river (Sabah), XXI, b 131
Sela, city (Nabatæans), XVII, b 166, *a* 167. See PETRA
——, coin (Yemen), XXIV, b 778
Selache, fish (Ichthyology) (Ill.), XII, a b 683, a 693, b 699, a 721, b 723; (Sea Serpent), XXI, *a* 639; (Shark), a 814
Selachoidei, group (Ichthyology), XII, *b* 723-4
Selaginella, moss (Biology), III, *b* 601; (Botany), IV, b 95, b 103, a 127, *a* b 146
Selaginellaceæ, order (Vegetable Kingdom), XXIV, a *b* 141, *a* 143 (Ferns), IX, b 94
Selam, town (Banda Islands), III, b 267
Selángor, district, town and river (Malay Peninsula), XV, a *b* 323, a 324, a 325; (Straits Settlements), XXII, b 615, a 616

Selaru, islands (Timor Laut), XXIII, a 425
Selborne, village (Ornithology), XVIII, b 13
SELBY, town, XXI, b 661-2
——, Prideaux John, ornithologist (Ornithology), XVIII, b 16, a 22
SELDEN, John, scholar, XXI, a 662-3; (Arundel Marbles), II, b 586; (Chancellor), V, a 337; (Equity), VIII, a 453; (Knighthood), XIV, b 113, b 114, a 115, a b 120, a b 121, b 123, a b 126; (Presbyterianism), XIX, a 707, a 708; (Symeon), XXII, a 850; (Tithes), XXIII, a 439, note
Selection (Breeds and Breeding), IV, b 219, a 223-4; natural (Acclimatization), I, a b 83; physiological (Variation and Selection), XXIV, b 89-90; sexual (Variation and Selection), b 89
—— of lives (Insurance), XIII, b 180-1
Selenga river (Siberia), XXII, a 8, b 9, a 10, a 13; (Transbaikalia), XXIII, b 541, a b 542, note, a 543
Selenghinsk, town (Transbaikalia), XXIII, a b 542, a 543
Selenic acid (Chemistry), V, b 434, a 435, b 438, a 440
Selenides (Chemistry), V, a 434; phosphorus, b 419
Selenious acid (Chemistry), V, a b 435, a 436, b 440; anhydride, b 434, a 435
Selenite, mineral (Gypsum), XI, b 313; (Lime), XIV, b 653; (Mineralogy) (Ill.), XVI, a 378, b 412, b 417; plates (Wave Theory), XXIV, b 475-6
Selenitic mortar, Scott's (Building), IV, a 411, a 452
SELENIUM and TELLURIUM, elements, XXI, b 663-4; (Chemistry), V, b 408, b 431-41; (Electricity), VIII, a 43; (Telephone), XXIII, b 140; alcohols and ethers (Chemistry), V, b 491-2; ores (Mineralogy), XVI, b 394, a b 395, b 407, a 408, a b 410, b 412
Selenodera, genus (Toucan), XXIII, b 507
Selenodonta, fossils (Mammalia), XV, b 435-6
Selenographia, Hevelius (Astronomy), II, b 659
Selensulphur (Mineralogy), XVI, b 395
Selenter See, lake (Schleswig-Holstein), XXI, b 432
SELEUCIA or Seleuceia, city, XXI, b 664; (Mesopotamia), XVI, a 56; (Numismatics), XVII, a 667; (Persia), XVIII, b 612, b 615, b 626
—— ad Calycadnum, town (Cilicia), V, b 678
—— Pieria, city (Syria), XXII, a 862
Seleucidæ, dynasty (Israel), XIII, a b 430, a 433; (Laodicea), XIV, a b 293; (Palestine), XVIII, a 181; (Persia), b 596; coins of (Numismatics), XVII, a b 666, b 667
Seleucidean system of Weights and Measures, XXIV, b 512
Seleucidæ, Era of the (Chronology), V, a 618, a 620, a 621; (Persia), XVIII, b 596
Seleucus I., Syria, Nicator (Antioch), II, a b 115, a 116; (Behar), III, a 439; (Demetrius I.), VII, b 51, a 52; (India), XII, b 826, a b 827; (Persia), XVIII, b 596, b 597-8; (Seleucia), XXI, b 664
—— II., Syria, Callinicus (Egypt), VII, a b 646; (Persia), XVIII, a 599
—— III., Syria, Soter (Persia), XVIII, b 599
—— IV., Syria, Philopator (Israel), XIII, b 430; (Persia), XVIII, b 601
Self-conquest (Buddhism), IV, a 390, a 391
Self-consciousness (Hegel), XI, b 551; (Herbart), b 643-4; (Psychology), XX, a 75, b 85-6, a 88-9; (Schleiermacher), XXI, b 429, b 430, a 431; (Schelling), b 409
Self-control (Brinton), IV, a 362
Self-defence (Homicide), XII, a 128
"Self-denying ordinance" (Cromwell), VI, a 530
Self-esteem, organ of (Phrenology), XVIII, b 859
Self-fertilization in plants (Horticulture), XII, b 219, a b 220
Self-induction (Electricity) (Ill.), VIII, b 74-7
Self-interest (Communism), VI, b 193-4
Self-love (Butler), IV, a b 522, a 523; (Hutcheson), XII, b 425
Selfridge, Thomas O., commander (Canal), IV, a b 700
Selge, town (Pisidia), XIX, a 139
Selgovæ, tribe (Dumfries), VII, a 455, a 456
Seliger, lake (Tver), XXIII, b 714
SELIM or Salim, sultans, XXI, b 664
—— I., sultan (Arabia), II, b 227; (Beard), III, b 399; (Egypt), VII, b 657, a b 658; (Imám), XII, a 753; (Persia), XVIII, b 646-7, b 659; (Turkey), XXIII, a b 684, a 698
—— II., sultan (Turkey), XXIII, a b 685, b 698
—— III., sultan (Turkey), XXIII, a b 689
Selimnia, town. See Sliven
Se-ling She, empress (China), V, b 558; (Silk), XXII, a 62
SELINUS, colony (Plan), XXI, b 664-6; (Cilicia), V, b 678; (Hybla), XII, b 437; (Numismatics), XVII, a 656; cornices from (Terra-Cotta) (Ill.), XXIII, a b 210; researches in (Archæology), II, a 302, b 305, a 308, b 309
Selish tribes (Indians), XII, a 866
SELJUKS, Dynasties, Turkey, XXI, a b 666-9
  bibliography, 669
SELJUKS, *continued*
  crusades, period of, b 667-8
  Danishmand dynasty, a b 668
  government of the empire of, a 667
  Greek empire, wars with, a b 668
  'Irak dynasty, b 667
  Kaikobád family, rule of, a b 669
  Kerman province, b 667
  Koniah dynasty, b 668-9
  Malik Shah and his sons, b 666-7
  Mongolian period, a b 669
  relation to Islam of, a 666
  Toghrul Beg's career, a b 666
—— (Asia Minor), II, a 623; (Georgia, kingdom), X, a b 388; (Greece), XI, b 105-6; (Merv), XVI, a 49; (Mohammedanism), b 610; (Numismatics), XVII, b 678; (Omar Khayyam), b 793; (Trebizond), XXIII, a 567; literary training of (Turkey), b 697
SELKIRK, county, XXI, b 669-70
SELKIRK, town, XXI, b 670
SELKIRK or Selcraig, Alexander, sailor, XXI, b 570-1; (Juan Fernandez), XIII, a b 768
——, 5th earl of, his colony (Manitoba), XV, b 497, a 498; (Minnesota), XVI, a 500; (Red River), XX, b 328; (Winnipeg), XXIV, a 646
Sella, La, mountain (Hayti), XI, b 485
Selle, river (Somme), XXII, b 274
Seller's puddling furnace (Iron), XIII, b 331-2
Selligues, Paris (Microscope), XVI, b 272
Selling, William, scholar (English Literature), VIII, b 369
Sellius, Gottfried, editor (Encyclopædia), VIII, b 179; (Teredo), XXIII, a b 202
Selloi, priests (Greece), XI, a 84
SELMA, Alabama, town, XXI, a 671
Selnecker, Nicolas, theologian (Lutherans), XV, a 87
Selous, F. C., naturalist (Lion), XIV, a b 686, note, b 687, b 688
Selsey, isle of (Sussex), XXII, b 761, a b 762
Seltzer-water (Aërated Waters), I, b 166; (Coblentz), VI, a 83
Seltzogènes, apparatus (Tartaric Acid), XXIII, a 75
Sélune river (Mayenne), XV, a 655
Selvagee strop (Seamanship), XXI, a 621
Selwyn, geologist (Geology), X, b 290, a 301
Selymbria, colony (Greece), XI, a 86
Sema, Saracen chief (Toulouse), XXIII, b 516
Semah b. Paltoi, gaon (Talmud), XXIII, b 42 note
Semang, race (Malay Peninsula), XV, b 325
Sembera, Alois, historian (Slavs), XXII, b 162
Semele, myth (Dionysus), VII, b 216, a 217
Semeloot, village (Egypt), VII, a 672
Semeru, Mount (Indian Archipelago), XII, b 855; (Java), XIII, a 611
Semicubical parabola (Geology), X, a 368
Semi-diurnal reductions (Tides), XXIII, b 391-3; schedule, a 389; solar and lunar synthesis, a 392-3; Tides, b 381, a, b 382-3, a 385, b 386, a 390-1
Semigallia, tribe (Lithuanians), XIV, a 708
Semi-glutin (Gelatin), X, a 119
Semilunar valve (Anatomy), I, a b 791, a b 792
Seminal fluid (Reproduction), XX, a 423-5; reservoirs (Worm), XXIV, a b 716
Seminary system (Universities), XXIII, a 962
Seminium (Pathology), XVIII, a 389
Seminole Indians (Florida), IX, b 298; (Indians), XII, a 872; (Indian Territory), a b 875
Semioptera (Birds), III, b 642
Semiotellus, genus (Hessian Fly), XI, a 698
SEMIPALATINSK, province, XXI, a b 671; (Russia), b 76
SEMIPALATINSK, town, XXI, b 671; (Siberia), XXII, b 9, a 11, b 14
Semi-Pelagianism, in theology (Cassianus), V, b 160-1; (Pelagius), XVIII, b 483-4
Semiramide, opera (Rossini), XX, a 884
SEMIRAMIS, legend, XXI, b 671-2
SEMIRYETCHENSK, province, XXI, b 672-3; statistics (Russia), b 76
Semi-Saxon (English Language), VIII, a 349, b 350, b 352-9
Semitæ, organs (Echinodermata), VII, b 545
Semitic Alphabets, I, a b 534, b 535, a 538; (A), a 9; Dictionaries, VII, a 164-5; Inscriptions, XIII, a 122-4
SEMITIC LANGUAGES, XXI, a 673-88
  Amharic, b 687-8
  ancient Hebrew, a 677, a b 678
  Arabic, b 682-5
  Aramaic, b 677, a 679-82
  Assyrian, a b 682
  Babylonian exile, a b 677
  Babylonian and Mandæan dialects, b 680-1
  Biblical Aramaic, b 679-80
  characteristics, Aramaic, b 681-2
  classical Arabic, a 683-4
  colloquial Arabic, polished, a 685
  dialects, Ethiopic, a b 687, b 688
  dialects, minor Arabic, a b 685

Semitic Languages, *continued*
  Ethiopic or Geez, b 686–8
  external relations of, b 674–5
  geographical extent of Aramaic, a b 679
  group characteristics, internal, a 673, b 675–6
  Hebrew, b 676–7
  inscriptions, Arabic, b 682–3
  Koraishite dialect, a 684
  lost tongues, b 676
  mediæval Hebrew, a 678
  mental character of people, a b 674
  northern and southern groups, a b 676
  original seat of, a b 675
  Phœnician, b 678–9
  primitive tongue, b 673–4
  Sabæan, b 685–6
  Samaritan dialect, b 680
  schools of Hebrew, b 677–8
  Syriac, a b 681

—— (Aramaic), II, b 269; (Egypt), VII, a b 625; (Europe), VIII, b 615; (Gesenius), X, a b 495; (Grammar), XI, b 34, a b 35, b 36; (Hebrew Language), a b 532; (Hieroglyphics), a 709–10, b 721, b 722; (Philology), XVIII, a 788, b 791, a 792; (Ural-Altaic), XXIV, b 5, a 6; primitive (Anthropology), II, a 104, b 105
—— learning, restoration of (Schultens), XXI, a 480
—— legends (Deluge), VII, a b 49; mythology (Selden), XXI, b 662; Poetry, XIX, a 282; race (Asia), II, b 609, a 610; (Hittites), XII, a b 29; (Inscriptions), XIII, a b 121; (Israel), a 410; (Soudan), XXII, b 291, a b 292; Religions, XX, b 373–4; (Theism), XXIII, a 256; words for God (Theism), b 254, a 256
Semitiques, Histoire des Langues, XXI, a 674, b 688
Semitones, chromatic (Pianoforte), XIX, a 77
Semivowels, Aryan (Philology), XVIII, a 801
Semler, Johann Salomo, critic, XXI, a b 688; (Canon), V, a 15; (Hermeneutics), XI, a 669; (Rationalism), XX, *a* b 302
Semlin, town, XXI, a 689; (Croatia), VI, b 522
Semmering Pass (Alps), I, a 546, a 553
Semmes, Raphael, naval officer, XXI, b 916
Semnopithecus (Ape) (Ill.), II, b 132–3, b 136, b 137, a b 138, *a* 139, a b 140, b 141, *b* 143, a 144, a 145, *a b* 146
Semois river (Luxemburg), XV, a 90
Semolina, wheat (Macaroni), XV, b 126
Semostomæ (Hydrozoa), XII, *a* b 590
Sempach, Lake of (Lucerne), XV, a 42; (Switzerland), XXII, a 815
——, town (Switzerland), XXII, *a* b 823; battle of, 1386 (Winkelried), XXIV, b 644, a b 645; ordinance (Switzerland), XXII, a 827
Sempavor, Giraldo, soldier (Portugal), XIX, a 566
Semper, Gottfried, architect, XXI, a 689; (Vienna), XXIV, *a* 238
——, Karl, naturalist (Caroline Islands), V, *a* 111; (Pacific Ocean), XVIII, b 132; (Parasitism), b 267; (Reproduction), XX, a b 424, a 435
Sempervivum, genus of plants (Horticulture), XII, a 260; (Houseleek), *a b* 331
Semple, Robert, poet (Scotland), XXI, b 567
Sempronia, gens, tombs of (Rome), XX, a 852
Sempronian law (Province), XIX, b 910
Sempronius Tuditanus, Caius, consul (Rome), XX, b 833 note
——, T. Longus, consul (Hannibal), XI, b 395
Sen, Kesab Chandra, reformer (Bráhma Samaj), IV, a 182
Senaar or Sennár, country, XXI, b 689–90; plains (Soudan), XXII, a 291, a 292, a 293
Sénac, Jean Baptiste, physician (Medicine), XV, a 824
Senaculum, assembly place (Rome), XX, a 835
Sénancour, Étienne Pivert de, litterateur, XXI, a b 690
Senarmont, Henri Harrau de, mineralogist (Mineralogy), XVI, a 384, a b 392
Senarmontite (Mineralogy), XVI, a 375, b 404
Senate, French (Napoleon I.), XVII, a 213, b 218, b 227, a b 228; (Sainte-Beuve), XXI, b 171, a 172
——, Polish, origin of (Poland), XIX, a 300
——, Roman (Augustus), III, b 70; (Cæsar), IV, *a* b 563, a 565, *a* 567; (Censor), V, b 290; (Consul), VI, b 279–80; (Drusus), VII, b 420, a 421; (Government), XI, b 11; (Numismatics), XVII, b 670–1; (Rome), XX, a b 774–5, a b 776, a 779, a b 780, b 782, a b 783, a 786; imperial (Rome), a b 790, *b* 791; (Severus), XXI, a 734; mediæval (Rome), XX, b 802, a 805, b 810–11, *b* 812; primitive (Rome), a 752, b 754; reorganized by Sulla, XXII, b 666; resists Cæsar (Rome), XX, b 784; under Byzantine rule (Rome), b 800, a 801
——, Russian, XXI, b 77
——, United States, XXIII, b 796, b 797, *b* 798, b 802
—— house (Cambridge), IV, b 645
Senator, papal (Rome), XX, b 815, *a* b 821
Senatorial order, Roman (Costume), VI, b 403, a 404; provinces (Rome), XX, b 762; veto (Roman Law), b 696
Senators, foreign (Rome), XX, a 814, a 819, a 821; Roman (Commodus), VI, b 185; (Constantine I.), a 267
Senator summus, mediæval (Rome), XX, *b* 812, a b 813
Senatus consulta (Inscriptions), XIII, a 138; (Justinian I.), b 801; (Roman Law), XX, a 723, a 724, b 725, *a* 726
Senchán Torpeist, poet (Celtic Literature), V, b 267, a 270
Senchas Mór, code (Ireland), XIII, b 254; (Brehon Law), IV, b 225, a 228; (Cairn), b 570
Senckenberg, Johann Christoph, physician (Frankfort), IX, b 621–2
Sendai Bay (Japan), XIII, a 580
Sendall, Thomas, merchant (Smith), XXII, a 184
Sendurjharí hills (Bhandárá), III, a 542
Senebier, Jean, pastor, XXI, b 690; (Switzerland), XXII, b 837
Seneca, Lucius Annæus, philosopher, XXI, b 690–2; (Shakespeare), b 799; (Drama), VII, a 355; (Epicurus), VIII, b 422; (Gallio), X, *b* 38; (Gladiators), a 564; (Latin Language), XIV, a 337; (Martial), XV, a 586; (Nero), XVII, b 357, *a* b 358, b 359; (Persius), XVIII, b 674, a b 675, a 676; (Roman Literature), XX, *a* 745; (Slavery), XXII, a 142; (Stoics), b 593, a 598, a b 601; *Epistles to* (Paul), XVIII, b 433
Seneca Falls, town, XXI, a 692
—— oil (Petroleum), XVIII, b 888
Senecio, genus of plants (Botany) (Ill.), IV, a 108, b 111, b 112, a 113, b 120; (Groundsel), XI, *b* 196; (Horticulture), XII, b 244
Senefelder, Alois, inventor (Lithography), XIV, b 703–4
Senegal, colony, XXI, b 692–3; exploration of (Adanson), I, b 132–3; trade with (France), IX, a 465
Senegal, river, XXI, a b 692; (Africa), I, a 225, a 227
—— Gums, XI, a 244
Senegambia, country (Map), XXI, b 693–5; (Africa), I, b 231, b 236, b 240
Seneka, drug (Snake-Root), XXII, a 199
Senesino, singer (Handel), XI, b 388, *a* 389
Senex, J., his map of London, 1720 (London), XIV, 860
Senftenberg's, Baron von, (Observatory), XVII, b 733
Sengel or Senguer river (Patagonia), XVIII, a 358
Seng Kang, town (Celebes), V, a 251
Sengora, district (Malay Peninsula), XV, *a* b 325
Seni, astrologer (Wallenstein), XXIV, a 350
Seniavine islands (Caroline Islands), V, b 111
Senichshöhe, mountain (Saxe-Coburg-Gotha), XXI, a 363
Senigallia, city. See Sinigaglia
Senile diseases (Pathology), XVIII, b 391–2
Senility (Insanity), XIII, b 108, a b 115
Senior, Nassau William, economist, XXI, b 695–6; (Cairnes), IV, *a* 572; (Political Economy), XIX, *a* 385, a 387, a 388 note, a b 390, *a* b 394; (Poor Laws), a 496
Senlac, battle of, 1066 (England), VIII, b 262; (Harold II.), XI, a b 432
Senlis, town, XXI, b 696–7
Senna, city (Ardelan), II, b 422
Senna, plant, XXI, a 697; (Botany) (Ill.), IV, *a* 100; (Fig), IX, b 135
——, settlement (Zambesi), XXIV, *a b* 804
Sennacherib, king, Assyria (Babylon), III, a 158, *b* 162, b 166; (Egypt), VII, b 643; (Elam), b 689; (Hezekiah), XI, *a* b 703; (Hosea), XII, b 309; (Philistines), XVIII, b 769, a 770; (Phœnicia), a 821; his invasion of (Isaiah), XIII, a 389, a 394; (Israel), b 423, a b 424, a 425; his inscriptions (Israel), b 424; his palace (Architecture), II, b 348
Senne river (Brussels), IV, *b* 363
Sennett, R., engineer (Steam-Engine), XXII, b 515 note, a 547 note
Senn Patraicc (Patrick, St.), XVIII, b 422, a 423
Senofern, king (Egypt), VII, b 634, a 635
Senones, tribe (Italy), XIII, b 453, a 455; (Paris), XVIII, b 292; (Rimini), XX, b 570; (Rome), a 762, b 764; (Umbria), XXIII, a 771
Senonian cretaceous rocks (Geology), X, b 318
Sens, town, XXI, a 697–8
Sensation in psychology (Condillac), VI, a b 223–4; (Cousin), a 466, a 468; (Hamilton, Sir W.), XI, *b* 373, *a* 374; (Hartley), *b* 445; (Herbart), a 643; (Hume), XII, a 368; (Hutcheson), b 426; (Kant), XIII, b 859; (Locke), XIV, *a b* 765; (Reid), XX, b 364; development of (Physiology), XIX, a 39; elements of (Psychology), XX, a b 51; feeling distinguished from, b 45–6; intensity of, a 47, b 54–5, b 58–9, b 63, b 72–3; movement and, b 55–6, b 72–4; specific (Müller, J.), XVII, a 23; subjectivity of (Cartesianism), V, b 129, a b 131; (Mechanics), XV, a 755
——, external agents of (Physiology), XIX, b 31

- Sensations (Anatomy), I, b 776-7; (Bee), III, b 420-1; (Drowning), VII, b 409; (Ear), b 512, b 513-4; (Heat), XI, a 495, b 498, a 499; (Music), XVII, a b 100; (Physiology), XIX, b 31; (Touch), XXIII, b 511-2; localization of (Psychology), XX, a *b* 57, a b 58-9, a 63, a 68, a 89; recurrent (Psychology), a b 64
- Sense, river (Freiburg), IX, *b* 670
- Sense (Eleatic School), VIII, a b 3; (Hobbes), XII, b 35; (Hutcheson), b 424, a b 425; (Kant), XIII, a b 861, a b 862; (Psychology), XX, b 79-80; (Schleiermacher), XXI, b 429
- —— cells (Sponges), XXII, a b 436; epithelium (Hydrozoa), XII, b 584, a 585
- ——, organs (Anatomy), I, b 776-8; ear, a 783, a 786; eyeball (Ill.), b 777-83; smell, a 777; taste, b 787; touch, b 787, b 788; (Amphibia), I, b 673; (Arachnida), II, a 261; (Birds), III, b 628-9; (Cuttle-Fish), VI, a 651; (Histology), XII, b 7-8; (Hydrozoa) (Ill.), b 584; (Ichthyology) (Ill.), b 672-3, b 689-91; (Leech), XIV, b 401-2; (Mammalia), XV, a 369-70; (Mollusca), XVI, b 659-60, b 689, a 706-7, b 718; (Planarians), XIX, a b 183; (Rotifera), XXI, a 11; (Tunicata), XXIII, a 651, b 652; development in craniata (Vertebrata), XXIV, a 197, a 201, a 202
- Senses (Ant), II, b 85, a 87; (Corals), VI, a 329; (Crustacea), b 562-4; in idiots (Insanity), XIII, *a* 104
- Sense-world, theory of (Schopenhauer), XXI, a b 472
- "Sensibilité" period (Stael), XXII, b 456
- Sensitive Galvanometers (Ill.), X, a b 47, b 48
- Sensitiveness of skin (Touch), XXIII, b 510-1
- Sensitive plant (Botany) (Ill.), IV, a b 101; (Mimosa), XVI, b 357; motions of (Physiology), XIX, b 69, *a* 70, b 71
- Sensitizing bath (Photography), XVIII, a 843
- Sensorium (Magnetism, Animal), XV, b 281-4
- Sensori-volitional system (Crustacea), VI, b 562
- Sensory areas of cerebrum (Physiology), XIX, a b 48; centres (Magnetism, Animal), XV, b 283-4; nerves (Anatomy), I, *b* 756, a *b* 761; *b* 773, a 774-5; (Physiology), XIX, b 28-9, a 31; transmission of impressions, a b 40, a 42; velocity in, b 29-30
- Sentences, construction of (Grammar), XI, a b 38, b 39
- *Sententiæ* (Lombard), XIV, a 822; (Scholasticism), XXI, a b 443, note
- —— (Publilius), XX, a 103
- Sentimental comedy, English (Drama), VII, a b 377
- *Sentimental Journey* (Foscolo, Ugo), IX, b 416, a 417; (Sterne), XXII, b 570
- Sentiments localized (Phrenology), XVIII, b 859
- Sentinum, battle of, 294 B.C. (Rome), XX, a 762; (Samnites), XXI, a 261
- Sentis, mountain (Appenzell), II, a 184
- Senúsiya, religious order (Tripoli), XXIII, *b* 612
- Senzaugakona, Zulu chief (Zululand), XXIV, b 867
- Seo, El, church (Manresa), XV, a 504
- Seoint river (Carnarvon), V, a b 105
- SEONI or SEONEE, district, XXI, a 698
- SEONI, town, XXI, a 698; (Hoshangábád), XII, a 312
- Seoáráínrin, town (Biláspur), III, *b* 580
- Seosseres, god (Circassia), V, b 688
- Seoul, city (Corea), VI, a 348
- Sepal (Botany) (Ill.), IV, b 113, a 114, *b* 118-9
- Separation a mensa et thoro (Divorce), VII, *b* 261, *a* 262
- Separatists (Brownists), IV, a 353; (Communism), VI, a 193; (Independents), XII, a b 762-3; (La Badie), XIV, b 164
- Separator, steam (Steam-Engine), XXII, b 522
- Sepharad, city (Obadiah), XVII, b 722
- Sepharadic ritual (Mahzor), XV, *a* b 295
- Sephardim, western Jews (Israel), XIII, a 440; (Jews), a b 694, a b 695, b 696, *a* b 697
- Sepharvaim, cities (Euphrates), VIII, b 588 note
- *Sepher Hammisvoth* (Maimonides), XV, b 298
- —— *Hayyashar* (Midrash), XVI, a 299 note; (Tam), XXIII, b 44
- —— *Yezirah* (Midrash), XVI, a 298
- Sephiroth (Kabbalah), XIII, a 820-1, a 823
- Sephoris or Seffûrich, town (Galilee), X, a 26
- Sephuris, king (Egypt), VII, b 634
- SEPIA, pigment, XXI, a b 698
- ——, genus (Pigments), XIX, a 97; (Cuttle-Fish) (Ill.), VI, b 649, a b 650, a b 651, b 652, a 653; (Mollusca) (Ill.), XVI, a 694, a 697, a b 698, a 699, a 703, a 707
- Sepiadæ, family (Mollusca), XVI, b 695
- Sepiola, cephalopod (Gelatin), X, b 117
- Sepiolidæ, family (Mollusca), XVI, b 695
- Sepiolite, mineral (Meerschaum), XV, b 834
- Sepiostaire, bone (Cuttle-Fish) (Ill.), XI, a b 651
- *Sepmaine, La*, poem (Bartas), III, a 346
- *Sepolcri* (Italy), XIII, b 523
- SEPOY, soldier, XXI, b 698; (Arcot), II, b 421; (Clive), VI, b 9, a b 10, a b 11, a b 13; (Hyder Ali), XII, a 443; mutiny, 1857 (Army), II, b 517; (Bengal), III, b 492; (Canning, C.J.), IV, b 715-6; (Cawnpur), V, b 241, a b 242; (Clyde, Lord), VI, b 42; (Dalhousie), b 686-7; (Delhi), VII, a 42, b 43-4; (Dinapur), b 211; (Elgin and Kincardine), VIII, a 124; (Faizábád), b 749; (Farrakhábád), IX, a 39; (Gonda), X, a 685; (Grant Sir J. H.), XI, a b 46; (Gurgáon), b 296-7; (Havelock), *a* 470; (India), XII, b 840, a 844, a 849-50; (Jalaun), XIII, b 557; (Jaunpur), b 610; (Lawrence, John L.), XIV, a 372; (Lawrence, Sir H.), *b* 373; (Lucknow), XV, b 51-2; (Nana Sahib), XVII, a 177; (Nepâl), a 354; (Oudh), XVIII, a 76, a 77; (Outram), b 79-80; (Patna), b 419, a 420; (Sháhjahánpur), XXI, b 771; (Siálkot), b 889
- Seps, genus (Lizard), XIV, b 741
- Sept or fine (Clan), V, a 698-9; (Ireland), XIII, a b 254, a b 257, b 263-4; in Micronesia, XVI, a 267
- Septa, partitions (Corals), (Ill.), VI, b 330, b 331-2, b 337, *a b* 339, *a b* 340, a 341, b 342, a 343
- —— Julia, voting place (Rome), XX, a 850
- Septaria or bald-pates (Building), IV, b 410
- Septata, class (Protozoa) (Ill.), XIX, b 877-8
- Septchênes, Le Clerc de, editor (Gibbon), X, a 520
- SEPTEMBER, month, XXI, b 698; (Calendar), IV, b 590, a *b* 591, b 597, a 601; calendar, British (Horticulture), XII, a b 305; United States, b 307
- *Septem Contra Thebas*, play (Sophocles), XXII, a 285, a 286
- Septennial act (England), VIII, *b* 317; Prescription, XIX, a 726
- Septerion, festival (Orestes), XVII, b 851
- SEPTICÆMIA, blood-poisoning, XXI, b 698-9; (Pathology), XVIII, a 411; (Surgery), XXII, b 712-4, a 718, b 725
- Septimania, kingdom (Goths), X, a 756; (Languedoc), XIV, *a* 288; (Roussillon), XXI, b 33
- Septimius, families (Palmyra), XVIII, a b 204, note
- Septizonium of Severus (Rome), XX, a 844
- SEPTUAGINT, book, XXI, b 699-702
  - Aristæus, letter of, b 699-700
  - Hagiographa and Apocrypha additions, b 700-1
  - Hebrew Scriptures, relations to, a 702
  - *Hexapla*, Origen's, a b 701
  - liturgical relations of, a 701
  - origin, evidences of, 699-700
  - recensions, b 701, note

—

- —— (Alexandrian School), I, a 440, b 441; (Armenian Version), II, a 483; (Bible), III, a 554, a 558, a 559; (Canon), V, a b 6, *a* 7; (Chronology), b 619; (Canticles), a 33; (Concordance), VI, b 214; (David), b 736-7; (Esdras), VIII, *a* b 479; (Gospels), X, a 718, b 721-2; (Hebrew Language and Literature), XI, b 535; (Hody), XII, a 46; (Israel), XIII, b 438; (Kings, Books of), XIV, a b 85-6; (Lucian), XV, *a* 48; (Origen), XVII, a 865; (Proverbs), XIX, a b 908; (Psalms), XX, a b 34, a 35, a 37, *a* 39; (Samaritans), XXI, a 257 note; (Targum), XXIII, a 68; Vatican MS. (Moloch), XVI, a 723; chronology of (Anthropology), II, b 103
- Septum of heart (Anatomy), I, b 790, b 791; lucidum, b 769, a 771, a 772; nasi, a 777
- Sepulchral Cave of Orrony, V, b 234; monuments (Cairn), IV, b 570
- *Sepulchral Monuments of Great Britain* (Gough), XI, b 4
- —— mounds (Kertch), XIV, a 55; statuary (Sculpture) (Ill.), XXI, b 584, a b 585, notes, *a b* 586, a 587, note, b 589, b 591, *b* 593, *a* 595; urns (Kurdistan), XIV, b 159. See Tombs
- SEPULCHRE, Holy, XXI, b 702-4
  - Constantine's authority, b 703
  - Fergusson's argument, b 703-4
  - historical argument, b 704-5
  - intra-mural tombs, b 703
  - third locality suggested, a b 705
  - walls of Jerusalem, a b 703
  - writers on site of, b 702-3

—

- SEPULCHRE, Canons Regular of the Holy, order, XXI, a b 702
- ——, Easter (Architecture), II, b 416
- SEPULCHRE, Knights of the Holy, XXI, b 702
- Sepulchres, early Christian (Sculpture), XXI, a 582
- Sepulture, neolitic (Archæology), II, b 295, *a* 296, a 298
- Sepulveda, Juan Ginez de, historian (La Casas), XIV, b 320
- Sequani, tribe (Gaul), X, b 100; (Germany), X, b 426
- Sequatchie river (Tennessee), XXIII, a 193
- Sequence in card-playing (Cribbage), VI, b 509, a 510; (Piquet), XIX, a b 123
- Sequences (Hymns), XII, b 617-8, a 619; (Missal), XVI, a 534 note
- *Sequestrari facias* (Writ), XXIV, b 731
- Sequestration in Bankruptcy, III, *b* 296
- Sequestrum, sloughing (Necrosis), XVII, a 322
- Sequin, coin (Numismatics), XVII, a 673, b 675

SEQUOIA, tree (Ill.), XXI, b 705–6; (Arboriculture), II, b 277, a 280; (California), IV, a 624; (Forests), IX, a 357; (United States), XXIII, b 861; fossils (Devonshire), VII, a 121
Sera, city (Ptolemy), XX, b 98, a 101
——, convent (Lhasa), XIV, a b 500
Serafí, Pere, poet (Spain), XXII, a 378
Seraglio, palace (Constantinople), VI, a b 271; (Harem), XI, b 427
——, town or Kastro (Siphanto), XXII, b 102
Seraievo or Seraglio, city (Bosna Serai), IV, a 60
SERAING, town, XXI, b 706
—— scale (Iron), XIII, a 289, note; steel, manufacture of (Iron), a b 342
Serakhs, province (Russia), XXI, b 76
SERAMPUR, town, XXI, b 706; (Hooghly District), XII, a 151
Serang or Ceram, station (Bantam), III, b 299; (Java), XIII, b 616
Serapeum, temple (Alexandria), I, a 433; (Apis), II, b 152; (Architecture), a 339, b 343; (Egypt), VII, b 670; (Libraries), XIV, a b 510; (Pozzuoli), XIX, b 671
SERAPHIM, symbols, XXI, b 706; (Angel), II, *b* 25
Seraphine (Harmonium), XI, b 432
SERAPIS or Sarapis, god, XXI, b 706–7; (Egypt), VII, b 621
Seraskier Ibrahim, pasha (Poland), XIX, b 307
Seraung mountains (Saráwak), XXI, a 321
Sera-Woullis, tribe (Gambia), X, b 54
Serbâl, Mount (Sinai), XXII, *a b* 96
Serban, Cantacuzene, voivode (Roumania), XXI, b 22
Serbistan, ruins (Architecture), II, b 351
Serbo-Croatian, language (Herzegovina), XI, b 692
Serbonis, lake (Egypt), VII, a 615
Serbs, race (Croatia), VI, b 523; (Hungary), XII, *b* 379 (Servia), XXI, a 720–1
Serchio river (Italy), XIII, a 448; (Lucca), XV, b 40, b 41
Sercial Wine, XXIV, *b* 641
Serekuli or Serrakolet race (Soudan), XXII, a 292
SERENA, city, XXI, a 707; (Chili), V, a *b* 539, a 540
Serenata (Stradella), XXII, a 613
Serendib, island (Ceylon), V, a 316
SERENUS of Antissa, geometer, XXI, a b 707
——, false Messiah, XVI, a 61 note
—— of Marseilles, bishop (Image Worship), XII, a 751
Sereres, tribe (Senegambia), XXI, *a* 695.
SERES, Serres or Sîros, town, XXI, b 707–8
——, race (China), V, *b* 544, *a* 545, a 546; Greek trade with (Persia), XVIII, b 601
Seret Berapi mountain (Sumatra), XXII, b 671
Sereth, town (Bukowina), IV, a 461
Serf, Pictish missionary (Scotland), XXI, b 496; legend of (Liturgy), XIV, b 716
Serfdom (Arndt), II, b 543; (Greece), XI, b 101; (Iceland), XII, a 656; (India), a b 821, a 828; (Labor), XIV, b 166–7; (Land), a 263; (Poland), XIX, b 297, a 298, a 300, b 301, a 303, b 309, b 321; (Russia), XXI, b 89, *b* 90–1, b 92, a 106, a 108; (Slavery), XXII, a 143–5, b 151–2; mediæval (Political Economy), XIX, b 365
Serfs, Russian (Hertzen), XI, b 691; (Siberia), XXII, b 15, a 18; emancipation of (Russia), XXI, b 110; (Prison Discipline), XIX, b 781. See Serfdom
Sergeant. See Serjeant
Sergeants-at-arms (Royal Household), XXI, b 43
SERGHIEVSKIY POSAD or Troitze-Serghievsk, town, XXI, a b 708
Sergiopolis, town (Sergius), XXI, b 708
Ser Giovanni, Leonardo di, silversmith (Robbia), XX, b 604
SERGIUS I., II., popes, XXI, b 708
SERGIUS III., pope, XXI, b 708; (Popedom), XIX, b 511, b 512, a 524
SERGIUS IV., pope, XXI, b 708
——, monk (Serghievskiy), XXI, *a* b 708
—— of Antioch, patriarch (Syriac Literature), XXII, *b* 874
——, patriarch of Constantinople (Heraclius), XI, a 608
—— ibn ar-Rumi, author (Syriac Literature), XXII, b 875 note
—— of Râs'ain, author (Syriac Literature), XXII, b 874–5, note, b 878
SERGIUS, Saint, martyr, XXI, b 708
—— Paulus, proconsul (Paul), XVIII, a 425, a 428
—— Tychicus, sectary (Paulicians), XVIII, b 444; (Persia), a 625
Serial publications (Copyright), VI, a 318, b 324
Seriatopora (Corals), VI, a 334
Seribas, river (Borneo), IV, b 50
Sericin, albumen (Silk), XXII, a 67
Sericulture (Silk) (Ill.), XXII, b 64–6
SERIEMA or Cariama, bird (Ill.), XXI, b 708–10; (Birds), III, a 645
SERIES, mathematical, XXI, a 710–4
  authorities, a 714
  backward and forward series, b 712–3
  convergent and divergent series, b 711–2
SERIES, *continued*
  criteria, a b 712
  double infinite convergent series, a b 713
  finite series, a 710–1
  imaginary terms, b 713
  infinite series, a 711–4
  parameter functions, b 713
  positive and negative numbers, a b 711
  real variable, b 713–4
  trigonometrical, b 713
—— complex and convergent (Variable), XXIV, b 78; for computing π (Trigonometry), XXIII, b 608; infinite (Algebra), I, b 462, a 494–5; (Variable) XXIV, *b* 78; semi-convergent (Variable), b 78; sine and cosine (Trigonometry), XXIII, b 599–600, a 609; Taylor's, for a complex function (Variable), XXIV b 81
Serigpe, province (Brazil), IV, a 201, b 210, *b* 212
Serigraph, testing machine (Silk), XXII, b 68–9
SERINGAPATAM, town, XXI, a 714
Seringham. See SRIRANGAM
Serins, group of birds (Finch), IX, b 167, a 168
Serio, river (Italy), XIII, b 445
Serious Call (Law, W.), XIV, a 370
Serjeant (Costume) (Ill.), VI, *a* b 423
SERJEANT-AT-LAW, XXI, a b 714, note; (Barrister), III, a b 340; (Precedence), XIX, a 684 note
Serjeants' Inn (Inns of Court), XIII, b 93
Serjeanty tenure (Real Estate), XX, a 320
Serlio, Sebastian, architect (Architecture), II, b 382; (Peruzzi), XVIII, b 696
Sermaj, fortress (Kurdistan), XIV, b 160
Sermik soak, ice wall (Greenland), XI, a 149
Sermon on the Mount (Buddhism), IV, b 384–5; (Gospels), X, a 715, b 724, a 725; (Jesus Christ), XIII, a 675
Sermons (Adams, T.), I, a 132; (Alford), b 446; (Butler, W. A.), IV, a b 525; (Copyright), VI, a 319; (France), IX, a 571, b 582–3; (Francis of Sales), b 612, *a* b 613; (Robertson), XX, a 614; (Tauler), XXIII, b 88
Serous membranes (Anatomy), I, b 744; (Digestive Organs), VII, b 194, a 195, b 196, b 198–9, a 200
Serpent. See SNAKES
—— (Adam), I, a b 125; (Eve), VIII, b 643; (Gnosticism), X, a 627
—— in Heraldry, XI, a 626
——, brazen (Israel), XIII, a 410, b 423
——, instrument (Ophicleide) (Ill.), XVII, b 799–802; (Zincken), XXIV, b 826–7
——, Zodiacal sign, XXIV, a b 831, a 832
—— -bezoar (Gamboge), X, a 56
—— -charming (Gipsies), X, a 546, a 550
Serpentine, lake (London), XIV, a 833
SERPENTINE, mineral, XXI, b 714–5; (Cornwall), VI, a 376, *a* 377; (Geology), X, b 203, b 206, b 207; (Mineralogy), XVI, a 386, b 394, a b 432; Canadian (Foraminifera) (Ill.), IX, b 336–8, a 339
Serpent-powder (Gunpowder), XI, b 291
—— -worship (India), XII, a 830
SERPUKHOFF, town, XXI, b 715–6
Serpulidæ (Annelida), II, b 59, b 60, a 61
Serra, Antonio, publicist (Political Economy), XIX, b 369
——, Rose, nun (Stigmatization), XXII, a 578
—— Complida, mountains (Loango), XIV, b 748
—— da Estrella (Beira), III, b 440; (Portugal), XIX, a b 551
—— da Lousão (Portugal), XIX, a 551
—— da Mantiqueira, mountains (Brazil), IV, *a* b 200, a 201
—— das Vertentes (Brazil), IV, *a* b 200
—— de Arrabida (Portugal), XIX, a 551
—— de Cintra (Portugal), XIX, a 551
—— de Marão (Portugal), XIX, a 551
—— de Monchique (Portugal), XIX, b 551, a 552
—— de Ossa (Portugal), XIX, a 551
—— de San Mamede (Portugal), XIX, a 551
—— do Espinhaço (Brazil), IV, *b* 200, a *b* 201
—— do Gerez (Portugal), XIX, a 551
—— do Malhão (Portugal), XIX, b 551
—— do Mar (Brazil), IV, b 200, a 201, b 203
Serrania de Cuenca, district (Spain), XXII, b 307, a 308
—— de Ronda, range (Spain), XXII, b 308, b 309, a 310, a 315
Serranilhas, poems (Portugal), XIX, a *b* 570
Serrano, Francisco, duque de la Torre, marshal, *b.* 1810, *d.* 1885 (Prim), XIX, *a* 752; (Spain), XXII, *a* 360
Serranus, genus (Ichthyology), XII, a 698, a 702, a 727
Serrao, João, navigator (Geography), X, b 163
Serravalle, commune (Ceneda), V, b 290
Serres, Olivier de, writer (France), IX, b 577
Serresius, genus (Birds), III, b 643
Serricornes, class (Coleoptera) (Ill.), VI, b 119–20
Serronia, genus (Jaborandi), XIII, *b* 540
Sertáo, prairie (Brazil), IV, *a* 203

SERTORIUS, Quintus, general, XXI, a b 716; (Metellus), XVI, b 111; (Rome), XX, b 779 note, a 781; (Spain), XXII, b 321
Seruj, town (Mesopotamia), XVI, b 52, b 53
Serum of blood (Chemistry), V, *b* 502; (Respiration), XX, b 496, b 497; of pus (Pathology), XVIII, b 370, a 371
Serval, genus (Mammalia), XV, a 441
"Servant of Jehovah" (Isaiah), XIII, *a* 390, *b* 391, *b* 392, b 394
Servants, domestic (United States), XXII, b 876
——, law of (Government), XI, b 17; (Master and Servant), XV, a 627; (Possession), XIX, a 577 note; (Wages), XXIV, a 329; theft by (Liguori), XIV, b 645
Serva Padrona, La, operetta (Pergolesi), XVIII, a 539
SERVETUS, Michael, polemic, XXI, b 716–8; (Anatomy), I, b 710, note; (Calvin), IV, b 633, b 635–6; (Farel), IX, a 30; (Geneva), X, a b 134; (Harvey), XI, *a* 450, note; (Vascular System), XXIV, a 104
SERVIA, kingdom (Plate I), XXI, b 718–24
- administrative features, a 720
- area, b 718
- chorography, b 718–9
- climate, a 719
- geological features, a 719
- HISTORY, a 720–2
  - ethnic story, a b 720
  - Greek empire, contests with, b 720–1
  - independence, achievement of, b 721–2
  - Turkish supremacy, a b 721
  - industrial features, a b 719
- LITERATURE, a 722–4
  - ballad period, b 722
  - chronicles, a b 722
  - Croatian influence, a b 724
  - modern era, b 723–4
  - Montenegro, b 724
  - Ragusan era, b 722–3
  - population, b 719–20

—— (Czerny, George), VI, b 666; (Greece), XI, b 107; (Herzegovina), b 693; (Hungary), XII, *b* 375, b 378, *b* 379, a b 386; (Land), XIV, a 263; (Mœsia), XVI, a 566; (Montenegro), b 807; (Newspapers), XVII, a 443; (Periodicals), XVIII, a 555; revolt of, 1804 (Turkey), XXIII, b 689. See Servians
Servian Alphabet, I, *a* 539, b 540; Church (Greek Church), XI, b 140, a 142; (Ipek), XIII, a 217
—— constitution (Roman Law), XX, b 687, a b 690, *a* 692, b 693–6; reforms (Rome), b 753–4; wall (Rome) (Plate VI) (Ill.), a b 827, a 828, a b 830 note, a 831. See SERVIUS TULLIUS
Service, fruit (Horticulture), XII, a 289
——, military (Knighthood), XIV, b 115–7; term of (Army), II, b 496–7, a 503
Service-books (Palæography), XVIII, b 152, b 155; Italian (Libraries), XIV, b 529; Scottish (Hymns), XII, a 625; (Syriac), XXII, b 866, b 885, b 896, note, b 897, b 900
Service of writs (Process), XIX, a 810
—— reservoirs (Water-Supply), XXIV, b 431
—— suits (Slavery), XXII, a 908
Servile insurrections, Roman, XX, b 775; (Slavery), XXII, a b 141; (Tauromenium), XXIII, b 53
Servilius, Caius, consul (Hannibal), XI, b 395
——, Publius, proconsul (Isauria), XIII, a 395
SERVITES, order, XXI, b 724; (Monachism), XVI, a 736, a 742
Servitude et Grandeur militaire (De Vigny), VII, b 117
"Servitudes" (Poland), XIX, b 321, *a* 322, b 323
SERVIUS, commentator, XXI, b 724–5
SERVIUS TULLIUS, king of Rome, XXI, b 725; (Army), II, b 492; (Fire), IX, b 200; (Rome), XX, *a* 750, *b* 753, a 754, a b 831. See Servian constitution
Servo-Croatian language (Europe), VIII, b 615; (Slavs), XXII, a b 159
Servo-Croats, race (Slavs), XXII, b 153, *b* 156, b 157
Servois, mathematician (Infinitesimal Calculus), XIII, a 31; (Quaternions), XX, *a* 168
SESAME, plant, XXI, b 725; cake (Oilcake), XVII, a 760; oil (Oils), a 765, a 766, b 767–8
Sesia, river (Italy), XIII, a 445
Sesiidæ, moths (Butterflies) (Plate XXX), IV, a 528, 530
Sesonchosis, king, Egypt (Caste), V, b 167
SESOSTRIS, king, Egypt, XXI, b 725–6; (Army), II, a b 490
SESSA, town, XXI, a 726
Sesse Archipelago (Nile), XVII, a 518
Sessions (Justice of the Peace), XIII, a 799; origin of Court of (Scotland), XXI, a 515, b 520
Sestertius, coin (Numismatics), XVII, a 653, a b 670, a 676
Sestina (Provençal Literature), XIX, b 899
Sestine (Pontus de Tyard), XIX, b 474
Sestos, city (Thrace), XXIII, a 339
Sestri Ponente, town (Genoa), X, b 141
Set, diagram of (Strength of Materials) (Ill.), XXII, b 627; hardening from, b 629–31
——, Egyptian god. See Seth
Sét, standard of value (Ireland), XIII, a 262
Setæ, hairs (Botany), IV, a 80; (Worm) (Ill.), XXIV, a 713
Setaria (Grasses) (Ill.), XI, a 52, b 53
Setcha, Cossack camp (Nikopol), XVII, b 517
Setebos, god (Patagonia), XVIII, b 358
Setee I. or Sethos, king (Egypt), VII, a b 640, note, b 674, *b* 675, a 678; (Mummy), XVII, a b 28
—— II., king (Egypt), VII, a 641
Seth or Set, god (Egypt), VII, *b* 619, *a* b 620, *a* b 621; (Typhon), XXIII, a 718
Setheum, temple (Egypt), VII, b 573, b 575
Sethiani, sect (Gnosticism), X, a b 626, *b* 629
Sethos, king. See Setee
——, Simon, chronicler (Greece), XI, b 121
Setia, city (Latium), XIV, a 345
Set-nekht, king (Egypt), VII, b 642
SETON, Elizabeth Ann, sister-of-charity, XXI, b 916–7
——, Mary, queen's maid (Wig), XXIV, b 591, note
Setophaga, genus (Redstart), XX, a b 331
Sets, tuber, propagation by (Horticulture), XII, b 240
Setter (Dog), (Ill.), VII, a 285
SETTIGNANO, Desiderio da, sculptor, VII, b 112
Setting bones (Surgery), XXII, a b 716
Settings (Jewellery), XIII, a b 689
SETTLE, Elkanah, poet, XXI, a 726; (Drama), VII, a 377; (Dryden), b 423, a 424
SETTLEMENT, in law, XXI, b 726–9
- definitions, b 726
- eldest son, b 727
- historical forms of, a 727
- leases under, b 227, a b 728
- marriage, a b 727, b 728, *a* b 729
- personal competency for, b 728–9
- Roman law, b 726
- sales under, a b 728
- Scotland, a b 729
- United States, b 729
- voluntary conveyance, a 729

—— (Husband and Wife), XII, a 416, *a* 417; (Landlord and Tenant), XIV, b 274; (Women), XXIV, b 674, a 675, note; voluntary (Bankruptcy), III, a 295
SETTLEMENT of the English crown, XXI, b 729–30
—— of the poor, English law of (Agriculture), I, a b 363; (Poor Laws), XIX, a b 481, b 492–3
Settling reservoirs (Water-Supply), XXIV, b 430
SÉTUBAL, town, XXI, a 730
Seubert's apparatus for casting (Phosphorus), XVIII, a 829
Seuen-tĭh, Ming, emperor (China), V, a 563
Seuen-tsung, Kia emperor (China), V, b 561–2
Seuruga, fish (Sturgeon), XXII, b 644
Seuthes I., king (Numismatics), XVII, b 648, b 656
Seve, king of Ethiopia (Israel), XIII, a 422
Sevellan mountain (Azerbijan), III, b 145
Seven Brothers, islands (Bab-el-Mandeb), III, b 155
"—— churches" (Wicklow), XXIV, *a* 589
—— Cities, island of (Brazil), IV, *a* 216
—— days' battles, 1862 (United States), XXIII, a 826
—— days' war (Austria), III, a b 122
—— deadly sins (Ethics), VIII, a 522
—— Dials (London), XIV, a 842
Seven Griefs of Mary, paintings (Memling), XV, a b 854, a 855
"—— Men of Moidart" (Charles Edward), V, b 369
SEVENOAKS, town, XXI, a b 730
Seven Pines battle, 1862 (United States), XXIII, b 825
"—— Seas" (Italy), XIII, a 446
SEVEN SLEEPERS OF EPHESUS, XXI, b 730; (Jew, Wandering), XIII, a 685
"—— Stones," lightship (Lighthouse), XIV, a 636
Seventeenth century, events in, A.D. (Chronology), V, a 642–6
Seventh century, events in B.C. (Chronology), V, b 625; A.D. (Chronology), a b 629
Seventh-day Dunkers, VII, b 469
Seven Towers, fortress (Constantinople), VI, b 270 note, b 271, a 375
—— weeks' war (France), IX, a 551; (Germany), X, b 458
Seven Words on the Cross (Haydn), VI, a b 482
Seven Works of Mercy (Pistoia), XIX, a 141
Seven years' war (Austria), III, b 111–3; (Chatham, Earl of), V, a 383; (Conti), VI, b 284; (Daun), a 734; (England), VIII, a b 319; (Eon de Beaumont), a 405; (Ferdinand of Brunswick), IX, b 74; (Finance), *a* 162; (France), a 518–20; (Frederick II.), b 648; (Germany), X, b 451, a 480; (Prussia), XX, b 13–4; (Saxony), XXI, b 370
Severians, sect (Monothelites), XVI, b 784–5
Severinus, saint (Boetius), III, a 744, b 745; (Odoacer), XVII, a 747
SEVERN, river, XXI, b 730–1; (Dredging), VII, a b 402, a 404; (England), VIII, a 196; (Gloucester), X, *a* 615; (Montgomery, county), XVI, a 815; (River Engineering), XX, b 588; (Shropshire) XXI, *b* 886, *a* 887; (Stafford), XXII, a 459; (Tides), XXIII, a 376; (Worcester), XXIV, *b* 700, *a* 701

Severn, railway Tunnel, XXIII, b 662, b 663
—— valley Coal-fields, VI, a b 48
SEVERN, Joseph, painter, XXI, a 731
Severus of Alexandria, novelist (Romance), XX, a 652
—— of Antioch, bishop (Syriac Literature), XXII, a b 874, b 875
—— of Mosul, bishop (Syriac Literature), XXII, a b 890
—— bar Shakkō, bishop (Syriac Literature), XXII, b 897
——, Libius, emperor (Ricimer), XX, b 562
SEVERUS, Lucius Septimius, emperor, XXI, a 731–4
  accession of, a b 732
  authorities, a b 734
  British period, a b 733
  character of, b 733
  employment under the state, b 731–2
  origin and youth, a b 731
  Parthian period, a 733
  struggles with Niger and Albinus, b 732
—— (Britannia), IV, a b 319; (Byzantium), a b 547; (Caledonia), b 588–9; (Egypt), VII, b 648; (Hadrian, Wall of), XI, *a* b 327; (Papinian), XVIII, a 233; (Persia), b 615–6; (Perth), a 680; (Rome), XX, a 790 note, b 791, *a* b 794, a 795; (Scotland), XXI, b 494; (York), XXIV, b 789
SEVERUS, Marcus Aurelius Alexander, emperor, XXI, b 734; (Heliogabalus), XI, b 564; (Image Worship), XII, a b 750; (Lares), XIV, a 314; (Persia), XVIII, b 618; (Philostratus), a b 810; (Rome), XX, b 790, b 791, a 795; (Ulpianus), XXIV, a 768
SEVERUS, Sulpicius, author, XXI, b 734–6; (Church History), V, a 668; Verona MS. (Palæography), XVIII, b 157
—— Sēbōkht, bishop (Syriac Literature), XXII, a b 881
Sevier, river (Utah), XXIV, b 24
——, Ambrose H., senator, XXI, a 917
SEVIER, John, governor, XXI, a 917
Sévigne, Charles de, soldier, XXI, b 736, b 737, b 738, a 739
——, Henri, Marquis de, XXI, b 736
SÉVIGNÉ, Marie de Rabutin-Chantal, Marquise de, letter-writer, XXI, a 736–40
  ancestry and youth, a b 736
  bibliographical history, a b 740
  Breton and Provençal visits, period of, a b 738
  character of, b 739–40
  children, settlement of her, a 737–8
SÉVIGNÉ, *continued*
  death and descendants, b 738–9
  married life, b 736–7
  Rabutin and Fouquet period, a 737
  subject and style of letters, a b 739
—— (Drama), VII, a 367; (La Fontaine), XIV, a 205, b 206; (Louvois), XV, *a* 29; (Retz), XX, *a* 503
Sevilan, Mount (Ardebil), II, b 422
SEVILLE, province, XXI, b 740; (Spain), XXII, a 310, a b 312, a 313, b 314, *b* 316, *b* 318
SEVILLE, city (Plan), XXI, b 740–3; (Herrera), XI, b 681–2; (Inquisition), XIII, a 100; (Libraries), XIV, b 551; (Mural Decoration), XVII, b 41, a 43; (Murillo), a *b* 61, a b 62, a 63; (Velazquez), XXIV, a 144; gallery (Schools of Painting), XXI, a 466–7, a 743
—— Orange, XVII, b 835
Sevo, Pizzo di, mountain (Italy), XIII, a b 447
Sèvre, river (Loire-Inférieure), XIV, *b* 817; (Niort), XVII, a b 527; (Sèvres), XXI, *b* 743; (Vendée), XXIV, *a* b 149
—— -Nantaise, river (France), IX, a 446, b 457; (Sèvres), XXI, b 743; (Vendée), XXIV, a b 149
SÈVRES, town, XXI, a 743; (France), IX, *b* 460; museum (Pottery), XIX, a 656, a 658
SÈVRES, Deux, department, XXI, a b 743
—— ware (Pottery and Porcelain) (Ill.), XIX, b 652; a 657–9
Sevri Hissar, town (Pessinus), XVIII, b 704
Sewage (Fermentation), IX, a 87; (Guano), XI, a 208; (Hygiene), XII, b 602; disposal of (Barracks), III, a b 338; (Pathology), XVIII, a 414; infection from (Typhus), XXIII, b 720; London (Cubitt, T.), VI, b 604
—— -farming (Edinburgh), VII, b 570
—— manure (Agriculture), I, b 305–7, a 309, a 311, b 332–3
Sewall, Jonathan Mitchell, poet, XXI, b 917
——, Jonathan (Adams, John), I, a 130
——, Joseph, divine, XXI, *b* 917
SEWALL, Samuel, 1st, chief justice, XXI, a b 917; (Slavery), XXII, b 908
——, Samuel, 2d, chief-justice, XXI, b 917
SEWALL, Stephen, scholar, XXI, b 917
——, Stephen, chief justice, XXI, b 917
SEWARD, William Henry, statesman, XXI, b 743–5; (Greeley), XI, b 143, *b* 144; (Lincoln), XIV, a 666, b 667, b 668; (Republican Party), XX, a b 906; (Taney), XXIII, a 922; (United States), b 818, a 822, b 829; (Van Rensselaer), XXIV, *b* 876
Sewed muslin manufacture (Ireland), XIII, b 237
Sewellel, mammal (Zoology, American), XXIV, a 923
Sewen, fish (Salmonidæ), XXI, a 233
SEWERAGE (Ill.), XXI, b 745–54
  basins, house, b 750–1
  chemical treatment of, a b 747
  classification of subject, b 745–6
  discharge of, open, b 746–7
  disposal of sewage, b 746–7
  domestic arrangements, a 749–53
  drains, house, b 751–2
  filtration of, a 747
  portable closet systems, b 753
  rain-water, house management of, b 751
  references, b 753–4
  sewers (Ill.), b 747–9
  summary, a b 753
  tests, house, a 752
  traps, house (Ill.), a 749–50, a 752
  water-closets (Ill.), a 752–3
—— (Hamburg), XI, b 363; (London), XIV, b 835–6; (Paris), XVIII, b 285; (Pullman), XX, b 890; (Sydney), XXII, a b 847
Sewer-gas. See Gas Poisons
Sewers (Hydromechanics), XII, a 521; construction of (Sewerage) (Ill.), XXI, b 747–9; house (Building) (Plate XXI) (Ill.), IV, b 417–8
Sewing (Glove), X, b 617–8
SEWING-MACHINES (Ill.), XXI, a 754–6; (Glasgow), X, a 576; (Patents), XVIII, a 880; (Shoemaking), XXI, a b 870
SEWING-MACHINES in the United States, XXI, b 917–21
  button holes, b 920
  chain-stitch mechanisms, b 918–9
  general observations, b 917–8
  Howe's invention, b 919–20
  lock-stitch mechanisms, a 919–20
  shuttles, a 920
  subsidiary parts, a b 920
  tentative inventions, a b 918
SEX, XXI, a 656–760
  anabolic and katabolic reproduction, a b 760
  characters of sexes, a 756–7
  determination of, b 757–9
  Dusing's theory, a b 759
  invariable antecedents of, a 758
  invertebrate animals, a 756–7
  nutrition, effects of, a b 758
  parental vigor, effects of, b 758–9
  reproduction, b 759–60
  vertebrate animals, a b 757
—— (Ant), II, b 84–5, a b 88; (Population), XIX, b 528, a b 531; alternation of (Oyster), XVIII, b 110; influence of (Meningitis), XVI, b 15; of deities (Brahmanism), IV, b 187; in living forms (Biology), III, a 594; in plants (Botany), IV, a b 72, b 121–44; in relation to Crime, VI, a 517; to Suicide, XXII, a b 664. See Sexual
——, colony (Phœnicia), XVIII, b 819
Sexagesimals (Arithmetic), II, a b 462; in measuring angles (Trigonometry), XXIII, a 598; Tables, a 13
Sexcentenary Tables, XXIII, a 13
Sexennial Prescription, XIX, b 726
Sexes, proportion of (Europe), VIII, a b 618
Sexet, goddess (Bubastis), IV, *b* 366
Sexradiate spicules (Sponges) (Ill.), XXII, b 432, a b 433
SEXTANT, instrument (Ill.), XXI, 760–2; (Geography), X, b 167; (Light), XIV, b 590; (Navigation), XVII, a b 275; (Newton), b 452
Sextario, measure (Weights and Measures), XXIV, b 518
Sextarius, measure (Weights and Measures), XXIV, b 512, *b* 513
Sextius, Lucius, consul (Rome), XX, a b 757
——, Quintus, philosopher (Stoics), XXII, a 601
Sex totem (Totemism), XXIII, a 496, a 501
Sextus Empiricus, philosopher (Scepticism), XXI, *b* 397, b 399
Sexual character of plumage (Ornithology), XVIII, a 52; involution (Pathology), b 391; organs. See Generative Organs, REPRODUCTION
—— periodicity (Pathology), XVIII, b 367; plants (Reproduction), XX, a b 436, a 437–9, a 440–4; (Palm), XVIII, b 194–5; prepotency (Breeds), IV, a 221, b 223; purity (Acclimatization), I, b 84
—— reproduction (Biology), III, a 594–5; (Sponges), XXII, b 440–1, b 443; selection (Butterflies), IV, b 527; structure (Mammalia), XV, a b 371
Sexuality, animal (Reproduction), XX, a 419–35; plant (Reproduction), b 440–1
Se-yang Keang river (China), V, b 549
Seybo, plain (Hayti), XI, b 485
Seybouse river (Algeria), I, b 496
SEYCHELLES, archipelago, XXI, a b 762; (Palm), XVIII, a 195
Seyed Mohammed Ali (Babi), III, b 156
SEYFFARTH, Gustav, archæologist, XXI, a 921
Seyfried, composer (Albrechtsberger), I, b 403

- SEYMOUR, Horatio, governor, XXI, a b 921; XXIII, b 839
- ——, Horatio, judge, XXI, b 921
- ——, Jane, queen (England), VIII, a 302; (Henry VIII.), XI, a 593
- ——, Sir Michael, admiral (China), V, a 566
- ——, Origen S., chief justice, XXI, b 921
- ——, Richard, author (Whist), XXIV, b 573, a 574
- ——, Thomas, Lord Sudeley, lord admiral (Edward VI.), VII, *a* 595; (Elizabeth), VIII, b 132–3; (England), VIII, b 303; (Grey, Lady J.), XI, b 172
- ——, William, duke of Somerset (Stuart), XXII, *b* 642
- Seymour's fan training (Horticulture) (Ill.), XII, a 284
- SEYNE, LA, town, XXI, b 762
- Seyssel, Claude de, historian (France), IX, a 575
- Seyyid et-el-Mulook, princess (Egypt), VII, b 651
- Sfakiots, mountaineers (Crete), VI, b 505, *a* 506
- SFAX, city, XXI, b 762–3
- Sfrondato, Niccolo (Gregory XIV.), XI, b 159
- Sforza, family (Condottieri), VI, b 227; (Milan), XVI, a 304, b 305; (Pesaro), XVIII, a b 697
- ——, Bona, queen (Poland), XIX, b 302
- ——, Caterina (Alexander VI.), I, a b 432; (Medici), XV, a 798
- ——, Francesco, general (Italy), XIII, a 488, b 489, b 490; (Medici), XV, b 795; (Piacenza), XIX, b 72
- ——, Galeazzo Maria, duke (Italy), XIII, a 491
- ——, Giacomuzzo Attendolo, captain (Rome), XX, a b 822
- ——, Lodovico, the Moor, duke (Italy), XIII, a *b* 491; (Piacenza), XIX, a 72
- ——, Polissena, princes (Rimini), XX, *a* 572
- —— monument (Leonardo), XIV, b 457, a b 458
- *Sganarelle*, comedy (Molière), XVI, a 650
- Sgau-Karen Dictionary, VII, a 166
- *Sgeulachdan* (Gaelic), X, b 11
- Sgraffiato ware (Pottery and Porcelain) (Ill.), XIX, a b 639, a 643, b 650
- Sgraffito (Building), IV, b 454–5; (Mural Decoration), XVII, b 43
- Sgurr Mor, mountain (Ross County), XX, a 877
- Shabak or Sabakon, king (Egypt), VII, b 643
- Shâbandar, officer (Áchin), I, a 91
- Shabatok or Sebichus, king (Egypt), VII, b 643
- Shabin (Kara-Hissar), town, XIV, a 4
- Shackle-joint (Skeleton), XXII, b 116
- Shackleton, Abraham, teacher (Burke), IV, b 481
- SHAD, fish, XXI, a 763; (Ichthyology), XII, b 732; fisheries (Pisciculture), XIX, b 135, a b 136, *b* 137, a b 138
- *Shad-Darshan Darpan* (Hindustani Literature), XI, b 759
- SHADDOCK, fruit, XXI, b 763
- Shadid, god (Phœnicia), XVIII, a 816
- Shading charts (Surveying), XXII, a 746–7, a 751
- Shádoof, machine (Egypt), VII, b 613
- Shadow of circular disk (Wave Theory), XXIV, b 469–70; of a grating, b 465; straight edge, b 467–8
- Shadows, perspective (Projection), XIX, a b 828; theory of (Light), XIV, b 584–6, a 613; (Wave Theory), XXIV, a b 452
- *Shadrimsa* (Sanskrit), XXI, a 291
- Shadwell, parish (London), XIV, b 838
- SHADWELL, Thomas, poet, XXI, b 763; (Congreve), VI, a b 241; (Drama), VII, a 377
- Sháfe'ees or Sháfi'ites, sect (Egypt), VII, b 627, a 628; (Mohammedanism), XVI, a 615; (Sunnites), XXII, a b 695
- Shaft-bearing (Steam-Engine), XXII, a *b* 538
- SHAFTESBURY, Anthony Ashley Cooper, 1st earl of, XXI, b 763–7
  - Charles II., supports government of, b 764–5
  - Cromwellian era, a b 764
  - early life, b 763–4
  - estimate of, a 767
  - popular leadership against the government, b 765–6
  - trial and exile, b 766–7
- —— (Burnet), IV, b 502; (Locke), XIV, a b 759; (Monmouth), XVI, a 782–3
- SHAFTESBURY, Anthony Ashley Cooper, 3d earl of, XXI, a 767–70
  - critical authorities, b 770
  - ethical philosophy of, a 769–70
  - influence of, a b 770
  - literary period, a b 768
  - political career, period of, a 767–8
  - personal qualities, b 768–9
  - writings, a 769–70
  - youth of, a b 767
- —— (Æsthetics), I, a 199; (Deism), VII, a 32, *a* 33; (English Literature), VIII, a 381; (Ethics), b 527–8; (Hutcheson), XII, b 424, *a* 425, a 426, *a* 427; (Mandeville), XV, a 480; (Theism), XXIII, a 254
- SHAFTESBURY, Anthony Ashley Cooper, 7th earl of, XXI, b 770–1
- ——, Anthony Cooper, 8th earl, XXI, a 771
- —— clauses for equality of railway Toll, XXIII, a 465
- Shafting, straightening of (Iron), XIII, b 339
- Shafts of furnace (Iron), XIII, b 304, b 305
- —— in mines (Coal) (Ill.), VI, b 58–9, a 60, a b 70
- ——, forged (Hammer), XI, a 380–1
- ——, masonry (Mining) (Ill.), XVI, a b 471; sinking (Mining) (Ill.), a b 468–9; (Tunnelling), XXIII, a b 662; timbering (Mining) (Ill.), XVI, b 470, a 471
- ——, torsion of (Steam-Engine), XXII, b 536, b 540; (Strength of Materials) (Ill.), b 637–8
- Shag, bird (Cormorant), VI, a 362
- ——, valley (Oamaru), VXII, a 714
- Shagreen, leather (Ass), II, a 627; (Ichthyology), XII, a 704; (Leather), XIV, b 390–1; (Shark), XXI, b 815; (Skeleton), XXII, b 116
- SHAHABAD, district, XXI, a 771
- Shahab-ud-dín, sultan (Ghazni), X, a 502; (Ghúr), a 509; (India), XII, b 831–2
- Sháh Alam, emperor (India), XII, a *b* 841, a 844
- Shah-bandar, town (Kurrachee), XIV, b 161, a 162
- Shahebgunge, town (Santal Parganas), XXI, b 311
- Sháheen Bey (Egypt), VII, b 662, b 663
- Sháhí, coin (Persia), XVIII, a 633
- Sháhinsháh, title (Mohammedanism), XVI, a 610
- Shah-ioly region (Transcaucasia), XXIII, b 546
- SHÁH JAHAN, emperor, XXI, a 771; (Agra), I, b 255, a 256; (India), XII, a *b* 834, b 638; (Punjab), XX, a 117
- *Shah Jahán Nama* MS. (Timur), XXIII, b 426
- SHÁAJAHÁNPUR, district and town, XXI, a b 771
- Shah Jalál, shrine (Ibn Batuta), XII, a 643
- Sháhjí, Marhattá chief (Bangalore), III, b 270; (Kolár), XIV, b 137–8
- Shah-Kuh, mountain (Khorásán), XIV, b 68
- *Shahnamah*, or *Book of Kings* (Firdousi), IX, *a* 196, a b 197, a 198; (Mahmúd), XV, a 290; (Mohl), XVI, a 629; (Persia), XVIII, a 669, a 671; (Poetry), XIX, b 279; (Zoroaster), XXIV, b 859, b 860
- Sha-ho or Sasid, river (China), V, b 551; (Hwen T'sang), XII, b 434
- SHAHPUR, district, XXI, b 771–2; (Punjab), XX, *b* 112, b 114, a 115
- SHAHRASTANI, theologian, XXI, a 772
- Shahrbaráz, general (Persia), XVIII, a 626
- Shahrozúr, city and battle (Mohammedanism), XVI, a 600
- Sháh Rukh, king (Persia), XVIII, b 643
- Shah-sewen, party (Turks), XXIII, a 703
- Shah-Yar river (Gobi), X, b 635
- Shaibáni, Uzbek general (Persia), XVIII, b 646
- Shaikh Haidar, teacher (Persia), XVIII, b 645
- Shaikhawti, country (Jeypore), XIII, *a* 699
- Shaikh Súfi, mystic (Persia), XVIII, a b 645, notes
- SHAIRP, John Campbell, critic, XXI, a 772–3; (Coleridge, S. T.), VI, a 124, a 125
- Shaked (Almond), I, a *b* 523
- SHAKERS, sect, XXI, a b 773; (Communism), VI, a 193, *a* b 194, a 195; (Divorce), VII, a 264; (Enfield), VIII, a 193
- Shakespeare, Edmund, actor, XXI, b 801
- ——, Hamnet, poet's son, XXI, b 791, a 801
- ——, John, ancestor, XXI, a 781–3, a 784, *a* b 785, a b 788, b 790, b 791, *b* 802
- ——, Judith, daughter of poet, XXI, b 791, a 802
- ——, Richard, ancestor, XXI, a 781
- SHAKESPEARE, William, poet, XXI a 773–805
  - actor, early experience as an, b 794–5
  - Arden district, a 774–5
  - BIBLIOGRAPHY, b 803–7
    - Bacon controversy, b 807
    - bibliographies, b 807
    - biographers, b 806
    - collective editions, b 803–4
    - Collier controversy, a b 807
    - concordances, b 805–6
    - critical and illustrative works, b 804–5
    - grammars and glossaries, b 805
    - historical, dramatic, a 807
    - illustrated editions, a b 806
    - Ireland controversy, a 807
    - jubilees, a 807
    - music, a 806
    - periodicals, a 806
    - portraits, b 806
    - selections, a 804
    - societies, publications of, a 806
    - sources of plays, a 806
    - special knowledge of, a 806
    - translations, a b 804
  - birth and childhood of, a 785–6
  - contemporary dramatists, a 798–9
  - deer-stealing story, b 789–90
  - dramatic art, new school of, b 797–9
  - effect on family of parental reverses, b 782
  - father of, b 781–3
  - favorable conditions for dramatic success of, a b 795
  - Felden district, a b 775
  - first period of dramatic composition, a 779–80
  - Florio, John, b 792–3
  - forest survivals, b 778–9
  - history of Warwickshire, b 775–7
  - holidays, rural celebration of, a b 786
  - home life after school days, a 788–9
  - inherited qualities, a 784–5
  - introductory, a 773–4
  - Italian studies of, b 793–4
  - later personal history, a b 801

SHAKESPEARE, *continued*
  local attachments of, a b 780
  local traditions, influence of, a b 777
  London, repairs to, a b 792
  lucrative pay of actors, b 791-2
  Lucy, Sir Thomas, a 790-1
  maternal influence, a 784
  marriage of, a b 791
  mother of, a 782-5
  name and family, b 780-1
  native drama, growth of, b 795-6
  retirement in Strafford, b 801-2
  reverse of parental fortune, b 781-2
  rural rambles and sports, b 785-6
  scenery, influences of, a b 779
  school education, b 787-8
  second period of dramatic composition, a b 800
  stage plays, accessible to the youth of, b 786-7
  Stratford, b 777-8
  summary, a 802-3
  superiority of English stage, b 798-9
  theatres in London, a 796-7
  third period of dramatic composition, b 800-1
  Warwickshire, a 774-7
  War of the Roses, b 776-7
  Welsh border history, b 779-80

—— (Age), I, a 249; (Alleyn), a 515; (Bandello), III, a 268; (Beaumont and Fletcher), *b* 406, *a* b 409; (Brentford), IV, a 231; (Bürger), b 476; (Burns), b 507; (Calderon de la Barca), *b* 586; (Campbell, Lord), a 671; (Chapman), V, b 344-5; (Davenant), VI, a 735; (Drama), VII, b 360, a 368, b 371-3, a 375, b 381-2; (Ducis), *b* 436; (England), VIII, b 307; (English Language), a 357, 359; (English Literature), b 370, a b 372, a 373, b 374-5; (Epitaph), b 438, a b 439; (Farmer, R.), IX, b 32; (Fine Arts), b 181; (Florio), b 299; (Fool), b 320; (Ford, J.), b 347; (Fuseli, H.), a b 749; (Geoffrey of Monmouth), X, a 155; (Gervinus), a *b* 494-5; (Goethe), a b 645, a 651; (Greene), XI, b 146, a b 147; (Hall, Edward), b 347; (Herder), b 651; (Hrosvitha), XII, b 340, a 341; (Jonson), XIII, b 751, a b 752, a 753, a 754, a 755
—— (Madden), XV, b 177; (Magic), a 203; (Marlowe), b 563, *a b* 564, a 565; (Marston), a b 582; (Middleton), XVI, b 295; (Milton), a 338; (Molière), b 652, a 653; autograph (Montaigne), a 798; (Ovid), XVIII, b 86, note; (Poetry), XIX, a b 277; (Ring), XX, b 576; (Sonnet), XXII, a 275, a b 276; (Theobald), XXIII, a 272; (Timon), a 424; (Titian), a 442
Shakespeare, editions of (Capell), V, b 48; (Dyce), VII, b 491-2; (Johnson, S.), XIII, a 735, a b 736; (Staunton), XXII, a 489; (White), XXIV, b 896; early (Shorthand), XXI, a 876
—— forgeries (Ireland, S., and S. W. H.), XIII, a 278-9
——, translations of (Hungary), XII, *a b* 393, note; (Schlegel), XXI, a 426; (Tieck), XXIII, b 408
Shakespeareau illustrations (Boydell), IV, b 165
Shakespeare Cliff tunnel (Railway) (Ill.), XX, a 242
Shakespeare in Germany (Ayrer), III, b 143
Shakespeare's Women, Characteristics of (Jameson, A.), XIII, a 572
Shaki-Shaki, town (Zanzibar), XXIV, b 806
Shakrak, town (Ghúr), X, b 509
Shaku, measure (Weights and Measures), XXIV, a 518
Shakudo ware (Japan), XIII, b 601
Shale (Alum), I, b 567, b 568; (Geology), X, b 212, a b 307; (Nitrogen), XVII, a 530, a 531; (Ohio), b 755-6; (Petroleum), XVIII, b 886; (Westmorland), XXIV, a b 512, a 544; bituminous (Nova Scotia), XVII, b 616; clay (Mineralogy), XVI, b 442; flux (Iron), XIII, b 303; Naphtha, XVII, b 181
Shales, bituminous, distillation of (Paraffine), XVIII, b 244, a b 245; silurian (Geology), X, a 296, a 297, *b* 298
Shallot, plant (Horticulture), XII, b 300
Shalmanezer I., king, Assyria (Babylonia), III, *b* 161
—— II., Assyria (Israel), XIII, a 417, a 418; gates of (Metal-Work), XVI, b 78
—— IV., Assyria (Israel), XIII, a 422; (Phœuicia), XVIII, a 821
Shám or Syria (Yemen), XXIV, *a* 775
Shamalo, cereal (Millet), XVI, b 333
SHAMANISM, superstition, XXI, a 807-8; (Babylonia), III, a b 167; (Buriats), IV, a 481; (Ethnography), VIII, a b 547; (Mongols), XVI, b 768, a 769; (Ostiaks), XVIII, a 65; (Pelew), a 485; (Religions), XX, a 376; (Russia), XXI, *b* 89
Sha-mien, quarter (Canton), V, *b* 35
SHAMMAI, rabbi, XXI, a 808
Shammar tribe (Mesopotamia), XVI, a 54, b 56
Shamo desert (Gobi), X, *b* 635, a 636
SHAMOKIN, Pennsylvania, town, XXI, a 808
Shamoy (Leather), XIV, b 390
Shams, sun-deity (Yemen), XXIV, a 778
Shamsuddin Muhammed, poet (Háfiz), XI, a 328
——, Súfí (Rumí), XXI, a 65
—— Kurt, sultan (Ghúr), X, b 509
Shan-a-lin mountains (Manchuria), XV, *a b* 473, b 474
Shang dynasty (China), V, b 558-9
Shanghae fowl (Agriculture), I, a 356
SHANGHAI, city (Plan), XXI, a 808-9; (China), V, *a* 552, a 555, *b* 565, *b* 583; (Libraries), XIV, a 552
Shang Ko-he, rebel (China), V, a 564
Shang-mi, state (Kashkar), XIV, b 11
Shang-pa, town (Tibet), XXIII, *b* 361
Shang-se-ho, river (China), V, b 550
Shang-shung, province (Tibet), XXIII, a 366, b 367
Shan-hai Kwan, town (China), V, b 550
Shanks, William, mathematician (Tables), XXIII, b 12, *a* b 18
Shank's picture-reproducing process (Typography), XXIII, b 750
"Shannon," ship (Navy), XVII, b 294, 296
——, river (Athlone), III, b 13; (Clare), V, a *b* 701, *a* 702; (Galway), X, a 51; (Ireland), XIII, b 222, b 224; (Leitrim), XIV, a 433; (Limerick), *b* 655; (Roscommon), XX, *b* 872
—— Pot, spring (Cavan), V, b 229
SHANS, race, XXI, b 809-10; (Siam), b 893-4, *a* 895; (Burmah), IV, b 492, a *b* 493, note, b 496
Shansabi or Shansabániah family (Ghúr), X, a b 509
Shan-se, province (China), V, *a* 548, a b 550, a b 551, *b* 557, b 560, b 561, a 562
Shantar islands (Siberia), XXII, b 10
Shantow, city. See Swatow
Shan-tung, province (China), V, *b* 547, a 548, b 550-1, a 554, b 561, *a* 562; (Glass), X, b 580
Shaou-chow Foo, district (China), V, a 556
Shaou Ke, river (China), V, a 553
Shap or Shap Wells, village (Westmorland), XXIV, *b* 542, a b 543, a *b* 544
Shaparee, island (Burmah), IV, b 497
Shaping machines (Machine Tools) (Ill.), XV, b 157; (Mechanics), a b 782
Shāpúr river (Susa), XXII, *a* 760
——, kings of Persia. See SAPOR
Sharaf-uddín 'Ali Yazdí, historian (Petis de la Croix), XVIII, a 717; (Timur), XXIII, b 426, a 427
Sharakee lands (Egypt), VII, a 614
Sharatân, Arab zodiacal sign, XXIV, b 833
Sharavati river (Kanara), XIII, a 844
Sharazád, queen (Thousand and One Nights), XXIII, a b 337
Shardana or Sardones, people (Egypt), VII, b 640
Shares, contracts for (Sale), XXI, b 217
Shari river (Africa), I, b 226, b 228-9, a 243; (Bornu), IV, a 54; (Soudan), XXII, *b* 290, *a* 291, a *b* 292, *a* 293
Sharifu 'd-Dín, historian. See Sharaf-uddín
Sharjah, district and town (Arabia), II, a 222
SHARK, fish (Ill.), XXI, b 810-6
  bathybial (Ill.), a b 815
  distribution of, b 810-1
  economic uses of, b 815-6
  littoral (Ill.), a 811-2
  pelagic (Ill.), b 812-5

—— (Dog-Fish), VII, a b 288; (Ichthyology) (Ill.), XII, b 672, a b 673, a 676, a 683, a 688, a 690, b 691, b 692-3, a 702, b 703, a 704, a 706, b 720, a 721, a b 723-4; (Pilot-Fish), XIX, b 105; (Porbeagle), b 532; brain of (Physiology), b 37; spine of (Skeleton), XXII, a 118, b 120
Sharki, dynasty (Jaunpur), XIII, b 610
Shark-liver oil (Oils), XVII, b 765, b 768
Shark Point (Zaire), XXIV, b 803
Sharks, basking (Sea-Serpent), XXI, a 639
Sharks' Bay (Western Australia), XXIV, *a* b 536, *a* 537
——, teeth, deposit of (Pacific Ocean), XVIII, a 128, a 130, a 131
SHARON, Pennsylvania, town, XXI, a 816
——, plain of (Israel), XIII, b 412; (Palestine), XVIII, a 176
—— coal (Ohio), XVII, *a* 756
Sharp, Abraham, mathematician (Algebra), I, a 491; (Logarithms), XIV, a 786; (Squaring the Circle), XXII, a 453; (Tables), XXIII, b 14, a 16; (Trigonometry), b 607
——, Granville, philanthropist (Slavery), XXII, a *b* 147
SHARP, James, archbishop, XXI, a 816-7; (Scotland), *b* 537, *a b* 538
——, William, critic (Sonnet), XXII, *a* 276
SHARP, William, engraver, XXI, b 817
Sharpe, Daniel geologist (Lisbon), XIV, b 696, note
——, Richard B., ornithologist (Kingfisher), XIV, *a* b 84, note; (Ornithology), XVIII, a b 20, b 21; (Osprey), a 60 note; (Owl), b 94; (Swallow), XXII, a 768 note; (Thrush), XXIII, a 343; (Tody), b 460; (Zosterops), XXIV, a 863, note
Sharpey, W. (Anatomy), I, b 716, b 717, b 749, b 750, b 751; (Microscope), XVI, b 270

Sharpness docks (Gloucester), X, *a* 615
Sharps, cut (Pianoforte), XIX, b 76, a 77
Shasha river (Transvaal), XXIII, b 549, a 550
Shasta, Mount (America), I, b 595; (California), IV, a 619, a b 620; (United States), XXIII, *a* 851
Shasu tribes (Amalekites), I, a 573
Shat river (Don), VII, b 308
Shatranj, game (Chess), V, b 519, a *b* 520, *b* 521, *a* 522
Shattak, river (Tigris), XXIII, a 413
Shattu'l-Arab river (Bussorah), IV, a 514; (Tigris), XXIII, a 413
Shaving, classical (Costume), VI, b 402, a 404; religious (Tibet), XXIII, b 365
Shaw, Christian, inventress (Paisley), XVIII, b 145
——, Sir Edmund, lord mayor (London), XIV, a 856
——, George, naturalist (Kangaroo), XIII, a 848; (Kiwi), XIV, b 106, a 107; (Ornithology), XVIII, b 10 note, a 11 note, a 20; (Platypus), XIX, a b 225
——, Henry, philanthropist, *b.* 1800, *d.* 1889 (St. Louis), XXI, *b* 193
SHAW, Henry William, humorist, XXI, b 321
——, John, naturalist (Parr), XVIII, a 326; (Pisciculture), XIX, a 137; (Salmonidæ), XXI, a 235
——, Philander (Air-Engine), I, a 380
——, Quintyne, poet (Scotland), XXI, b 566, note
—— and Stephen's *Zoology* (Ornithology), XVIII, b 17
Shawangunk mountains (America), I, a 596; (New York), XVII, b 462; (United States), XXIII, a 843
Shawenegan falls (Quebec), XX, b 171
Sháwir, vizir (Egypt), VII, b 652–3
SHAWL, fabric, XXI, b 817–8; (Kashmir), XIV, b 13, a 14; (Kirmân), a 102; (Persia), XVIII, a 637
Shawm, instrument of music (Oboe), XVII, a 727
Shawmut, peninsula (Boston, United States), IV, b 64
Shawnees, tribes (Indians), XII, b 872
SHAYS, Daniel, rebel, XXI, b 921–2; his rebellion (Prescott), XIX, a 926; (Protection), b 938
Shea butter (Oils), XVII, b 765, a 768; (Sokoto), XXII, b 261
Sheafer, Peter W., engineer (United States), XXIII, a 865
Shear or shearing in mechanics (Bridges) (Ill.), IV, a 255–6, a b 258; (Elasticity), VII, b 698, a 699, b 703; (Joints), XIII, a b 742, a *b* 743; definition of (Mechanics), XV, b 701; stress (Strength of Materials), XXII, a *b* 624, a 625, b 632; diagrams of (Strength of Materials) (Ill.), a b 636
—— in Projection, XIX, b 818
Shearing Machines, XV, a 158
—— sheep (Agriculture), I, b 351, b 353; (Wool), XXIV, b 690
Shears (Iron) (Ill.), XIII, b 338–9; bottle (Glass), X, a 593; metal cutting (Hand Tools) (Ill.), XI, b 392–3
—— in Seamanship, XXI, b 634
Shear steel (Iron), XIII, a 349
SHEARWATER, bird, XXI, a b 818; (Puffin), XX, b 107; (Skimmer), XXII, a 128 note
SHEATHBILL, bird, XXI, b 818–9
Sheath-Fish (Siluridæ), XXII, b 75
Sheathing (Shipbuilding) (Ill.), XXI, b 857–8
Sheaves (Block Machinery), III, a 725; (Mechanics), XV, b 772–3
Sheavwits plateau (United States), XXIII, *b* 849
Sheba, town (Phœnicia), XVIII, a 818
—— or Saba, people of (Yemen), XXIV, *b* 775. See Sabæans
——, queen of (Abyssinia), I, a 64; (Áchín), a 91; (Arabia), II, a 212, a 224; (Yemen), XXIV, a 776
Shebbeare, John, physician (Camden), IV, a 650
Shebbel, fish (Morocco), XVI, a 860
SHEBOYGAN, Wisconsin, town, XXI, b 819
SHECHEM, city, XXI, b 819–20; (Abimelech), I, a 51; (Almond), b 523; (Israel), XIII, *a* 411, a 412; valley (Gerizim), X, b 399
Shedding, movement (Weaving), XXIV, *b* 490, a *b* 491, a b 492
Shediac, town (New Brunswick), XVII, b 383, b 384
SHEE, Sir Martin Archer, painter, XXI, a b 820
Sheelin, lough (Westmeath), XXIV, b 540
Sheemoga, district. See SHIMOGA
SHEEP, mammal (Ill.), XXI, b 820–2; (Acclimatization), I, a b 82; (Afghânistân), b 209–10; (Agriculture) (Ill.), b 263, b 265, a b 266, *a* 270, b 276, b 313, b 330–2, a 335, b 347–54; (Arabia), II, a b 211; (Argentine Republic), b 434, b 435–6; (Austria), III, a 104; (Breeds), IV, b 220, *a* b 221, a 222, a *b* 223, a 224–5; (Buenos Ayres), a 394; (California), a 635; (Cape Colony), V, a 40; (Cumberland), VI, a 617; (Dorset), VII, a b 321–2; (Dumfries), a b 455; (Durham), a 484; (Germany), X, a 406; (Gloucester), a b 614; (Hampshire), XI, a 385; (Hereford), a 653; (Hibernation), a 704; (Huntingdon), XII, b 413; (Iceland), a b 653; (India), b 780; (Inverness), XIII, b 205, a 206; (Ireland), 230–2; (Irrigation), b 378; (Italy), b 461; (Japan), a 585; (Kent county), XIV, a 40; (London), b 837, a b 838; (Luther), XV, a b 77
—— (Nestor, bird), XVII, b 363–4; (New Mexico), a 411; (New South Wales), a 420, b 422; (New Zealand), a 483; (Northumberland), a b 581; (Orkneys), b 871; (Prussia), XX, *b* 18; (Queensland), a 180; (Saxony), XXI, a 373; (Scotland), a b 556; (Spain), XXII, *a* 315, a 348; (Turkestan), XXIII, b 675, a 676, a 677; (Wool), XXIV, b 688–90; (York), a 785; diminutive (Montgomery), XVI, a 815; diseases of (Veterinary Science), XXIV, b 214, b 221; down and forest breeds (Agriculture), I, a 384; lowland (Agriculture), b 349–51; mountain (Agriculture), b 348, b 351, b 353. See Shearing; smearing of (Tar), XXIII, a 63; liver rot in (Trematoda) (Ill.), b 569, b 572, a 573; parasites of (Jackdaw), XIII, b 542, (Snail), XXII, a 198; (Veterinary Science), XXIV, b 222–3; staggers (Tape-Worm), XXIII, a 58; tick (Insects), XIII, a 157; washing (Wool), XXIV, b 690; Zodiacal sign, b 831
—— Dog (Ill.), VII, a b 283
Sheep-shank hitch (Seamanship) (Ill.), XXI, *b* 621
SHEEPSHEAD, fish (Ill.), XXI, b 821–2; (Ichthyology), XII, a 727
Sheep-skin (Leather), XIV, b 380–1, a 389, *b* 390, a *b* 391
—— stinger (Snakes), XXII, a 208
—— Tallow, XXIII, b 39–40
—— -walks (Agriculture), I, a 336
Sheerkooh, Asad ed Deen, vizir (Egypt), VII, b 652, a 653
SHEERNESS-ON-SEA, watering place, XXI, a 822; Dockyard, VII, b 269, *b* 271–2, 275
Sheet Anchor (Ill.), II, a 7, a b 9
—— bend (Seamanship), XXI, a 619
—— discharges (Hydromechanics), XII, b 485–6
—— glass (Glass) (Ill.), X, a 588–90
—— -lightning (Thunderstorm), XXIII, a 351
—— -piles (Coffer-Dam), VI, a 105
—— -rolling (Brass), IV, a 196
Sheets of igneous rock (Geology) (Ill.), X, a 275–6
Sheet Tin, XXIII, b 428
SHEFFIELD, city (Plan), XXI, a 822–4; (Cutlery), VI, a 647, *a* 648; (File), IX, b 140; (York), XXIV, b 784, *a* 786; castle of (Talbot), XXIII, a 31
Sheffield, John. See BUCKINGHAMSHIRE, Duke of
——, John Baker Holroyd, earl of (Gibbon), X, b 513, a 517, a 518, a 520; (Ireland), XIII, a 238
—— Scientific School, Yale (Silliman), XXII, b 73
Sheger-ed-Durr, sultaness (Egypt), VII, a b 655
Sheibani dynasty (Bokhara), IV, b 4; (Mongols), XVI, b 775
Sheikh-al-Jebal. See Old Man of the Mountains
Sheikhís, sect (Shi'ites), XXII, a 700
Sheikhu 'l-Islám, prelate (Shi'ites), XXII, a 699; (Sunnites), a b 696; authority of (Turkey), XXIII, a 696
Sheiks, chiefs (Druses), VII, a b 419
Sheil, Lady, wife of Sir Justin Sheil, envoy (Persia), XVIII, b 657 note, a b 663, note, b 665
SHEIL, Richard Lalor, dramatist, XXI, b 824–5
Shekakis, tribe (Turks), XXIII, a 703
SHEKEL, coin, XXI, a 825; (Numismatics), XVII, b 667, *a* 668; (Weights and Measures), XXIV, b 509, *a* *b* 514, a 515, a b 516; Greek (Numismatics), XVII, b 646
Sheki, khanate (Nukha), XVII, a b 628
She-king or *Book of Odes* (China), V, a 577–8
Sheksna, river (Rybinsk), XXI, *a* 125; (Yaroslavl), XXIV, a b 767
Shelburne, William Petty, Earl of, Marquis of Lansdowne, statesman (Burke), IV, b 483, b 486; (Fox, C. J.), IX, a b 438; (George III.), X, a *b* 382; (Lansdowne), XIV, a 290; (Mirabeau), XVI, a b 517; (Pitt), XIX, a b 146, *a* *b* 147; (Priestley), a 751; (Watson), XXIV, a b 433
SHELBY, Isaac, soldier, XXI, a 922
Sheldon, Gilbert, archbishop (Convocation), VI, *a* 291
——, John (Anatomy), I, a 715
SHELDRAKE, Sheld-drake or Shield-drake, bird, XXI, a 825–6; (Duck), VII, b 437
Sheliaeh, officer (Christianity), V, a 607
Shell (Brachiopoda) (Ill.), IV, b 171–2; (Button), b 532, note; (Cameo), *a* 654; (Cockle), VI, b 91, a 92; (Crustacea), b 558, note; (Egg), VII, a 604; (Foraminifera), IX, *b* 325, a b 326; (Histology), XII, a 6, a 8, a 10; (Mollusca), XVI, a b 658, b 661, a 677, a 697; (Mother of Pearl), XVII, b 7; (Protozoa), XIX, a 856; Anisopleura (Cuttle-Fish) (Ill.), VI, a 652; (Mollusca), XVI, a 667, a 710, a 713; Bulla (Mollusca), b 683; of Cavolinia (Mollusca) (Ill.), a 691; of Cephalopoda (Mollusca), b 689, a b 697; coiled (Mollusca), a 697; of Dibranchiata (Mollusca), a b 697; of Echinidea (Echinodermata) (Ill.), VII, b 544–5; gland in Trematoda, XXIII, a *b* 571; land

Shell, *continued*
  (Distribution), VII, a *b* 238; marine decomposition (Pacific Ocean), XVIII, b 128–9; of Nautilus (Mollusca), XVI, a 696, b 697; of Pulmonata (Mollusca), b 686; sac (Mollusca), b 661, a 677, b 686; of Siphonopoda (Mollusca), a 692; of Tetrabranchiata (Mollusca), b 693. See Tortoise-shell; tubular (Mollusca), a 688; valves (Mollusca), b 721
Shellbarks, nuts (Hickory), XI, a 706
Shell, electrotype (Typography), XXIII, *b* 749
—— deposits (Sweden), XXII, *b* 778
——, spherical (Mensuration), XVI, b 30
Shelley, George E., naturalist (Sun-Bird), XXII, a b 686
——, Sir Bysshe, ancestor, XXI, a b 826, b 828
SHELLEY, Mary Wöllstonecraft, novelist, XXI, a 826, a *b* 828, a b 829, a 831; (Godwin), X, a *b* 640
SHELLEY, Percy Bysshe, poet, XXI, a 826–31
  biographical authorities, a 831
  Byron, associations with, b 828, a b 829
  character of, a 830
  death of, b 829–30
  Godwins, opening relations with the, a b 828
  Italy, final residence in, a b 829
  legal settlements of, b 828, a 829
  Oxford, experience at, b 826–7
  parentage and schooling, a b 826
  poetical genius, qualities of his, a b 830
  suicides in family, b 828–9
  Westbrook, life with Harriet, a 827–9
  writings of, b 830–1
  Sir Percy Florence, baronet, a 829
  Sir Timothy, ancestor, *a* b 826, a *b* 827, b 828
—— (Brown, C. B.), IV, b 345; (Calderon de la Barca), b 585, a 587; (English Literature), VIII, b 385, a 386, a 387; (Fine Arts), IX, a 170; (Homer), XII, a 124 note; (Hunt), *b* 398, *a* 399; (Marlowe), XV, a 565; (Poetry), XIX, a b 280; (Rook), XX, a 865 note; (Smith), XXII, b 183; monument to (Christ Church), V, b 597
Shelley's case, rule in (Law), XIV, *b* 358; (Remainder), XX, b 384
Shell-heaps (Anthropology), II, a b 103
Shellif river (Algeria), I, b 496
Shell Lac, XIV, b 182
Shells, projectiles (Ammunition), I, b 652–3; (Fortification), IX, a 408, b 410; (Gunnery), XI, *a b* 271, 275
——, Magnetic, XV, b 233–4
——, puzzle of the two hollow (Mechanics), XV, b 742
Shell-sand (Geology), X, b 213
Shelomoh Ben Abraham, rabbi (Rashba), XX, b 295–6
—— ibn Gebirol. See AVICEBRON
——, Loria, Rabbenu (Reshal), XX, a 487
—— Yishaki, Rabbenu (Rashi), XX, a 296–8
Shelon river (Pskoff), XX, b 40
Shelter Tent, XXIII, a 200
—— trenches (Fortification) (Ill.), IX, *b* 379
SHELTON, Frederic William, clergyman, XXI, a 922
——, Thomas, translator (Cervantes), V, b 309
Shelton's system (Shorthand), XXI, a 876
Shelves (Libraries), XIV, a 537
—— (Shipbuilding), XXI, a 857
Shem, patriarch (Melchizedek), XV, a 848; (Noah), XVII, *b* 536; (Sanaa), XXI, a 266
Shema' (Mishnah), XVI, b 526
SHEMAHA or Shemakha, town and district, XXI, a b 831; (Transcaucasia), XXIII, b 546, b 547
Shemaryah, rabbi (Talmud), XXIII, b 43
Shems Addaula, emir (Avicenna), III, *b* 133
Shems al Maâli Kabûs, poet (Avicenna), III, b 133
Shemuel, physician (Talmud), XXIII, b 40 note
—— Ben Meir, Rabbenu. See RASHBAM
SHENANDOAH, town and river, XXI, b 831
——, British pirate ship (Waddell), XXIV, b 878
—— valley (United States), XXIII, *a* 845; campaigns in (United States), b 825–6, a b 828; (Jackson, T. J.), XIII, b 544
Shendamangalam, town (Salem), XXI, b 220
SHENDY, town, XXI, b 831
Shene, monastery of (Abbey), I, a 27
Sheng-li, race (Hainan), XI, *b* 335
Shen-se, province (China), V, *a* 548, a 550, a b 554, a *b* 559, *b* 561, *b* 563, a 564; (Opium), XVII, a 814
Shen-sen, kingdom (China), V, a 560
Shenshais, sect (Parsis), XVIII, a 332
SHENSTONE, William, poet, XXI, b 831–2
SHEPARD, Charles Upham, physicist, XXII, a 903
Shepheardella (Protozoa) (Ill.), XIX, a *b* 868
Shepherd, Alexander R., governor (Washington), XXIV, b 405
——, Thomas, non-conformist (Hymns), XII, b 627
Shepherd kings (Egypt), VII, b 637–8, b 641
Shepherd of Hermas (Apocalyptic Literature), II, a 158; (Apostolic Fathers), b 171, a 173; (Canon), V, b 8, *a* b 9; (Gospels), X, a 725, a 730; (Greece), XI, a 132
Shepherd's Calendar, Spenser's (Aylmer), III, a 141; (Pastoral), XVIII, a b 351, a 352; (Spenser), XXII, a b 408
——, Hogg's, XII, b 53
Shepherd's purse or Capsella (Botany) (Ill.), IV, b 138
Shepherd's Week, poem (Gay), X, b 170
Sheppey, island (Dockyards), VII, b 271; (Kent county), XIV, *b* 38
SHEPTON MALLET, town, XXI, a 832; (Somerset), XXII, *b* 271, a b 272
Shera, range. See Seir
Sher Ali Khan (Afghânistân), I, a 216; (India), XII, a 851
Sherard, William, botanist (Dillen), VII, b 209
Sheráwatí river (Bombay), IV, b 20
SHERBORNE, town, XXI, a b 832; (Dorset), VII, *b* 320, a 321, a *b* 322
—— *Missal* (Miniature), XVI, b 458
Sherbro, island (Sierra Leone), XXII, b 49, a 50
—— Dictionary, VII, b 167
Sherburne, town (Nantucket), XVII, a 181
Shere, allowance in coinage (Mint), XVI, b 504, note
Shere dil Khan (Baluchistan), III, a 260
Shereef or sherif, title (Arabia), II, a 217; (Mecca), XV, b 678, a 679
Sheribon, town. See CHERIBON
Sheridan, mountain (Yellowstone Park), XXIV, *b* 773
SHERIDAN, Frances, novelist, XXI, *b* 833, a 837
——, Philip Henry, general, *b.* 1831, *d.* 1888 (United States), XXIII, a b 828; (War), XXIV, a 371
SHERIDAN, Richard Brinsley Butler, statesman, XXI, b 833–7
  Bath days, b 834
  last days, b 836–7
  memoirs, a 837
  paternal training, a b 834
  parliamentary career, b 835–6
  school days, b 833–4
  theatrical life, London, b 834–5
—— (Burke), IV, a *b* 487, a b 489; (Drama), VII, b 378; (Duel), a 444; (English Literature), VIII, b 377, a 382; (Garrick), X, a 76; (Ireland, William Henry), XIII, a 279; (Phrenology), XVIII, a 860; (Pitt), XIX, b 147; *Life of* (Moore), XVI, a 834
SHERIDAN, Thomas, actor, XXI, a b 833, a 834
SHERIDAN, Thomas, clerical wit, XXI, b 832–3
SHERIFF, official, XXI, a 837–8; (County), VI, b 455; (England), VIII, b 268; (London), XIV, *a* b 828; (Writ), XXIV, a 729, a *b* 731, *b* 732
——, *Inquest of*, ordinance (England), VIII, b 276
——, Laurence, merchant (Rugby), XXI, b 61, a 62
—— -depute, jurisdiction of (Sheriff), XXI, b 837–8
Sheriffdoms, rise of (Scotland), XXI, a 505, b 506, a 507
Sheriffmuir battle, 1715 (Dunblane), VII, b 460; (Perth), XVIII, a 680
Sherif Ishak ben Ahmad, chief (Somali), XXII, b 269
Sheringham inlet (Ventilation) (Ill.), XXIV, a 173
SHERLOCK, Thomas, bishop, XXI, b 838; (Broughton, T.), IV, b 343
SHERLOCK, William, dean, XXI, *b* 838; (Alsop), I, a 561; (South), XXII, b 295
SHERMAN, Texas, town, XXI, b 838
SHERMAN, John, divine, XXI, b 922
SHERMAN, Roger, statesman, XXI, b 922; (United States), XXIII, b 790, a 796, note
SHERMAN, Roger Minot, judge, XXI, b 922
SHERMAN, Sidney, manufacturer, XXI, b 922
SHERMAN, Thomas William, general, XXI, b 922–3
——, William Tecumseh, general (Charleston), V, b 371; (Georgia), X, a b 394; (Grant), XXIII, *a* b 838; (United States), a 825, a b 827, a b 828; (Lincoln), XIV, b 668
——puddling process (Iron), XIII, a 329
Sherpur, town (Bográ), III, a 747
Sherring, orientalist (Benares), III, a b 479
Sherry wine (Adulteration), I, b 157; (Jerez de la Frontera), XIII, a 640; (Spain), XXII, *a* 314, a b 317; (Wine), XXIV, b 635, *b* 639
Sher sháh, ruler (Gaur), X, b 101; (India), XII, b 833, b 834
'S Hertogenbosch, town. See BOIS LE DUC
SHERWIN, John Keyse, engraver, XXI, b 838–9
Sherwin's tables (Logarithms), XIV, b 782
Sherwood forest (Nottingham), XVII, a *b* 612, a 614
Sheshbazzar, governor (Haggai), XI, b 331–2
Sheshonk, king. See Shishak
She Stoops to Conquer, play (Goldsmith), X, a 679
SHETLAND AND ORKNEY, county (Map), XVII, a 870–4
—— islands (Climate), VI, a b 7; (Fisheries), IX, *a* 229; (Flour), a 301; (Harbors and Docks), XI, b 407, a 408, b 409; (Primogeniture), XIX, a 753; (Scotland), XXI, b 549, a 551, b 552; (Skua), XXII, a 133, note; (Thule), XXIII, b 349; (Whirlpool), XXIV, b 571, a 572; breakers on the (Geology), X, *b* 253, a 254; cattle (Agriculture), I, b 345; Wool, XXIV, *a* 690

Shevagunga, town. See SIVAGANGA
Shevaroys, hills (Madras), XV, b 185; (Salem), XXI, *b* 220
Shevchenka, Taras, poet (Russia), XXI, a b 118
Shewá, plateau (Badakhshan), III, b 192
Sheykh, official (Arabia), II, b 215, a b 217
—— 'Abd-el-Kurneh, hill (Egypt), VII, b 677
Sheykh el-Beled, officer (Egypt), VII, b 658
Sheykhi of Kermiyán, poet (Turkey), XXIII, a 698
Sheykh-Záda, chronicler (Turkey), XXIII, a 698
Shiabden, monastery (Tibet), XXIII, b 363
Shiahs, sect. See Shi'ites
Shiang-chu, river (Tibet), XXIII, b 361
Shiant, isles (Scotland), XXI, a 550
Shibboleth (Hieroglyphics), XI, a 714
Shible, god (Circassia), V, b 688
Shibrghan or Sapurgan, province (Afghânistân), I, b 216, a 217, a 218
Shibr Pass (Hindú Kúsh), XI, b 748
Shichi-to islands (Lew-chew Islands), XIV, a 489
Shield (Arms and Armor), II, *b* 485, *a* b 486, *a* b 487; (Heraldry) (Ill.), XI, b 610, b 616, a b 617, a 621; on coins (Numismatics), XVII, a 673; mediæval (Ireland), XIII, b 263
——, curved-front in Fortifications, IX, a 400
SHIELD, William, composer, XXI, a 839
Shield-budding (Horticulture) (Ill.), XII, a b 243
Shield of Achilles (Archæology), II, a b 303, b 313
—— *of Heracles* (Greece), XI, b 123
—— *of Scipio* (Plate), XIX, b 192
Shields of Reptiles, XX, b 458
SHIELDS, South, town, XXI, b 839; North and South, ports (New Castle), XVII, a *b* 388
Shielings, dwellings (Heath), XI, a 527
Shifting body, acceleration and retardation of (Mechanics), XV, a b 779; motions, a 762, b 763-4
—— use (Trust), XXIII, a b 634
Shigatze, city (Tibet), XXIII, *b* 361, a 362, b 363, *a b* 364
Shighnán, state (Oxus), XVIII, b 107
Shihābuddin of Ghor, sultan (Hindustani Literature), XI, b 753
SHI'ITES or Shiahs, sect, XXII, a 694, a 697, a 698, a 700; (Ali), I, b 504; (Arabia), II, a 226; (Assassins), b 631; (Dervish), VII, b 98; (Druses), a 418; (Hafiz), XI, *b* 328, *a* 329; (Hasan and Husein), *b* 454; (Herat), b 638; (Imam), XII, a 753; (Meshed), XVI, a 51, note; (Meshed Ali), b 51; (Mesopotamia), b 56-7; (Mohammedanism), a b 591, b 592, b 607, a 615; (Persia), XVIII, b 652, a 653, b 657; (Tartars), XXIII, b 76; (Turkey), a 684; sanctuaries of (Pilgrimage), XIX, a 102
Shikáb-uddin 'Umar Suhrawardí, sheikh (Sa'di), XXI, b 150
SHIKARPUR, district, XXI, b 839-40
SHIKARPUR, town, XXI, *a* 840; (Bulandshahr), IV, b 461
Shi King, poems (Confucius), VI, b 233
Shikoku, island (Japan), XIII, a 578, b 579, *b* 580, *b* 583, b 584, a 586
Shilka, river (Amoor), I, b 654; (Siberia), XXII, *a* b 9, a 10, *a* b 15; (Transbaikalia), XXIII, *a* b 542, *a* 543
Shilling, coin (Adulteration), I, a 160; (Numismatics), XVII, a 673
Shillong, station (Khasi Hills), XIV, a *b* 60
SHILOH, sanctuary, XXI, a 840; (Ark of the Covenant), II, a 473; (Israel), XIII, b 410, b 412; (Judah), b 770, note; (Priest), XIX, *a b* 747
——, battle of. See Pittsburg Landing
Shim'eon, rabbi (Midrash), XVI, b 299
—— ben El'azar, rabbi (Rashba), XX, b 295
—— ben Yohai, rabbi (Midrash), XVI, b 298
Shimidzu, port (Japan), XIII, b 580
Shimiyu, river (Nile), XVII, a 518
Shimoda, port (Japan), XIII, b 580, b 583
SHIMOGA or Sheemoga, district and town, XXI, a b 840
Shimonoséki, attack on (Japan), XIII, a 580
Shimoso, province (Japan), XIII, a 579, b 581, a 584, *a* 585
Shimshon ben Abraham, Rabbenu, Talmudist (Rashba), XX, b 292
Shin, caste (Gilgit), X, a b 534
——, loch and river (Sutherland), XXII, *a* 764
Shina language (Gilgit), X, b 533
Shinano, table-land (Japan), XIII, b 580
Shinano-gawa, river (Japan), XIII, b 581, a 587
Shinar or Sumir, district (Mesopotamia), XVI, b 55; tetrapolis (Babylonia), III, b 159
Shinas, race (China), V, b 544
Shinásí Efendi, poet (Turkey), XXIII, b 699
Shin bone (Anatomy), I, b 727
Shing-Chow, city. See NANKING
—— -king, province (China), V, a b 557
—— -tsong in Weights and Measures, XXIV, a 518
Shingle (Architecture), II, b 416; (Manistee), XV, b 497; (Tiles), XXIII, a 415
—— formation (Patagonia), XVIII, b 357
—— mills (Saws), XXI, a b 361
Shingles, disease (Neuralgia), XVII, b 373; (Skin Diseases), XXII, a 131
Shingling malleable Iron, XIII, a b 336
Shing-yang, city. See MOUKDEN
Shintô, religion (Japan), XIII, a b 590, a 597, note; (Pilgrimage), XIX, a b 101; (Religions), XX, a 376
Ship-biscuit (Baking) (Ill.), III, b 217
SHIPBUILDING (Ill.), XXI, a 845-64
  armor, problems of, a 860-1
  art, transition to science from, b 845-6
  bilge-keels, stability, from, b 850-1
  boatbuilding, a b 864
  bulkheads, a 853-5
  constructing hulls, methods of, b 856-8
  cost, construction, b 859-60
  curves of strains (Ill.), a 856
  defective bulkheads, b 854-5
  designing, b 856
  dynamical stability, b 852
  efficiency problems, propulsive, a 863, a 864
  engines, economy in, b 862-3
  fluid resistance, admiralty experiments in, b 846-9
  Institution of Naval Architects, recommendations of, b 853-4
  launching, b 858-9
  materials and cost, distribution of, table, 860
  merchant ships, changes needed, a 860
  models, experimental resistance, a b 847
  oscillations, a b 850
  propellers, a b 862, a 863-4
  sail propulsion, a 861-2
  steamers, epoch-marking, b 352-3
  slop work, a b 859
  stability (Ill.), a 849-50
  steam propulsion, a 862-4
  strains to be encountered, a 855-6
  stream lines, b 848-9
  surveys, Board of Trade, a b 854
  war ships, characteristics of, b 859-61
  water-chamber stability (Ill.), a 851-2
  wave-making resistance (Ill.), b 847-8
—— (Dumbarton), VII, b 453; (England), VIII, a 214; (Glasgow), X, a 571, *a* b 576; (Greenheart), XI, a 148; (Greenock), a b 154; (Italy), XIII, a 467; (Jarrah Wood), a 604; (Larch), XIV, a b 312; (Maine), XV, a b 303; (Massachusetts), b 619; (New Brunswick), XVII, b 383; (New York), a 469; (Nikolaieff), b 516-7; (Scotland), XXI, a 559; (Seyne), b 762; (Sunderland), XXII, a 692; (Teak), XXIII, a 111; (Washington), XXIV, b 407-8; early colonial (United States), XXIII, a *b* 780; wave system (Russell, J. S.), XXI, b 72
Ship Canals (Plate XXXVI) (Ill.), IV, a 695-701; (Holland), XII, a 66. See Canals, Interoceanic
—— Harbor, lake (Nova Scotia), XVII, b 616
—— Island (Mississippi), XVI, a 545, a 547
SHIPLEY, town, XXI, a b 864
——, William, painter (Societies), XXII, b 233
——, William Davies, dean, defence of (Erskine), VIII, a 469
Ship-money, tax (Bristol), IV, a 316; (Finance), IX, a b 157; (Hampden), XI, a 383
Ship nails (Copper), VI, b 311
Ship of Fooles (Barclay), III, a 318
—— *of Fools* (Brandt), IV, b 194; (Germany), X, a 472
—— of Hiero, Syracuse (Archæology), II, a 321
—— on shore (Seamanship), XXI, a b 631
Shipowners, responsibilities of (Charter-Party), V, a 375
Shippen, William, physician, *b.* 1734, *d.* 1808 (Surgery), XXII, b 711
SHIPPING, XXI, b 864-7
  ancient Britain, b 864-5
  commercial policy, English, b 866-7
  companies, period of great, b 865-6
  comparative view of, b 867
  eighteenth century growth, a 867
  free-trade, effects of, a b 867
  mediæval British, a b 865
  navy, method of originating, a 866
  revenue, method of raising war, b 866-7
—— (Colbert), VI, b 111; (Commerce), a b 182; (Consul), b 281; (England), VIII, b 213-4; (Germany), X, a 414-5; (Hamburg), XI, *b* 363-4; (Ireland), XIII, b 238, a 240, b 273, a 274; (Liverpool), XIV, b 721; (Lloyd's), b 747-8; (London), b 839-40; (Papyrus), XVIII, b 235; (Russia), XXI, b 95; (Scotland), b 558; (Spain), XXII, b 317; American (Protection), XIX, a 940; (United States), XXIII, a b 881; infection through (Plague), XIX, a 173, b 175, b 176; protection of mercantile (War), XXIV, b 384-5
—— articles (Seamen), XXI, b 635-6; offices (Seamen), b 635, note

SHIPS, history of, XXI, b 840-5
  Egyptian, b 841-2
  framed ships, origin of, b 841
  Greek, b 842-4
  literature, b 845
  mediæval, a b 845
  Phœnician, a b 842
  primitive unframed forms of, b 840-1
  Roman, b 844-5
  trireme, a 843-4

—— (Anchor), II, a b 5; (Columbus), VI, b 154; (Dry-Rot), VII, a 426; (Registration), XX, a b 356; (Sword-Fish), XXII, a b 843, ancient, XXI, b 840-5; (Liburnians), XIV, a 554; base lines of (Surveying), XXII, b 750; British reserve (Dockyards), VII, a b 274; classes of (Tonnage), XXIII, b 470-2; overland transportation (Garda), X, b 68; resistance of (Hydromechanics), XII, a 454, a 548-9; sailing (Flight), IX, b 269; (Seamanship) (Ill.), XXI, a 617-22, a 623, b 625, a 627-31; Stability of, a 849-50; (Hydromechanics), XII, a b 460, note; tracks of (Navigation), XVII, a b 283, b 284
Ship's block (Block Machinery), III, b 724; master (Bottomry), IV, a *b* 153; papers (Shipbuilding), XXI, b 853; reckoning (Navigation), XVII, b 270
Ship worms (Teredo), XXIII, a 201-2
Shipwrecks, (Wreck), XXIV, a 722-3; (Salvage), XXI, b 249-50; (Lifeboat), XIV, b 573-4, a b 575, a 576; United States (Lifeboat), b 576
Shipwreck, poem (Falconer), IX, a b 6
Shipwrecks, tale (Nuñez), XVII, a 681
Shirabad, town (Hissar), XII, a b 5
Shiravati, river (Shimoga), XXI, a b 840
SHIRAZ, city, XXI, b 867-8; (Persia), XVIII, b 633, a 638, a 639; (Tobacco), XXIII, b 451; (Wine), XXIV, b 644
Shire, river (Africa), I, b 221, *b* 228; (Livingstone), XIV, *b* 727; (Zambesi), XXIV, *a* b 804
——, county (England), VIII, a 247; rise of (Lothian), XV, b 12
Shire-gemót (Parliament), XVIII, b 308
Shireoaks colliery (Coal), VI, a 66, a 71
Shirín, Khosrau II.'s wife (Persia), XVIII, a b 625
Shirkhist, gum (Manna), XV, b 500
Shirkot, town (Bijnaur), III, a b 579
SHIRLEY, town, XXI, b 868
SHIRLEY, James, dramatist, XXI, b 868-9; (Beaumont and Fletcher), III, *b* 409; (Drama), VII, b 373, *a* b 374, note
——, Sir Robert, English envoy (Persia), XVIII, a b 649
——, Sir Thomas, governor, XXI, a 923
SHIRLEY, William, governor, XXI, a 923
Shirley, novel (Bronte), IV, *b* 329
Shir Singh, prince (Punjab), XX, *a* 118
Shirván, khanate (Shemaha), XXI, *a b* 831
Shirwa, lake (Africa), I, a 229; (Mozambique), XVII, *a* 14
Shishak, king (Egypt), VII, a 643, b 674; (Israel), XIII, b 416
Shi-tao-'an, traveller (Hwen T'sang), XII, a 434
Shithil, æon (Mandæans), XV, *a* 476
Shittim-wood (Acacia), I, a 67
Shiva-Kúl, lake (Oxus), XVIII, b 107
SHIVE-GYENG, district, river and town, XXI, a b 889
Shiz, ruin (Zoroaster), XXIV, a 860
Shi-ya-ku-Do, alloy (Gold), X, a 668
Shizoku, class (Japan), XIII, a 589, b 594
Shoa, province (Abyssinia), I, *b* 63, a 64, a 65, a 66
"Shoading," tracking ore (Mining), XVI, a 462
Shoals, effects on waves (Harbors and Docks), XI, a 410
Shoaou-king, town (China), V, b 549
Shock or collapse (Surgery), XXII, a 715; death from (Pathology), XVIII, b 408
—— in Magnetism, XV, b 270
Shoddy, fraud (Adulteration), I, b 159; (England), VIII, a 211; (Italy), XIII, a 463; (Wool), XXIV, a 696, a 698
Shoder, package (Goldbeating), X, *b* 670
Shoe-bill, bird (Stork) (Ill.), XXII, a b 606
Shoe-bird (Heron), XI, a 681, note
Shoeburyness (Army), II, a 507, a 513
Shoemaker's Holiday (Dekker, T.), VII, *b* 34
SHOEMAKING (Ill.), XXI, a 869-70; (Bristol), IV, b 316; (Crispin), VI, b 522; (France), IX, a 460; (Haverhill), XI, b 470; (Lynn), XV, a 110; (Patents), XVIII, b 882
Shoen, Martin, artist. See SHONGAUER
Shoes (Costume), VI, *a* 402, a 403, a b 404, a b 412, a b 414, a 416, a *b* 417, a 418, *b* 419, *a* b 420, a b 421, a 422; pointed (Sumptuary Laws), XXII, a 678
SHOES, Horse, XXI, b 870-1; (Horse), XII, b 199; Nails for, XVII, b 172; poultice (Veterinary Science), XXIV, a b 218
——, Snow. See SNOW SHOES
Shôgun or tycoon, noble chief (Japan), XIII, b 588, *a* 589, a 591, *a* 592, *b* 593; (Tokio), XXIII, b 461, a 462
SHOLAPUR, district, XXI, a b 871; town, b 871
Shomer, mountains (Arabia), II, b 208, b 209, b 210, a 211, a b 212, b 215, *b* 217, a 219, b 220, *b* 221, a 227, *a* 229
Shômu, emperor (Japan), XIII, a 579, a 582
Shong-hon, sage (Tibet), XXIII, a 366
Shoo-king. See *Shu King*
SHOOTING, sporting, XXI, b 871-4
  ammunition, a b 874
  bird-hunting, b 873-4
  gaming, a 873-4
  gun, qualities required in, b 871
  handling weapon, b 872-3
  rabbit and deer hunting, a b 873
  rifle-shooting, b 874

—— (Sights) (Ill.), XXII, a 52-4; line (Fortification), IX, *b* 384; methods (War), XXIV, *a* 377
Shops of Pompeii (Architecture), II, a 368; (Pompeii), XIX, b 463-4
SHORE, Jane, mistress, XXI, b 874-5
——, Sir John, governor (India), XII, a 843
——, John, musician (Tuning-Fork), XXIII, a 659
—— crabs (Crustacea), VI, b 578-80
Shoreditch, district (London), XIV, a b 829, b 830, a 832, *a* b 842, a 858; theatres (Shakespeare), XXI, *b* 796
—— fishes (Ichthyology), XII, b 715, a 716-20
—— -lark, bird (Lark), XIV, a 317
Shors, lake beds (Transcaspian), XXIII, a 544
Short, James, optician (Telescope), XXIII, a 149
Short and Easy Method with Deists (Leslie, C.), XIV, *a* b 476
Shortening sail (Seamanship), XXI, b 629-30
Shorter, Catherine, ancestress (Walpole), XXIV, *a* b 354, b 357
SHORTHAND, Stenography Tachygraphy, XXI, a 875-81
  alphabet systems, b 875-7
  American systems, a 880
  European systems, Continental, b 880-1
  phonography, origin of, a b 877
  Pitman's system, b 877-9
  recent systems, b 879
  reporting, a b 880
  rise of obsolete systems, a b 875
  sources of information, b 881
  specimens of, a b 879
  Taylor's system, a 877

—— (Cryptography), VI, b 593; (Palæography), XVIII, a b 168; type for the Blind, III, a 719
Short-horn cattle (Agriculture) (Ill.), I, b 343-4; (Cattle), V, a 214; (Ireland), XIII, b 231
Shortrede, Robert, mathematician (Tables), XXIII, *a* 15, b 16, a b 17, b 18; (Logarithms), XIV, a b 783, b 786
Shorts, grain (Agriculture), I, *b* 289
Short Sayings (Plutarch), XIX, b 246
Short-sight (Ophthalmology), XVII, a 807
Short splice (Seamanship) (Ill.), XXI, b 619
Short Treatise on God, on Man and his Wellbeing (Spinoza), XXII, a 416, note
Short Whist, game, XXIV, *b* 572
Shoshone Falls (United States), XXIII, a 849
—— Indians, XII, a b 865, *a* 873
—— lake (Yellowstone), XXIV, a b 773, *b* 774
SHOSHONG, town, XXI, b 881-2
Shot (Ammunition), I, a b 653; (Gunmaking), XI, b 248-9; (Gunnery), a 271-2; (Shooting), XXI, b 864. See Projectiles
Shotover Hill (Oxford), XVIII, b 96, a 97, a 98
Should a Man Engage in Politics when he is no longer young (Plutarch), XIX, a 247
Shoulder-blade (Divination), VII, b 254-5
—— -girdle (Anatomy) (Ill.), I, b 724-5, b 729, b 735; (Mammalia), XV, b 361
—— -joint (Anatomy), I, a 725, b 735; (Dislocation), VII, a 225
SHOVEL, Sir Cloudesley, admiral, XXI, a 882; (Peterborough), XVIII, a b 714
Shovelard or Shovelar. See SPOONBILL
SHOVELER, bird, XXI, a b 882; (Heraldry), XI, b 625
Shows, Agricultural, I, *b* 291-2
Shrapnel (Ammunition), I, *b* 652-3; (Artillery), II, a 576; (Gunnery), XI, a b 271, b 273
SHREVEPORT, Louisiana city, XXI, b 882-3
SHREW, mammal (Ill.), XXI, a 883-4; (Himalaya), XI, a 744; (Mammalia), XV, a 357, a 407; (Musk-Rat), XVII, a 116; (Zoology), XXIV, b 923
SHREWSBURY, town, XXI, a 884-5; (Coal), VI, b 48; (Shropshire), XXI, *a b* 887
——, earls of (Ireland), XIII, b 267, b 268; (Sheffield), XXI, b 823, b 824; (State Officers), XXII, a 476
——, Charles Talbot, duke of (Precedence), XIX, a 682 note; (Talbot), XXIII, *b* 31
——, Francis Talbot, 5th earl of (Talbot), XXIII, b 31
——, Francis Talbot, 10th earl of (Talbot), XXIII, b 31
——, George Talbot, 4th earl of (Talbot), XXIII, b 31

Shrewsbury, George Talbot, 6th earl of (Talbot), XXIII, b 31
——, James Talbot de Malahide, 18th earl of (Talbot), XXIII, a 32
——, John Talbot, earl of (England), VIII, b 288; (France), IX, a 485, a 486; (Ireland), XIII, a b 267; (Talbot), XXIII, a 31
——, John Talbot, 2d earl of (Talbot), XXIII, a b 31
——, Robert de Belesme, earl of (Bridgenorth), IV, b 253
——, Roger de Montgomèry, earl of (Ordericus), XVII, b 844
SHRIKE, bird, XXI, a 885–6; (Birds), III, a 641; (King-Bird), XIV, a b 83, note; (Thrush), XXIII, a 343 note
SHRIMP, crustacean, XXI, a b 886; (Crustacea), VI, a 570, b 582, b 585, a 587; (Fisheries), IX, b 231
Shrines (Architecture), II, b 416; (Baghdad), III, a 201; (Bede), a 416; (Japan), XIII, b 590; (Michel Angelo), XVI, a 238, a 239; (Mosque), a 893; (Penates), XVIII, b 499; (Siam), XXI, b 890; portable (Tabernacle), XXIII, a 10
Shrite, bird (Thrush), XXIII, a 343
SHROPSHIRE, county (Plate VIII), XXI, b 886–8; silurian region (Geology), X, a 298
—— sheep (Agriculture), I, a 348
Shroud knot (Seamanship) (Ill.), XXI, b 619–20
Shrouds (Seamanship), XXI, a 624
SHROVE-TUESDAY, XXI, a 888; (Foot-Ball), IX, *a* b 321; plays (Germany), X, a b 471, a 473.
Shrubs, deciduous (Horticulture), XII, b 268–9; defined (Botany), IV, a 85; flowering (Western Australia), XXIV, a 536; evergreen (Horticulture), XII, a 269
Shu, god (Egypt), VII, b 619, *a b* 620
Shubenacadie, river (Nova Scotia), XVII, *b* 616
Shubinski, editor (Russia), XXI, b 117
SHUBRICK, Edward Rutledge, captain, XXI, b 923
SHUBRICK, Irvine, commodore, XXI, b 923
SHUBRICK, John Templar, naval officer, XXI, b 923
SHUBRICK, Thomas, colonel, XXI, a b 923
SHUBRICK, William Branford, admiral, XXI, b 923
Shuckburgh hills (Warwick), XXIV, b 399
Shudi or Tschudi, Burckhard, manufacturer (Pianoforte), XIX, *b* 78, a 83
Shuga, mountains (Ṭibet), XXIII, a 363
Shuiski, Basil Ivanovich, czar (Russia), XXI, *a b* 103–4
Shuja, shah (Afghânistân), I, a *b* 215; (India), XII, a *b* 846
—— -ud-daulá, ruler (Oudh), XVIII, a 77
—— -uddín, nawab (Gaur), X, a 102
—— 'uddīn Nūrī, poet (Hindustani Literature), XI, b 756
Shu King, annals (Chemistry), V, b 397; (China), b 573–4; (Confucius), VI, b 233, a 234
Shula, plain (Honduras), XII, b 135
—— lake (Zaire), XXIV, b 801
Shu-li, race (Hainau), XI, *b* 335
Shuluh, tribe (Africa), I, a 234
Shumadia, district (Servia), XXI, a 719, a 720
SHUMLA, town, XXI, a 888
Shun, emperor (China), V, *b* 558
Shun-che, Ta-tsing emperor (China), V, a *b* 564, a 567
Shundar lake (Gilgit), X, b 532
Shun-gan Keang, river (China), V, a b 552
"Shunt" (Galvanometer), X, b 46
—— dynamos (Lighting), XIV, b 638
Shun-te, Mongol emperor (China), V, a 563
SHUSHA, town, XXI, a b 888
Shushan, city. See SUSA
Shuster Opium, XVII, *b* 813
Shute, John. See BARRINGTON
Shutters (Building), IV, a b 444
Shutter weir (River Engineering), XX, b 589–90
Shutting of the Great Council (Venice), XXIV, b 154, a 155
"Shuttle" (Horse), XII, b 187, b 188
Shuttles (Sewing-Machines), XXI, b 765–6, a 920; (Textiles), XXIII, a 224; (Weaving), XXIV, b 489, *b* 490, b 491, a 492, a 493
Shuwas, tribe (Bornu), IV, *b* 54
SHUYA, town, XXI, a 889
Shwegyen, river and town (Burmah, British), IV, a 500
Siâh-posh, tribe (Kâfiristân), XIII, b 830, *a* 831, a b 832
Siak river and district (Sumatra), XXII, b 671, a 672, a 673
Siál, family (Jhang), XIII, b 700–1
Sialidæ, group (Insects), XIII, a 158
SIALKOT, district, XXI, b 889; (Punjab), XX, b 112, a b 115, a 116; town, XXI, b 889 90
SIAM, kingdom (Plate IX), XXI, a 890–6
administrative features, b 891–2
bibliography, b 894, b 895, b 896
calendar, b 893
climate, b 890–1
education and arts, a 893
festivals, b 893
geography, descriptive, a b 890
history, b 893–4
language, a b 895
literature, b 895–6
minerals, b 890
natural history, a 891
SIMA, *continued*
population and customs, a b 892, b 893
religion, a b 893
towns, b 892–3
trade system, a b 891
—— (Cambodia), IV, *a b* 641, a 642; (Festivals), IX, *b* 103; (Forbin), b 345–6; (Forests), b 356; (Funeral Rites), a 725; (Mining), XVI, b 491; (Pâli), XVIII, a 187, a 188, b 189; (Weights and Measures), XXIV, b 518. See Shan
Siamang, species (Ape), II, a 132, b 139
Siam Benzoin, III, b 501
Siamese, race (Burmah), IV, b 496, *a* 497; (Cremation), VI, a 501; (Malay Peninsula), XV, *a* 325; exorcism (Demonology), VII, b 55; political system (Malay Peninsula), XV, a 325
—— twins (Monster), XVI, b 791–2
Sianti, country. See ASHANTEE
Sibákh, marshes (Tunis), XXIII, a 660
SIBBALD, Sir Robert, physician, XXII, a 5; (Ornithology), XVIII, b 8 note
Sibbern, Fredrik Christian, philosopher (Denmark), VII, b 81
SIBERIA, country (Plate I), XXII, a 5–18
administrative divisions, b 5–6, a b 16
agricultural industries, a b 14
area and name, a b 5
bibliography, b 17–8
chase, industries of the, b 14
climate, b 10–1
coasts and islands, a b 10
colonization, b 15
commercial industries, b 14–5
communications, a b 9, a b 15
education, a 16
exiles, b 15–6
fauna, a 12–3
flora, a 11–2
geology, a 8–9
history, b 16–7
indigenes, condition of, b 13–4
lakes, a 10
minerals, a 9
orography, a 6–8
plateaux, b 6, a b 8
population, a 13–4
rivers, a 9–10
towns, b 16
valleys, longitudinal, a b 7
—— (Asia), II, b 600, b 601, *a* 602; (Birds), III, b 655–6; (Forests), IX, b 356; (Funeral Rites), a 725; (Hansteen), XI, b 404; (Ivan IV.), XIII, b 529; (Ivory), a 532; (Mammoth), XV, a 454, *a* b 455; (Meteorology), XVI, b 133, a 140, b 143; (Prison Discipline), XIX, a b 782; (Totemism), XXIII, b 505; (Ural Mountains), XXIV, b 7, *b* 8; coast upheaval (Geology), X, a 228; conquest of (Russia), XXI, b 101; explorations in (Geography), X, b 170; (Pallas), XVIII, b 192, a 193; (Polar Regions), XIX, b 332; geology of, XXII, a 8–9; (Asia), II, b 601; (Polar Regions), XIX, a 341; inhabitants of, XXII, b 13–4; (Polar Regions), XIX, a 341; (Russia), XXI, *b* 74, b 75; organic life in (Asia), II, b 604, a 605, b 607; statistical features of (Russia), XXI, b 76, a 78, a b 89, b 90, a 92
Siberian boil, plague (Murrain), XVII, a 64
—— Jay, XIII, b 621–2
—— pole, magnetic (Meteorology) (Ill.), XVI, b 169, b 170, a b 171, a b 182
—— Polecat, XIX, b 344
—— Russian speech (Slavs), XXII, b 157
—— Tartars, XXIII, b 76
Sibilant (Hieroglyphics), XI, a 714; (S), XXI, a b 128–9
Sibella, Monte della (Italy), XIII, a 447
—— of Catalonia, queen of Aragon (Spain), XXII, a 338
Siboga, town (Sumatra), XXII, b 672
Síbpur, town (Howrah), XII, b 339
SIBSÁGAR or Seebsauger, district, XXII, a b 18; town, b 18
Sibt ibn al-Jauzí, historian (Tabarí), XXIII, b 8
SIBYL, myth, XXII, b 18–9
Sibylline Books (Apocalyptic Literature), II, a 156, a b 157; (Decemviri), VII, b 19; (Messiah), XVI, a 60; (Pessinus), XVIII, b 704; (Rutilius), XXI, a 122; (Sibyl), XXII, a b 19
—— cave (Cumæ), VI, a b 615
—— oracles (Antichrist), II, a 111; (Greece), XI, a 129
Sicambri, tribes (Franks), IX, *a b* 636, a 637; (Germany), X, a 425, b 426; (Salic Law), XXI, a 223, note
Sicani. See Sikans
Sicarii, assassins (Israel), XIII, a 437
Siccama, Abel, musician (Transverse Flute), XXIII b 554
Siccardi law (Italy), XIII, b 499
Sicca Veneria, colony (Keff), XIV, a 29
Sicels, race (Rome), XX, b 750; (Sicily), XXII, a *b* 20, a 21, *a* b 22, a *b* 23, a 25, b 26; (Syracuse), XXII, b 852, *a* b 853
Sic et Non, Abelard's (Scholasticism), XXI, a 443
Sicherheitswache (Police), XIX, b 356
Sicie, cape (Toulon), XXIII, a 514
Sicilian dialects, XXII, b 30–1; (Italy), XIII, a b 505, a b 510
—— expedition, XXII, b 22 3; (Alcibiades), I, b 414; (Greece), XI, *a* 92; (Hybla), XII, b 437
—— mediæval poetry (Italy), XIII, b 506, a b 510

Sicilian vespers (Bell), III, a 464; (Charles of Naples), V, b 366; (Michael VIII), XVI, b 235; (Sicily), XXII, a 33
SICILY, island (Plate II), XXII, a 19-36
  authorities, a 34, b 36
  GEOGRAPHY AND STATISTICS, a 34-6
    climate, a 35
    communications, b 36
    contour, b 34-5
    fauna, a 36
    flora, a b 35
    geographical position, a b 34
    geology, a 35
    industries, a 36
    political divisions, a b 36
  HISTORY, a 19-34
    Agathocles, period of, a 25-6
    Angevine period, b 32-3
    Athenian war, b 22-3
    Byzantine imperial period, a b 28
    Byzantine reconquest, b 29-30
    Carthaginian invasion, fifth century, B.C., a 23-5
    Dion and Timoleon, b 24-5
    Dionysian period, a 23-4
    geographical position, a 19-20
    Greek colonization period, b 20-2
    Hieron II., a 26-7
    Hohenstaufen period, a b 32
    linguistic elements, b 30-1
    modern history, b 33-4
    Norman period, a 30-1
    original inhabitants, a b 20
    Phœnician colonization, b 20
    political organization, Saracen, a 30
    Punic war, b 26
    Pyrrhos, a 26
    Roger I., dynasty of, a 31-2
    Roman period, a 27-8
    Saracen inroads, b 28-30
    Sikels and Sikans under Greek rule, a b 22
    slave revolts, Roman period, a b 27
    Spanish period, a b 33
    Teutonic invasions, a 28
    tyrannies, rise of, b 21-2
  kingdom, a 31-4
—— (Aqueduct), II, b 191; (Byng), IV, b 537; (Carthage), b 140, a b 141; (Crotona), VI, a 544; (Dion), VII, a 215; (Dorians), b 318; (Drama), a 350, a 352; (Ferdinand IV., Naples), IX, b 69; (Goethe), X, b 650; (Greece), XI, b 85-6, a 94; (Hamilcar Barca), a b 366; (Henry II., England), b 587, a 588; (Henry VI., Emperor), a b 596; (Hiero), a 708; (Hippopotamus), b 765; (Isaac II.), XIII, a 385; (Italy), b 468, b 469, a b 481, b 483, a 486, b 488, b 491, b 494, b 495, a b 498, b 500; (Malta), XV, a b 345; (Manna), a b 500; (Mediterranean Sea), *b* 829; (Messenia), XVI, a 58; (Messina), b 61; (Michael IV.), a 235; (Nævius), XVII, b 168-9; (Naples, b 198-9; (Normans), b 560, a b 561, a b 562, a b 563, a b 564-5; (Numismatics), b 650, a 654-6, a b 675; (Papyrus), XVIII, a 237; (Phœnicia), b 819, b 821; (Pyrrhus), XX, b 143; (Slavery), XXII, a b 141; (Spain), a b 337, a 339; (Sulphur), *b* 667, a 668; (Textiles) (Ill.), XXIII, b 226, a 227; (Verres), XXIV, b 189; (Wine), *b* 642-3; conquest of (Rome), XX, b 765-6, a 767, a b 768, a 769; Pyrrhic invasion of (Rome), a 763
Sickels, Frederick E., inventor (Steam-Engine), XXII, b 921
Sickening, of mercury (Gold), X, *b* 665
Sick-headache (Neuralgia), XVII, a 373
SICKINGEN, Franz von, baron, XXII, a 36-7; (Germany), X, a 447; (Hutten), XII, b 428, a 429; (Luther), XV, b 75, a 77, b 78, *b* 79; (Reformation), XX, b 339
SICKLE, SCYTHE and, XXI, b 601, note; (Agriculture), I, a 322; (Europe), VIII, a 621
Sickness (Dietetics), VII, b 178-81
Sick-room, Life in the (Martineau), XV, b 590
Siculi, people. See Sikels
Siculo-Calabrian dialect (Italy), XIII, b 506
—— -Moorish ware (Pottery and Porcelain), XIX, b 641
—— -Provençal poetry (Italy), XIII, a b 510
Siculus, historian. See DIODORUS SICULUS
SICYON, city, XXII, a 37-8; (Greece), XI, b 84, a 85, b 96; (Numismatics), XVII, b 647, a *b* 659; school of art (Apelles), II, a 149; (Archæology), a b 305, b 306, b 317-8, a 319
Sida (Fibres, Textile), IX, a 116
Sidaro, cape (Crete), VI, a 504
Siddhârtha, Buddha (Buddhism), IV, a 382
Siddhi Kür, tales (Calmucks), IV, a 629; (Dictionary), VII, a 167
SIDDONS, Sarah, actress, XXII, a b 38; (Drama), VII, b 379; (Kean, E.), XIV, b 23; portrait of (Schools of Painting) (Ill.), XXI, a 461
Siddown Hill (Hampshire), XI, a 384
Síde, home of the gods (Celtic Literature), V, a b 260, a 269, a 270, a *b* 279, *a* b 282
——, town (Pamphylia), XVIII, b 210, a 211
Side-grafting (Horticulture), XII, b 242
Si de las Niñas, comedy (Moratin), XVI, b 835
Side lever engine (Steam-Engine), XXII, a 543
Sidereal spectra (Geology), X, a 192
—— Time, XXIII, b 418, a 419; (Clocks), VI, b 14; (Geography), X, a b 177; (Navigation), XVII, a 276
—— universe (Astronomy), II, a 719
Sidereus Nuncius (Galileo), X, b 29
Siderite, mineral (Geology), X, b 203; (Iron), XIII, b 293; (Mineralogy) (Ill.), XVI, a 385, b 387, a 405, a b 414; (New York), XVII, b 465
Sideroschisolite (Mineralogy), XVI, b 431
Siderosilicite (Mineralogy), XVI, b 443
Siderostatic Telescope (Ill.); XXIII, b 167-8
Side-saddle, plant, or Sarracenia (Botany) (Ill.), IV, a 101, a 102, a 103
—— -stroke (Swimming), XXII, b 807-8
Sidewalks (Roads and Streets), XX, b 603-4
Sidgwick, Henry, economist (Evolution), VIII, b 670-1; (Political Economy), XIX, a 392, b 409, b 410, a 413; (Sophists), XXII, a 283, a 284; (Wealth), XXIV, b 487, a 488 note. See List of Contributors
SIDI-BEL-ABBÈS, town, XXII, b 38
Sidicini, people (Samnites), XXI, b 260-1
Sidi Hamed ibn Musa, town (Slavery), XXII, b 152
Sidi Mohammed ben Ali es-Semesi, fraternity (Sahara), XXI, b 159
Sidlaw hills (Forfar), IX, a *b* 361
Sidmouth, viscount. See ADDINGTON
Sidnacester, town (Newark), XVII, a 379
Sidney, town (Nova Scotia), XVII, *a* 618
SIDNEY or Sydney, Algernon, statesman, XXII, b 38-40; (Monmouth), XVI, a 783; (Penn), XVIII, a 503, b 505, a 506; (Somers), XXII, b 269, a 270
——, Lady Dorothy, Saccharissa of Waller, XXIV, a 351
——, Sir Henry, viceroy (Ireland), XIII, a *b* 270; XXII, a 40
SIDNEY, Sir Philip, statesman, XXII, a 40-1; (Constable, H.), VI, a 264; (English Literature), VIII, b 372, a 373, b 375; (Holland), XII, *b* 80; (Lyly), XV, a 106; (Pastoral), XVIII, b 351; (Spenser), XXII, a b 408; (Walsingham), XXIV, a 360; (Wanstead), a 364
—— Sussex college (Cambridge), IV, a 647
Sidobre, mountain-range (Tarn), XXIII, a 71
SIDON or Saida, city, XXII, a b 41; (Catacombs), V, a 188; (Numismatics), XVII, a b 667; (Persia), XVIII, b 591; (Phœnicia), b 816, a 817, a 821, a b 822, a 823
Sidonia, Enrique de Guzman, duke of (Canary Islands), IV, b 702
Sidonian alphabet (Inscriptions), XIII, b 122
Sidonius Apollinaris, author (Petronius), XVIII, a 734
Sidra, Nidra or Idero. See HYDRA
Sidrá Rabbá, book (Mandæans), XV, b 475, a 476, a b 477
Siebe, A., inventor (Diving), VII, a b 258, *a* b 259, b 260
Siebeck, H., metaphysician (Psychology), XX, a 90
Siebert, king, East Saxons (London), XIV, *b* 847, a b 853
SIEBOLD, Carl Theodor Ernst von, physiologist, XXII, b 41; (Animal Kingdom), II, *a* 46; (Bee), III, a 426; (Parasitism), XVIII, b 262; (Reproduction), XX, *a* 423; (Tape-Worms), XXIII, a 55, a 56; (Trematoda), a 569, b 571, b 573, a 575
SIEBOLD, Philip Franz von, explorer, XXII, b 41-2; (Hoffman, J. J.), XII, *a* 49
Siècle, Le (Newspapers), XVII, a b 437, *a b* 438
—— *de Louis XIV.* (Voltaire), XXIV, b 308, b 309, a 313
—— *de Louis XV.* (Voltaire), XXIV, a 313
SIEDLCE, government, XXII, a 42; (Russia), XXI, a 76; town, XXII, a b 42
"Siege," platform (Glass), X, b 585
—— Artillery, II, b 578, a 580, a 582, b 583; (Gunnery), XI, a b 273-4, 275, b 276, b 280-1
SIEGEN, town, XXII, b 42
——, Lewis, lieutenant (Engraving), VIII, a 396
Siegenite (Mineralogy) (Ill.), XVI, a 407
Siege of Rhodes, opera (Drama), VII, a 375; (Music), XVII, a b 95
Sieges (Fortification), IX, b 401-4; of Gerona, X, b 490
Siegfried, viking, legend (Holland), XII, b 73; (Niebelungenlied), XVII, a b 488, a b 489; (Germany), X, *b* 467; (Romance), XX, *a* 674
Siegfried, opera (Wagner), XXIV, a 335, a 337
Siegfrieds Trauermarsch (Wagner), XXIV, *a* 336
Sielberg, hill (Canstatt), V, a 25
Siemens, Ernst Werner, inventor, XXII, b 42, *a* 43; (Telegraph), XXIII, b 123, a b 132; (Traction), a *b* 526; induction tube of (Chemistry), V, a 417

SIEMENS, Sir William or Carl Wilhelm, physicist, XXII, b 42-3; (Electricity) (Ill.), VIII, a 13, b 15, a 35; (Glass), X, *b* 585, b 586; (Iron), XIII, b 288, a 353, b 355, note; (Selenium), XXI, *a* 664; (Smoke Abatement), XXII, *b* 192; (Societies), b 236; (Steam-Engine), a 502, a 533, b 553; (Zodiacal Light), XXIV, a 837; his carbon analysis (Iron), XIII, b 288; his circuit system (Pneumatic Dispatch), XIX, a b 251; continuous furnace (Glass) (Ill.), X, a 586-7; his electrical machines, VIII, *a* 12; (Lighting), XIV, *b* 637; his electrical test (Pyrometer), XX, b 139-40; his furnaces (Cremation), VI, b 501, *a* 502; (Iron), XIII, a b 297, a 298; his gas Furnaces, IX, b 742, b 743; his gas producers (Iron) (Ill.), XIII, b 300-1, a 302; his open-hearth process (Iron), a b 357, a 358; his polarized relay (Telegraph) (Ill.), XXIII, a 132; his precipitation process (Iron) (Ill.), XIII, b 346-8, b 355 note, a 358; his puddling furnace (Iron) (Ill.), b 329, a b 330; his pyrometers (Iron) (Ill.), b 311-2; his regenerative furnace (Iron) (Ill.), a b 301, b 340, 350, a 351; his rotator (Iron), 347, 348; his spongy process, steel (Iron), a b 346
—— -Cowper stove (Iron), XIII, a 311, a 324
—— -Martin process (Iron), XIII, a 357-8
SIENA, city (Plan), XXII, b 43-9
  area, administrative, b 43
  art history, a b 49
  civic institutions, b 43, b 44
  ecclesiastical structures, b 43-4
  festivals, b 43
  HISTORY, b 44-8
    Arezzo, fight for, b 46
    balìa, a 47
    councils, mediæval, b 45-6
    Florentine wars, a b 45, a 47
    imperial period, a b 48
    Milanese supremacy, b 46-7
    origin of, b 44-5
    nobles, suppression of, a 45
    Petruccian period, b 47-8
    popular government, b 45-7
    revolution, 1480, a b 47
    Riformatori, a b 46
    Tuscan period, b 48
  literary history, b 48-9
—— (Beccafumi), III, *b* 411; (Campanito), IV, a 666; (Dante), VI, *b* 713; (Guido), XI, b 229; (Medici), XV, b 800; (Mosaic), XVI, a 882; (Montluc), a 817; (Pinturicchio), XIX, *a* b 118; (Pottery and Porcelain), a 647; (Schools of Painting), XXI, b 451-2, a 462, a 465, b 467; (Sodoma), XXII, b 258; (Universities), XXIII, a 893
Sienetjos, tribe (Senaar), XXI, *a* 690
Sienne river (Manche), XV, b 466
Sien-pi race (Tibet), XXIII, a 365
SIERADZ, town, XXII, b 49
Sierra, solar (Astronomy), II, a 690
—— de la Giganta (Mexico), XVI, b 223
—— Gigantea (California), IV, b 616
SIERRA LEONE, colony (Map), XXII, b 49-51; (Africa), I, a 241, b 249; (Copal), VI, a 304; (Missions), XVI, b 540; Company (Slavery), XXII, a 148
Sierra Nevada, mountains (America), I, b 595; (California), IV, *b* 617-8, a *b* 619, *a* b 620, a 621; (Pacific Railroads), XIX, a 919; (United States), XXIII, b 850, *a b* 851, a 852, a b 855, a 859; forests (United States), *a* 861-2
Siete Partidas, code (Spain), XXII, *b* 333
Sieu, divisions of Zodiac, XXIV, *a b* 833, a 834
Sieur de Beuil, pseudonym (Sacy), XXI, a 150
Sieve, river (Italy), XIII, a 448
Sievers, G. Edward, phonetist (Speech-Sounds), XXII, b 396, b 405. See List of Contributors
Sieves (Dredge) (Ill.), VII, a 398; (Mining) (Ill.), XVI, b 485-6
Sieve-tubes (Histology), XII, b 18
Sieve-witch, superstition (Ordeal), XVII, b 842
SIEYÈS, Emanuel Joseph, abbé, politician, XXII, b 51-2; (Chamfort), V, b 332; (France), IX, a *b* 539; (Napoleon I.), XVII, b 208, *a b* 209, *a* b 210; (Talleyrand), XXIII, b 36
Sifan district (Tibet), XXIII, b 363, a 365; dialects of (Tibet), b 368
Sifatites, sect (Mohammedanism), XVI, b 614
Siffín, battle, 657 (Mohammedanism), XVI, a 587
Siful Sifadda, pseudonym (Norway), XVII, b 604
SIGALON, Xavier, painter, XXII, a 52
Sigebert of Gembloux, chronicler (Ursula), XXIV, a 18
Sigeum, cape (Troad), XXIII, a 615, *a* 616
Sighelmus of Sherborne, traveller (India), XII, a 837
Sight, organ of (Mammalia), XV, a 370; sensation (Anatomy), I, a 782; (Bee), III, a 421; (Deaf and Dumb), VII, b 5; (Light), XIV, a 582-3. See Eye, Vision
—— rule, instrument (Surveying), XXII, b 755
SIGHTS, gun (Ill.), XXII, a 52-4
Sighvat, poet (Iceland), XII, b 657, a 658
Sigillaria, festival (Wax-Figures), XXIV, b 486
Sigiri, mountain (Ceylon), V, a 312
Sigismonda (Hogarth), XII, a 52
SIGISMUND, emperor, XXII, a b 54, note; (Germany), X, b 444; (Hungary), XII, a 52; (Huss), *a b* 421; (Hussites), a 423; (Prussia), XX, *a* 7; (Savoy), XXI, b 356; (Saxony), a b 368; (Switzerland), XXII, *a* 824; (Thurgau), XXIII, a 352; (Wenceslaus), XXIV, *b* 528, *a* 529
—— I., king (Poland), XIX, a b 302
—— II., Poland (Ivan IV.), XIII, b 529; (Charles IX.), V, b 363; (Poland), XIX, b 302-3
—— III., Poland (Gustavus II.), XI, b 298; (Poland), XIX, b 300, a 302, a 305-6; (Russia), XXI, b 102, a 104; (Smith), XXII, b 184
—— of Sweden, XXII, *b* 786, b 787
—— of Hapsburg, archduke (Charles the Bold), V, a b 368; (Cusa), VI, a 643; (Switzerland), XXII, a *b* 825, *a* 826
Siglus, coin (Numismatics), XVII, *b* 677
Sigma, letter (S), XXI, a b 128
SIGMARINGEN, town and division, XXII, b 54
—— -Hohenzollern, family, XII, a 55
Sigmatophora, sub-order (Sponges), XXII, a 440
Sigmodontes, group (Mouse), XVII, a 11, a b 12
Signakh, town (Transcaucasia), XXIII, b 547
Signal Hill (Newfoundland), XVII, b 392
Signalling (Telegraph), XXIII, b 119-20; speed of (Telegraph), b 135-6
SIGNALS, XXII, b 54-5; (Flag), IX, a 244; (Heliography), XI, a 565; (Navigation), XVII, b 285; (Railway), XX, b 244, a 247-8; (Surveying), XXII, a b 734; determining longitude by (Time), XXIII, b 421
SIGNAL SERVICE, United States, XXII, a 903-5; (Meteorology), XVI, b 162, b 163; (Thermometers), XXIII, b 310; (United States), a b 856, *a* b 858, a 859
Signatures, doctrine of (Alchemy), I, b 407; (Paracelsus), XVIII, a 240
——, early (Diplomatics), VII, a b 221
—— in printing (Typography), XXIII, a 730, a 746; first use of (Bibliography), III, a 565
Signers of the Declaration of Independence (Sanderson), XXI, a b 900
Signet (Ring), XX, a b 575, a b 576
——, writers to the (Scotland), XXI, b 560
Signia, town (Rome), XX, a 754
Significavit (Writ), XXIV, a 732
Sign language (Deaf and Dumb) (Ill.), VII, a 8-9
Signoria, councillors (Venice), XXIV, b 154
SIGNORELLI, Luca, painter, XXII, b 55-6; (Piero), XIX, b 91; (Schools of Painting) (Ill.), XXI, a 453, a 462, *a* 466, b 467, a 468
Signs (Algebra), I, a 451, b 452, b 453, a b 458; rule of, I, b 480-1; of functions (Trigonometry), XXIII, b 598-9
——, astrological (Zodiac), XXIV, a 834
——, phonetic (Speech-Sounds), XXII, *b* 404
—— in Rhetoric, XX, a 525
SIGOURNEY, Lydia Howard Huntley, authoress, XXII, a b 905
Sigtryggr or Sitric, king (Ireland), XIII, a b 258, b 259
Sigtuna, city (Stockholm), XXII, b 586 note, a 587 note
Siguatepeque, volcanoes (San Salvador), XXI, *a* 281
Siguenza, district (Spain), XXII, a 308
Sigurd, myth (Niebelungenlied), XVII, b 487-8. See Siegfried
——, Earl, son of Hakon (Harold IV.), XI, a 434; (Norway), XVII, *a* 600
——, earl of Orkney, XVII, a 873; (Iceland), XII, b 658; (Ireland), XIII, b 259-60; (Scotland), XXI, b 500, a 502
—— of Broadfirth, poet (Iceland), XII, b 658
——, Jorsalafari, king (Norway), XVII, a 602
Sigwart, metaphysician (Psychology), XX, a b 83 note
Siháh fi'l Lugha (Jauhary), XIII, b 608
Sih-nasr-i-Zuhurī (Hindustani Literature), XI, a 757
Sihon, king of the Amorites (Israel), XIII, a 407, b 411, note
Si-hu, lake (Hang-Chow-Foo), XI, a b 393
Sihun, river (Asia Minor), II, b 619; (Cappadocia), V, b 67; (Cilicia), a 679
——, river. See SYR DARIA
Sik, defile (Petra), XVIII, b 718-9
Sikandarabad, town (Bulandshahr), IV, b 461
Sikandarpur, town (Azimgarh), III, b 146
Sikandar Shāh Lodī, idol-breaking raja (Hindustani Literature), XI, a 754; (Kashmir), XIV, b 15
Sikandrá Ráo, town (Aligarh), I, b 507
Sikans or Sicani, people (Sicily), XXII, *a b* 20, a 21, *a* 22, a b 23
Sikeliots, people (Sicily), XXII, *a* b 21, a b 22, *a* 23. See Sickels

Sikes's Hydrometer (Ill.), XII, a 570, b 572–3
Sikhota-alin, mountains (Maritime Province), XV, *a* b 555; (Russia), XXI, a 74
Sikhs, race (Amritsar), I, b 682; (Dalhousie), VI, *b* 684; (Edwardses), VII, a 596; (Gough), XI, a 4; (Gujrat), b 242; (Hazara), b 488; (Hindustani Literature), a 754, b 758–9; (Hushiárpupur), XII, *b* 418 (India), b 784, a b 847–8, b 849; (Jalandhar), XIII, a 556; (Ládac), XIV, a 199; (Lahore), a b 216; (Law), b 359; (Lawrence), b 371, *a* b 373; (Napier), XVII, b 183; (Peshawar), XVIII, a 698; (Punjab), XX, b 112, a b 116–8
SIKKIM, state, XXII, b 56; (Birds), III, b 660; (Dárjíling), VI, a 728; (Himalaya), XI, b 734, a 737, b 742, a 743
—— Cucumber, VI, a 608
Sikokuni war (Transvaal), XXIII, a 552
Sikrol, suburb (Benares), III, b 479
Siksha or Phonetics (Sanskrit), XXI, b 287, a 290
Sikuha, town (Persia), XVIII, a 638
Sil, river (Galicia), X, a 25; (Lugo), XV, *a* 62; (Spain), XXII, b 307, a 308
Síláditya, king (India), XII, b 824–5; (Sanskrit), XXI, b 299
Silam, town (Sabah), XXI, a 132
Silanus (Ovid), XVIII, b 83
Silarus or Sele river (Italy), XIII, a 449; (Lucania), XV, a b 39, a 40
Silas, evangelist (Paul), XVIII, a b 430
Silberfund (Hildesheim), XI, b 729
Silbermann Gottfried, manufacturer (Music), XVII, a 101; (Pianoforte), XIX, *b* 79, *a* 80
Silbermann's account of an Aurora, III, *b* 80, a 81
Silberwiese, suburb (Stettin), XXII, b 571
Silbury Hill (Avebury), III, b 125
Silchester, town (Hampshire), XI, *b* 385
Silence, Benedictine rule of (Monachism), XVI, a b 730
Silene, plant (Botany), IV, b 121, a 122; (Horticulture), XII, *b* 255, a 256, a 260
Silent system (Prison Discipline), XIX, b 772, a 773
SILENUS, myth, XXII, b 56–7
SILESIA, district, XXII, a 57–9
  Austrian province, a 59
  Hohenzollern period, b 57–8
  imperial period, a b 57
  legendary period, a 57
  Russian province, a 58–9
—— (Austria), III, *a* b 110–1; (Coal), VI, a *b* 54; (France), IX, a b 516; (Frederick II.), *b* 647, b 648; (Frederick William, Elector), a 646; (Germany), X, a 451; (Mongols), XVI, a 768; (Prussia), XX, *a b* 18, *a b* 19, *b* 20, *a* 21; coal-field (Germany), X, a b 407, b 413; Protestants (Joseph I.), XIII, a 760; school of (Germany), X, b 474–5; (Gottsched), b 760
Silesian process with Zinc, XXIV, b 824–5
—— Wool, XXIV, b 689, a 690
Silex, lava (Rome), XX, b 825
Silian law (Roman Law), XX, *b* 698, a *b* 701, a 713, a 716, a 718, a 720, b 726
SILICA, oxide, XXII, a b 59; (Acid), I, a 92; (Chemistry), V, a 453; (Fire-Clay), IX, *b* 207, *a b* 208; (Furnace), b 741; (Glass), X, b 584; (Granite), XI, b 43, b 44; (Grasses), b 48; (Lead), XIV, a 376; (Manure), XV, a b 513, b 515, b 516, *a* b 517; (Mineralogy), XVI, *b* 386, b 387, b 405; solution of (Geology), X, a 232
Silicated carbon Filter (Ill.), IX, b 147–8
Silicates (Chemistry), V, *a* b 453; (Glass), X, b 583–4; (Iron), XIII, b 295, b 302, a 303; (Jacinth), b 541; (Jade), b 549, a b 550; (Magnesium), XV, b 218; (Metallurgy), XVI, a 66, b 67; alkaline (Iron), XIII, b 361; in paints (Pigments) XIX, a b 95; in Soaps, XXII, a b 215
Silica Ultramarine, XXIII, a b 769
Siliceous concretions (Geology) (Ill.), X, a 261; earth (Silica), XXII, a b 59; springs (Geology), X, b 240; stones (Building), IV, a 420; submarine deposits (Geology), X, b 257
Silicispongia, class (Sponges), XXII, *b* 434, a b 437–8, a b 439
Silico-manganeisen in casting (Iron), XIII, b 361, b 366
Silicon, element (Chemistry), V, b 451–4, a 498; (Fuel), IX, a 709, b 710; (Iron), XIII, a b 287, b 289; (Metals), XVI, a 75; (Mineralogy), a 405; (Wöhler), XXIV, a 661; effect on casting (Iron), XIII, b 289, a 290, a b 344, *b* 366; on tensile strength (Iron), *b* 363, a 365; oxidation in steel-making (Iron), a b 343, a b 344; plant absorption of (Physiology), XIX, a b 56
Silicon-acetic acid (Chemistry), V, a 454
Siliconeisen (Iron), XIII, a 358, a b 361
Silicon-oxalic acid (Chemistry), V, b 453
Silicon-propionic acid (Chemistry), V, a 454
Silico-skeleta, sub-class (Protozoa) (Ill.), XIX, b 872–4
Siliqua and silicula, fruit (Botany) (Ill.), IV, b 138–9
SILISTRIA or Silistra, town, XXII, b 59–60; battle of, 1854 (Paskewitch), XVIII, b 345
SILIUS ITALICUS, poet, XXII, a 60–1; (Martial), XV, b 586; (Roman Literature), XX, *b* 745
SILK (Ill.), XXII, a 61–72
  American history, a 63, b 72
  bombyx and cocoon (Ill.), a 63–4
  Chinese history of, b 61–2
  diseases, a 65–6
  English history, b 62–3, a b 72
  Greek history of, a 62
  MANUFACTURE, b 67–72
    dyeing, wild silk, b 70–1
    commerce, a 71–3
    conditioning, a 69
    filature or reeling, b 67–8
    numbering, b 68–9
    scouring, a 69
    spun-silk, a 69–70
    throwing, a b 68
    weighting or privileged fraud, a b 70
  mediæval history of, b 62
  physics and chemistry of (Ill.), a b 67
  Rome, imperial, a b 62
  sericulture, b 64–5
  United States industry, a 63, b 72
  wild products (Ill.), a b 66
—— (Athens), III, b 10; (Austria), a 104, a 105; (Bleaching), b 714; (Bombay), IV, a b 22; (Bradford), b 178; (Burmah), a 495; (China), V, b 551, a 552, a b 555, b 556, a b 558, b 559; (Crefeld), VI, b 500; (Damask), a 698; (Derby), VII, *a* 94; (Dyeing), a *b* 499, a *b* 500, *a b* 501–2; (Egypt), a 618; (England), VIII, a b 210; (Fibres, Textile), IX, a b 115, *a* 116, b 117; (France), b 459–60; (Germany), X, a 406, b 412; (Görz), b 700; (Greece), XI, b 79, b 101, *b* 106; (Hems), b 579; (Hierapolis), b 706; (India), XII, b 789–90, *a* 796; (Ireland), XIII, b 237–8; (Italy), b 450, b 451–2, a 462–3; (Lai Yang), XIV, b 217; (Lakhimpur), b 225; (Lebanon), b 395; (Lyons), XV, b 113–4; (Mexico), XVI, b 911; (Milan), b 304; (Nukha), XVII, b 628; (Persia), XVIII, a 615, b 634; (Protection), XIX, a 935, b 936; (Rasht), XX, a 298; (Rhone), b 543–4; (Roveredo), XXI, a 34; (St. Chammond), a 168; (St. Étienne), b 176; (Savoie), b 347; (Scotland), a 558; (Siam), a 891; (Switzerland), XXII, a 818; (Tibet), XXIII, a 364; (Würtemberg), XXIV, b 736; (Zurich), a 870
——, Adulteration of, I, b 159; (Jute), XIII, b 812
—— cotton (Fibres, Textile), IX, a 116
—— fowl (Poultry), XIX, a 666
—— grass (Fibres, Textile), IX, a 116
—— Hats, XI, a 464; (Plush), XIX, b 243
—— pillow Lace, XIV, b 185
—— secretion (Butterflies and Moths), IV, a b 528; from spiders (Arachnida), II, b 259–60; spinners (Arachnida), a 241, b 247, a 248, *b* 256, a 257, a 259–60
Silkstone coal seam (York), XXIV, b 784
Silk thread insulators (Electricity), VIII, a 10
—— weaving (India), XII, b 800–1; (Jacquard), XIII, a b 549; (London), XIV, b 841; (Textiles) (Ill.), XXIII, a 226–8
Silk weed (Algæ), I, b 448
Silkworm (Ill.), XXII, a 63–6; (Acclimatization), I, a 82; (Butterflies), IV, b 530–1; (India), XII, a b 790; (Insects), XIII, b 148, b 157; (Julien), a 780; parasites of (Protozoa), XIX, b 879
Silla de Caraccas, mountain (America), I, a 589; (Carácas), V, b 72
——, Pico de la, mountain (Venezuela), XXIV, b 150
Sillery, Charles Alexis Brulard, marquis (Genlis), X, *b* 137
SILLIMAN, Benjamin, 1st, chemist, XXII, a 73; (Petroleum), XVIII, b 888
SILLIMAN, Benjamin, 2d, chemist, XXII, a b 73; (Petroleum), XVIII, b 726 a 889
Sillimanite (Mineralogy), XVI, b 394, a 426
Silloi, satire (Timon of Phlius), XXIII, a 424
Sillon, causeway (St. Malo), XXI, *b* 195
—— de Bretagna, hillocks (Loire Inférieure), XIV, b 817
Silloth, town (Carlisle), V, *a* 97
Sills (Building), IV, b 422
SILO, fodder preserving, XXII, b 73–4
—— of Asturias, usurper (Spain), XXII, a 326
Siloam or Siloah, miracle of (Gospels), X, b 743, a 744; pool of (Jerusalem), XIII, a 649, a 650, note
Silow, physicist (Electricity), VIII, a b 36
Silpha, beetles (Coleoptera), (Ill.), VI, b 118
Silphium, genus (Insectivorous Plants), XIII, b 146
Sils, lake (Engadine), VIII, a 193
Silsileh, mountains (Egypt), VII, a 679
Silt (Baltic Sea), III, a 254; (Harbors and Docks), XI, a 416; (Hydromechanics), XII, b 522, b 530–1; (Irrigation), XIII, b 377; (Mississippi), XVI, b 543, b 544
—— dredge (Dredging), VII, a 401
Silures, people (Hereford), XI, b 653
Silurian fauna (Corals), VI, b 336, a 337, a 341, a 343; (Distribution), VII, a 245, 246, *a* b 247; (Geology), X, a b 287, b 288; survival of (Geology), a b 305
—— limestone (Luray Cavern), XV, b 68

Silurian rocks, North America, I, b 596; (Greenland), XI, b 149; (Murchison), XVII, a 57–8; (Newfoundland), b 392; (New York), *b* 464; (Norway), b 591, a 592; (Russia), XXI, b 81; (Scotland), a b 543, a 546; (Sweden), XXII, a 778; (York), XXIV, b 783; lower (Geology), X, b 293-5; separation from Cambrian (Geology), X, a b 291

Siluro-Cambrian rocks (Westmorland), XXIV, a b 542

SILURIDÆ, family of fishes (Ill.), XXII, a 74–6; (Himalaya), XI, a 745; (Ichthyology), XII, b 670, b 694, a b 695, b 701, a 704, a b 707, a b 708, *a* 709, a b 710, a b 711, *a b* 712, a b 713, b 714, b 715, b 730–1

Silurien Système de la Bohême (Geology), X, a b 286

Silurina, sub-family (Ichthyology), XII, b 730

Siluroid fish (Snakes), XXII, a 209

Silva, Dinez da Cruze, poet (Portugal), XIX, a 573

——, Feliciano de, author (Romance), XX, b 671, *a* 672

——, L. A. Rebello da, historian (Portugal), XIX, b 573

——, Ruy Gomez de. See EBOLI

Silva Critica (Wakefield), XXIV, b 340

Silvæ, poems (Roman Literature), XX, *b* 745; (Statius), XXII, b 484, a b 485

Silva Marciana, mountains (Würtemberg), XXIV, b 735

SILVANUS, god, XXII, b 76

Silvaplana, lake (Engadine), VIII, a 193

Silvas, Spanish verse (Iriarte), XIII, b 231

Silva y Figueroa, Don Garcia de, envoy (Persia), XVIII, a 649

SILVER, metal, XXII, b 76–81
- alloys, a b 78
- amalgamation, b 76–7
- analysis, assaying, a b 79
- art use of, a 81
- chemically pure metal, b 77–8
- compounds, b 78–9
- cost of production, a 80
- ores, b 80–1
- production, b 80–1
- silvering, b 78
- value, commercial, a b 80
- varieties of, b 76

—— (Almeria), I, a 522; (Atacama), II, *a* 723; (Attica), III, b 52; (Austria), b 104, a 105; (Bismuth), b 686; (Bolivia), IV, b 13; (Brazil), a 202; (Bullion), a 464–5; (California), a b 622; (Chemistry), V, a b 458, a b 459, b 464–5; (Chili), b 540; (China), *a* 557; (Cobalt), VI, b 75, *a* 76, a 77; (Colombia), b 138; (Colorado), a 146; (Corn Laws), a b 363; (Cuba), b 602; (Elasticity), VII, 708, a b 709; (England), VIII, b 207; (Finance), IX, b 150; (France), b 461–2; (Fresnillo), a 682; (Germany), X, b 408; (Greece), XI, a 80; (Ireland), XIII, a 224; (Japan), a b 582; (Konsberg), XIV, b 139; (Lead), *a* 375; (Mexico), XVI, a 225, a 907–9; (Michigan), b 248; (Mineralogy) (Ill.), a 361, a 384, a 385, b 387, b 397, a 400, a b 408, a 409, a 411, a 412; (Mining), b 487, a b 489-94; (Montana), a 800; (Nertchinsk), XVII, b 361; (Nevada), a 377; (New Mexico), *b* 410; (New South Wales), *b* 419; (Nicaragua), *b* 491; (North Carolina), a 574, a 575; (Norway), a 592; (Ontario), b 796; (Peru), XVIII, a 688; (Potosi), XIX, b 616; (Primbram), b 740; (Prussia), XX, a 19; (Saxony), XXI, *b* 368, a 369; (Spain), XXII, a 310, b 315, a 316; (Texas), XXIII, b 221; (Transbaikalia), a 543; (United States), b 830, a 867–8, *b* 869, b 870; (Ural Mountains), XXIV, a 10; (Utah), b 25; (Washington), b 407; (Zacatecas), *b* 799

——, alloys of, XXII, a b 78; (Assaying), II, b 633, a 636; (Gold), X, *a* b 668; (Platinum), XIX, b 202; imports (India), XII, b 796–7; malleability of (Goldbeating), X, a 670, a 671; separation of (Gold), a *b* 666, *a b* 667; (Lead), XIV, b 376–7; Spectrum of, XXII, b 390; spitting of (Iron), XIII, b 366; transmutation myth (Bismuth), III, a 686

—— age (Latin), XIV, a b 338; (Roman Literature), XX, a b 744

SILVER AND GOLD LACE, X, a b 671

—— coinage (Exchange), VIII, a 693; (Mint), XVI, a 505; (Money), b 749–50, a 755–6, a 758–9; (United States), XXIII, b 881; copper compared with (Weights and Measures), XXIV, b 509; demonetization of (United States), XXIII, b 833; oriental currency (Money), XVI, a 756; relation to gold (Money), a b 764; (Numismatics), XVII, b 646; relative price for (Mint), XVI, b 508; (Money), b 755–6. See Bimetallism

—— cyanide (Prussic Acid), XX, a b 28

Silvered mirrors (Telescope), XXIII, b 159, note; Brashear's (Telescopic Work), b 933

Silver Eye, bird (Zosterops), XXIV, b 863 note

—— -Fir, tree, IX, b 195–6; (Arboriculture), II, a 277, b 280

—— -fish (Insects), XIII, b 160

—— glance, XXII, b 76

"Silver Gun, the" (Dumfries), VII, b 456

Silvering (Mirror), XVI, a 523–4; (Silver), XXII, b 78

SILVERIUS, pope, XXII, a 81; (Popedom), XIX, b 507, b 523

—— Pit, hollow (North Sea), XVII, a b 577

—— -plating (Adulteration), I, a b 160; (Liebig), XIV, b 571; iron (Iron), XIII, b 367. See ELECTRO-METALLURGY

—— printing processes, charting (Surveying), XXII, a 753

—— Reef, district, Utah (United States), XXIII, a 868

—— salts, action of light on (Photography), XVIII, a b 848–51, b 852

Silver's marine governor (Steam-Engine), XXII, a 533

Silversmiths, ancient (Archæology), II, a 320

Silver statuary (Pistoia), XIX, a 141; (Sculpture), XXI, b 593

Silverton, town (South Australia), XXII, b 298

SILVESTER I., pope, XXII, a 81; (Liturgy), XIV, a 716

SILVESTER II. or Gerbert, pope, XXII, b 81–3
- abbot of Bobbio, b 81–2
- metropolitan of Rheims, a 82
- papacy of, a b 82
- scholarship of, a 83
- scholastic life of, b 81
- statesmanship of, b 82–3
- works, editions of his, a b 83

—— (Aurillac), III, b 78; (France), IX, b 473; (Germany), X, a b 436, a 468; (Libraries), XIV, b 512; (Numerals), XVII, a 642; (Otho III.), XVIII, a 70; (Popedom), XIX, a 512, a 524; (Rome), XX, b 870; (Scholasticism), XXI, a 439

SILVESTER III., pope, XXII, b 83; (Popedom), XIX, b 512

——, monk, councillor of Joan IV. (Russia), XXI, b 100, b 112–3

——, R., physician (Drowning), VII, b 410, a b 411. See Sylvester

Silvestro, Frà, monk (Savonarola), XXI, b 353, *a* 354

Silviidæ, family (Sparrow), XXII, a 383; (Warbler), XXIV, *a* b 387; (Whitethroat), a b 584

Silvio de la Salva, knight (Romance), XX, a b 672

SIMANCAS, town, XXII, b 83

Simba, island (Solomon Islands), XXII, b 265, note

SIMBIRSK, government, XXII, b 83–4; (Russia), XXI, a 76, *a* 87, a 88; town, XXII, b 84

Simcox, Edith (Evolution), VIII, b 670, a 671

SIMEON, patriarch, XXII, b 84; tribe of (Israel), XIII, a 411; (Palestine), XVIII, a b 179, a b 180

——, king (Bulgaria), IV, b 462

——, grand duke, the Proud (Russia), XXI, b 99

—— the Deacon, chronicler (Syriac Literature), XXII, a 892

—— of Durham, chronicler (Lothian), XV, a 12

——, Charles, preacher (Martyn), XV, *a* 593; (Universities), XXIII, a 909

—— bar Jochai, rabbi (Galilee), X, *b* 26

—— Barkáyā or Karkhāyā, historian (Syriac Literature), XXII, b 880

—— bar Koziba (Israel), XIII, a 438

—— bar Sabbā'ē, bishop (Syriac Literature), XXII, a 867

—— bar Tabbākhē, historian (Syriac Literature), XXII, b 887

—— of Bēth Arshām (Syriac Literature), XXII, *b* 870, b 871, b 873, notes, a 877, a 878 note

—— of Bēth Garmai, monk (Syriac Literature), XXII, b 880

—— Kūkāyā, poet (Syriac Literature), XXII, b 873

—— Shankĕlāwī, chronicler (Syriac Literature), XXII, a 897

—— Stylites (Antioch), II, b 116; (Monachism), XVI, b 727; (Syriac Literature), XXII, b 870

—— Thaumastorites (Syriac Literature), XXII, b 877

Simeto river (Etna), VIII, *a* 552

SIMFEROPOL or Sympheropol, town, XXII, b 84–5; (Crimea), VI, *a* 518, a b 519; (Taurida), XXIII, a 90

Simhah, rabbi (Rashi), XX, b 296 note

Simhasana-dvabrimsika (Sanskrit), XXI, a 301

Simia, genus (Ape), II, b 130–1, b 136, *b* 137, b 138, a b 139, *a* 140, a *b* 141, *a b* 142, *a b* 143, *b* 144, *a* 145, a 146

Simiadæ, group (Ape), II, b 130–4, b 136, a *b* 138, *a b* 139, *a* 140, b 141, *a* b 142, *a* b 143, *a b* 144, a *b* 145, b 146, a b 147; (Mammalia), XV, b 451

Simiane, Pauline de Grignan, madame de (Sévigné), XXI, b 738, a 739, a 740

Simiinæ, sub-family (Ape) (Ill.), II, *b* 130-2, b 136, *b* 139, *a b* 140, *a b* 141, *b* 142, *b* 143, *a* 145

Similar figures (Geometry), X, a 342–3; (Projection), XIX, b 817

Similarity in the Association of Ideas, II, *a* b 641; (Psychology), XX, a 65

Similar vows (Geometry), X, b 352–3

Simile, trope (Rhetoric), XX, a b 527

Similia similibus curantur (Homœopathy), XII, a b 130, a b 131

SIMLA, district, XXII, a 85; (Ambálá), I, b 576; (Punjab), XX, b 114, b 115

SIMLA, town, XXII, a b 85; (Himalaya), XI, a 735

Simmern, family (Palatinate), XVIII, a b 171

SIMMS, William Gilmore, novelist, XXII, b 85–6; (American Literature), I, a 638

Simms's dividing engine, (Graduation) (Ill.), XI, b 27-8
Simnel, Lambert, pretender (England), VIII, a 295; (Henry VII.), XI, b 590; (Ireland), XIII, b 267-8; (York), XXIV, b 790, a 791
Simon, priest (Israel), XIII, *b* 430
—— the Just, rabbi (Canon), V, a 5
—— III., the Maccabean, high priest (Israel), XIII, a 433
SIMON, Abraham, medalist, XXII, a 89
——, Eugene, naturalist (Arachnida), II, b 241, b 257, a 258, *a* 263
——, John, physician (Cholera), V, b 593, a 595; (Pathology), XVIII, a 367
——, Jules, statesman (Gymnastics), XI, a 312
SIMON, Richard, biblical critic, XXII, a 89-90
SIMON, Thomas, medalist, XXII, b 90
—— bar Giora, leader (Israel), XIII, b 437, *a* 438
—— ben Yochi (Kabbalah), XIII, *a* 823
—— de Montfort. See MONTFORT
Simonde. See SISMONDI
Simone, Francesco di, sculptor (Verrochio), XXIV, b 199
——, Napoletano, painter (Schools of Painting), XXI, b 463
—— da Pesaro, painter (Cantarini), V, a b 26
—— di Brion. See pope MARTIN IV.
—— di Martino, painter (Schools of Painting), XXI b 451, a 462. See MARTINI, Simone
Simonia, island. See Zannone
Simonich, count envoy (Persia), XVIII, b 661, a b 662
Simonides, church father (Apostolic Fathers), II, a 173
SIMONIDES, or Semonides, of Amorgos, poet, XXII, b 90-1; (Simonides of Ceos), a 91; (Greece), XI, a 124; (Satire), XXI, a b 333
SIMONIDES of Ceos, poet, XXII, a b 91; (Epitaph), VIII, a 438; (Fine Arts), IX, b 181; (Greece), XI, a b 124-5; (Mnemonics), XVI, a 556; (Rhetoric), XX, a 527
SIMON MAGUS, sorcerer, XXII, a 86-9
    Gnosticism, b 87-8
    heresiarch, Justin's, b 86-7
    legendary development, a b 88
    Samaritan Messiah, b 86
    sources of information, b 88-9
    Tübingen theory, a b 86
—— (Apostolic Fathers), II, a 172; (Gnosticism), X, *a* b 626; (Gospels), X, b 740; (Paul), XVIII, a 427; (Peter), b 708, a b 709; Tonsure of, XXIII, b 472
Simons, Menno. See Menno
Simonside Hills (Northumberland), XVII, b 578
SIMONY, offence, XXII, b 91-3 (Alexander VI.), I, b 431, a 432; (Burial) IV, a 480; (Conclave), VI, b 213; (Greece), XI, b 110; (Gregory VII.), a 158; (John II., Pope), XIII, b 720; (Popedom), XIX, a 507, b 512, b 513, b 518
Simoom, Simoon or Samoom, storm (Arabia), II, b 208; (Camel), IV, a b 651; (Climate), VI, b 5; (Egypt), VII, a 610, note; protection from (Garlic), X, a 73
Simple harmonic motion (Mechanics), XV, a 693-7, a 714; composition of (Mechanics), a 694-6
Simplex cubic Curves, VI, a *b* 639
Simplicissimus, novel (Germany), X, *b* 475
SIMPLICIUS, pope, XXII, a 93; (Popedom), XIX, a 507, b 523
SIMPLICIUS of Cilicia, Neoplatonist, XXII, a b 93; (Thales), XXIII, a 237
Simplon, pass (Alps), I, *b* 545, *b* 549; department (Valais), XXIV, b 37
Simpson, George Wharton, his process of Photography, XVIII, a 844, b 847
——, James H., explorer (Surveys), XXII, a b 936, b 938
SIMPSON, Sir James Young, physician, XXII, b 93-4; (Acupressure), I, b 123; (Anæsthesia), *a* 693; (Chloroform), V, a 591; (Hospital), XII, b 314, b 315, b 320; (Pathology), XVIII, b 416-7; (Surgery), XXII, b 712
SIMPSON, Matthew, bishop, XXII, b 905
SIMPSON, Thomas, mathematician, XXII, a b 94; his rule (Mensuration), XVI, b 26
——, Thomas, explorer, *b.* 1808, *d.* 1840 (Polar Regions), XIX, a b 332; his expedition with Dease (Geography), X, a b 172
SIMROCK, Karl, poet, XXII, b 94
SIMS, James Marion, gynæcologist, XXII, b 905-6
——, Thomas, slave (Rantoul), XX, b 895
—— -Torpedo, XXIII, b 479
Simsbury, Connecticut, town (United States), XXIII, b 863
Simson, David, painter, XXII, b 95
——, George, painter, XXII, b 95
SIMSON, Robert, mathematician, XXII, b 94-5; (Euclid), VIII, a *b* 577; (Porism), XIX, *b* 534
SIMSON, William, painter, XXII, a b 95
——, traveller (Ecuador), VII, a b 560, b 563
Simulacra of Epicurus (Lucretius), XV, b 55
Simulium, genus (Mosquito), XVI, a 894
Símurgh, bird (Roc), XX, a 627
Sin (Origen), XVII, b 866; conviction of (Bunyan), IV, a 471-2; eaters of vicarious (Funeral Rites), IX, b 725; original (Greek Church), XI, b 141; (Predestination), XIX, a 688-91; offerings for (Sacrifice), XXI, *a* 145; in Pauline theology (Paul), XVIII, b 434-5; punishment of forgiven (Purgatory), XX, a b 120-1; responsibility for (Pelagius), XVIII, a 483; Roman Catholic doctrine of (Liguori), XIV, b 643-6; venial and mortal (Ethics), VIII, *a* 522, a 523; (Penance), XVIII, b 498
——, Sinæ, country (China), V, *b* 544; (Ptolemy), XX, a 101. See Sinim
——, city of Egypt (Pelusium), XVIII, b 491
——, moon-god (Yemen), XXIV, *a* 778
SINAI, mountain, XXII, b 95-6; (Israel), XIII, a 407, note, b 409; (Moses), XVI, *b* 888; (Turquoise), XXIII, a 712
Sinaitic codex. See *Codex Sinaiticus*
Sinaitic covenant (Israel), XIII, b 409; inscriptions (Amalekites), I, b 573; peninsula (Arabia), II, b 205-6
Sinalbin, chemical principle (Mustard), XVII, b 119
Sinaloa, state (Mexico), XVI, a 223, b 908
Sínamrú, myth (Roc), XX, a 627
Sinán Pasha, prose-writer (Turkey), XXIII, a 698
Sincholagua, mountain (Ecuador), VII, a 559
Sin-chow, town (China), V, b 549
Sinchulá, mountains (Jálpáigurí), XIII, a 558
Sinclair, German philosopher (Hegel), XI, b 547, a b 549
——, Catherine, authoress, XXII, a 97
——, Sir George, baronet, XXII, a 97
——, Hannah, authoress, XXII, a 97
SINCLAIR, Sir John, baronet, author, XXII, b 96-7
——, Oliver, general (Scotland), XXI, a 521
Sinclair's automatic exchange (Telephone), XXIII, b 145
SIND, Scind or Sindh, province (Map), XXII, a 97-9
    administrative features, b 98-9
    geographical features, a 97-9
    history, a b 99
    linguistic characteristics, a 99
    products, natural and industrial, a b 98
—— (Birds), III, a 661; (Bombay), IV, a b 20, *a* b 21; (Cutch), VI, a b 645; (India), XII, b 777, b 778, b 780, b 782, a b 786, b 789, a 791, a *b* 792, a 793, a 802, b 805; (Khairpur), XIV, a b 58; (Mohammedanism), XVI, a 601; (Napier, Sir C. J.), XVII, *a b* 183; (Napier, Sir W. F. P.), b 193; (Persia), XVIII, b 653; conquest of, XXII, b 99; (Ellenborough), VIII, a 137; (India), XII, b 846, a 847
——, river (Bundelkhand), IV, a 466; (Gwalior), XI, b 308
—— Frontier. See UPPER SIND FRONTIER
Sindbad the Sailor (Geography), X, a 159
Sindban or *Sindibādh* (Syriac Literature), XXII, b 894, a 895
Sindhia of Gwalior, Marhatta chief (Delhi), VII, b 43; (Gwalior), XI, b 308; (India), XII, a 842, a b 843-4; (Mahrattas), XV, b 291, a b 293, a b 294; (Wellington), XXIV, *b* 522, a 523
Sindis, people (Dictionary), VII, a 166; (Sind), XXII, a 99
Sind Ságar Doáb, tract (Muzaffargarh), XVII, b 120; (Punjab), XX, b 112
Sine of angle (Trigonometry), XXIII, b 598; and cosine, factorization of (Trigonometry), a 608; integrals (Tables), b 19; sum and difference of angles (Trigonometry), b 599, a 600
Sinecurist's Creed (Hone), XII, a 139
Sine inductor, Kohlrausch and Nippoldt (Electricity), VIII, b 45-7
Sinepuxent bay (Maryland), XV, a 609
Sines (Logarithms), XIV, b 780, b 781, a 782, b 784; expansions of (Trigonometry), XXIII, b 605, a b 606
Sineus, legend of (Russia), XXI, *a* 96
Sinfonia (Music), XVII, b 94, note
Singalese Jacinth, XIII, b 541
——, Sinhalese or Singhalese language (Ceylon), V, a.b 318; (Dictionary), VII, a 166. See Tamil
—— race (Ceylon), V, b 314, a b 316, a 317, a *b* 318, a b 319; (Veddahs), XXIV, *b* 131
SINGAPORE, dependency (Plan), XXII, a 100-1; city, a b 101; (Hastings, Lord), XI, a 462; (Libraries), XIV, b 533; (Pepper), XVIII, a b 527; (Raffles), XX, a 227; (Straits Settlements), XXII, a *b* 615
—— Straits, XXII, a 100
Singara, town and mountain (Mesopotamia), XVI, a 53; battle of, 348 (Persia), XVIII, a 620
SINGBHUM or Singboom, district, XXII, b 101-2
Singeing (Bleaching) (Ill.), III, b 706-7
Singelitch, Stephen, commander (Nish), XVII, b 527
Singer, Isaac Merritt, inventor (Sewing-Machines), XXI, a 755, b 918, a *b* 919, a 920

Singers, castrated (Eunuch), VIII, a 586; strolling (Tyrol), XXIII, b 758

Singh, title (Punjab), XX, a 117

Singhalese. See Singalese

Singhara nut (Kashmír), XIV, a 13

Singháráj, mountain (Ganjam), X, a 63

Singidunum, town (Belgrade), III, b 459; (Mœsia), XVI, a 566; (Theodoric), XXIII, a 276

Singine, river (Freiburg), IX, *b* 670

Singing (Voice), XXIV, b 294–6. See Music, Song

—— Flames, IX, a 249; (Acoustics), I, b 107–8

——, Penillion (Eisteddfod), VII, a 687, note

Single current system (Telegraph) (Ill.), XXIII, a 131

Singo, country (Uganda), XXIII, a 765

Singphos, tribe of Assam, II, a 631

Sing Sing, town (Prison Discipline), XIX, b 772; (Reformatories), XX, a b 902, a 903

Singspiel, comic opera (Himmel), XI, b 746; (Music), XVII, a 106

Singularities (Curve), VI, a b 635, *b* 636; defined (Surface), XXII, a b 703, note, b 704; isolated (Surface), b 703, b 704

Sinba, kings of India (Inscriptions), XIII, b 126

Sinhalese. See Singalese

Sinh-ka-bab, river (Indus), XII, b 888

Sinibuldi. See CINO DA PISTOIA

SINIGAGLIA, city, XXII, a 102

Sinigrin, compound (Mustard), XVII, *b* 119

Sinim of Isaiah (China), V, b 544. See Sin or Sinæ

Si-ning or Siningfu, town (Lhasa), XIV, a 497; (Tibet), XXIII, *a* 364

Sinitius, St., bishop (Soissons), XXII, a 261

Sinjar, mountains (Mesopotamia), XVI, b 52, a 54, a 55. See Singara

——, sultan (Seljuks), XXI, *b* 667

Sijibu or Sinjibulus, prince (Turks), XXIII, a 701, note

Sinkarah, lake and town (Sumatra), XXII, *a* b 672

Sinkil, town (Sumatra), XXII, b 672

Sinking fund (Finance), IX, a 158, *a* 160, a 161, b 162; (National Debt), XVII, *a* 252

Sinking Spring valley (Pennsylvania), XVIII, b 509

Sinks, conical hollow (Florida), IX, *b* 296

Sinnabreh or Sinnabris, town (Galilee), X, a 28

Sinnamary, river (Guiana), XI, a 225, a 226

Sinner, Johan Rodolphe, philologist (Leopardi), XIV, b 465

SINOPE or Sinub, town, XXII, a b 102; (Greece), XI, a 86; (Numismatics), XVII, a 662; (Pericles), XVIII, a 542; (Paphlagonia), a b 231; (Persia), b 590 note; (Phrygia), a 864, note, a 865

Sinté, race (Gipsies), X, b 545 note

Sinter, mineral (Mineralogy), XVI, a 406; (New Zealand), XVII, a 481

Sinton, barony (Selkirk), XXI, b 669

Sinub, town. See SINOPE

Sinuessa, council of, 303 (Marcellinus), XV, b 539

Sinupallia, sub-order (Mollusca), XVI, a 711, a 712

Sinúsí, Mohammed el-, sectary (Tripoli), XXIII, b 612

Sinus of Valsalva (Anatomy), I, a b 791, a b 792

—— venosus (Anatomy), I, b 790; (Amphibia), b 669–70

Sion or Sitten, diocese of (Valais), XXIV, a *b* 37; town (Switzerland), XXII, b 816; (Valais), XXIV, *a* *b* 37

—— College, guild, London (Libraries), XIV, a 516

Sionita, Gabriel, scholar (Maronites), XV, b 569

Sioule, river (Puy de Dôme), XX, b 125, *a* 126

Sioux, tribes (Indians), XII, b 867–8, a *b* 872; (Nebraska), XVII, b 318; land cessions (St. Paul), XXI, b 198; massacre by (Minnesota), XVI, a 500

SIOUX CITY, Iowa, XXII, b 102

Sipahí, soldier. See SEPOY

Sipan Dagh, mountain (Van), XXIV, a 60

SIPHANTO, Sipheno or Siphno, island, XXII, b 102–3

Siphere, treatise (Mishnah), XVI, a 531

Siphneus, genus (Mammalia) (Ill.), XV, b 424

Siphocampylus caoutchouc (India-Rubber), XII, b 879

SIPHON or Syphon (Ill.), XXII, a 102; (Barometer) (Ill.), III, b 329, b 331; (Hydromechanics), XII, a 451; (Mining), XVI, a 479; conduit- (Water-Supply), XXIV, a 430

—— (Mollusca) (Ill.), XVI, a 689, b 691, a 701; (Touch), XXIII, b 508; (Teredo), *b* 201; notch (Mollusca), XVI, a 713, b 716

Siphoneæ, order (Vegetable Kingdom), XXIV, a *b* 137

Siphonochlamyda, sub-order (Mollusca), XVI, a 672, a b 673

Siphonodentalium, genus (Mollusca), XVI, a 689

Siphonophora, order (Hydrozoa) (Ill.), XII, b 580, *a* 583, b 585, *b* 586, a *b* 587, a 588, a 598 9; (Morphology), XVI, *b* 868; (Parasitism), XVIII, a b 265; (Sex), XXI, a 756

——, genus (Myriapoda) (Ill.), XVII, a 126; (Wheat) (Ill.), XXIV, a 565

Siphonopoda, branch (Mollusca), XVI, a 691–a 710

Siphon recorder (Telegraph) (Ill.), XXIII, b 134–5

Siphro (Mishnab), XVI, b 530–1

Sipontum, colony (Manfredonia), XV, b 486

Sippade, Pierre de la, novelist (Romance), XX, b 675

Sipunculidæ, family (Annelida), II, *a* b 63, a 64

Sipuneuloidea, class (Polyzoa), XIX, a 444

Sipylus, mountain (Asia Minor), II, a 617; (Ionia), XIII, b 210; (Niobe), XVII, *a* 527; (Pelops), XVIII, b 490, a 491; (Tantalus), XXIII, *a* b 53

Sir (Title of Honor), XXIII, b 444

Sirach, Jesus, son of, XIII, a 683; (Apocrypha), II, a b 159, a 160; (Proverbs), XIX, b 906, *a* 907, a 908; *Book of* (Gospels), X, a 718

Siraf, town (Teak), XXIII, a 110 note

SIRÁJGANJ, town, XXII, b 103

Siraj ud Daulah. See Suraj ud Dowla

Siraks, race (Russia), XXI, a 86

Siran, river (Punjab), XX, b 112

Sir Andrew Wylie (Galt), X, *b* 43

Sirang, island (Ceram), V, b 299

Sirani, inhabitants of Bachian, III, b 170

Sir Anthony Love, play (Southerne), XXII, b 303

"Sir Archy" (Horse), XII, b 207

Sirdar, chief (Baluchistan), III, a 262

Sir-Daria. See SYR-DARIA

Sire-aa, river (Norway), XVII, b 589

SIREDON, amphibian, XXII, b 103–5; (Amphibia), I, a 660, b 664, a b 668, *a* 668*, a *b* 669, a 670, a 671, b 672, a 673, *b* 674; skull of (Amphibia), *a* 666–7

Sir Edward Pellew islands (Caroline Islands), V, a 112

Sir Edward Seaward's Diary (Porter), XIX, a 542

SIREN, amphibian, XXII, a 105; (Amphibia), I, b 658, a 659, a 660, *b* 664, *b* 665, a 668, a 670, b 672, b 673, a 674, a b 675, *a* b 676; olfactory organs of (Smell), XXII, b 176

—— (Monster), XVI, a 791

——, machine (Music), XVII, a 111. See Syren

Sirenia, order (Cetacea), V, b 310; (Mammalia), XV, a 392–5; anatomy of (Mammalia), b 350, b 356, b 362, b 363; classification of (Mammalia), *a* b 375, *b* 386; eye of (Mammalia), a 370; hearing of (Mammalia), b 370; heart of (Mammalia), b 367; reproductive organs of (Mammalia), b 370, b 372; respiration of (Mammalia), b 368

Sirenidæ, family (Ichthyology), XII, a 725

SIRENS, myths, XXII, a b 105

Sirgujá, state (Chutiá Nágpur), V, *b* 671

Siricidæ, family (Hymenoptera), XII, a b 607, a 608, *b* 610; (Insects), XIII, b 154

SIRICIUS, pope, XXII, b 105; (Clergy), V, b 722; (Popedom), XIX, b 505, 523

Sir-i-pul, province (Afghânistân), I, b 216, a 217, a b 218

Siris or Suino river (Lucania), XV, a *b* 39

Siris (Berkeley), III, a 510

—— bronzes (Bronze), IV, a 332; (Metal-Work) (Ill.), XVI, b 78

Sirius, star (Geology), X, a 192; (Photometry), XVIII, b 856; companion of (Telescopic Work), XXIII, b 935

Sir John Oldcastle (Drayton), VII, b 390

Sir Lancelot Greaves, novel (Smollett), XXII, b 194

Sir Martin Marall (Dryden), VII, a b 423

Sirmione, promontory (Garda), X, b 68

Sirmium, town (Pannonia), XVIII, b 217. See Mitrovic

SIRMUR, state, XXII, b 105

Sirocco, wind (Africa), I, a 230; (Climate), VI, b 5; (Malta), XV, b 342; (Sahara), XXI, a 159; (Sicily), XXII, a 35; (Syria), a 861

SIROHI or Seeroee, state and town, XXII, b 105–6

Siros, Serres or Sirrhæ, town. See SERES

Sirpea, vehicle (Carriage), V, b 118

"Sir Peter" (Horse), XII, *b* 188

Sir Roger de Coverly (Steele), XXII, b 555

SIRSA, district and town, XXII, a b 106; town (Bhatniár), III, a 544

Sir Tristrem, poem (Thomas of Erceldoune), XXIII, b 329

Sirturus, astronomer (Telescope), XXIII, b 147

Sirumalais, hill (Madura), XV, b 193

Siryenians, people (Finland), IX, a 191; language (Ural Altaic), XXIV, a 5, a 7

Sisal, hemp (Fibres, Textile), IX, a 116; (Mexico), XVI, a 226, b 903, a b 911; (Yucatan), XXIV, a 796. See Henequen

Sisapon. See Almaden

Siscia, town. See SZISZEK

Sisenna, Lucius Cornelius, historian (Herculaneum), XI, b 646, note; (Romance), XX, a 650

Sisera, general (Israel), XIII, b 411

Sisim, river (Yeniseisk), XXIV, a b 779

SISKIN, bird, XXII, b 106–7

Siskyou, county and mountains (California), IV, b 618

SISMONDI, Jean Charles Leonard de, historian, XXII, a 107–8; (Political Economy), XIX, b 389, a b 396–7; (Switzerland), XXII, b 837–8

Sisserskite (Mineralogy), XVI, a 399

SISTÁN, Seistan or Sejistán, county (Map), XXII, a 108–9; (Afghânistân) I, a b 204, *a* 206, b 207, a 214, a 216; (Ghúr), X, a b 509; mission (Persia), XVIII, a b 665

Sisters, succession through (Family), IX, a b 18, a 19
—— of Charity (Kaiserswerth), XIII, b 834; (Monachism, XVI, a 739; (Seton), XXI, b 916–7
Sistine Chapel (Ghirlandajo), X, b 507; (Michel Angelo), XVI, a b 240–1, b 242–3; (Perugino), XVIII, a 695; (Rosselli), XX, a b 879; *Miserere of* (Mozart), XVII, a 15; music (Mendelssohn), XVI, b 11; (Palestrina), XVIII, a 183, a b 185
SISTOVA, town, XXII, b 109; treaty of, 1791 (Turkey), XXIII, a 689
SISTRUM, rattle, XXII, b 109
Sisupala-badha (Sanskrit), XXI, b 297, note
SISYPHUS, myth, XXII, b 109–10
Sisyrinchium, plants (Horticulture), XII, a 260
Sitábaldí, station (Nágpur), XVII, *b* 171
Sitákund, hill (Chittagong), V, b 586
SITÁPUR, district and town, XX, a b 110
Sîta Râm, mountain (Afghânistân), I, a 205
Sitaris (Insects), XIII, b 153, b 155
Sitavorok, peace of, 1606 (Turkey), XXIII, b 685
Sitch, Cossack (Russia), XXI, a 87
Sitgreaves, Lorenzo, explorer (Surveys), XXII, a 936
Sitifis, town. See Setif
Sitka, town (Alaska), I, *b* 393, a 394; (California), IV, b 649; (Meteorology), XVI, a 126
Sitoung, Sittang or Tsittoung river (Shwe-Gyeng), XXI, *a* b 889; (Toungngu), XXIII, b 517
Sitric, king (Ireland), XIII, a b 258, b 259
"Sits," displacements (Coal), VI, b 60
Sittang river (Burmah), IV, a b 492; (Burmah, British), *b* 499, *a* 500
Sittella, birds (Nuthatch), XVII, a 685
Sitten, town. See Sion
Sittenlehre, Kritik der bisherigen (Schleiermacher), XXI, a 428
Sitter river (Appenzell), II, *a* 184
Sittidæ family (Nuthatch), XVII, b 684–5; (Tree-Creeper), XXIII, a 568
SITTINGBOURNE, town, XXII, b 110
Sitting Bull, chief (Indians), XII, a 872
Sittl, Karl, philologist (Romance Languages), XX, b 678 note
SIUT, town, XXII, b 110; (Egypt), VII, b 672
Siva, deity (Brahmanism), IV, *a* b 187, a 188, a 189; (Drama), VII, a 343; (Orissa), XVII, *b* 869; hymns to (Tamils), XXIII, b 48; trident to (Barahat), III, a 308
Sivagiri, town (Tinnevelli), XXIII, b 431
Sivaites, Brahman (Jájpur), XIII, a 555; temples of (Khandwa), XIV, a 59
Sivají the Great, king (India), XII, a 834, b 838, a 842, a 848; (Mahrattas), XV, b 293
Sivakási, town (Tinnevelli), XXIII, b 431
SIVÁS or Siwas, pashalic and town, XXII, b 110–1
Sivasamudram, island (Káveri), XIV, *a* 21
Sivash. See Putrid Sea
Sivertson, Sylvester, journalist (Norway), XVII, a 605
Síwa, god, shrine of (Sa'di), XXI, a 151
Siwah or Siwa, oasis of (Africa), I, *a* 224; (Dictionary), VII, b 167; (Egypt), a 680; (Oases), XVII, a 715
Siwálik fossiliferous beds (India), XII, *b* 773
—— hills (Dehra Dún), VII, *b* 30; (Himalaya), XI, a 736, a 739, a 744; (Sirmúr), XXII, b 105
Siwalikálik Hills (Saháranpur), XXI, *a* 160
Siward, earl of Northumberland, the Strong (England), VIII, a b 261; (Northumberland), XVII, b 584–5; (Scotland), XXI, b 502; (York), XXIV, b 789
Six, Jan, burgomaster (Rembrandt), XX, a 389, a 390
"Six Acts" against sedition (England), VIII, b 326; (Londonderry), XIV, a 866
Six Articles of Henry VIII. (Articles), II, b 571; (Cranmer), VI, b 487; (Cromwell, Thos.), VI, b 535; (England, Church of), VIII, a 337; (Gardiner, S.), X, *a* 70; (Women), XXIV, a 674
Six Jewels of the Law (Pâli), XVIII, b 189
Six Nations (Indians), XII, b 867, a b 871; (New York), XVII, a 466; claim (United States), XXIII, a b 794
Sixteen, faction of the (Paris), XVIII, b 296, a 297
Sixteenth century, events of, B.C (Chronology), V, b 625; A.D. (Chronology), a 638–42
Sixth century, events in, B.C. (Chronology), V, b 625; A.D. (Chronology), a 629
Sixtine chapel. See Sistine
SIXTUS I., pope, XXII, a 111
SIXTUS II., pope, XXII, a 111
—— II., pope (Lawrence, St.), XIV, a 371
SIXTUS III., pope, XXII, a 111
SIXTUS IV., pope, XXII, a b 111; (Alexander VI.), I, a 431; (Cardinal), V, a b 86; (Catherine), a 201; (Immaculate Conception), XII, b 754; (Inquisition), XIII, a 100; (Italy), a 491 (Julius II.), a 781; (Kabbalah), b 822; (Medici), XV, a *b* 796; (Popedom), XIX, a 518, b 524; (Reformation), XX, a 337; (Rome), b 823–4; (Wessel), XXIV, a 533
SIXTUS V., pope, XXII, b 111–2; (Cardinal), V, *a b* 86; (Carnival), a 109; (Fontana, D.), IX, *a* 318; (Inquisition), XIII, a 101; (Jesuits), a 659; (Mary), XV, b 598; (Popedom), XIX, a b 519, b 524; (Roman Catholic Church), XX, b 645; (Rome), a 844
Siyáma, town (Bulandshahr), IV, b 461
Sizars, Trinity College, Dublin (Farquhar), IX, b 36; (Goldsmith), X, a 677
Size, idea of (Eye), VIII, b 724–5; organ of (Phrenology), XVIII, b 859
Sizeboli, town (Apollonia), II, b 163
Sizing (Painting), XVIII, a 144; (Paper), b 224, a 225, a b 226, b 228
Sjælland, island. See ZEALAND
Sjöberg, Erik, poet (Sweden), XXII, b 795
Sjōmalm, iron ore (Sweden), XXII, b 778
Skadar, town. See SCUTARI
Skagen or Scaw, peninsula (Denmark), VII, b 70
Skager Rack, sound (Baltic Sea), III, b 253, *a* 256; (Norway), XVII, a 591, a *b* 594
Skagit, river (Washington), XXIV, b 406, b 407
Skai, wind (Denmark), VII, a 71
Skáldskaparmál or Art of Poetry (Edda), VII, a 564
Skallagrimson, Egill, poet (Scandinavian Languages), XXI, a 384
Skané, Scania or Skaania, district (Sweden), XXII, *a* 775, b 776, a 778, *b* 779, a b 783, b 784, a b 786, *a b* 788
Skane Law (Scandinavian Languages), XXI, *b* 389
Skaptar-Jōkull, volcano (Geology), X, a 215, b 219; (Iceland), XII, b 652
Skär, islands (Baltic Sea), III, b 255
Skaraborg, province (Sweden), XXII, a 778, b 780
Skardo, town (Ladác), XIV, a 199
Skarga, Peter, polemic (Poland), XIX, b 312, a 313
Skärgard, coast formation (Norway), XVII, a b 590, a 593; (Sweden), XXII, a b 775
Skarvefjelde, glacier (Greenland), XI, a 149
Skat, card game (Saxe-Altenburg), XXI, b 262
—— tribute (Udal), XXIII, a 763
Skate, fish (Ray), XX, b 312
—— -Leech, XIV, a 404
Skates, XXII, a b 112; (London), XIV, a 855
SKATING, amusement, XXII, a 112–3
Skazki, tales (Russia), XXI, b 111, a 118
Skeat, Walter William, philologist (Alliteration), I, *a b* 516; (Barbour), III, b 315; (Chatterton), V, b 386, a 389 (English Language), VIII, a 358; (Scotland), XXI, a 566. See List of Contributors
Skeireins (Goths), X, b 757
Skeleftea Elf, river (Sweden), XXII, a 774
SKELETON, bony frame, XXII, a 113–27
  appendicular skeleton b 124–7
  axial skeleton, a 117–24
  basis of comparative relations, a b 114
  bibliography, b 127
  cartilaginous cranium, a 121–2
  caudal vertebræ, a b 120
  cervical vertebræ, a b 119
  cranial skeleton, b 121–4
  definitions, a 113
  dermal exemplifications, a b 116
  development of bones, a b 117
  dorsal vertebræ, b 119–20
  epidermal appendages, a b 115
  epidermal exemplifications, b 115–6
  external parts, vertebrate, b 114–7
  fishes, appendicular skeleton of, b 126–7
  histiology, epidermal, b 114–5
  indoskeleton, a 117–27
  invertebrates, b 113–4
  limb-girdles, a b 125
  lumbar vertebræ, a 120
  mandibular appendages, b 123–4
  nature of appendicular parts, b 127
  paired limbs, b 124–6
  pectoral limbs, b 125–6
  pelvic limbs, a b 126
  ribs, a b 121
  sacral vertebræ, a 120
  skull, b 122–4
  spinal skeleton, a 118–21
  sternum, b 120–1
  vertebrates, b 114–27
  visceral arcs, b 123–4
—— (Actinozoa), I, b 120, *a* 121; (Amphibia), b 658–68; (Anatomy) (Plates XII, XIII, XIV), I, a 719–30, b 751; (Ape) (Ill.), II, a 138–43; (Birds), III, b 605–27; (Cuttle-Fish) (Ill.), VI, a b 651–2; (Horse), XII, a 182–3; (Ichthyology) (Ill.), a 677–86; (Mammalia) (Ill.), XV, b 357–63; (Megatherium) (Ill.), a b 838; (Mole) (Ill.), XVI, b 631–2; of Nautilus (Mollusca), b 700, a 701; (Reptiles), XX, b 458–68; (Sponges) (Ill.), XXII, b 431–4; (Tortoise), XXIII, b 484, a 485
—— dials (Clocks), VI, a 31
—— key (Lock), XIV, b 750
Skeleto-trophic tissues (Mollusca), XVI, b 656, a 657, a 661, a 662
Skellings, rocks (Ireland), XIII, a 222
SKELTON, John, poet, XXII, a 127–8; (English Literature), VIII, b 370–1
Skene, William Forbes, archæologist (Celtic Literature), V, b 261, b 272, *b* 273, a *b* 274, *b* 275, a 276, a b 284; (Gaelic), X, *b* 12; (Scotland), XXI, a 496 note, b 499 note
——, Loch (Scotland), XXI, a 549
Skeppsbro, quay (Stockholm), XXII, a 587

Skeppsholmen, island (Stockholm), XXII, b 587
Skepticism. See SCEPTICISM
Skerries, town (Dublin), VII, a b 427
Skerryvore Lighthouse (Plate VII), XIV, a 621, a 623, a 626, b 636
Sketch Book (Irving, W.), XIII, b 383; (Libraries), XIV, a 516
—— *Book* (Raphael), XX, b 286–7, note
Sketches by Boz (Dickens), VII, *a* b 151
—— *in the Holy Land and Syria* (Roberts), XX, a 613
Sketch of a Philosophy (Lamennais), XIV, a 241
Skew-bevel-wheels (Mechanics) (Ill.), XV, a b 765, a 769
Skewed Arch (Ill.), II, b 289–91
Skewer, wood (Dogwood), VII, a 297
Skew quadrilateral (Geometry), X, b 374
—— -symmetry (Projection), XIX, b 818–9
Skhar-dagh. See Scodrus
Skiamachia (Drummond), VII, b 415
Skid or Skee of Norway (Snowshoe), XXII, a 213 note
Skiddaw, mountain (Cumberland), VI, *b* 615, *a* 616; (England), VIII, a 196
—— slates (Geology), X, b 294, a 298; (Westmorland), XXIV, a 543, a 544
Skiddy, bird (Rail), XX, b 229
Skidegate inlet (Queen Charlotte Islands), XX, b 176, a 177
Skien Elv, river (Norway), XVII, b 589
Skiff, boat (Rowing), XXI, b 36
Skilip, drug (Scammony), XXI, b 381
Skill (Fine Arts), IX, a b 172
Skilled workmen (Forge), IX, b 363; (Wages), XXIV, a 333
SKIMMER, bird, XXII, a b 128; (Gull), XI, a 243
Skin, integument (Amphibia), I, a b 668*; (Anatomy) (Ill.), b 787–8; (Ichthyology), XII, b 675–7; (Leather), XIV, b 380–1, a b 391; (Nemertines), XVII, a 337; (Snakes) (Ill.), XXII, b 200–1, b 208; (Trematoda), XXIII, a 570; of birds (Taxidermy), a b 96; excretion of (Nutrition), XVII, a b 704; prepared as Parchment, XVIII, a 276; repair of (Pathology) (Ill.), b 368, a 370, a b 371; sensitiveness of the (Touch), XXIII, b 510–1. See Cuticle, Epidermis, Epithelium, Integumentary system
—— in Shipbuilding (Ill.), XXI, b 857–8; resistance of, XXI, a 847
—— Bottles (Ill.), IV, b 152–3
—— cancers (Pathology) (Ill.), XVIII, b 389–90
——, goldbeaters' (Gold), X, b 670
SKIN DISEASES, XXII, b 128–32
  classification, b 128
  inflammatory affections, a 130–1
  neuroses, b 131
  nutritive disorders, a 129–30
  parasitic disorders, b 131–2
  secretive disorders, b 128–9
—— (Hydropathy), XII, a 577–8; (Parasitism), XVIII, a b 274; (Pathology), b 384–7, b 389–90; (Vaccination), XXIV, b 31
Skin-grafting (Tagliacozzi), XXIII, a b 26
Skinks (Lizard), XIV, b 738, b 741
SKINNER, John, poet, XXII, a b 132; (Poetry), XIX, b 284
SKINNER, John Stuart, agriculturist, XXII, a 906
SKINNER, Thomas Harvey, divine, XXII, a 906
Skioldunga, history (Iceland), XII, a 661
Skioldungar, dynasty (Sweden), XXII, a 783
Skip, wagon (Coal), VI, b 64; (Mining) (Ill.), XVI, b 477
Skipetars, people (Greece), XI, b 75, a 78
Skip-jack, beetle (Insects), XIII, b 149; (Wheat), XXIV, b 566
Skipper, fish (Gar-Fish), X, b 72
——, moth (Butterflies) (Plate XXIX), IV, a 530
SKIPTON, town, XXII, b 132
Skirret, plant (Horticulture), XII, b 300
"Skirter" (Hound), XII, b 329
Skirtings, joiner's (Building), IV, b 441–2
SKIRVA, town, XXII, b 134
SKITTLES, game, XXII, b 132–3
Skivers, skins (Leather), XIV, a 389
Skjægaard. See Skärgard
Skjelderup, Michael, medical writer (Norway), XVII, b 606
Sklo, springs (Galicia), X, a 24
Skobeleff, Mikhail Dmitrievitch, general (War), XXIV, b 377–8
Skollis, mountain (Elis), VIII, a 130
Skopas, mountain. See Scopas
Skopeli, town (Odessa), XVII, b 746
Skopin, town (Ryazañ), XXI, b 124
Skoplie, town. See USKUP
Skoptsy or Skopzy, sect (Eunuch), VIII, a 586; (Europe), b 625; (Russia), XXI, b 90
Skovgaard, painter (Denmark), VII, a 82
Skræling (America), I, a 620
SKUA or Skooi, bird, XXII, a b 133; (Gull), XI, a 243
Skull (Amphibia) (Ill.), I, a 660–8, b 674; (Anatomy), a 721–3, a 724, b 728–9; (Anthropology), II, b 95, a 96, a 99; (Ape) (Ill.), a 138–9; (Archæology), b 295, b 296; (Birds) (Ill.), III, b 605–21; (Horse), XII, a 180–1; (Hydrocephalus), b 448, a 449; (Ichthyology) (Ill.), b 677–80, b 682, a b 683, a b 684–6; (Mammalia), XV, a 358–9, b 392–3; (Manatee) (Ill.), a 464; Phalanger (Ill.), XVIII, a b 741, a 742; (Plesiosaurians), XIX, a b 232; (Reptiles) (Ill.), XX, a 462–5; (Scott), XXI, b 570, note; flattening of (Indians), XII, a 864; fracture of (Insanity), XIII, a 107; of arctomys monax (Mammalia) (Ill.), XV, b 422; of Cape Jumping hare (Mammalia), b 420; of carnivora vera (Mammalia), a 440; castor (Mammalia) (Ill.), b 421; centetes (Mammalia) (Ill.), a 409; of chiroptera (Mammalia), b 410–1; of cynomys (Marmot), b 567; of dasyurus (Mammalia) (Ill.), b 381; of dendrohyrax (Mammalia), a 428; of dinotherium (Mammalia), b 431; of dolphin (Mammalia) (Ill.), b 395; of elephant (Mammalia) (Ill.), b 429; of erinaceus (Mammalia) (Ill.), b 406; of eupleres (Mammalia), b 443; fiber zibethicus (Mammalia) (Ill.), a 423; hemicentetes (Mammalia) (Ill.), XV, a 409; of hyænodon (Mammalia) (Ill.), a 449; of hydrochærus (Mammalia) (Ill.), a 425; of hydropotes (Mammalia) (Ill.), a 438; of hystrex cristata (Mammalia) (Ill.), a 421; of koala (Mammalia) (Ill.), a 382; of mesotherium (Mammalia), b 432; narwhal (Mammalia) (Ill.), XV, a 402; of otaria (Mammalia) (Ill.), XV, b 419; of proteles (Mammalia), b 443; of rhinopoma (Mammalia) (Ill.), a 418; of sloth (Mammalia) (Ill.), b 387; of sorex (Mammalia) (Ill.), a 407; of sperm whale (Mammalia) (Ill.), b 399; of thylacoleo (Mammalia) (Ill.), a 386; of tillotherium (Mammalia), b 438; vertebral theory of the (Oken), XVII, a b 772, a b 773
"Skull tower" (Ispahán), XIII, a 406
SKUNK, mammal (Ill.), XXII, b 133–4; (Fur), IX, a 736, a 737; (Mammalia), XV, a b 446; (Polecat), (Ill.), XIX, a b 344
Skupi, town. See USKUP
Skupshtina, legislature (Servia), XXI, a 720
Skutterudite (Mineralogy) (Ill.), XVI, b 407
Sky, color of the (Twilight), XXIII, b 716; (Wave Theory), XXIV, b 479
——, cult of (Zeus), XXIV, b 820
SKYE, island, XXII, b 134–5; (Hebrides), XI, b 542; (Inverness), XIII, a 205, b 206; (Scotland), XXI, a 543, *a b* 544, *a* 545, *b* 549, *a* 550
—— terrier (Dog), VII, b 287
Skylark (Birds), III, a 667, a 668; (Lark) (Ill.), XIV, a b 315; (Thrush), XXIII, b 342 note
Sky-scraper (Sail), XXI, b 161
Slack, Henry (Microscope), XVI, b 270
—— barrels (Cooperage), VI, b 300
Sládek, Josef Vaclav, poet (Slavs), XXII, a 162
Slag (Copper), VI, *a b* 309, a b 312; (Iron), XIII, b 295, b 314–5; (Lead), XIV, a b 376; (Metallurgy), XVI, b 66, b 67–8; analysis of basic process (Iron), XIII, a b 356; of manganiferous (Iron), b 360–1; in steel-making (Iron), b 342, a b 344; volcanic (Geology), X, a 217
—— and cinder mortar (Building), IV, b 410
Slagelse, town (Zealand), XXIV, a 810
Slag Glass, X, a 593
Slamannan, district (Coal), VI, a 51
SLANDER, LIBEL AND, XIV, b 504–7; (Damages), VI, a b 695; (Witchcraft), XXIV, b 656
Slaney river (Carlow), V, a 98; (Ireland), XIII, a 249; (Wexford), XXIV, b 549, a b 550
Slang (Dictionary), VII, b 160, *b* 161, a 162, a 163
Slangapiesberg, range (Transvaal), XXIII, a 550
Slashing, ornamentation (Costume), VI, a b 418, a b 419
SLATE, rock, XXII, b 135–6; (Alum), I, b 567, a b 568; (Argyllshire), II, b 439; (Cornwall), VI, a 377; (Cumberland), a 616; (Devonshire), VII, b 121; (Geology), X, b 212; (Merioneth), XVI, b 43; (Michigan), a 248; (Mineralogy), a 386; (Mining) (Ill.), a b 475, a 476, b 482; painting on (Sebastiano), XXI, b 646; patent (Building), IV, a 419; qualities of (Building), a 448; variegated (Geology) (Ill.), X, a 272
—— coal (Mineralogy), XVI, b 448
SLATER, Samuel, manufacturer, XXII, a b 906; (Pawtucket), XVIII, b 450; (Patents), b 880; (Rhode Island), XX, b 538
Slater-work (Building) (Ill.), IV, a 448–9
Slaughter-houses (London), XIV, *b* 837. See ABATTOIR
Slave Coast (Africa), I, a 241
Slave-hunting (Laos), XIV, a 295
Slave insurrection, Roman (Sicily), XXII, a b 27, a 28; (Spartacus), a b 385
Slave-making Ants, II, a *b* 86
Slave ports, fever at (Quarantine), XX, b 162–3
"Slave power, the" (United States), XXIII, b 817–8, a b 819, a 820

SLAVERY, XXII, a 137–53
  African slave trade, a b 146–7, a 152–3
  anti-slavery movement, b 149–51
  bibliography, b 153
  Brazil, a b 151
  Christianity, influence of, b 142–3
  Coloni, disappearance of, a b 144
  condition of Greek slaves, *b* 138–9
  Congo Free State, a b 153
  Cuba, a 151
  Diocletian system, b 143–4
  disappearance of serfdom, a 145–6
  emancipation in Greece, a b 139
  emancipation, Roman, b 141–2
  employments in pagan, b 138, a b 140
  England, b 145, b 146–8, b 149–50
  France, a 145, b 148–9
  function in human progress of, a b 137
  Greece, ancient, a 138–9
  Helots, b 139
  laws of Rome, b 140
  modern slave trade, a 146–9
  Mohammedanism, a 152–3
  moral effects of, b 137, b 141
  overthrow of slave trade, a 147–8
  reforms, Roman, a b 142
  Rome, ancient, a 140–3
  Russian serfdom, b 151–2
  serfdom, mediæval, a 143–5
  sources of Greek, a b 138
  sources of Roman, a 140
  South Sea revivals of slave trade, b 151
  Spanish, b 145, a b 146, a 151
  treatment of Roman slaves, a b 141
  United States, a 150–1

—— (Algeria), I, a b 499; (Arabia), II, a b 218; (Arago), a 265; (Argentine Republic), b 435; (Asylum), b 722; (Bahamas), III, b 204; (Barbadoes), b 310, b 311; Brazil, IV, b 210, a 211; XXII, a b 151; (America), I, b 617; (Savings Banks), XXI, b 346; (Brissot), IV, a 314; (Burmah), b 494; (Buxton, Sir Thomas Fowell), b 534–5; (Cairnes), a 571; (Cape Colony), V, b 40, a 41, a 43; (Cape Verd Islands), a 46; (Clan), a 699; (Clarkson), b 710–1; Cuba, VI, *b* 603; XXII, a 151; (Derby, Earl of), VII, b 96; (England), VIII, a 292; (France), IX, *a* 471; (Free Trade), a 662; (Gladiators), X, a 563; (Guiana), XI, b 223, *b* 224–5; (Hayti), *b* 486–7; (Helps), a 571; (Hottentots), XII, b 326, a 327; (Indian Archipelago), a 858; (Ireland), XIII, b 262, b 263; (Kashkar), XIV, b 11; Labor), a b 166, note, a 167, b 168–9; (Las Casas), XIV, a b 320; (Madagascar), XV, b 172, a 174; (Marriage), b 575; (Mexico), XVI, b 227; (Morocco), b 861; (Nepal), XVII, b 352; (Normandy), b 551; (Persia), XVIII, b 640; (Philemon, Epistle to), b 755; (Poor Laws), XIX, b 495; (Portugal), a 561; (Quakers), XX, b 157–8; (Shans), XXI, *a b* 810; (Siam), a b 892; (Stoics), XXII, a 598; (Trinitarians), XXIII, a 611; (Wilberforce), XXIV, b 596–7; (Witness), *b* 657
SLAVERY, American, XXII, a 150–1, b 906–10
  abolitionism, modern, a b 909
  authorities, a 910
  colonial sentiment, a 908
  congressional contest, b 909–10
  constitutional epoch, b 908–9
  emancipation, effects of, a 910
  legal status, a 907–8
  origin, b 906–7
  protests, early, a b 908
  slave trade, a 907

—— (Adams, J. Q.), I, b 131; (America), a 596, a 624; (Brown, John), IV, b 346; (Buchanan), b 371; (California), a 616; (Clay, H.), V, a 715; (Douglas, S. A.), VII, a 327; (Fillmore), IX, a 145; (Franklin), a 632; (Gallatin), X, a 37; (Garrison), a 77–8; (Greeley), XI, a b 144; (Hopkins), XII, b 162; (Jefferson), XIII, b 624, a b 625–6; (Ohio), XVII, a 759; (Penn), XVIII, b 507, a 508; (Quakers), XX, b 892; (Swisshelm), XXII, b 941; (United States), XXIII, b 800–1, b 815, b 817; abolition of, XXII, a b 909, a 910; (Lincoln), XIV, b 665–7; (Republican Party), XX, b 905–7; (Sedgwick), XXI, *a* 915; (Seward), a 741–5, note; (United States), XXIII, b 800, a *b* 829; constitution on (United States), a 797, b 799, a 830; cotton trade, influence of (United States), XXIII, a 806; disunion and (United States), b 822; (Yancey), XXIV, a 922; labor effects of (Protection), XIX, a 939; (United States), XXIII, b 817, a 818, a 829, b 831; representation accorded to (United States), a 797, a 817; secession war and (United States), a b 824, a 825, a *b* 829; territorial contest (United States), b 794–5, b 811, a b 816–7, b 818, *a b* 819–20, a 821. See Abolitionists, Emancipation, Missouri Compromise, Secession
——, British modern (Gold Coast), X, b 673; (Picton), XIX, a 90
——, Greek, XI, b 84–5, a 90, b 101; XXII, a 138–9; (Areopagus), II, b 425; (Club), VI, b 38; (Costume), a b 402; (Helots), XI, a 570; (Torture), XXIII, a 491; emancipation (Inscription), XIII, a 129; theories of (Political Economy), XIX, a b 362, a 363
——, Hebrew (Essenes), VIII, b 486, a 487; (Israel), XIII, *b* 418; (Jubilee), b 769
——, *Poems on* (Longfellow), XIV, b 871
——, Roman, XXII, b 137, a 140–4; (Christianity), V, *b* 605; (Club), VI, a 39; (Labor), XIV, a b 166; (Patron), XVIII, a b 423; (Torture), XXIII, a 491–2; heirship of (Roman Law), XX, *a* 710; jus civile (Roman, Law), XX, a 706; jus naturale, a 722; Justinian Code, b 732
——, Turkish, XXII, a 152; (Greece), XI, a b 109; (Smith), XXII, b 84
——, Utopian (Communism), VI, a 190
Slaves, statues (Michel Angelo), XVI, a 241
Slave Ship, painting (Turner), XXIII, b 709
Slave trade, XXII, a b 146–9, b 151, a 152–3, a 907; (Badakhshan), III, a 193; (Brazil), IV, a 210; (Brougham), a 338; (Columbus), VI, a b 156; (Commerce), a 181; (Congress), b 240; (Denmark), VII, a 77; (Egypt), b 665; (England), VIII, a 307, b 322, b 325; (International Law), XIII, a 197; (Israel), b 440; (Jamaica), b 560; (Joel), *a* 716; (Laos), XIV, a 295; (Liverpool), b 723; (Livingstone), b 727, a 728; (Mecca), XV, b 678; (Negro), XVII, *b* 326, b 328, a 329; (Persia), XVIII, b 662; (Phrygia), b 865; (Pitt), XIX, a 153; (Portugal) a 569; (Prize), b 787; (Roscoe), XX, b 871; (Slavery), XXII, a 146–9, a 907; (Thompson) XXIII, a 331; (United States), a b 782, a 788, b 790, a 797; (Yellow-Fever), XXIV, *b* 772; Grecian (Slavery), XXII, a b 138; Indian (America), I, b 617, a 622; Roman, XX, a 804; (Slavery), XXII, a 140, a b 143; South Pacific (Slavery), b 151
—— -trade companies (Slavery), XXII, b 906
Slavinia, district (Pomerania), XIX, *b* 457
Slavism at Dorpat (Universities), XXIII, b 901
SLAVONIA and Croatia, province, VI, a 523–4; (Hungary), XII, *a* b 375, b 377, *a* b 378, *a b* 379, *a b* 380, *a b* 381, a b 386, b 388
Slavonians, race (Pilgrimage), XIX, b 100; (Russia), XXI, b 74, a 75, *a* b 85, b 88; (Slavs), XXII, b 155–6; (Ural Mountains), XXIV, b 7; (Yaroslavl), a 768
Slavonic Antiquities (Schafarik), XXI, a 403
—— congress (Prague), XIX, b 679
—— insurrection (Austria), III, a b 119
—— languages (Alphabet), I, a 539, a 540; (Bulgaria) IV, b 462; (Dictionary), VII, a b 163; (Europe), VIII, a b 615; (Germany), X, b 422, a 423; (Philology), XVIII, b 798, b 799; (Slavs), XXII, a b 155, a 156–9, a 160, a 163–4; name for God (Theism), XXIII, b 254
—— literature (Bowring), IV, b 164; (Hanka), XI, b 393–4; (Hanusch), b 404; (Libraries), XIV, b 514; (Mickiewicz), XVI, a 250; (Periodicals), XVIII, a 555; (Robinson), XX, a 623, note; (Slavs), XXII, a b 159, a 160–3; *Histories of* (Russia), XXI, a 117
—— Land tenures, XIV, a 263
—— liturgy (Methodius), XVI, a 202
—— *MSS.* (Illumination), XII, a 747
—— Missions, XVI, b 535–6
—— music, character of (Chopin), V, b 595
—— printing (Typography), XXIII, b 740
SLAVS, race, XXII, a 153–64
  classical accounts, b 154–5
  distribution of, a b 153
  LANGUAGES AND LITERATURES, a 156–64
    Bohemian or Czech, a 160–3
    Bulgarian, a 158–9
    characteristics in general, a b 157
    classification, a 156–7
    Early Bohemian, a 160–1
    Lusatian-Wendish, a b 163
    modern Bohemian, b 161–3
    Polabish, b 163–4
    Polish and Kashoubish dialects, a 160
    Reformation period in Bohemia, a b 161
    Russian dialects, b 157–8
    Servian, a b 159
    Slovak, a 163
    Slovenish, b 159–60
    Sorbish, b 163
  names of chief divisions of, b 155–6
  origin, b 153–5
  Schafarik's theory, a b 154
  Wocel's theory, a b 155

—— (Alps), I, a 557; (Austria), III, b 102, a 119; (Germany), X, b 427, a 430, b 431, a 432, a 433, a 434, b 435; (Greece), XI, *a* 76, b 100, b 103, b 104; (Hanseatic League), b 403; (Herzegovina), b 692, *b* 693; (Hungary), XII, a 389; (Illyria), b 748; (Justinian I.), XIII, a 807; (Khazars), XIV, a b 62; (Methodius), XVI, a 202; (Moravia), a 837; (Moses of Chorene),

- Slavs, *continued* a 890 note; (Vlachs), XXIV, a 288, a 289, a b 290; early position of (Prussia), XX, a *b* 6; first appearance of (Poland), XIX, b 296, *b* 297; use made of name (Slavery), XXII, a 137 note
- ——, officials (Spain), XXII, a 328, *b* 329, *a* 330
- SLAVYANSK, town, XXII, a 164
- *Slawischensprache, Geschichte der* (Schafarik), XXI, a 403
- Slaying, disease (Agriculture), I, b 320
- Sleaford, bay (South Australia), XXII, a 297
- Sleat, district and sound (Skye), XXII, *a* 135
- Sledge-hammer (Mining), (Ill.), XVI, b 464
- Sledges, Eskimo, VIII, a 482
- Sleeman, Sir William N., regulator (Thugs), XXIII, b 348
- SLEEP, XXII, a 164–8
  - distribution and amount of, b 166
  - dreaming, a b 167
  - hypnosia, a 167
  - insomnia, b 166–7
  - Mosso's experiments, b 165
  - phenomena of, a 164–5
  - physiology of, a 165–6
  - somnambulism, b 167–8
  - theories of, a b 166
- —— (Dream), VII, a 391, b 393-4; (Insanity), XIII, b 106; (Nutrition), XVII, b 689; deprivation of (Torture), XXIII, a 495, a 496; mesmeric (Magnetism, Animal), XV, a b 281; myth of (Endymion), VIII, a 187; pleasure of (Psychology), XX, a 76
- *Sleep, Sonnet to* (Pontus de Tyard), XIX, b 474
- Sleepers, ties (Railway), XX, b 251, a 253, a b 254, b 264
- Sleeping, botanical term (Lupine), XV, a 68
- *Sleeping Shepherd* (Gibson, J.), X, b 524
- Sleeplessness. See Insomnia
- Sleeves (Costume) (Ill.), VI, a b 412, *a b* 413, a b 414, *a* 416, *a b* 417, *a b* 418, a 419, *a* 420, b 421, a *b* 422, *a* 423
- SLEIDANUS, John, historian, XXII, a b 168
- Sleighing (Canada), IV, b 679, a 681
- Sleight of hand (Legerdemain), XIV, a 415-6
- Slesvig. See SCHLESWIG
- Slick, Sam, pseudonym (Haliburton), XI, a b 342
- Slickensides, joints (Geology), X, a 263, a 267
- Slicker, tool (Leather) (Ill.), XIV, b 386, a 387
- Slide in Trombone, XXIII, b 623, a b 624
- Slide Mountain (United States), XXIII, b 843
- Slide-rest (Lathe) (Ill.), XIV, b 324; (Machine Tools) (Ill.), XV, a b 154, a b 155
- Slides (Magic Lantern) (Ill.), XV, b 212, b 213
- —— in mines (Mining), XVI, a 483
- Slide valve (Steam-Engine) (Ill.), XXII, b 523-8; backed with expansion valve (Steam-Engine) (Ill.), b 527, a 528; Green's (Steam-Engine), b 921; Otto's (Steam-Engine), b 551
- —— valve blowers (Iron), XIII, a 310
- Sliding contact (Mechanics) (Ill.), XV, b 744, a b 765–9
- —— -seat, boat's (Rowing), XXI, a b 37, *a* b 38
- Slieu Chairw, mountain (Man), XV, b 457
- Slievebaughty mountains (Galway), X, b 50, b 51
- Slievebawn mountains (Roscommon), XX, b 872
- Slieve Bloom mountains (King's County, Ireland), XIV, *b* 88, a b 89; (Queen's County), XX, a b 177
- —— Donard, mountain (Down), VII, *a* 331; (Ireland), XIII, b 221
- —— Foy, mountain (Ireland), XIII, b 221
- —— Gamph, range (Sligo), XXII, a 169
- —— Gullion, mountain (Armagh), II, *a* 478; (Londonderry), XIV, a 863
- —— Snaght, mountain (Donegal), VII, a 313
- —— True, mountain (Carrick Fergus), V, a b 121
- Sligo Bay, XXII, a 168
- SLIGO, county, XXII, b 168–9; town, *a b* 169
- Slim, range (Malay Peninsula), XV, b 323
- Sling, motion of (Mechanics), XV, b 722
- Slings (Seamanship) (Ill.), XXI, *a* 619, b 621
- Slingsby, Sir William, monopolist (Glass), X, a 583
- Sling Thermometer, XXIII, b 310-1
- Slip (Pottery and Porcelain), XIX, b 618, b 636–7
- Slipping cable (Seamanship), XXI, b 627
- Slips (Harbors and Docks), XI, a b 420
- ——, garden- (Horticulture), XII, a 223
- Slip-stopper (Anchor), II, b 8, a b 9
- Slitrig, river (Roxburgh), XXI, b 39
- Slitting mill (Iron), XIII, a b 338
- SLIVEN or Slivno, town, XXII, b 169-70
- Slivovitza, drink (Servia), XXI, b 719
- Sloan-Duployan system (Shorthand), XXI, b 879
- SLOANE, Sir Hans, physician, XXII, a b 170; (Chelsea), V, *b* 396; (Library), XIV, a 514; (Kaempfer), XIII, a 825; (Ornithologist), XVIII, a 9 note; (Pharmacopœia), b 744; collection of (Taxidermy), XXIII, b 95
- Slobosia, island (Giurgevo), X, a 557
- Slodtz, Paul Ambroise, sculptor, XXII, b 170
- SLODTZ, René Michel, or Michel Ange, sculptor, XXII, b 170
- ——, Sebastien, 1st and 2d, sculptors, XXII, b 170
- Sloe, tree (Botany) (Ill.), IV, b 86, b 131; (Plum), XIX, a 242
- Slojd instruction (Technical Education), XXIII, a 115
- Slokas, couplets (Sanskrit), XXI, a 290
- SLONIM, town, XXII, b 170
- Sloop rig (Seamanship) (Ill.), XXI, a 623, a *b* 628
- Sloppesbury, town. See SHREWSBURY
- Slopuchowski, Andrew, prior (Poland), XIX, a 311
- SLOTH, mammal (Ill.), XXII a 171–2; (Bear), III, b 398, b 399; (Megatherium), XV, a b 838; anatomy of (Mammalia), b 350, a 360, b 362; circulation of (Mammalia), a 367; classification of (Mammalia), b 374, b 386, *a* b 387–8; Hoffman's (Anatomy), I, b 719, a b 720, b 741; (Mammalia), XV, a 360; reproductive organs of (Mammalia), b 370, a 373
- Slotting (Machine Tools) (Ill.), XV, a 157
- SLOUGH, town, XXII, a 172
- Slovaks, race (Hungary), XII, *b* 379; (Slavs), XXII, b 153, a b 157; language of (Dictionary), VII, b 163; (Slavs), XXII, a 163
- Slovenes, race (Roumania), XXI, *a* 21; (Slavs), XXII, b 153, a 155, a *b* 156, *a b* 157; language of (Dictionary), VII, b 163; (Slavs), XXII, *a* b 158, b 159–60
- Slovtsoff, historian (Tobolsk), XXIII, b 458
- Slowacki, Julius, poet (Poland), XIX, *b* 315, a 316
- Slow-worm (Lizard), XIV, b 741
- Slubbing frame (Cotton) (Ill.), VI, b 436–8, b 439
- Sluggas, pits (Ireland), XIII, b 222
- Sluggishness (Magnetism), XV, b 252
- Slugs (Mollusca) (Ill.), XVI, b 684–7; (Snail), XXII, b 197–8; connective tissue (Histology) (Ill.), XII, b 9
- Sluice (Hydromechanics), XII, b 549; construction of (Irrigation), XIII, a 375, *b* 377; in pipe (Hydromechanics), XII, b 512–3; in placer mining (Gold) (Ill.), X, b 663–4, a 665; turbine (Hydromechanics), XII, a b 562
- Slutcha, river (Slutsk), XXII, a 172
- Sluter, Claux, sculptor (Sculpture), XXI, a b 589
- SLUTSK, town, XXII, a 172
- Sluys (Froissart), IX, b 702–3; battle of, 1340 (Finance), IX, a 157; (France), b 481
- Sluze, mathematician (Infinitesimal Calculus), XIII b 29
- Smaa-kongar, kings (Denmark), VII, *a* 74; (Sweden), XXII, b 782, a 783
- Smack, vessel (Fisheries), IX, a 216
- Smalkald, town. See SCHMALKALDEN
- ——, *Articles of* (Creeds), VI, b 499; (Luther), XV, a 85
- ——, League, 1531 (Charles V.), V, b 359, b 360; (Germany), X, *b* 447; (Luther), XV, a b 82, a 84, a 85; (Reformation), XX, *a* b 346
- Smallage, plant (Celery), V, b 252
- Small arms (Gunmaking), XI, b 246–53
- SMALL-POX, disease, XXII, a 172–4; (Homœopathy), XII, b 129, b 131; (Hygiene), a 601; (Jenner), XIII, a 634–5; (Medicine), XV, a 815; (Pathology), XVIII, a 412, a 413, a 414; (Quarantine), XX, b 161, b 162; (Vaccination), XXIV, a 33–5
- Smalridge, George, bishop (Atterbury), III, a 49
- Smaltine, mineral (Cobalt), VI, b 75; (Mineralogy), XVI, b 406
- Smalts, color (Cobalt), VI, b 76, a 77; (Metallurgy), XVI, b 66; (Pigments), XIX, *b* 95
- SMART, Christopher, poet, XXII, b 174-5
- ——, Sir George (Weber), XXIV, b 496
- ——, Henry, violinist (Metronome), XVI, b 206
- ——, John (Annuities), II, a *b* 66, *a* b 67
- *Smarta-sútras* (Sanskrit), XXI, a 288
- Smead system (Ventilation), XXIV, a 175
- SMEATON, John, engineer, XXII, a b 175; (Canal), IV, *b* 691, a 692; (Diving Bell), VII, a 256; (Glasgow), X, b 570; (Harbors and Docks), XI, a 409, a 416, a 422; (Lighthouses), XIV, b 620–1, b 636; (Steam-Engine), XXII, b 492
- ***Smectymnuus***, pseudonym (Calamy), IV, b 578; (Hopkins, E.), XII, a 162; (Milton), XVI, a 341
- Smedley, John, manufacturer (Hydropathy), XII, b 575, a 578
- Smee, Alfred, physicist (Electro - Metallurgy), VIII, a 108
- SMELL, sensation, XXII, b 175–8
  - nature of, b 175
  - nose, interior of (Ill.), b 177
  - olfactory organs, b 175–7
    - amphibious animals a 176
    - birds, a b 176
    - fishes, b 175–6
    - mammalia, b 176–7
    - shelled animals, b 175
  - physical causes of, a 177–8
  - special physiology, a b 178
- —— (Anatomy), I, a b 777; (Ant), II, b 85; (Bee), III, a b 421; (Cat), V, b 179; (Crustacea), VI, a 564; (Fine Arts), IX, b 171; (Ichthyology), XII, a b 689; (Magnetism, Animal), XV, b 284; (Mammalia), a 370; (Reptiles), XX, a b 475; (Taste), XXIII, *a* 86. See Nasal, Nose, Olfactory Nerves

Smellie, William, editor (Encyclopædia), VIII, *a b* 182
Smelt, fish (Ichthyology), XII, a 715, a 732; (Salmonidæ), XXI, a 232, a 234, a 236
——, Thomas, critic (Rymer), XXI, a 127
Smelting (Copper), VI, b 308-10; (Iron) (Ill.), XIII, b 297-326; (Lead), XIV, b 375-6; (Nickel), XVII, b 500-1; (Tin), XXIII, b 427; furnaces (Coke), VI, a 109; works (Omaha), XVII, a 793
Smerdis, son of Cyrus (Cambyses), IV, a 648; (Persia), XVIII, a b 579
——, pseudo, impostor (Darius I.), VI, a 726; (Persia), XVIII, a 580, a 581; in *Ezra* (Artaxerxes), II, a b 561
Smerwick, fort, Ireland (Raleigh), XX, a 274
Smet, Peter John de, missioner, XXII, a b 910
Smethwick, town, XXII, b 178
Smeton, Mark, paramour (Boleyn), IV, b 5, a 6
Smew, bird (Merganser), XVI, a b 40
Smichow, suburb (Prague), XIX, a 679
Smikite (Mineralogy), XVI, a 418
Smil of Pardubitz, poet (Slavs), XXII, b 160
Smilax, genus (Botany), IV, a 94, b 102, a 103; (Sarsaparilla), XXI, *a b* 328, *a* 329
Smilis of Ægina, sculptor (Archæology), II, b 305
Smillie, George H., painter, XXII, b 910
Smillie, James, engraver, XXII, b 910
——, James D., painter, XXII, b 910
Smilovsky or Smilauer, Vaclaff, novelist (Slavs), XXII, a 162
Sminthinæ, sub-family (Mammalia), XV, b 423
Smirke, Robert, painter, XXII, b 178-9
Smith, Adam, economist, XXII, a 179-81
  authorities, b 181
  continental travels, b 179
  education, a 179
  ethical theory of, b 180-1
  Glasgow professorship, a b 179
  literary work of, b 180-1
  personal qualities, b 180
  political economy of, a b 181
  retired life, b 179-80
—— (Agrarian Laws), I, a 257; (Agriculture), b 367; (Apprentice), II, a *b* 186; (Capital), V, *a* 65; (Ethics), VIII, a b 531; (Finance), IX, a 159; (Franklin, B.), a 628; (Free Trade), a *b* 662, a 666, b 667; (History), XII, *b* 25; (Hume), a 363, b 364; (Hutcheson), a 426, a 427; (Leslie), XIV, a 478; (Money), XVI, b 755; (Political Economy), XIX, a 366, a 373, a 374, a 377, a b 378-83, b 387, *a* 388, note, b 392, a 396; (Protection), a 937; (Quesnay), XX, b 183-4; (Say), XXI, a b 370; (Shipping), *a* b 867; (Slavery), XXII, a 145; (Smuggling), a 195; (Socialism), *a* 219, b 222, a 230; (Sumptuary Laws), a 679; (Taxation), XXIII, b 91, note, a b 92, a b 93, a b 94, a 95; (Turgot), b 669, note, a 670; (Value), XXIV, a b 52; (Wages), b 325-6, b 327, a b 328, b 329, a b 330, *a* b 331; German influence of (Political Economy), XIX, b 400-1; Müller on (Political Economy), a b 402
Smith, Albert, humorist, XXII, b 181-2
Smith, Alexander, poet, XXII, a 182
——, Sir Andrew, naturalist, *b*. 1797, *d*. 1872 (Ornithology), XVIII, b 20
——, Archibald, mathematician (Rope), XX, a 869; (Wave Theory), XXIV, a 451, a 474
Smith, Benjamin Bosworth, bishop, XXII, b 910
——, Bernard, organ builder (Organ), XVII, *b* 861
Smith, Buckingham, antiquary, XXII, b 910-11
Smith, Charles Ferguson, general, XXII, a 911
——, Charles Michie, meteorologist (Raingauge), XX, a 269. See List of Contributors
——, Charles Roach, antiquary (London), XIV, *a b* 851, a b 852
Smith, Colvin, painter, XXII, b 182
——, Edmund, poet (Philips), XVIII, a 769
——, Elizabeth Oakes, novelist, XXII, a 913
——, E. Brough, geologist (Australia), III, a b 94
——, Frederick, zoologist (Galls), X, *b* 40
——, George, orientalist (Cosmogony), VI, *a* 395; (Hamath), XI, *b* 358. See List of Contributors
——, G. Shergold, lieutenant (Nile), XVII, *a* 518, a 522
Smith, Gerrit, abolitionist, XXII, a b 911
——, Goldwin, publicist (Conington), VI, a 254; (Libraries), XIV, a 553; (Oneida Community), XVII, b 794, a b 795. See List of Contributors
——, Sir Harry, governor (Cape Colony), V, *a* 41; (Kaffraria), XIII, *a b* 827; (Orange River Free State), XVII, b 837
Smith, Henry Boynton, theologian, XXII, b 911; (Theology), XXIII, b 288; (Reformation), XX, a 350; (Woods), XXIV, a 914
Smith, Henry John Stephen, mathematician, XXII, b 182-3; (Numbers), XVII, b 639; (Microscope), XVI, b 282
Smith, Horace and James, poets, XXII, a b 183
——, Horace Wemyss, antiquary, XXII, b 913
Smith, James, patriot, XXII, b 911-2
——, James, of Deanston (Agriculture), I, b 271, b 277, a b 295
——, Sir James Edward (Botany), IV, a 71
Smith, James and Horace, poets, XXII, a b 183
——, Sir John, banneret, III, a 299
Smith, John, explorer, XXII, b 183-6
  American explorations, b 185-6
  author-period, a 186
  bibliography, b 186
  character of, a b 186
  European and Turkish adventures, a b 184
  Pocahontas romance, b 185
  Virginia colonization, b 184-6
  youth, b 183-4
—— (Aurelius), III, b 77; (Maine), XV, b 303; (Pocahontas), XIX, a 923
——, Sir John, soldier (Knighthood), XIV, b 122
——, John Blair, educator, XXII, b 912-3
Smith, John Lawrence, chemist, XXII, a 912; (Natural Gas), XVIII, b 897
Smith, John Raphael, painter, XXII, b 186
——, Joseph, prophet (Mormons), XVI, a 852
——, Joseph, divine (Savings Banks), XXI, b 342
——, Leigh, explorer (Polar Regions), XIX, a 337
——, Lenox, engineer (Iron), XIII, b 339 note
—— of Lois Weedon, clergyman (Agriculture), I, b 304, b 316-8
——, Murdoch, colonel (Persia), XVIII, b 636
Smith, Nathan, physician, XXII, a 912
——, Nathan, jurist, XXII, a b 912
Smith, Nathan Ryno, physician, XXII, a 912
——, Nathaniel, jurist, XXII, a 912
——, N. Wiley, inventor (Telegraph), XXIII, a 930
——, Pearsall, evangelist (Plymouth Brethren), XIX, b 250
Smith, Robert, statesman, XXII, b 912
——, Robert, mathematician, *b*. 1689, *d*. 1768 (Wave Theory), XXIV, a 446, note
——, Robert Angus, chemist, *b*. 1817, *d*. 1884 (Atmosphere) III, *b* 32; (Geology), X, a 197, note, a 238 note; (Mining), XVI, a b 481
Smith, Samuel, general, XXII, b 912
Smith, Samuel Stanhope, educator, XXII, b 912-3
Smith, Seba, humorist, XXII, a 913
Smith, Sydney, wit, XXII, b 186-8; (Jeffrey), XIII, *a* 628
Smith, Sir Thomas, jurist, XXII, a b 188; (Cheke), V, a 396; (Torture), XXIII, a 494, note
——, Thomas, attorney (Sheffield), XXI, b 822
Smith, William, geologist, XXII, b 188; (Geology), X, a 291, a 314; (Lyell), XV, a 103; (Phillips), XVIII, a b 772, a 773
Smith, William, provost XXII, a b 913
——, William of Wollston, farmer (Agriculture), I, *a* b 280-1, b 301
Smith, William Henry, moralist, XXII, b 188-9
——, William Moore, jurist, XXII, b 913
——, William Penn, dramatist, XXII, b 913
——, William Rudolph, antiquary, XXII, b 913
Smith, Sir William Sidney, admiral, XXII, a b 189; (Knighthood), XIV, a 126; (Napoleon I.), XVII, a b 208; (Portugal), XIX, a 566
Smithfield markets (London), XIV, a *b* 837, a b 838, *a* 856; races (Horse), XII, b 203
Smith's Bellows (Ill.), III, b 474
Smithson, Hugh, duke of Northumberland, XXII, b 913; (Percy), XVIII, b 534
——, Harriet, actress (Berlioz), III, b 516, a 517
——, James, physicist (Smithsonian Institution), XXII, b 913, a 914
Smithsonian Institution, XXII, b 913-6
  building, b 914
  ethnology, a b 915
  fish-commission, b 915-6
  foundation of, b 913-4
  methods, b 914-5
  national museum, b 915
  officers, a 915
  policy, a b 914
—— (Libraries), XIV, b 541; (Signal Service), XXII, b 903; (Societies), a 233, b 234
Smithsonite (Mineralogy), XVI, b 414
Smith's Sound (Baffin's Bay), III, a 198; (Greenland), XI, b 148, *a* 150, a 151, a 153
Smithtown Bay (Long Island), XIV, a 876
Smith-work (Building), IV, b 456
Smithy (Forge), IX, a 366
Smoke (London), XIV, b 836, a 855
Smoke Abatement, XXII, b 189-92
  boiler smoke, b 191
  combustion, a b 190
  domestic fires, a b 191
  economy of, b 190
  fuels not bituminous, b 191-2
  gas fuels, a b 192
  history, b 189-90
  literature, b 192
  methods of, b 190-1
—— condensation (Lead), XIV, a 376; test for leaks (Sewerage), XXI, a 752, note
Smoking, recreation (Opium), XVII, b 811, b 815; (Philippine Islands), XVIII, b 766; (Pipes), XIX, a 120; mixtures (Tobacco), XXIII, a 454
Smoky chimneys (Building), IV, a 417

- Smoky mountains (Appalachian Mountains), II, b 175; (North Carolina), XVII, a 572; (United States), XXIII, b 844
- Smokyhill, river (Kansas), XIII, a 852, *a* 853
- SMOLENSK, government, XXIII, b 192-3; (Russia), XXI, a 76, b 79, a 88, a *b* 98, b 100, b 102, a b 106
- SMOLENSK, city, XXII, a b 193; (Russia), XXI, b 96, b 98, b 100, a b 102
- SMOLLETT, Tobias George, novelist, XXII, b 193-5; (Cervantes), V, b 309; (English Literature), VIII, b 383
- Smolt, growth stage (Salmonidæ), XXI, a b 235
- Smooth bore ordnance (Gunnery) (Ill.), XI, a 271, a b 272
- Smoothing table (Glass), X, b 590-1
- Smooth Snake, XXII, b 204
- —— spheres, impact of (Mechanics), XV, b 727-9
- *Smriti-chandrika* (Sanskrit), XXI, b 302, note
- *Smritis* (Sanskrit), XXI, b 301-2
- "Smuggler" (Horse), XII, b 208, *b* 209
- SMUGGLING, fraud, XXII, a b 195; (Finance), IX, a b 161, b 163; (Ireland), XIII, a 226, b 235, b 275; (Taxation), XXIII, a 93
- Smut, disease (Agriculture), I, b 265
- SMYRNA, city (Plan), XXII, b 195-7; (Greece), XI, b 122; (Homer), XII, a b 112; (Ionia), XIII, b 210, a 211; (Mimnermus), XVI, a 357; (Nemesis), XVII, a 341; (Numismatics), a 664; (Opium), a b 811, note, a 814; (St. John of Jerusalem), XXI, b 183; earthquake at (Aristides), II, a 445
- ——, gulf of (Ionia), XIII, b 211
- Smyth, Charles Piazzi, astronomer (Aurora), III, b 80, a 83, b 86; (Gyroscope), XI, a 316; (Meteorology), XVI, b 187-8; (Rainband), XX, *a* 268; (Spectroscopy), XXII, *a b* 389; (Zodiacal Light), XXIV, *b* 835, a *b* 836, a 837
- ——, John, sectary (Independents), XII, a 763
- Smyth's puddling process (Iron), XIII, a 335
- Snaefell, mountain (Man), XV, b 457
- Snæfellsjökull, mountain (Iceland), XII, a 652
- Snæhætten, mountain (Norway), XVII, a b 589, b 592
- SNAIL, Gasteropod, XXII, b 197-8; (Hibernation), XI, b 704; (Mollusca) (Ill.), XVI, b 684-6; (Reproduction), XX, a 422, b 424; (Trematoda), XXIII, b 571-2, *b* 574; pond-, development of (Mollusca), XVI, b 659-61; river-, development of (Mollusca), a 662
- —— of striking work (Clocks), VI, b 23-4
- SNAKE-BIRD (Ill.), XXII, a 198-9; (Wryneck), XXIV, a 734
- —— charmers (Egypt), VII, a 630; (India), XII, b 781; (Snakes), XXII, a b 207
- —— clans (Totemism), XXIII, a 497, b 498
- —— -fly (Insects), XIII, a 158
- —— (Gourd, XI, a 6
- —— Island (Anquilla), II, a 43
- —— poison, XXII, b 201-2; (India), XII, b 781; (Rattlesnake), XX, a 306, note; antidote (Guaco), XI, a b 202; (Gumbo), a 245; deaths from (Madras), XV, b 185. See Poison, Venom
- —— river (Idaho), XII, *a* 736; (Oregon), XVII, *a* b 846, b 847; (United States), XXIII, b 848; (Washington), XXIV, *a* 407, b 408; (Wyoming), b 748; (Yellowstone Park), b 773
- SNAKE-ROOT, drug, XXII, a 199; (Guaco), XI, b 202
- SNAKES, reptile (Ill.), XXII, a 199-210
  - Æsculapius's snake, b 204-5
  - Australian poisonous colubers, b 207-8
  - boas (Ill.), b 206
  - bungarus, b 207
  - burrowing varieties, b 204
  - causidæ, a 208
  - classification, b 202-4
    - colubriformes, b 202-4
    - hopoterodontes, b 202
    - venomous colubers, a 204
    - viperiformes, a 204
  - cobras (Ill.), b 206-7
  - death-adder, Australian, b 209-10
  - distribution and habits, b 199-200
  - egg-eaters (Ill.), a b 205
  - food of, a b 201
  - Indian rat species, b 204
  - integuments, b 200-1
  - lizards, relation to, b 199
  - mouth, a 201
  - narrow-mouthed species, b 207
  - ophiophages, b 207
  - poison and remedies, b 201-2
  - ring snake, a 205
  - sea snake (Ill.), b 208-9
  - smooth snake, b 204
  - tic-polonga, a 210
  - tree-snakes, b 205-6, a b 208
  - viperine (Ill.), b 209-10
  - whip (Ill.), a b 206
- —— (Arabia), II, a 212; (Assam), b 630; (Ceylon), V, b 315; (Hibernation), XI, b 704; (Ichneumon), XII, b 665; (India), a b 781; (Mimicry), XVI, a 354, a 356; (Natal), XVII, a 247; (Pennsylvania), XVIII, a b 513; (Reptiles), XX, *b* 445, b 452-3, b 457, a b 461, a 464-5, a b 469, a b 470, *a* 478, b 479, *b* 480, a b 481, a *b* 482, a b 483, a *b* 484, a b 485, a b 486, a b 487; (Skeleton), XXII, b 118, a *b* 119, a 120, *a* 121, a 123, b 124; (Smell), *a* 176; (Touch), XXIII, a 509; (Venezuela), XXIV, a 151; (Western Australia), b 536. See Serpent and specific names
- Snakes' heads, accident (Railway), XX, *b* 230 note
- SNAKE-STONE, XXII, b 210
- Snake tribes (Indians), XII, b 866, a 873
- Snaking (Seamanship) (Ill.), XXI, *b* 618
- "Snap" (Horse), XII, *b* 187, *a b* 188
- —— action, treble grip (Gunmaking) (Ill.), XI, a 249, a 250
- Snapdragon, plant (Botany), IV, a 120, a 121, a 136, b 139; (Horticulture), XII, b 255
- Snape, Andrew, farrier (Veterinary Science), XXIV, b 214
- Snaphaan, A. D., painter (Mieris), XVI, b 301
- Snaphaunce (Gunmaking), XI, b 246
- Snapper, fish (Australia), III, b 97
- ——, turtle (Tortoise), XXIII, b 487
- Snap tackle (Angling), II, b 32-3
- *Snarley-yow*, tale (Marryat), XV, b 576
- Snarling (Enchasing), VIII, a 173
- SNEEK, town, XXII, b 210-1; (Friesland), IX, a 690
- Sneeuw Berg, mountains (Cape Colony), V, a 38
- Sneezing (Respiration), XX, b 493-4
- SNELL or Snellius, Wellebrord, astronomer, XXII, a 211; (Earth), VII, a 516; (Light), XIV, a 594; (Navigation), XVII, b 261 note; (Squaring the Circle), XXII, b 451-2
- Snelling, Fort (Minnesota), XVI, a 500
- Snellius, Rudolph, mathematician (Arminius), II, *b* 483
- Snelus's analysis of cast-steel (Iron), XIII, b 343; his converter lining (Iron), b 355, b 356 note
- SNETHEN, Nicholas, divine, XXII, a b 916
- Sniadecki, brothers, authors (Poland), XIX, b 317
- Sniggling for eels (Angling), II, a 40
- SNIPE or Scolopax, bird, XXII, a 211-2; (Birds), III, b 653, a b 655, note, a b 668, note, a 670; Shooting, XXI, a 874; (India), XII, a 781
- Snipping (Jute), XIII, a b 812
- Snitterfield, village (Shakespeare), XXI, b 778-9, a 781, b 783, a 801
- Snoilsky, Karl, count, poet (Sweden), XXII, b 796
- Snoring (Respiration), XX, a 494
- SNORRO STURLUSON or Snorri, historian, XXII, a b 212; (Edda), VII, b 563; (Haco V.), XI, b 322; (Iceland), XII, *a* 658, b 659, *b* 660-1; (Scandinavian Languages), XXI, a b 384
- Snotingaham, town. See NOTTINGHAM
- Snotra, goddess (Æsir), I, b 190
- Snow (Canada), IV, b 679, 681, a 682; (Geology), X, a 249 (Himalaya), XI, b 741; (Japan), XIII, a 583; (Meteorology), XVI, b 120, a 139, a b 159; (Mineralogy), b 387; (Norway), XVII, b 592; (Siberia), XXII, a 11; (Switzerland), b 815; electrified (Thunderstorm), XXIII, b 350
- ——, J., physician (Cholera), V, b 593, a 595
- Snowball tree (Guelder Rose), XI, a 217
- Snow-blindness (Ophthalmology), XVII, a 807
- Snow-Bunting, IV, b 470
- Snowdon, mountain (Carnarvon), V, *a* 105
- SNOWDROP, plant, XXII, b 212-3; (Horticulture), XII, b 258
- ——, tree (Arboriculture), II, a 281
- Snow-finch, bird (Linnet), XIV, a 682
- Snowflake, plant (Horticulture), XII, a 259
- Snow gauge (Raingauge), XX, a 269
- —— goose (Goose), X, a 692
- —— line (Alps), I, b 555, *b* 556; (Asia), II, a 604; (Climate), VI, *a* 4; (Ecuador), VII, a 561; (Glacier), X, a b 559; (Himalaya), XI, b 736-7, b 741-2; (Meteorology), XVI, b 159; (Mexico), a 226, note; (Siberia), XXII, b 10, note
- Snow-mass, mountain (Colorado), VI, b 145
- —— Partridge, XVIII, a 339
- Snow-plant, red (Algæ), I, b 448
- SNOWSHOES, XXII, a 213
- Snowy Owl, bird, XVIII, a 93, a 94
- Snuff (Adulteration), I, a 158; (Tobacco), XXIII, b 454-5
- SNYDERS, Franz, painter, XXII, a b 213
- Soane's Museum, Sir John (Alabaster), I, b 389; (Libraries), XIV, a 517
- SOAP, XXII, b 213-6
  - analysis, a 216
  - characteristics, b 213-4
  - commerce, a 216
  - curd soap, b 214
  - history, b 213
  - manufacture, a 214-5
  - marine soap, a 215
  - silicate soap, a 215
  - soft soap, a b 215
  - toilet and medicated soap, b 215
- —— (Alchemy), I, b 410; (Bristol), IV, a b 316; (France), IX, b 460; (Gram), XI, b 33; (Italy), XIII, a 464; (Marseilles), XV, a 580; (Oils), XVII, a b 761, *a b* 765, b 766, a 767, a 768; (Perfumery), XVIII, a b 537; (Rosin), XX, b 875-6; arsenical (Taxidermy), XXIII, a 96
- SOAP BARK, XXII, b 216
- Soap-bubble colors (Light), XIV, b 613; tension (Capillary Action), V, a 51

Soap Nut, XVII, b 683, a 684
—— -rock (Mineralogy), XVI, b 443
—— weed (New Mexico), XVII, b 411
Soar, river (Leicester), XIV, a 424; (Nottingham), XVII, a b 612
Soares, Estevão, archbishop (Portugal), XIX, a b 557
—— de Pomba, João, poet (Portugal), XIX, a 570
Soba, city (Israel), XIII, a 415, note
Sobat, river (Africa), I, b 226; (Nile), XVII, a 520, a 521
Sobbing (Respiration), XX, a 494
Sobh of Cordova, queen (Spain), XXII, *b* 328, a 329
Sobha, beads (Rosary), XX, a 871
Sobieski, James, soldier (Poland), XIX, a b 308
——, John, king of Poland, XIII, a 725; (Filicaia), IX, a 143; (Hungary), XII, b 384-5; (Leopold I.), XIV, a 467; (Milton), XVI, b 249; (Poland), XIX, b 303 note, b 306, a b 307-8; (Warsaw), XXIV, b 396, b 397
——, instructions of (Poland), XIX, b 313
Sobki, biographer (Tabarí), XXIII, a 9
Soboles, stem (Botany), IV, b 87
Sobraniye or Sobranje, council (Russia), XXI, a 77
Sobraon, battle, 1846 (Lawrence, John L.), XIV, b 371; (Punjab), XX, a 118
Sobrarbe, county Spain), XXII, *a* 327, b 330
SOCAGE, tenure, XXII, b 216; (Burgage), IV, a 476; (Littleton), XIV, b 710; (Real Estate), XX, *a* b 318, note
Soc and Sac, right (Cinque Ports), V, b 687
Soccini, family (Siena), XXII, a 49. See SOCINUS
Soccolantes, religious order (Franciscans), IX, b 615
Sochaczew, town (Warsaw), XXIV, b 395
Sochan, river (Oxus), XVIII, a 107
Sociable Grosbeak (Weaver Bird), XXIV, a 489
—— Tricycle, XXIII, a 595
Social basis of morals (Schleiermacher) XXI, b 430
Socialborough, town (Rutland), XXI, a 123
Social character of Belief, III, a 462
—— compact (Government), XI, b 10, b 15; (France), IX, a 522; (Rousseau), XXI, a *b* 31, b 32
—— Democrats (Socialism), XXII, b 217, a b 226, *a* 227, a 228, b 229, *a* 231
—— dividend theory (Taxation), XXIII, a 92
—— feelings (Psychology), XX, a b 79, a 89
—— Guilds, XI, b 231
SOCIALISM, XXII, a 216-32
    Bakunin's anarchism, b 227-8
    Blanc, Louis, a 220-1
    capitalistic régime, a 223-4

SOCIALISM, *continued*
    changes implied, b 217-8
    chartism, b 221
    Christian forms of, b 221, b 227
    classification of schools, a b 229
    conclusion, b 231-2
    criticism of Marx, b 224-5
    Darwinism, analogies to, a 230-1
    divergent views of its advocates, b 217
    early forms, b 218-9
    economic principle, central, a b 217
    essence of, a b 218
    Fourier, a 220
    French anarchism, a b 228
    German socialism, rise of, a b 222
    international, b 225-6
    lawlessness of, examined, a 217
    leading definitions, b 216-7
    literature, b 232
    marriage and religion, a 231
    Marx, Karl, b 221-6
    nihilism, b 228-9
    origin of name, a b 216
    outlines, historical, b 219
    Owen, Robert, a b 221
    political economy of, b 229-30
    political relations of, a b 231
    results of bourgeois government, a b 224
    revolution of 1830, a 220
    Saint-Simon and Owen, a 219 20
    social-democracy, a b 226
    state-socialism, a 227
    surplus value, theory of Marx, b 222-4

—— (Bastiat), III, a 371; (Comte), VI, *a* 209, b 210; (Fourier), IX, b 432; (Germany), X, b 460, a 461; (Godwin, W.), b 639-40; (International), XIII, a 195, a b 196; (Lassalle), XIV, b 321-2; (Owen, Robert), XVIII, a 90 2; (Persia), a 622, a 623; (Political Economy), XIX, a b 393, b 406; (Proudhon), a b 892; (Prussia), XX, *a* 17; (Rodbertus), b 632; (Sacrifice), XXI, a b 143, *a* 146; (Saint-Simon), b 207-8; (Stoics), XXII, b 597-8; (Taxation), XXIII, b 92; (Tibet), a 367; (William, Emperor), XXIV, a 614
——, Christian, XXII, b 221, b 227; (Kingsley), XIV, a 90; (Maurice), XV, a b 644
Socialist organs (Newspapers), XVII, a b 440
"Socialists of the Chair," XXII, a 230; (Political Economy), XIX, a 397, a 407
Social legislation, British (Statute), XXII, b 487
—— life (China), V, b 581-3; (Georgia), X, b 389-90; (Macedonian Empire), XV, b 139; (Madagascar), a b 172; (Tahiti), XXIII, a 29; American, colonial (United States), b 779-80; 1790 (United States), a 801, a 802; 1840 (United States), b 813-4; Carlovingian (France), IX, a 470-1; Chinese (Drama), VII, a 347; (Mencius), XVI, *a b* 8, *a b* 9; Italian (Renaissance), XX, a b 399; Roman (Patron and Client), XVIII, a 421
—— science (Italy), XIII, a 522; (Locke), XIV, b 762-3; (Metaphysic), XVI, b 100; *Principles of*, Carey's (Political Economy), XIX, a 398
—— war, Greek (Ætolia), I, b 202; (Greece), XI, b 96-7; (Philip V.), XVIII, b 756
—— war, Roman (Italy), XIII, a 455; (Marius), XV, a 557; (Mithradates), XVI, a 554; (Rome), XX, a b 778; (Samnites), XXI, a 261; (Sertorius), a b 716; (Slavery), XXII, b 141; (Sulla), b 665-6
Società Nazionale (Italy), XIII, b 499
Societas in Roman law (Partnership), XVIII, b 334-5, a 337
Société d'Arcueil (Gay Lussac), X, *a* b 110
—— de l'Histoire de France (Guizot), XI, a 239
—— des Amis des Noirs (Slavery), XXII, b 148
—— Franklin, France (Libraries), XIV, b 525
—— Polytechnique, Paris (Societies), XXII, a 235
SOCIETIES, XXII, a 232-40
    agriculture and trade, a a b 239
    anthropology, b 237-8
    astronomy, b 236
    bibliography, b 240
    botany, horticulture, a b 237
    chemistry, b 236
    engineering, architecture, b 238-9
    geography, b 240
    geology, mineralogy, palæontology, b 236-7
    literature, history, archæology, b 239-40
    mathematics, b 236
    medicine, surgery, a b 238
    meteorology, a 237
    microscopy, a 237
    navy and army, a 239
    physics, b 236
    rise of, a 232-3
    SCIENCE IN GENERAL, b 233-6
        colonial, British, b 234
        European continent, a 235-6
        France, a b 235
        Germany and Hungary, b 235-6
        Great Britain, b 233-4
        Italy, a 236
        Netherland countries, a 236
        Russia, a b 236
        Scandinavia, a 236
        South and Central America, b 236
        Spain, a 236
        Switzerland, a 236
        United States, b 234-5

SOCIETIES, *continued*
    sociology, economic, legal, educational, a 238
    zoology, b 237

——, abolition (Slavery), XXII, *a* 909
——, Agricultural, I, b 270, a b 272; XXII, a b 239
—— of Antiquaries, II, a b 119; (Edinburgh), VII, b 575-6; (Societies), XXII, b 239
Society (Ballanche), III, a b 247; (Butler, Bishop), IV, a 522; (Comte), VI, a 208; (Confucius), b 231; (Family), IX, b 17; (Feudalism), b 105; (Fine Arts), a 171; (Fourier), a 432-3; (Government), XI, b 9, a b 10-1; physiocratic (Political Economy), XIX, a 372-3
Society, comedy (Robertson), XX, b 614
——, Methodist, XVI, a 194-9
——, political (Law), XIV, b 336, a b 357, a 358, b 359-60, a 363
—— for Collegiate Education of Women, XXIV, a 911
—— for Diffusion of Useful Knowledge (Brougham), IV, a 340
—— for Promoting Christian Knowledge (England), VIII, b 231
—— for Propagation of the Gospel (Bray), IV, b 198; (Missions), XVI, b 537, a b 538; (Talbot), XXIII, a 919
Society in America (Martineau), XV, b 590
Society Islands (Tahiti), XXIII, a b 27, b 29; (Williams), XXIV, b 617-8
—— of Arts (London), XIV, b 845; (Societies), XXII, b 233; of Arts, Commerce and Manufactures, London (Societies), b 233
—— of Four (Racine), XX, *b* 211, a 212
—— of Improvers in Scotland (Agriculture), I, a 269
—— of Le Bon Sauveur (Caen), IV, a 561
Socinianism (Decalogue), VII, a b 17; (Dogmatic), b 290; (Fuller), IX, a 714; (Inspiration), XIII, b 163; (Socinus), XXII, b 242, a 243
SOCINUS or Sozzini, Fausto Paolo, Unitarian, XXII, a *b* 241, a 242-3; (Jesus Christ), XIII, a 682; (Theism), XXIII, a 363; (Unitarianism), *a* 773
SOCINUS, Lelio Francesco Maria, theologian, XXII, b 240-2; (Jesus Christ), XIII, a 682
Sociological Societies, XXII, a 238
Sociology (Comte), VI, b 209, a b 210-1; (Ethnography), VIII, a 544-6; (Hegel), XI, b 553-4; (History), XII, b 22, b 24, b 25, b 26, a 27; (Hobbes), b 35, a 36, b 37, a 42; (Malthus), XV, b 346-7; (Philosophy), XVIII, a 806, b 809-10; (Political Economy), XIX, b 413-4; (Statistics), XXII, b 480-

Sociology, *continued*
  1; conditions of (Political Economy), XIX, b 360; *Principles of*, Spencer's (Government), XI, a 17 note; (Mythology), XVII, a 148–9
Socorro, mountains (New Mexico), XVII, a b 410
SOCORRO, New Mexico, town, XXII, b 243
SOCOTRO or Socotoro, island, XXII, b 243–4; (Africa), I, a 232, a 237, b 243–4; (Dragon's Blood), VII, a 337
SOCRATES, philosopher, XXII, a 244–51
  authorities, b 244–5
  bibliography, a b 251
  contemporary opinions of, b 246–7
  doctrine of, a 249-50
  ethical theory of, b 249-50
  method, dialectic, b 248-9
  mode of life, b 246
  personal qualities, a 245-6
  Plato's metaphysic, b 250-1
  political reasons for his death, a b 248
  public life, a b 244
  religious characteristics, a b 246
  social condition of, a 244
  Socratics, a 250–1
  trial of, a 247–8

—— (Æsthetics), I, *b* 193; (Alcibiades), *a* 414; (Archelaus), II, *b* 324; (Aristippus), a *b* 445; (Aristophanes), b 446, b 447; (Demonology), VII, a 56; (Ethics), VIII, *a b* 508–9; (Isocrates), XIII, b 401; (Logic), XIV, *b* 791; (Lysias), XV, b 118, b 119; (Metaphysic), XVI, a 95; (Mysteries), XVII, a 132 note; (Mythology), b 143; (Philosophy), XVIII, a b 805; (Physiognomy), XIX, b 7; (Plato), b 206–7, b 209–10; (Scepticism), XXI, a 396; (Sophists), XXII, a b 279, a 280, a *b* 281, b 282, *a b* 283; (Theism), XXIII, b 257; (Xenophanes), XXIV, a 756; (Xenophon), *a b* 757
——, *On the Genius of* (Plutarch), XIX, a 246
SOCRATES Scholasticus, historian, XXII, b 251–3; (Church History), V, *a* 668; (Easter), VII, a 531; (Sozomen), XXII, a 306
Socratic school (Bacon), III, a 186 note; (Metaphysic), XVI, a 87, a 95; (Ethics), VIII, b 509–10; (Socrates), XXII, a 250–1; (Sophists), a 277, a b 279
SODA AND SODIUM, XXII, a 253–8
  carbonates, b 254
  caustic soda, a 254
  chlorine compounds, a 254
  industrial forms, b 253
  MANUFACTURE, b 254–8
    ammonia process, a 257–8
    black-ash making, a b 256
SODA AND SODIUM, *continued*
  MANUFACTURE
    boiling down, b 256
    carbonating, b 256
    cryolite soda, a 258
    crystal soda, a 257
    history, b 254–6
    Le Blanc's process, a b 255
    refined alkali, b 256–7
    salt-cake making, b 255
    sulphur recovery, a 257
  sodium, metal, b 253–4
  sources of, a b 253
  sulphate, a b 254
  trade statistics, a 258

——, (Glass), X, b 584–5; (Horticulture), XII, b 238; (Manure), XV, *b* 515, a b 516; *a* b 517, a *b* 519
—— Alum, I, b 566
—— ash (Nitrogen), XVII, b 530 note; (Sodium), XXII, *b* 256, b 257–8
——, carbonate of, XXII, *a* b 253, b 254, a b 255, a b 256, a 258; (Blowing), III, a 729; (Guyton de Morveau), XI, b 307; (Metallurgy), XVI, a 67; (Ultramarine), XXIII, a 769
——, nitrate of, XXII, b 253; (Agriculture), I, a b 314; (Gunpowder), XI, a 285; (Iquique), XIII, a 219; (Mining), XVI, b 493; (Nitrogen), XVII, a b 531; (Peru), XVIII, a 688, b 692
—— -lime (Chemistry, Organic), V, a 473, notes
Sodalite (Mineralogy) (Ill.), XVI, a 430
Sodalities, pagan (Club), VI, b 38, a 40
Soda Rajputs, dynasty (Thar and Párkar), XXIII, b 239
—— recovery (Paper), XVIII, b 230
—— salts (Oxalic Acid), XVIII, b 95; in soil (Potassium), XIX, b 605
—— Soaps, XXII, a 214, a b 215
—— tar (Paraffin), XVIII, a 247
—— tungstate (Tungsten), XXIII, b 645
—— -water (Aërated Waters), I, b 166
Soden, springs (Mineral Waters), XVI, a 453
——, Julius von (Political Economy), XIX, a 401
Soderini, Piero, politician (Machiavelli), XV, b 147, *b* 148, a b 149; (Pisa), XIX, b 130
Södermalmen, suburb (Stockholm), XXII, b 587
Söderwell, K. F., philologist (Scandinavian Languages) XXI, a 388, a 389
Sodium, metal, XXII, a 253-8; (Alloy), I, b 517, *a* 518; (Chemistry), V, b 454–5; (Davy), VI, b 744; amalgam (Gold), X, b 665–6; (Mercury), XVI, b 37; (Metals), a b 73; chlorate (Polarity) (Ill.), XIX, b 325, a 326; cyanide (Prussic Acid), XX, *a* 28; hyposulphite (Chemistry), V, a 439; light (Optics), XVII, a 824; nitrate in steel making (Iron), XIII, a 344; periodate (Chemistry), V, a 431; plant absorption of (Physiology), XIX, a 56; salts (Insectivorous Plants) XIII, a 142; spectrum (Spectroscopy), XXII, b 389-90; thiosulphate (Chemistry), V, a 439. See SODA
Sodnam r Gyamtso, lama (Tibet), XXIII, *a* 368
Sodom, city (Abraham), I, a 55; (Dead Sea), VII, a *b* 4-5; (Lot), XV, a 10; (Phœnicia), XVIII, b 816
SODOMA or Sodona, Giannantonio Bazzi or Razzi, painter, XXII, a b 258; (Fresco), IX, a 680; (Schools of Painting), XXI, a 452, b 456, a 462; (Siena), XXII, a *b* 44, a b 49
Sodomy, Greek (Ganymede), X, b 65
Sodor and Man, diocese (Hebrides), XI, a 542; (Man), XV, a 460
SOEST, town, XXII, b 258-9; (Lübec), XV, *a* b 34
Sœur, Hubert Le, sculptor (Sculpture), XXI, a 587
SOFÁLA, town, XXII, a 259; (Africa), I, a 242; (Mozambique), XVII, *b* 13
Soffioni, geysers (Borax), IV, a *b* 45; (Water), XXIV, a 420
Soffit (Architecture), II, b 416; of the arch (Bridges), IV, a 273
SOFIA, city, XXII, a b 259
—— expedition (Spitzbergen), XXII, a b 425
Sofism, religion. See Sufism
Sofonisba, tragedy (Drama), VII, *b* 360; (Ferreira), IX, a 96
Softening of Water-Supply, XXIV, b 430–1
Softness of Metals, XVI, a 70
Soft Soaps, XXII, a *b* 215
Sogamoso, town and river (Colombia), VI, *b* 137, a 140
SOGDIANA, province, XXII, b 259; (Alexander the Great), I, b 427; (Bokhara), IV, b 4; (Persia), XVIII, a 594, b 595, b 596, b 601; (Zerafshan), XXIV, a 820
Sogdian Rock (Alexander the Great), I, a 428
Sogdianus, usurper (Persepolis), XVIII, a 570, note
Sogliano-Malatesta, family (Rimini), XX, b 574
Sogne Fjord (Norway), XVII, a b 590, *a* b 591, b 594
Sohagpur, town (Hoshangábád), XII, a 312
Sohail ben Amr (Mohammedanism), XVI, b 580
Sohán, river (Punjab), XX, b 112
SOHÁR, town, XXII, b 259–60; (Muscat), XVII, a 71
Sohm, jurist (Salic Law), XXI, *a* 225
Soho, district (London), XIV, b 827, a b 830
—— in Birmingham (Boulton), IV, a 157
Soil (Agriculture), I, a 273; (America), a b 629; (Arboriculture), II, a 276; (Geology), X, b 211; (Horticulture), XII, b 221–2, b 237–9; (Hygiene), a b 601; (Liebig), XIV, a b 571; (Russia), XXI, b 83; atmospheric action on (Geology), X, a 236
Soiling (Agriculture), I, a 267, a b 332
—— (Brick), IV, a 250
Soil-pipes (Sewerage), XXI, b 751
—— -removal (Tunnelling), XXIII, a 664
Soirées de St. Petersburg (Maistre), XV, *b* 309, a 310
SOISSONS, city, XXII, a 260-1; Congress of, 1727, VI, b 239
Sok, river and hills (Samara), XXI, *a* b 254; tribes (Tibet), XXIII, a 365
Sok-chu, river (Tibet), XXIII, b 360, b 363
Soke, district (Hundred), XII, b 374
Sokha, people (Yakutsk), XXIV, b 762
Sokhondo mountain (Siberia) XXII, a 7
Sokota, town (Abyssinia), I, b 63, a 64
SOKOTO, kingdom and town, XXII, a 261–2; (Gando), X, b 61; (Soudan), XXII, *b* 292; river (Africa), I, a 227; (Gando), X, b 61
SOLA, Abraham de, rabbi, XXII, b 916–7
Solaimán, caliph (Mohammedanism), XVI, b 596, a 597
Solanaceæ, order (Botany), IV, a 109
Solander, Daniel Karl, naturalist (Banks), III, a b 298
Solan goose (Gannet) (Ill.), X, a b 64; (Harvey), XI, b 448
Solani, river (Aqueduct), II, a 194
Solania, alkaloid (Nightshade), XVII, b 512
Solanine, chemical extract (Dulcamara), VII, a 449
Solano, wind (Spain), XXII, b 310
Solanum, plant (Botany) (Ill.), IV, a b 124; (Horticulture), XII, a 294, b 298; (Nightshade), XVII, b 521; (Potato), XIX, a 611, a b 612, a b 613
Solar attraction (Gravitation), XI, b 63–5; Climate, VI, b 3–4; cycle (Calendar), IV, b 593–4; equation (Calendar), b 596–7, a 600; heat, effects of (Atmosphere), III, b 30; (Horticulture), XII, b 236; inequalities, reduction of (Tides), XXIII, b 391–2; and lunar synthesis (Tides) XXIII, a 392–3, a b 404; Magnetism, XVI, a 173 *sq.*; Parallax, XVIII, a 250–6; (Halley), XI, a 355; (Horrocks), XII, a 176; radiation, XXII, a 685; (Meteorology), XVI, a b 121, b 183; Spectra, XXII, b 679, a b 680–1, a 685; (Atom), III, a 39, b 40; (Fraunhofer), IX, b 640; (Geology), X, *a* 192; (Light), XIV, a b 597, note; (Radiation), XX, b 222

Solar system (Astronomy), II, a 683-4; (Descartes), VII, a 104, b 107, a 108; (Geology), X, a 191-2; (Kepler), XIV, b 47, a b 49-50; (Laplace), b 301, a 302, a 303; (Nebular Theory), XVII, b 319-20; evolution of (Tides), XXIII, b 405-6; *Motion in Space of* (Herschel), XI, b 685. See Sun
—— Tides, XXIII, a b 388, a 389, a 390, b 391, a b 406; (Mechanics), XV, a b 694
—— Time, XXIII, b 418-9; worship (Babylonia), III, a 166, a 167
Solario, Andrea da, painter (Schools of Painting) (Ill.), XXI, b 456, a 463, a 465
SOLARIO, Antonio, painter, XXII, a b 262
Solario (Edda), VII, a 565
Solar Plexus (Anatomy), I, a 776
—— -stearin, oil (Lard), XIV, a 313
Solaster, genus (Echinodermata) (Ill.), VII, b 547, b 548, *a* 549
Soldato, Leonico (Drama), VII, b 360-1
SOLDER, alloy, XXII, b 262; (Gold), X, a 668; (Lead), XIV, b 378; use of (Building), IV, b 449-50
Soldier-Ants, II, a 85, b 86, b 87, b 88
—— Crab, VI, a 478
Soldiers, cost of maintenance (Army), II, b 539; colleges for Roman (Guild), XI, b 230; homes for (Sanitary Commission), XXI, b 902; discharged United States, XXIII, a 829; (Pacific Railroads), XIX, a 915; pay of Roman (Æs), I, b 187; relation to government (Sanitary Commission), XXI, a b 902; self-destruction of (Suicide), XXII, b 662, b 664; testament (Will), XXIV, b 604-5. See Army, Troops
Soldier's Bible (Montluc), XVI, a 817
Soldner's *Nouvelle Fonction Transcendante* (Tables), XXIII, b 19
Sole Corporation, VI, a 383
SOLE or Solea, fish, XXII, b 262-3; (Fisheries), IX, b 216, b 217
——, slope (Fortification), IX, b 381
Solecism, origin of term (Soli), XXII, a 264
Soleebee, clan (Arabia), II, b 215
Soleil's polarimeter (Wave Theory), XXIV, b 477
Soleimán of Cordova, caliph (Spain), XXII, *b* 329-30
Sole leather, tanning (Leather), XIV, b 383-6
"Solemn League and Covenant," VI, a 470; (England, Church of), VIII, b 338; (Glasgow), X, a 569; (Henderson), XI, b 581; (Milton), XVI, a 342, a 343; (Presbyterianism), XIX, a 707, *b* 711; (Scotland), XXI, a *b* 535, a 536, *b* 537; (Vane), XXIV, a 72
Solen, genus (Mollusca), XVI, b 717
Solenhofen stone (Dragon-Fly), VII, b 336; (Lithography), XIV, a 704; (Ornithology), XVIII, b 37
Soleni Liman or Salt Lagoon (Ekaterinoslaff), VII, a 688
Solennis, church usage (Penance), XVIII, b 497
Solenodons, mammal (Birds), III, b 650; (Mammalia) (Ill.), XV, b 408
Solenognathus, genus (Sea-Horse), XXI, a 607
Solenoid, helix (Electricity) (Ill.), VIII, a b 67; (Magnetism), XV, a 230, b 231-2, a 244, a 262
Solenostoma, genus (Ichthyology), XII, *b* 698, a 733
Solenostomidæ, family (Ichthyology), XII, a 733
Soleras, vats (Wine), XXIV, b 639
SOLEURE or Solothurn, canton and town, XXII, a 263-4; (Switzerland), 816, a 817, a 818, a 829, a 830, a b 831; (Switzerland), b 816, *a* b 823, *a* 827, b 832
Soleyel, district and town (Arabia), II, b 221
Solfatara, volcano (Italy), XIII, b 452
Solferino, battle of, 1859 (Artillery), II, b 585; (Austria), III, a 121; (France), IX, a 550; (Italy), XIII, a 500; (Napoleon III.), XVII, b 234
SOLI, town, XXII, a 264; (Cilicia), V, *a* 679; (Numismatics), XVII, b 665
SOLICITOR, lawyer, XXII, a b 264; (Admiralty), I, b 147; (Attorney), III, a 55; (Writ), XXIV, b 728
SOLICITOR-GENERAL, XXII, b 264; (Attorney-General), III, b 55
Solids (Constitution of Bodies), VI, b 276, a 277; (Elasticity), VII, b 694-5; (Pneumatics), XIX, a 252; atoms of (Molecule), XVI, b 646; conductivity of (Electricity), VIII, a b 49; dynamics of elastic (Mechanics), XV, a 751-4; expansions of (Heat), XI, a 520-1; flow of (Geology), X, b 232; kinetics of rigid (Mechanics), XV, a 740-6; motion of in liquid (Hydromechanics), XII, b 472-7; motion of rigid (Mechanics), XV, a 762-3; statics of rigid (Mechanics), a 736-40; tangential stress (Hydromechanics), XII, a 455; velocity of sound in (Acoustics), I, b 97, a 98, a 108. See Elastic Solids
——, mathematical (Geometry, Analytical), X, b 373-8; (Philolaus), XVIII, b 778; axioms of (Geometry), X, b 334; construction of (Pythagoras), XX, b 147-8; cubature of (Infinitesimal Calculus), XIII, a 8, a 58-60; Mensuration of, XVI, a 27-33; (Geometry), X, b 345-6; parallelepipeds (Geometry), a 345; of revolution (Infinitesimal Calculus), XIII, a 7, a 58; (Mensuration), XVI, a 32
Solidus, coin (Numismatics), XVII, a 671, a b 672, *a* 673; value of (Salic Law), XXI, a 224 note
Soligny-la-Trappe, village (Trappists), XXIII, a 556
Solikamsk, town (Perm), XVIII, b 561, a 562
SOLIMAN, Sulaiman or Suleyman I., the Magnificent, sultan, XXII, b 264; (Hungary), XII, b 383; (Charles V.), V, a b 359, a 360; (Persia), XVIII, a b 647, a 648; (Turkey), XXIII, b 684-5, a 694
—— II., sultan (Barbarossa), III, b 312; (Hungary), XII, *a* 381; (Turkey), XXIII, a 687, a 694
——. See Solaiman, Soleiman, Sulaiman
Solimoens, river. See AMAZON
SOLINGEN, town, XXII, b 264
SOLIS, Antonio de, dramatist, historian, XXII, b 264-5
——, Juan Dias de, explorer, II, b 430; (Geography), X, a 163; (Plate), XIX, a 199; (Uruguay), XXIV, b 20, a 21
——, Virgil, artist (Plate), XIX, b 195
Solitaire, decoration (Costume), VI, a 422
—— of Reunion, bird (Birds) (Ill.), III, a 635; of Rodriguez (Ill.), b 635
Solitary glands (Digestive Organs), VII, b 197
—— system (Prison Discipline), XIX, *b* 772-3, a 775; Austria (Prison Discipline), b 777; Baden, XIX, b 779-80; Belgian, b 777-8; Brazil, b 778; Danish, b 778; French, b 778, a 779; Netherlands, a 781; Sweden, b 782; United States, a 783; (Reformatories), XX, a 903
Sollas, biologist (Sponges), XXII, a b 444-5
Soller, port and valley (Balearic Islands), III, *a* b 239, a 240
Solleysel, Jacques de, riding-master (Veterinary Science), XXIV, b 214
Solmona, city. See SULMONA
Solms Laubach, naturalist (Parasitism), XVIII, a b 269, notes, a b 270 notes
Solo, river (Java), XIII, b 611; town. See SURAKARTA
Sologne, district (Cher), V, b 507; (Loiret), XIV, a 818; (Loir-et-cher), b 818
Solombaly, island (Archangel), II, a 323
SOLOMON, king of Israel, XXII, a 265; (Canticles), V, a b 30-1, a *b* 32, *a b* 33; (Commerce), VI, *a* 177; (Ecclesiastes), VII, a b 539, a 540, *b* 541, a 542; (Israel), XIII, b 415-6, b 417; (Kings, Books of), XIV, b 86, a 87; (Palestine), XVIII, b 180; (Palmyra), b 202, b 206; (Phœnicia), b 820; (Proverbs), XIX, a *b* 904, *a b* 905, *b* 907, *a* b 908; (Psalms), XX, *a* 34, a 37, a 38; Temple of (Ill.), XXIII, a 182-3; (Architecture), II, a 344; time of (Job), XIII, a b 713; wife of (Egypt), VII, a 643
Solomon, painting (Haydon), XI, a 484
——, *Psalter of*. See *Psalms of Solomon*
Solomon al-Basrah, bishop (Syriac Literature), XXII, a 900
——, city (Kansas), XIII, a 852
SOLOMON ISLANDS, XXII, a 265-7
  authorities, a 267
  enumeration of, b 265 notes
  geographical position, a b 265
  history, b 266-7
  inhabitants, a b 266
  natural history, b 265-6
  topographical features, b 265
—— (Melanesia), XV, a 844; (Mythology), XVII, a 155, b 164, b 165; (Polynesia), XIX, *b* 436
Solomon's seal, or polygonatum, plant (Botany) (Ill.), IV, a b 87
SOLON, legislator, XXII, a 267-8; (Amphictyony), I, b 678; (Archon), II, b 419, a 420; (Areopagus), b 424, a 425; (Calendar), IV, b 592; (Crœsus), VI, b 525; (Ecclesia), VII, b 538-9; (Gems), X, a 124; (Greece), XI, b 84, *a b* 87, b 122, *a* 124; (Gymnasium), b 310, a 311; (Homer), XII, *b* 119; (Money), XVI, b 752; (Mysteries), XVII, *b* 135; (Pericles), XVIII, b 540, note; (Piracy), XIX, a 126; (Pisistratus), b 139, note, a b 140; (Usury), XXIV, *a* 23; his system of Weights and Measures, XXIV, a *b* 516
——, Roman engraver (Gems), X, b, 125
Solo Organ, XVII, a 857
Solothurn. See SOLEURE
Solovets monastery (Lapland), XIV, a 308
Solovieff, Sergei, historian (Russia), XXI, b 116
Solpugidea, order (Arachnida) (Ill.), II, a 238, b 239, a 240, b 243, b 245-7
Solstices (Astronomy), II, b 673; (Meteorology), XVI, b 181-2, b 189
Soltsy, town (Pskoff), XX, *a* 41
Solution, process (Chemistry), V, b 419-20; (Diffusion), VII, a 189
Solvay, Ernest, chemist (Sodium), XXII, *b* 257, a 258
Solway Firth (Scotland), XXI, b 543
—— -fishery (Salmonidæ), XXI, a 237
—— Moss, battle of, 1542 (James V., Scotland), XIII, b 567
Solyma, mountain (Asia Minor), II, b 615; (Lycia), XV, b 94, a 95
Solyman, sultan. See Soliman
Solymi, people (Greece), XI, a 82; (Pisidia), XIX, a b 139

Soma, deified liquor (Dionysus), VII, a 217; (Brahmanism), IV, b 185, b 187, a 188; (Sacrifice), XXI, b 142; (Sanskrit), b 288, b 290
——, moon-myth (Zodiac), XXIV, *b* 832
Somadeva (Tales), XXIII, b 32
SOMALI, Somal or Somauli, race, XXII, b 268-9; (Africa), I, a 236; country of (Adel), a 138; (Africa), b 231, b 242; (Incense), XII, b 757; (Zanzibar), XXIV, *a* 806, a 807
Somateria, genus (Eider), VII, b 684-5; (Pochard), XIX, a 265
Somatic consciousness (Psychology), XX, b 72-3, a b 88
Somatopleure, body-wall (Animal Kingdom), II, b 48; (Embryology), VIII, a 154
Somatotropism (Physiology), XIX, b 67
Somato-visceral cavity (Embryology), VIII, b 154
Somerled, family (Hebrides), XI, a b 542
——, Lord of the Isles (Renfrew), XX, a 408; (Scotland), XXI, a 504, a *b* 505
Somerleyton Hall maze (Labyrinth) (Ill.), XIV, b 181-2
Somers' or Summer Islands. See BERMUDAS
Somers, Charles Cocks, baron, XXII, b 270
——, Sir George, navigator (Bermudas), III, b 518
SOMERS, John, lord chancellor, XXII, b 269-70; (Addison), I, a *b* 134; (Hamilton; A.), XI, b 368
SOMERSET, county (Plate III), XXII, b 270-3
  administrative features, a 272
  antiquities, a 272-3
  contour, b 270-1
  ecclesiastical antiquities b 272-3
  geology, a b 271
  history, a b 272
  industrial features, b 271-2
—— (Coal), VI, a b 50, a 52; (Dairy), b 680; (Iron), XIII, a 294
——, river (Nile), XVII, b 518
——, Charles, Lord, governor (Cape Colony), V, a b 44; (Kaffraria), XIII, b 826, a 827
SOMERSET, Edward Seymour, duke of, protector, XXII, a b 273; (Edward VI.), VII, *a* 595; (England), VIII, b 302, b 303; (Scotland), XXI, b 521, a 522
——, Henry de Beaufort, duke of (Warwick), XXIV, a b 402
——, Fitzroy James Henry. See RAGLAN
SOMERSET, Robert Carr, earl of, wretch, XXII, b 273-4; (Buckingham), IV, *b* 374; (London), XIV, a 859; (Northampton, Earl), XVII, b 571-2
—— hounds (Hunting), XII, b 409-10
—— House, London (Architecture), II, b 388, a 404; (London), XIV, b 849, a 850, b 858
Somers Town, district (London), XIV, a 830, b 838
Somersworth, town (New Hampshire), XVII, b 401
SOMERVILLE, Massachusetts, village, XXII, a 274
SOMERVILLE, Mary, physicist, XXII, a 274
——, John, conspirator (Shakespeare), XXI, a b 790
——, Thomas, author, XXII, a 274
—— portrait of Knox, XIV, a 135
Somites, segments (Crustacea), VI, a 559, a b 560, a b 561; (Insects), XIII, b 149, b 150, a 151; (Myriapoda) (Ill.), XVII, b 125, *b* 126
Somma, volcano (Geology), X, *a* 215; (Vesuvius), XXIV, *a* 212, a 213
Sommar Magnus, bishop (Episcopacy), VIII, b 435
SOMME, department, XXII, a 274-5
——, river, XXII, *b* 274; (France), IX, a 446
Sommelsdijk, Cornelis van Aerssens (Guiana), XI, *b* 224
Sommer, Alfred Richard, naturalist (Trematoda), XXIII, b 569, b 571, a 575
SOMMERFELD, town, XXII, a 275
Sōmmering, Samuel Thomas von, physician (Anatomy), I, a b 715; (Tiedemann), XXIII, b 408
Sommers, Will (Fool), IX, b 320, a 321
Somme Soude, river (Marne), XV, a 568
Somnambulism (Hibernation), XI, b 703; (Sleep), XXII, b 167-8
SOMNÁTH or Somnauth, city, XXII, a 275; battle, 1025 (India), XII, b 831; (Mahmúd), XV, b 289; gates of (Ellenborough), VIII, a 137; (Ghazni), X, a 501
Somnium (Lucian), XV, a 44
—— *Scipionis* of Cicero (Macrobius), XV, b 168
Somorostro mines (Biscay), III, b 683
Somosiera pass (Segovia), XXI, b 653
Somport, Col de, mountain (Pyrenees), XX, a 131
Son, river (Behar), III, b 439; (Chhatisgarh), V, a 529; (Gayá), X, b 108; (Patna), XVIII, a b 419, a 420; (Sháhábád), XXI, *a* 771
Sonákhán hills (Biláspur), III, a 580
Sonants, glides to and from (Speech-Sounds), XXII, a b 397
Sonata, Devil's (Tartini), XXIII, b 77
Sonatas (Bach, K.), III, b 169; (Beethoven), *b* 437; (Clementi), V, *a* 720; (Dussek), VII, a 488; (Mendelssohn), XVI, a 13; (Music), XVII, b 102, note; (Woelfl), XXIV, b 659
Sonchus arvensis, plant (Physiology), XIX, a 66
Sonderbund, Swiss (Grote), XI, b 191; (Switzerland), XXII, *b* 833
Sonderburg, town (Alsen), I, a 561
Sondershausen, town (Schwarzburg - Sondershausen), XXI, a 483
Sondrio, town (Valtellina), XXIV, b 51
Sone river (Rewah), XX, *a* 516
Songarí, river (Amoor), I, b 654
Songaria or Dzungaria, kingdom, VII, b 508; (Turkestan), XXIII, a 673, b 680-1; Gate of, b 674; people of (Lhasa), XIV, b 502
Song Birds, III, a b 668; (Canary), IV, b 702; (Chaffinch), V, b 322; (Ornithology), XVIII, b 31-2, a b 34, note; (Thrush), XXIII, *b* 342; vocal organs of (Birds), III, b 629-30
Song-Coi or Koi, or Songka river (China), V, b 556; (Cochin China), VI, a b 86; (Red River), XX, a 328; (Tong-King), XXIII, b 467, a 468, *b* 469. See Red River
Songe of Ælla (Chatterton), V, a 389
Songhai, Songhay or Sonrhai, race (Agades), I, b 244; (Negroes), XVII, a 328; (Soudan), XXII, a b 292 (Timbuktu), XXIII, a b 418
Song of St. Faron (France), IX, a 561
—— *of Solomon*, or *Song of Songs* XXII, a 265; (Bible), III, b 552; (Canticles), V, b 29-33; (Hindustani Literature), XI, a 755; (Hug), XII, a 350
—— *of the Bell* (Germany), X, a 482
—— *of the Shirt* (Hood), XII, a 149
Songs of the Russian People (Lycanthropy), XV, a 92
Songs of the Sea (Sargent, Epes), XXI, b 905
Songs (Holland), XII, b 95; (Poetry), XIX, a b 284, b 285; American (Foster, S. C.), IX, b 419; Aryan (Priest), XIX, a b 745; Bulgarian (Slavs), XXII, a 159: English (Carey, H.), V, a 90; (D'Urfey), VII, a 483; (Poetry), XIX, b 284-5; (Shield), XXI, a 839; French, IX, a b 565; (Beranger), III, b 502; (Dupont), VII, b 474; German modern (Hagendorn), XI, b 329; (Schubert), XXI, b 479; (Weber), XXIV, a 495; Greek (Pindar), XIX, b 108; (Poetry), a 284; Irish (Moore), XVI, a 833; Prussian (Hesekiel), XI, a 694; Scottish (Macneill), XV, b 166; (Nairne), XVII, a 174; (Skinner), XXII, b 182; sea (Dibdin), VII, b 148
——, *Book of*, Abu Faraj (Arabia), II, a 231, a 232
—— *of degrees* (Psalms), XX, b 36-7
—— *of Experience* (Blake), III, *b* 699
—— *of Innocence* (Blake), III, a b 699
Song to David (Smart), XXII, b 174, *a* 175
Song-yun, traveller (Turkestan), XXIII, b 680
Sonhát, town (Chutiá Nágpur), V, b 672
Sonhray tribes. See Songhai
Soniri, fabric (Gold Lace), X, a 671
Son-kong, river. See MEKONG
Son-kul, lake (Semiryetchensk), XXI, b 672
Sonne, painter (Denmark), VII, a 82
Sonnenfels, Joseph, publicist (Political Economy), XIX, a 377
Sonnenschein's analysis (Phosphorus), XVIII, b 832
Sonnenstein, fortress (Pirna), XIX, a 127
Sonnerat, Pierre, naturalist (Ornithology), XVIII, a 11; (Secretary-Bird), XXI, a 648
SONNET, XXII, a 275-6; (Bellay), III, *a* 470; (Bowles), IV, b 162; (Browning), b 352; (Constable, H.), VI, a 264; (Daniel, S.), b 710, a 711; (Drummond), VII, b 415-6; (Michel Angelo), XVI, a 243, a 244; (Montgomery, A.), b 816; (Orcagna), XVII, b 839; (Poland), XIX, b 312; (Shakespeare), XXI, a 800, b 805; (Sidney), XXII, a b 40, a 41; (Sweden), a 793; (Very), XXIV, a 878; (Wordsworth), a 711; rise of English (Shakespeare), XXI, b 793. See *Canzoniere* of Petrarch
Sonnin, Ernst G., architect (Hamburg), XI, a 362
Son of God, title (Gospels), X, a 744
—— of man (Messiah), XVI, a 59, *a* 61
Son of Sirach (Apocrypha), II, b 159, *a* 160. See JESUS, son of Sirach
Sonora, state (Mexico), XVI, a 901, a 902, b 908, a 909, b 910, a 911, b 912
Sonrhai, race. See Songhai
Sonship of God (Angel), II, a b 26; (John, Epistles of), XIII, b 719
Sonsino, naturalist (Trematoda), XXIII, b 572, a 575
Sons of Liberty, clubs (United States), XXIII, b 785
—— of Temperance, society, XXIII, a b 175
Sontagsblätter (Periodicals), XVIII, a 552
Sontay, province and town (Tong-King), XXIII, b 467, a 468, a 470
Sontsos, Alexander, poet (Greece), XI, a b 135
——, Panagiotis, poet (Greece), XI, a b 135
Soo-chow, department (China), V, *a* 552; towns (China), b 548, a 550; XXII, a 650
Soojah, governor of Bengal (Aurungzebe), III, b 86-7
Soolquelle, spring (Suhl), XXII, a 662
Soosoos-dagh, mountain (Asia Minor), II, b 615

- Soot (Agriculture), I, a 314; (Horticulture), XII, a 239; (Manure), XV, a 519
- Soot-Coal, VI, a 54
- Soothing mixtures (Bronchitis), IV, b 327
- Soothsaying (Canaanites), IV, a 675; (Haruspices), XI, a 446-7; (Magic), XV, b 205; (Priest), XIX, *b* 746, a 747 note. See Chiromancy, Divination, Fortune-Telling, Palmistry, Sorcery, Sortilege, Witchcraft
- Sooty Tern, XXIII, b 206
- Sop, fruit (Custard Apple), VI, b 643
- Sopeng, kingdom of (Celebes), V, a 251
- *Sōpherim* (Isaiah), XIII, b 388, b 389, b 390, b 391, b 393, a 394; (Mishnah), XVI, b 526
- Sophia, city. See SOFIA
- ——, empress (Narses), XVII, b 240
- —— of Brabant, duchess (Thuringia), XXIII, a 353
- ——, regent, Russia (Ivan V.), XIII, b 529; (Peter I.), XVIII, a 712; (Russia), XXI, a 105
- SOPHIA DOROTHEA, England, queen, XXII, b 276-7; (George I.), X, b 378; (Settlement, Act of), XXI, b 729
- —— Dorothea, Prussia, queen, XXII, a 277; (George I.), X. b 379
- Sophianos, grammarian (Greece), XI, a 132, b 136
- "Sophie" (Mirabeau), XVI, a b 516-7
- —— Charlotte, queen (Frederick I.), IX, b 646
- *Sophismes Economiques* (Bastiat), III, b 370, a 371
- Sophist defined (Rhetoric), XX, a 525
- *Sophist*, Plato's (Category), V, a 194; (Plato), XIX, a 214, a 217, b 218-9, b 223
- *Sophistical Preparation* (Phrynichus Arabius), XVIII, b 868
- —— *Refutations* (Aristotle), II, a b 454; (Logic), XIV, a 791
- SOPHISTS, XXII, a 277-84
  - bibliography, a 284
  - classification, b 281
  - culture school, b 277-8
  - defensive criticism, b 281-2
  - education, relation to, b 280-1, b 282-3
  - eristic or disputatious school, b 278-9, a b 283
  - general characteristics, a 277
  - Grote's theory, b 281-4
  - literature, relation to, a 281
  - moral influence of, b 279-80
  - natural philosophers, b, 277
  - philosophy, relation to, a b 281
  - Plato's criticism, a b 280, b 281, b 283
  - political school, b 278
  - rhetorical school, a b 278
  - Socrates and Socratics, a b 279
- —— (Aristippus), II, b 445; (Aristotle), a b 454; (Ethics), VIII, a b 508; (Greece), XI, a 127, a 129; (Isocrates), XIII, b 398, b 399, a 402, a 403; (Rhetoric), XX, a b 529; (Scepticism), XXI, b 395-6
- *Sophists, Against the* (Isocrates), XIII, b 401-2, a 403; *Lives of the* (Philostratus), XVIII, a b 810, a 811
- SOPHOCLES, dramatist, XXII, a 284-7
  - biography, a b 284
  - constructive method of, a 286-7
  - destiny, treatment of, b 285-6
  - editions of, b 287
  - poetical elements of plays, a b 287
  - stage, relation to the, b 284-5
  - subjects, choice of, a b 285
- —— (Antigone), II, b 112; (Drama), VII, b 340, b 350, a *b* 351; (Euripides), VIII, b 590, *a* b 591; (Greece), XI, b 125, b 126, b 127; (Pelias), XVIII, b 485; (Poetry), XIX, b 270, a 272, b 278; (Thebes), XXIII, a b 249
- SOPHOCLES, Evangelinus Apostolides, philologist, XXII, a 917
- Sophonisba, princess (Masinissa), XV, a 615
- Sophora japonica, species (Arboriculture), II, b 280
- SOPHRON, dramatist, XXII, b 287-8; (Drama), VII, a 352; (Sicily), XXII, a 22
- Sophronistæ, title (Gymnasium), XI, b 310-1
- Sophronius of Jerusalem, patriarch (Hymns), XII, a 614; (Monothelites), XVI, a 785; (Sepulchre, Holy), XXI, b 704
- —— of Vratza, bishop (Slavs), XXII, a 159
- *Sophy, The* (Denham), VII, b 69
- Sopris peak (Colorado), VI, b 145
- Sopron, town. See OEDENBURG
- Sor, Ferdinand, composer (Guitar), XI, b 237
- SORA, city, XXII, a 288; (Rome), XX, *a* 761
- Sorabi, tribes. See Sorbs
- Soranus of Ephesus, physician (Anatomy), I, b 705; (Medicine), XV, b 812
- Sorata, mountain (Bolivia), IV, b 11
- SORAU, town, XXII, a b 288
- Sorbenburg, castle (Saalfeld), XXI, b 130
- Sorbière, Samuel, author (Scepticism), XXI, b 399
- Sorbon, Robert de, priest (Paris), XVIII, b 294; (Sorbonne), XXII, b 288
- SORBONNE, college, XXII, a 288-9; (Arnauld), II, *b* 542; (Calvin), IV, *b* 633; (Cousin), VI, b 462, a 464, *b* 465; (Dolet), VII, a 299; (Jansenism), XIII, a b 576; (Jesuits), b 660, b 663; (Libraries), XIV, b 524-5, b 547; (Paris), XVIII, a 286, b 294, b 296, b 297
- Sorbs or Sorabi, tribes (Germany), X, *b* 431, a 432; (Saxony), XXI, *b* 368; (Slavs), XXII, b 153, a 155, a *b* 156, a *b* 157; (Thuringia), XXIII, *a* 353
- Sorby, Henry Clifton, geologist (Geology), X, b 231, b 232
- "Sorcerer" (Horse), XII, *b* 188
- Sorcery (Bodin), III, a 737; (Demonology), VII, b 55, a 56; (Font), IX, a 317; (Magic), XV, a b 200, a b 201, a 205, b 207; (Priest), XIX, a 745, a 746; (Witchcraft), XXIV, a 654. See Chiromancy, Divination, Fortune-Telling, Palmistry, Prophecy, Witchcraft
- Soredia, organs (Lichens), XIV, b 556; (Reproduction), XX, b 435
- Sorel, river (Champlain), V, a 336; town (St. Lawrence), XXI, *b* 190
- ——, Agnes, mother of European nobles (Charles VII.), V, *b* 356; (Cœur), VI, b 99; (Louis XI.), XV, a 20
- Soret, chemist (Ozone), XVIII, a b 117; (Spectroscopy), XXII, a 391, *b* 394; (Wave Theory), XXIV, a b 452
- Sorex, mammal (Shrew), XXI, a b 883, a 884. See Soricidæ
- Sorgue, river (Vaucluse), XXIV, a 125
- Sorghum, plant (Durra), VII, a b 487; (Millet) (Ill.), XVI, b 333-4; (Sugar), XXII, a 661
- SORIA, province, XXII, a 289; (Spain), a 308, a 309, a 310, a 311, b 312, b 315; town, XXII, a 289
- ——, vilayet (Lebanon), XIV, b 394-5
- Soriano, department (Uruguay), XXIV, a 19, a 20
- Soricidæ, family (Mammalia), XV, a 407, *b* 409. See Sorex
- Sorinka, race (Soudan), XXII, a 292
- Sorö, town (Zealand), XXIV, a 810
- Sorocaba, town (Brazil), IV, *a* 202
- Sorophora, order (Protozoa), XIX, b 862, b 863
- Soropita, Fernão Rodrigues Lobo (Portugal), XIX, b 571
- Soroplex, genus (Woodpecker), XXIV, a 687
- Sorosis, fruit (Botany) (Ill.), IV, a 139
- Sorrah Ameer, tribute man (Caravan), V, a 75
- Sorra-man-ra'a, city (Mohammedanism), XVI, a b 607, a 608
- Sorrava, river (Tagus), XXIII, a 27
- Sorrel, plant (Horticulture), XII, b 300
- SORRENTO, city, XXII, b 289
- *Sorrowing Turtle Dove* (Sweden), XXII, a 794
- Sorrow of Han (China), V, a 548
- Sortes Prænestiæ (Præneste), XIX, b 674
- *Sortie of the Banning Cock Company*, painting (Rembrandt), XX, b 387
- Sortilege (Divination), VII, b 254; (Witchcraft), XXIV, a 653, a 656
- Sorting Wool, XXIV, b 690-1
- SOSIGENES, astronomer, XXII, b 289-90; (Calendar), IV, a b 591; (Ptolemy), XX, a 95, note
- —— philosopher, XXII, a 290
- Sosna, river (Russia), XXI, a 81
- Soster, girdle (Costume), VI, b 400
- Sosus of Pergamus, artist (Archæology), II, a 321
- Soter. See Antiochus, Demetrius, Ptolemy
- Soteriology (Irenæus), XIII, a 280; (Paul), XVIII, a 436-7
- Sothiac calendar (Egypt), VII, a b 632
- *Sothis, Book of* (Manetho), XV, b 485-6
- Sothis, heliacal rising of (Egypt), VII, b 631, a 632
- Soties, satiric poems (France), IX, a 568, *b* 573
- Soto, Hernando de, commander (Florida), IX, a 298
- Sotobi, chief (Zululand), XXIV, a 868
- Sotomaior, Eloi de Sá, poet (Portugal), XIX, b 571
- Soturba, mountain (Africa), I, b 224
- Soubeiran, Eugène, chemist (Chloroform), V, a 591
- SOUBISE, Benjamin de Rohan, duc de, XXII, a 290; (Rohan), XX, *a* 638
- SOUBISE, Charles de Rohan, prince de, XXII, a 290; (France), IX, a b 519
- Souchong tea, XXIII, a b 106, a 107
- SOUDAN, Black Country, XXII, a 290-3
  - area, a b 290
  - ethnography, b 291-2
  - geographical divisions, b 290-1
  - hydrographic features, b 290
  - natural history, b 291
  - physical features, a b 291
  - political states, b 292-3
- —— (Africa), I, b 242; (Cotton), VI, a 430; (Houssa), XII, b 331; (Negro), XVII, b 325, *a b* 327, a 328; Mahdi in (Sunnites), XXII, b 700; slave-trade (Slavery), XXII, a b 152
- Sou d'or, coin (Numismatics), XVII, b 673
- Soufrière, volcano (Guadeloupe), XI, b 203; (St. Vincent), XXI, a 211
- Souimangas, bird (Sun-Bird), XXII, a 686 note
- Soul, doctrine of the (Anthropology), II, b 97; (Buddhism), IV, a b 388; (Democritus), VII, a 53; (Epicurus), VIII, b 421; (Fire), IX, b 200, *a* 201; (Iamblichus), XII, a b 638; (Kabbalah), XIII, b 821-2; (Kant), b 863; (Leibnitz), XIV, a b 422; (Manes), XV, a b 485; (Metempsychosis), XVI, a 112; (Neoplatonism), XVII, a b 345; (Origen), b 866, a 867; (Peripatetics), XVIII, a

Soul, *continued* 556, a 558; (Scholasticism), XXI, b 446, b 447; (Stoics), XXII, b 593–4; cycle (Vendanta), XXIV, b 128–31; Egyptian notions of (Mummy), XVII, b 26; growth of idea of (Animism), II, a 50–1; immortality of the (Funeral Rites), IX, b 724–6; Spinoza on (Cartesianism), V, b 136. See Immortality, Transmigration
——, *Inquiry into the Nature of the Human* (Baxter, A.) III, a 393
Soulary, Joséphin, poet (France), IX, b 595
SOULÉ, Pierre, senator, XXII, a b 917
Soul entering Charon's bark (Terra-Cotta)(Ill.), XXIII, b 209
Soulouque, Faustin, emperor (Hayti), XI, a 487
SOULT, Nicholas Jean de Dieu, marshal, XXII, a b 293; (Guizot), XI, a b 239; (Masséna), XV, a 624; (Murillo), XVII, a b 62, *a* 63; (Portugal), XIX, *b* 566; (Wellington), XXIV, *a* b 523, *a b* 524
Sound (Aëronautics), I, b 177, a 180; (Aurora), III, b 79; (Magnetism), XV, b 272, a 273; characteristics of (Telephone), XXIII, a 137, a b 138; coördinates of musical (Measurement), XV, a 668; intensity of (Acoustics) (Ill.), I, a 99, b 100; (Ear), VII, b 512–3; in Music, XVII, a 109; (Pianoforte) (Ill.), XIX, b 73, *b* 74; notation (Speech Sounds), XXII, b 399; paradox of (Eleatic School), VIII, b 3; propagation of (Lagrange), XIV, b 208; (Wave), XXIV, a b 440; (Wave Theory), a 451, a 478; in speech (Philology), XVIII, b 783; (Speech-Sounds), XXII, a 396–405; velocity of (Laplace), XIV, a 303; vibrations of (Acoustics), I, a 94–6; (Atom), III, b 38, note; *New Experiments on* (Wheatstone), XXIV, a 568. See Sound Wave
——, the (Baltic Sea), III, b 253, a 255, a 256
Soundboard (Organ) (Ill.), XVII, b 852; (Pianoforte), XIX, a b 74, a 75, a 76; bridge (Pianoforte), a b 74
Sound dues (Denmark), VII, b 71, b 74, a b 75; (Hanseatic League), XI, b 402, a 403; (Navigation Laws), XVII, a 287. See Toll
SOUNDING, Deep-sea (Ill.), XXII, b 393–5; (Atlantic Ocean), III, b 16; (Navigation), XVII, a 263, a 275; (Pacific Ocean), XVIII, b 128, a 131, b 124–5; (Surveys), XXII, a 939
—— in Vesical Diseases, XXIV, b 205
Sound receivers (Telegraph) (Ill.), XXIII, b 128
SOUNDS, SPEECH, XXII, a 396–405
Sound waves (Earthquake), VII, b 528; (Light), XIV, b 610; (Molecule), XVI, a 640; (Pyrometer), XX, b 140
Soup (Cookery), VI, *a* 296; (Gelatin), X, a b 118; (Gram), XI, b 33; tablets (Preserved Food), XIX, a 727
Souris, town (Prince Edward Island), XIX, *a* 760
Sousa, Manuel de Faria e, historian (Portugal), XIX, b 572
——, Martim Affonso de, explorer (Brazil), IV, a 205
——, Pero Lopes de, governor (Brazil), IV, a 205
——, Thome de, governor (Brazil), IV, a 206
—— e Vasconcellos, Luis de, statesman (Portugal), XIX, *a* b 564
Souslik, rodent (Marmot), XV, b 567–8
Souterasi, syphons (Aqueduct), II, b 193
South, Sir James, astronomer (Telescope), XXIII, a 160
SOUTH, Robert, XXII, a b 295; (Fuller, T.), IX, a 716
—— African current (Atlantic Ocean), III, *b* 19; flora (Distribution), VII, b 251–2; tribes (Negro), XVII, a b 328
—— African Republic. See TRANSVAAL
Southam, town (Warwick), XXIV, a b 400
South America, I, a 588–91, a 598–600, a 601, a b 602, a 611–7, b 624–6; (Climate), VI, a 4; (Coal), a 57; (Dictionary), VII, a 168; (Dog), VII, b 283; (Distribution), a 234, a 237–8, b 239, *a b* 240, b 251, a 252; (Fire), IX, a 204; (Forest), b 357; (Gold), X, a b 662; (Hares), XI, a 427; (Horse), XII, b 178; (Ichthyology), b 710, b 711, a b 712, a 720; (Libraries), XIV, b 535–6, a b 554; (Mining), XVI, a–b 493; (Missions), a 540; (Pinzon), XIX, b 118; (Societies), XXII, b 236, a b 237, b 238, a 239, b 240; republics, independence of (United States), XXIII, b 810. See names of the countries
SOUTHAMPTON, seaport (Plan), XXII, b 295–7; (Dockyards), VII, b 269, a 272; (Hampshire), XI, a *b* 385, *a* 386; (London), XIV, *a b* 839; (Tides), XXIII, a 376; treaty of 1625 (Contraband), VI, *b* 284
——, Henry Wriothesley, earl of (Shakespeare), XXI, b 792, a 793
—— lithographic method (Photography), XVIII, b 846–7
—— water (Hampshire), XI, *b* 384, a 386
Southard, Samuel L., statesman (Surveys), XXII, b 938
SOUTH AUSTRALIA (Plate IV), XXII, a 297–300
  agriculture, b 298–9
  climate, b 297–8
  commercial features, b 299
  fisheries, b 299
SOUTH AUSTRALIA, *continued*
  geology, a 298
  history, a b 300
  minerals, a b 298
  natural history, a b 299
  political organization, a 300
  topography and towns, a b 297
  water-supply, b 299–300
South Barrule, mountain (Man), XV, b 457, *a* 458
SOUTH BEND, Indiana, city, XXII, b 300; (Indiana), XII, *b* 853
—— Cape (Formosa), IX, a 366
SOUTH CAROLINA, state (Plate V), XXII, b 300–3
  area and surface, b 300–1
  climates, a 301
  earthquakes, a 301
  education and religion, b 302
  history, b 302–3
  industrial condition, a b 302
  minerals, b 301–2
  natural history, b 301
  political organizations, b 302
  rivers, a 301
—— (Divorce), VII, a 264; (Hayne), XI, a 485; (Horse), XII, b 207; (Rutledge, J.), XXI, a 898; (Slavery), XXII, *b* 906, b 907, a b 908; (Sumter), XXII, a b 935; (Whitney), XXIV, a 897; (Universities), XXIII, a 913, a b 957, a 961; colony (United States), b 777, *b* 778, b 785; history of (United States), b 792, a 796, b 801, a 811, a 813, a b 821, b 823, b 828, b 831, b 832, a 833; statistics (United States), b 853, a 855, b 857, a 859, b 860, b 863, b 868, *a* 878; topography (United States), a 844, b 845
—— Railroad (Steam-Engine), XXII, a 923
SOUTHCOTT, Joanna, prophetess, XXII, a 303
South Danvers, Massachusetts, town (Peabody), XVIII, b 452
—— Downs (Sussex), XXII, b 760, a b 761, b 762
—— -down sheep (Agriculture) (Ill.), I, a 348, a 349; (Wool), XXIV, *a* 690
—— Eastern Railway, XX, b 234, a 235, a 241, a 242, a 244, a 245, a 252, 253, a 256
SOUTHEND, town, XXII, a 303
Southerly bursters, winds (New South Wales), XVII, b 418
Southern Alps (New Zealand), XVII, a b 479, a 480
Southern Coast, Cooke's (Turner), XXIII, a b 708
SOUTHERNE, Thomas, dramatist, XXII, a b 303; (Drama), VII, b 376, note
Southern ocean (Geology), X, b 195, a 199; (Meteorology), XVI, b 129, b 137, b 138, b 139, a 148; (Pacific Ocean), XVIII, b 119
—— Pacific Railroad, XIX, a b 919–20
Southern Review (Periodicals), XVIII, b 555
South Esk, river (Montrose), XVI, b 821
Southesk's farm, earl of (Agriculture) (Plate IV), I, b 364
SOUTHEY, Caroline, poet, XXII, b 303
SOUTHEY, Robert, laureate, XXII, *b* 303–5; (Amadis of Gaul), I, *b* 571, a 572; (Coleridge), VI, a b 122, a b 123, a 125; (Dobrizhoffer), VII, a 268; (Hallam), XI, *b* 351; (Keswick), XIV, a 56
South Fuegia (Tierra del Fuego), XXIII, a 410
—— Georgia, Island (Geology), X, b 195
—— Kensington, district (London), XIV, a *b* 845, *b* 846, a 847
—— Kensington Museum (Donatello), VII, b 310; (Filigree), IX, *a* b 144; (Glass), X, a 579, b 580, a 583; (Ivory) (Plate VII), XIII, b 533; (Libraries), XIV, *b* 516, b 517, a 545; (London), XIV, b 846–7; (Michel Angelo), XVI, a 239, b 241; (Panizzi), XVIII, b 216; (Pistoia), XIX, a 141 note; (Plate), b 191, a 195, a b 198; (Pottery and Porcelain), a 664; (Punjab), XX, b 115 note, b 116; (Robbia), b 604, a b 605, note, a 606, a 608; (Rossellino), a 880; (Schools of Painting), XXI, *b* 465; (Sculpture) (Ill.), a 586 note, a b 588, note, a 595, b 599; (Taxidermy), XXIII, a 95, a 97; (Textiles), a 226, a b 231; (Terra-Cotta) (Ill.), b 208, a b 209, note, b 211, note, *b* 212; (Wood-Carving), XXIV, a 680, *a* 682, a 683
—— Mountain, battle of, 1862 (Hooker), XII, b 153; (McClellan), XXIII, a 839
—— mountains (Pennsylvania), XVIII, b 509, a 511, b 512; (United States), XXIII, a 843, a 844, b 845
—— Orkney islands (New South Shetland), XVII, a 418; (Polar Regions), XIX, a 342
—— Platte river (Colorado), VI, b 145
SOUTHPORT, borough, XXII, a 305; (Libraries), XIV, b 520, b 546; pier (Harbors and Docks), XI, b 415–6
South Sea (Pacific Ocean), XVIII, a 119 note
Southsea, town (Portsmouth), XIX, a b 549, a 550
South Sea Company, VI, b 197; (Finance), IX, a b 160; (Gay), X, b 107; (Gibbon), a 512; (London), XIV, b 860; (Townshend), XXIII, a 524; (Whale), XXIV, a 557
—— Sea Islands (Drama), VII, b 348; (Oils), XVII, b 766, a 767. See Polynesia
South Shetland, islands (Geology), X, b 195; (New South Shetland), XVII, a 418; (Seal), XXI, *b* 610

- South Wales Coal-fields, VI, b 47–8, a 52
- Southwark, borough (London), XIV, a 827, a 828, b 829, *a* b 830, a b 831, *a b* 832, b 833, a b 834, a 835, a 837, a 842, a b 843, *a* 844, a b 848, b 850, b 852, a *b* 853, note, a 854, a b 857, a 859; (Surrey), XXII, *b* 729; bridge (Bridges) (Plate XVIII), IV, b 301, b 307; (London), XIV, *a b* 832, b 861; Park (London), XIV, b 833
- Southwell, diocese (Nottingham), XVII, a 613
- Southwell, naturalist (Swan), XXII, b 769 note
- ——, Robert, Jesuit poet (English Literature), VIII, a 373
- ——, William, manufacturer (Pianoforte), XIX, b 83, a 84
- Southwold, town (Suffolk), XXII, *b* 654, a 655
- Soutra Hill (Haddington), XI, b 322–4
- *Souvenirs d'un Voyage dans la Tartarie, etc.* (Huc), XII, b 342–3; (Lhasa), XIV, *a* 503
- SOUVESTRE, Émile, novelist, XXII, a b 305
- Souwaroff, Pierre Alexis Vasiliewitch, general. See SUWAROFF
- Souza, Alphonso da, discoverer (Rio de Janeiro), XX, a 578; (Xavier), XXIV, a 753
- Souza-Botelho, Adelaide Marie Emilie Fillene, countess and authoress (Flahaut de la Billarderie), IX, *b* 245; (Morny), XVI, b 855
- Sovereign, ruler (Cabinet), IV, b 550, *a* 551; (Concordat), VI, b 214; (Government), XI, b 9; (Prerogative), XIX, a 692–4; (Titles), XXIII, a 445–6. See Executive, King, Monarchy, Royalty, Supremacy
- ——, coin (Adulteration), I, a 160; (Mint), XVI, b 505, b 507; (Numismatics), XVII, a 674
- "Sovereign of the Seas," ship (Navy), XVII, a 290
- Sovereignty (Law), XIV, b 356, a *b* 357–8, b 359–60; (Veto), XXIV, a 225; inferior Titles of, XXIII, a 446; limitations of (United States), a 798, b 799–800; lodgment of (United States), a b 789; of the seas (Prescription), XIX, b 725; state (International Law), XIII, a b 198
- Sowans, porridge (Oat), XVII, a 716
- Sowbread or Cyclamen (Botany), IV, b 84, a 85
- Sowerby, George, conchologist, XXII, b 305
- SOWERBY, James, naturalist, XXII, b 305
- SOWERBY BRIDGE, XXII, b 305
- Sowing implements (Agriculture), I, a 285–6, b 317
- Soy, sauce (Gram), XI, a 34
- Soyotes, tribe (Tartars), XXIII, b 76
- Soyúti, historian (Tabarí), XXIII, a 9
- Sozh, river (Russia), XXI, a 81
- Sozini or Sozzini, family name. See SOCINUS
- ——, Celso, academician (Socinus), XXII, a 242
- ——, Mariano, jurist (Socinus), XXII, b 240, a 242
- —— di Girolamo, Alessandro, historian (Siena), XXII, b 48, a 49
- SOZOMEN, historian, XXII, b 305–6; (Socrates), *b* 251
- SPA, Belgian town, XXII, b 306
- ——. See MINERAL WATERS
- *Spaccio della Bestia Trionfante* (Bruno), IV, a b 360
- Space (Eleatic School), VIII, b 3; (Hamilton, Sir W.), XI, *a* 374; (Herbart), a 643; (Hume, D.), XII, a *b* 366–7; (Kant), XIII, a b 859, b 861–2; (Leibnitz), XIV, b 421–2; (Locke), *a* b 766; (Metaphysic), XVI, b 92; (Plücker), XIX, b 241; (Reid), XX, b 364; axioms of (Geometry), X, a b 334; curvature of (Measurement), XV, a b 666; four dimensional, theorems of (Measurement), a b 671; judgments (Psychology), XX, b 85–6; knowledge of (Psychology), a 58–60; nature of (Measurement), XV, b 665, b 666, a 668, b 670, a b 671; projectively defined (Geometry), X, *b* 347; properties of (Dynamics), VII, a 503; Spinoza on (Cartesianism), V, a 136; and time constants, molecular (Atom), III, b 43–4
- Spada, cape (Crete), VI, a 504
- Spadaforese Lemon, XIV, b 438
- Spadaite (Mineralogy), XVI, a 432
- Spadella cephaloptera, species (Sagitta) (Ill.), XXI, b 156
- Spadix (Botany) (Ill.), IV, b 108, b 109, b 110
- —— (Mollusca), XVI, a 700
- SPAGNA, Lo, painter, XXII, b 306–7
- *Spagna*, chronicles (Roland), XX, b 642
- Spagnoletto, Lo, pseudonym (Ribera), XX, b 546–7
- Spagnuolo, Il, painter (Crespi, G. M.), VI, b 502
- Spagyrists, alchemists (Chemistry), V, a b 398
- SPAIN, kingdom (Plate VI), XXII, a 307–79
  - ANCIENT HISTORY, a 319–23
    - barbarian inroads, b 322–3
    - Carthaginian ascendency, a b 320
    - civil war period, Roman, b 321–2
    - Greek knowledge of, a 319–20
    - imperial government, a b 322
    - political organization, Roman, b 321, a b 322
    - Roman republic, period under, b 320–1

SPAIN, *continued*
  - GEOGRAPHY AND STATISTICS, a 307–19
    - agriculture, a 313–5
    - area, a 312
    - bibliography, b 319
    - boundaries, a 307
    - central table-lands, b 307–8
    - cereals, b 313–4
    - climate, b 310–1
    - commerce, b 316–7
    - communication, systems of, a 318
    - education and religion, b 318
    - fauna, b 311–2
    - finance, a 319
    - fisheries, a 315
    - flora, a b 311
    - foreign possessions, a 313
    - fruits, a b 314
    - geology, b 309–10
    - live stock, b 314–5
    - manufactures, a b 316
    - measures and weights, b 319
    - minerals, a 315–6
    - mountain systems, a 308–9
    - political admistration, b 318–9
    - shipping, b 317–8
    - surface, a 307–9
    - territorial provinces, a 312–3
    - war organization, a 318
    - water systems, a b 309
    - wine, a 314
  - INDEX, 379
  - LANGUAGE, a 360–6
    - Alghero dialect, a 363
    - Andalusian dialect, a b 365
    - Asturian dialect, b 364–5
    - bibliography, b 366
    - Castilian, a 363–5
    - Catalan, b 360–3
    - consonants in Catalan, a b 362
    - Galician dialect, a b 366
    - inflections, Castilian, a b 364
    - inflections, Catalan, b 362–3
    - Leonese dialect, b 365
    - Navarrese - Aragonese, a 365
    - phonetic laws, Castilian, b 363–4
    - Portuguese, b 365–6
    - Romana Rustica, varieties of, a b 360
    - vowels in Catalan, a 361–2
  - LITERATURE, a 367–79
    - bibliography, b 376, a b 379
    - Castilian literature, a 367–76
    - Catalan literature, b 376–9
    - chivalry, books of, mediæval, a 369
    - chronicles, mediæval, a b 368
    - decline of Catalan, a b 378
    - drama, classic, a 372–3

SPAIN, *continued*
  - LITERATURE
    - dramatic literature, early, a b 370
    - eighteenth century, a 374–5
    - fifteenth century, b 369–70
    - fourteenth century, prose, b 367–9
    - golden age, b 370–4
    - heroic poetry, earliest, a b 367
    - history in classic age, a b 373
    - letter writers, b 373
    - lyrics of golden age, a b 371
    - mediæval, b 367–70
    - nineteenth century, a 375–6
    - philosophy in golden age, b 373–4
    - poetry, mediæval, Catalan, b 376–7
    - prose, mediæval, Catalan, b 375–6
    - revival, Catalan, b 378–9
    - romances of golden age, b 371–2
    - romances, mediæval, a 368
    - thirteenth century, poems, b 367
  - MEDIÆVAL HISTORY, a 324–40
    - 'Abd al-Rahmán I., house of, a b 325; II., reign of, a 327; III., reign of, b 327–8
    - Al-Hakam, caliph, b 328
    - Alfonso III., Aragon, a b 337; V., Aragon, b 338–9; X. the Wise, Castile, a b 333; XI., Castile, a b 334
    - Almansór, caliph, b 328–9
    - Almohades campaigns, b 331–2
    - Almoravid campaigns, b 330–1
    - 'Amirid dynasty, b 328–9
    - Arab conquest, a 324–5
    - Aragon, kingdom, b 326–7, a b 330, a 331, a 332, b 336–40
    - Barcelona, rise of county, a b 326
    - Castile, kingdom, b 326–7, a b 330, a b 331, a b 332–6
    - Christian states, rise of, b 325–7
    - constitution of Aragon, b 336–7
    - constitution of Castile, b 332–3
    - crusading period against Moors, a 331–2
    - Ferdinand I., Aragon, b 338; IV., Castile, b 333–4
    - Hammúdite caliphs, a 330
    - Henry II., Trastamara, Castile, a b 335; III., Castile, b 335–6; IV., Castile, b 336

- SPAIN, *continued*
  - MEDIÆVAL HISTORY
    - James II. and Alfonso IV., Aragon, b 337
    - John II., Aragon, a 339-40
    - John I., Castile, b 335; II., Castile, a b 336
    - literature, a 340
    - Leon, kingdom, b 326, b 331-2
    - Martin of Aragon, reign of, a b 338
    - Mohammed I., house of, caliph, a b 327
    - Mohammed II., Al-Mahdi, caliph, b 329
    - Mohammedan discords, early, b 324-5
    - Navarre, rise of, b 326-7, a 331, b 338-9
    - Omayyads, a b 325, a 327-30
    - Pedro III., Aragon, a 337; IV., Aragon, b 337-8
    - Pedro I., Cruel, Castile, b 334-5
    - Soleimán, caliph, b 329-30
  - MODERN HISTORY, a 340-60
    - Alberoni's administration, a b 351
    - Alfonso XII, b 360
    - Amadeus, reign of, a b 360
    - Austrian succession war, a b 353
    - Bonaparte, Joseph, king, a b 358
    - Bourbon House, b 349-60
    - Charles I., reign of, b 342-3; II., reign of, b 347-9; III., reign of, a 354-6; IV., reign of, a 356-9
    - colonial empire founded, b 341
    - communes and Holy Junta, a b 343
    - decline in seventeenth century of, b 347-8
    - Elizabeth of Parma, queen, a 351-3
    - family compact, b 352-3
    - Ferdinand and Isabella, a 340-2
    - Ferdinand VI., reign of, b 353-4; VII., reign of, a b 359
    - Godoy's ascendency, b 356-8
    - Hapsburg rule, a 342-9
    - Isabella II., reign of, b 359-60
    - Jenkins's ear war, a 353
    - literature, b 360
    - Maria Anna, regency of, a b 347
    - Mazarin's policy in, b 346-7
    - Moors, final expulsion of, b 344
    - Naples acquired, b 341
    - Napoleonic policy, a 357-8
- SPAIN, *continued*
  - MODERN HISTORY
    - Peninsular war, b 358
    - Philip II., reign of, b 343-4; III., reign of, b 344-5; IV., reign of, b 345-7; V., reign of, b 349-53
    - Polish succession war, b 352-3
    - reforms under Charles III., a 355-6
    - reforms under Isabella I., b 340-1
    - revival of eighteenth century, a 355-6
    - Ripperda policy, a 352
    - succession question, b 348-9
    - Thirty Years' War, a 345-6
    - unity established, a b 341, a 342
    - Utrecht treaty, b 350
    - war of the succession, a b 350
  - VISIGOTHIC KINGDOM, a 323-4

- —— (Almoravides), I, a b 524; (Arabia), II, *b* 225; (Arabian Philosophy), a 235-6; (Army), a b 536; (Arsenals), a 555; (Belgium), III, a b 454; (Bible Societies), b 562; (Bolivia), IV, a b 16; (Brazil), a b 206; (Brewing), a b 236; (Buccaneers), b 367-9; (Buckle), a 379; (Buenos Ayres), a b 395; (Coal), VI, a b 55, b 73; (Cocoa), a 93, b 94; (Commerce), a 181; (Condé the Great), a b 220; (Corn Laws), a 366; (Cuba), a b 600; (Drake), VII, a 338; (England), VIII, b 306-7, b 308-9, a b 318, b 325-6; (Europe), b 599, b 601, a b 602, a b 604, a b 607, *a b* 611, a b 617, b 618, *a* 620, a b 621, a b 622, a b 623, *a* 624, a 626, a 630; (Finance), IX, b 156; (Florida), a *b* 298; (Florida Blanca), a 299; (Forests), b 349, *a* 350, a 355; (France), a 501, b 542, *a b* 543; (Franche Comté), b 605-6; (Glass), X, b 581, *a b* 582, a b 583; (Goths), a b 756; (Hamilcar), XI, a 367; (Hannibal), b 394-5, b 396; (Holland), XII, a 77-82, b 84; (Honduras, British), a b 137; (Iberians), b 639; (Ichthyology), a 671; (Inquisition), XIII, b 99-1; (International), a b 196; (Ireland), *b* 271; (Isabella the Catholic), b 385; (Italy), b 491-4; (Jamaica), a b 560; (James I., England), a b 568-9; (Jesuits), b 659, a b 665, b 666; (Jews), b 696; (Jimenes), b 704-5; (Lead), XIV, a 375; (Libraries), b 513, a 532, b 551
- —— (Malta), XV, a b 345; (Martial), b 585; (Messina), XVI, b 62; (Meteorology), a 128, b 145, b 147, a 151, b 157; (Metternich), b 209-10; (Mexico), b 227-8, a 899, b 902, a 903-4, a 907, b 911; (Mining), b 490; (Mississippi), a b 547; (Mohammedanism), a 596, b 598, b 601-2; (Monachism), a b 740-1; (Mules), XVII, a b 20; (Napoleon I.), a b 219, a b 220; (National Debt), a 253, *a b* 254; (Newspapers), *a* b 423, b 442; (Olive), *a* 785; (Observatories), a 734; (Ornithology), XVIII, a 21; (Oyster), b 111; (Paul, St.), a 433; (Periodicals), a b 554; (Peru), a 687, b 690, b 691; (Portugal), XIX, a 563, a 564; (Primogeniture), b 756; (Prison Discipline), b 782; (Quarantine), XX, b 160, *a* b 163; (Railway), b 262; (Reformation), a 337; (Renaissance), a 401-2; (Salt), XXI, b 239, a 242; (Scipio), a 488, *a* b 489; (Sertorius), a b 716; (Shipping), *b* 867; (Sicily), XXII, b 19; (Societies), a b 236, a b 238, a b 239, a b 240; (Trent, Council of), XXIII, a 583; (Universities), a 895, a b 907; (Vandals), XXIV, a 65; (Walpole), a b 357; (Wines), b 634, a 635, *a* 636, b 639-40; (Wool), a 688, a b 697; (Yellow Fever), b 771, *a* 772; Carthaginian invasion of (Rome), XX, b 767, b 768; colonization of (Rome), a b 769; irrigation in (Hydromechanics) (Ill.), XII, b 501-2. See Peninsular War and names of Spanish Kings
- ——, era of (Chronology), V, b 621
- Spalacidæ, family (Mammalia), XV, b 424
- Spalacotherium, fossil (Mammalia) (Ill.), XV, b 378
- SPALATIN, George Burkhardt, reformer, XXII, b 379-80; (Luther), XV, b 74, *a* b 77
- SPALATO, city, XXII, b 380-1
- SPALDING, town, XXII, a 381
- ——, Benedict Joseph, priest, XXII, b 917
- ——, John Lancaster, bishop, XXII, b 917
- SPALDING, Martin John, archbishop, XXII, b 917
- ——, Samuel, logician (Logic), XIV, a b 809
- ——, Solomon, preacher (Mormons), XVI, b 852
- SPALDING, William, logician, XXII, a b 381
- Spalding's prolific wheat (Agriculture), I, a 315
- SPALLANZANI, Lazaro, scientist, XXII, b 381-2; (Lipari Islands), XIV, a 689
- Span, limit of (Arch), II, a b 289; of girders (Bridges), IV, a 269; suspension bridges (Bridges), a 272, a 273
- Spanæmia (Iron, Therapeutics of), XIII, b 369-70. See Anæmia
- SPANDAU, town, XXII, a 382; (Arsenal), II, b 554
- Spandrils (Architecture), II, a 409, b 416; (Bridges), IV, b 273
- Spangár, Andrew, author (Hungary), XII, b 391
- SPANGENBERG, August Gottlieb, Moravian bishop, XXII, a 382-3
- ——, mathematician (Wyttenbach), XXIV, *a* 750
- Spangles in embroidery (Gold Lace), X, b 671
- Spaniards (Acclimatization), I, a b 84; (Canary Islands), IV, b 702-3; (Georgia), X, b 393-4; (New Mexico), XVII, b 411-2; (New Orleans), a 414; (Nicaragua), b 492-3; (Oran), b 833; (St. Louis), XXI, a 195; (West Indies), XXIV, *a* 538; (Whale), a 557; expulsion of (Argentine Republic), II, b 431, a 432; (Bolivia), IV, b 8-9; (Chili), V, a b 537; (Mexico), XVI, a b 897; as discoverers (Geography), X, b 161, a b 162-3, b 165-6, a 170
- Spaniels (Dog) (Ill.), VII, a 285
- Spanish Armada. See ARMADA
- —— art (Architecture), II, b 369, b 371, b 378-80, b 386; (Carving), V, a 148; (Fan), IX, *a* 26; (Filigree), a 144; (Lace), XIV, a 375; (Metal-Work), XVI, b 81-2; (Miniature), a 458; (Music), XVII, b 91; (Palomino de Castro), XVIII, a 207; (Plate), XIX, a 196; (Pottery and Porcelain), a b 648; (Schools of Painting) (Ill.), XXI, b 459-60, a 464, b 465, b 466-7, b 468; (Sculpture), a 593-4; (Textiles), XXIII, b 230; (Wood-Carving), XXIV, b 682; Moorish (Mural Decoration), XVII, b 42, a 43
- —— -Austrian ascendency (Italy), XIII, b 492-501
- —— ballads (Lockhart), XIV, a 770
- —— base lines (Geodesy), X, a 147
- —— Liturgy, XIV, b 713. See Mozarabic
- —— coins (Money), XVI, b 758, notes; (Numismatics), XVII, b 673; Roman (Numismatics), a b 651
- —— Colonies, VI, b 142-3, b 144-5; (America), I, a b 622; (Herrara y Tordesillas), XI, a 682; (Indian Archipelago), XII, b 857, a b 859; (Miranda), XVI, b 521-2; (Slavery), XXII, b 145, a b 146, a b 149, a 151; (United States), XXIII, b 777-8, a 783, a 802, b 806; bibliography of American (Smith), XXII, b 910-1
- —— *Conquest in America* (Helps), XI, a 571
- —— economists (Political Economy), XIX, b 376, b 400, b 415; (Protection), b 941
- —— flies (Cantharides), V, a 29; (Coleoptera), VI, b 120
- —— fowl (Agriculture), I, a 356; (Poultry), XIX, b 665
- —— Fury (Holland), XII, a 79
- —— grass (Esparto), VIII, b 483

Spanish Head, promontory (Man), XV, b 457
— historians, XXII, a b 373, a 376; (Avila), III, b 136; (Mariana), XV, b 546; (Navarrete), XVII, a b 257
— Inquisition, XIII, b 99–101; (Philip II.), XVIII, a b 708; (Spain), XXII, a 341. See INQUISITION
SPANISH LANGUAGE, XXII, a 360–6; (Dictionary), VII, b 160–1; (Europe), VIII, b 614; (Romance), XX, b 685–6
— law (Concordat), VI, b 215–6; (Constitution and Law), *b* 275; (Ferdinand III.), IX, b 71. (Fueros), a 711–2; (International Law), XIII, a 199; (Municipality), XVII, a b 35; (Patents), XVIII, *b* 363; (Veto), XXIV, a 224, a 225; (Witchcraft), b 656
SPANISH LITERATURE, XXII, a 367–79; (Boscan), IV, a 59; (Calderon de la Barca), b 585–7; (Drama), VII, a 340, a 341, a b 358, b 362–5; (Garcilaso de la Vega), X, b 67; (Isla), XIII, a b 397; (Jovellanos), b 765; (Pastoral), XVIII, a 351; (Quintana), XX, b 193; (Renaissance), b 401; (Romance), a 670–4, a b 677–8; (Vega Carpio), XXIV, b 134–6; *History of* (Ticknor), XXIII, *b* 374–5
— Mackerel, XV, b 160
— Mahogany, XV, b 290
"Spanish marriages, The" (Dalling), VI, a b 689; (France), IX, a b 547; (Guizot), XI, a 240; (Palmerston), XVIII, b 199; (Portugal), XIX, a b 564; (Spain), XXII, b 359
— *Nautical Almanac* (Navigation), XVII, b 268
— Netherlands (Holland), XII, b 80, b 84
— nuts (Hazel), XI, a 490
— Royal Academy, I, b 73; (Madrid), XV, b 192
Spanish Student (Longfellow), XIV, b 871–2, b 873
— succession and its wars (Austria), III, a 110–1; (Balance of Power), b 232; (Buccaneers), IV, a 369; (England), VIII, a b 316; (Eugene), b 579; (Europe), b 627–8; (France), IX, b 511, a 512–4; (Germany), X. b 450; (Gibraltar), a 523; (Joseph I.), XIII, a 760; (Leopold I.), XIV, a 467; (Marlborough), XV, b 581–2; (Peterborough), XVIII, b 714; (Philip V.), a 760; (Popedom), XIX, a b 521; (Spain), XXII, b 348–9, a b 350
— systems (Shorthand), XXI, a 881
— Town (Jamaica), XIII, a b 560
Spanish Tragedy (Jonson), XIII, b 751
— windlass (Seamanship) (Ill.), XXI, *a* 619
"Spanker" (Horse), XII, *b* 187
— boom (Sail), XXI, b 161
Spar (Mineralogy), XVI, a 413, a 414; brown (Mineralogy), b 387; calcareous (Mineralogy), a 390; heavy (Mineralogy), b 384, a 387, b 391, a 417; ice (Mineralogy), a 437. See Moonstone; Iceland (Mineralogy), b 379, a b 390, b 413. See Iceland spar; lead (Mineralogy), a 415; manganese (Mineralogy), b 434; pearl (Mineralogy) (Ill.), b 383, a 414; satin (Mineralogy), a 385, b 414; schiller (Mineralogy), a 433; slate (Mineralogy), b 413; tabular (Mineralogy), a 385, b 433
Sparagmite, mineral (Norway), XVII, *b* 591
Sparging (Brewing), IV, a 245
Sparidæ, family (Ichthyology), XII, a 716, b 719, a 727
Sparkling Wines, XXIV, b 635, a b 638, b 643
Spark recorder (Telegraph), XXIII, b 134
SPARKS, Jared, biographer, XXII, b 917–8
Sparling or Spirling, fish (Salmonidæ), XXI, a 234
Sparoid scales (Ichthyology), XII, a 676
Sparre, Per Georg, count, novelist (Sweden) XXII, a 796
SPARROW, bird, XXII, a b 383; (Birds), III, b 610, b 633, a 654; green (Tody), XXIII, a 460; eggs of (Birds), III, a 671
Sparrow-Hawk (Ill.), XI, b 477; (Falconry), IX, b 11, a 12; (Kestrel), XIV, a 56
Sparrowe's House (Ipswich), XIII, a 218
SPARTA, state, XXII, b 383–5; (Agrarian Laws), I, b 256; (Agis), b 252–3; (Alcibiades), b 414; (Argos), II, b 437; (Army), b 491; (Aristides), b 444; (Artemis), a 563; (Bachelor), III, a b 170; (Brasidas), IV, a b 195; (Conon), VI, b 258; (Corinth), b 353; (Crete), a 505, note; (Cryptography), b 592; (Dorians), VII, b 317, *b* 318; (Finance), IX, b 150; (Flagellants), a 245; (Greece), XI, a 77, *b* 84, a b 85, a 88, a b 89, a b 90, a 91, a b 92, b 96; (Gythium), a 317; (Helena), a 562; (Hellanicus), b 566; (Helots) a 570; (Isocrates), XIII, a 403; (Laconia), XIV, a 194; (Lycurgus), XV, b 96, a 97, a 98; (Megalopolis), a 836; (Messenia), XVI, *a* 58; (Money), a 749; (Nobility), XVII, b 540; (Numismatics,) a 660; (Olympia), b 787–8; (Pelopidas), XVIII, b 489–90; (Persia), a 584, a b 585, a b 587, b 588–9; (Philopœmen), a b 804; (Plato), XIX, a 222; (Rings), XX, a 575; (Sacrifice), XXI, a 143, b 144; (Slavery), XXII, b 139; (Sumptuary Laws), b 677; (Tarentum), XXIII, b 67; (Tegea), *b* 117; (Themistocles), a b 270; (Xenophon), XXIV, *b* 756, a b 757; Scias of (Archæology), II, b 309
SPARTACUS, gladiator, XXII, a b 385; (Gladiators), X, b 563; (Rome), XX, a 780, a 781; (Vesuvius), XXIV, a 212
Spartanburg, county and town (South Carolina), XXII, *b* 301, b 302
Spartel, cape (Morocco), XVI, a 857
Spartianus, Ælius (Augustan History), III, a b 65; (Hadrian), XI, a 326, a 327
Spartivento, cape (Italy), XIII, b 444
Spartleton hill (Haddington), XI, b 322
Spartoi, race (Cadmus), IV, a 559
Spasm (Cramp), VI, b 481–2; (Hooping-Cough), XII, b 157, a 158
Spasmodic Asthma, II, a 644; Croup, VI, a b 545; (Throat Diseases), XXIII, a 341
— school of poets (Dobell), VII, a 267; (Smith, Alexander), XXII, a 182
Spat (Oyster), XVIII, b 110, b 113, a b 114
Spatangoida, sub-order (Echinodermata) (Ill.), VII, *a b* 545, *a* b 546, *a* 547
Spatangus, genus (Morphology) (Ill.), XVI, a 871
Spatha, sheath in (Botany) (Ill.) (Plate XVI), IV, b 108
Spathegaster, insect (Galls), X, *a* b 40, note
Spathic ore (Iron), XIII, b 291, a 292, b 293–4
Spathiopyrite (Mineralogy), XVI, b 406
Spatula, genus (Shoveller), XXI, a b 882
Spaur, countess of (Dodwell, E.), VII, a 281
Spawn of Mushroom, XVII, a 82, a 83; (Horticulture), XII, b 296
Spawning (Fisheries), IX, a b 213; (Mackerel), XV, b 159, a 160; (Salmonidæ), XXI, a 235; season (Pisciculture), XIX, a b 136
Speaker of the House of Commons (Parliament), XVIII, b 311, b 316, a *b* 317, a 318
Speaker's Commentary (Jonah), XIII, b 747
Speaking Trumpet. See TRUMPET
Spear, cape (St. John's), XXI, b 184
Spear head in Ivory, XIII, a b 531
Spear-mint (Horticulture), XII, b 302; (Mint), XVI, b 514
Spears. See ARMS and ARMOR
Special Jury, XIII, b 795
Specialization in education (Universities), XXIII, b 959–60
Special Pleading, XIX, a 230, note, b 231
Specie circular, Jackson's (United States), XXIII, b 814–5; (Jackson, A.), XIII, a 544; payment, English resumption of, 1819 (Banking), III, b 276; (Peel), XVIII, a 465; remittance (Exchange), VIII, b 692–3; reserves in Bank of England (Banking), III, a 279; in Bank of France a b 292; suspension of payments in (United States), XXIII, a b 824, a 833
SPECIES in classification, XXII, b 385–6; (Botany), IV, a 71; (Distribution), VII, a 233; (Hybridism), XII, a 438–9, a b 440–1; cessation of (Geology), X, a b 288–9; cycle of (Morphology), XVI, a 870; dispersion of (Geology), X, a 286; distribution of (Geology), a b 287, a b 288–9; origin of (Biology), III, b 596–7; (Hunter), XII, a 407; (Lamarck), XIV, b 232–3; (Mythology), XVII, b 163–(Variation), XXIV, a 83; 92
Species, Origin of, Darwin's (Evolution), VIII, b 668–9; (Ornithology), XVIII, b 36; (Variation and Selection), XXIV, *b* 84, b 86, note, *a* 87, a 88, a b 89, a 90; analysis of (Variation and Selection), a 85–6; (Zoology), a 844, a 849, b 853, a 857
— of disease (Pathology), XVIII, a 413
— in logic, conceptual, XXII, b 385–6; (Scholasticism), XXI, a 434; realistic (Scholasticism), b 440, *a* b 441, a b 442, a b 447
Species Plantarum (Linnæus), XIV, b 680
Specific absorption of plants (Physiology), XIX, b 51–2
Specifications (Patents), XVIII, b 360
Specific fever (Surgery), XXII, b 714
— gravity (Gold), X, b 659; (Hydromechanics), XII, a 451, a b 456–8; (Hydrometer), a 568 *sq.*; (Mediterranean Sea), XV, a 830; (Metals), XVI, a 71, b 73–4; (Sea Water), XXI, b 644, note, a 645; of elements (Chemistry), V, a b 471; of essential Oils, XVII, b 770; of fixed Oils, a 761, a b 765; of gases (Chemistry), V, a 415; of Hiero's coin (Archimedes), II, b 332; of materials (Bridges), IV, b 257; of Paraffins, XVIII, a b 243, a 246; of rocks (Geology), X, a 205
— Heat, XI, *a* 497, b 514–5; (Black), III, b 690; (Carbon), V, b 77; (Metals), XVI, b 71, b 74; (Water), XXIV, b 421; constant pressure and volume (Steam-Engine), XXII, a b 498; of a fluid (Thermodynamics), XXIII, a 307; of gases (Atom), III, *b* 36; performance, remedy (Sale), XXI, a 217
— volume (Hydromechanics), XII, b 455
Speckbacher, Joseph, patriot (Hall), XI, b 346
Speckle, engineer (Fortification), IX, b 392
SPECTACLES, optical, XXII, b 386–7; (Microscope), XVI, a 268
— snake (Cobra), VI, b 83

- *Spectator*, periodical (Addison), I, a b 136, a 137, a 138; (English Literature), VIII, b 380; (Johnson, S.), XIII, a b 734; (Periodicals), XVIII, b 547, a 550; (Steele), XXII, b 555
- Spectres (Apparitions), II, a b 180; (Magic), XV, b 207–8
- Spectrometer, instrument (Optics), XVII, a 824
- Spectrophone (Telephone), XXIII, b 140
- Spectroscope, XXII, b 387–9; (Geology), X, b 191–2; (Optics), XVII, a 826, a 831; (Wave Theory), XXIV, b 446, a b 447–8, a 454, a b 460; Lick (Telescopic Work), XXIII, a 934
- SPECTROSCOPY (Ill.), XXII, b 387–96
  - alkaline metals and earths, b 389–90
  - aluminium group, a 391
  - body and its compounds relation of their spectra, b 394–5
  - cerium group, b 390–1
  - chromium group, b 391
  - copper group, b 390
  - definitions, b 387
  - different elements, relations of their spectra, b 395–6
  - illumination of bodies, a b 388
  - instrument, b 387
  - iron group, a b 391
  - lead group, b 390
  - magnesium group, b 390
  - metalloids, a b 389
  - metals and their compounds, b 389–92
  - numerical relations between waves of a spectrum, a 393–4
  - preparation of bodies for analysis, b 388–9
  - resolving power, a 388
  - temperature and pressure, influence on gases, a 392–3
- —— (Aurora), III, b 81–3; (Cadmium), IV, b 558; (Fraunhofer), IX, b 640; (Gold), X, b 659, a 670; (Light), XIV, b 596–7, b 599, a 601, b 612–3; (Meteor), XVI, b 117, b 118; (Newton), XVII, a b 452; (Optics), a b 825, b 827, a b 828; absorption (Light) (Ill.), XIV b 605–7
- —— analysis (Atom), III, a b 38, a 39, b 42, b 43; (Forbes, J. D.), IX, a 344; (Iron), XIII, a 296, note; (Metals), XVI, b 68; (Secchi), XXI, b 647; (Thallium), XXIII, b 237; of steel (Iron), XIII, b 344, note
- —— of chlorophyll (Physiology), XIX, a 60, b 62, a 63; comets (Astronomy), II, a b 713, a 714; effects (Photography) (Ill.), XVIII, a b 848–52; of gratings (Wave Theory), XXIV, b 460–3; light and heat (Radiation), XX, a b 220, a 222–3; lines (Molecule), XVI, b 638; of nebulæ (Astronomy), II, a 719; prisms (Wave Theory), XXIV, a 446, a b 450; of Rainband, XX, b 267–8; Solar (Sun), XXII, *b* 689; (Astronomy), II, a 689–90; (Meteorology), XVI, a 189; solar corona (Sun), XXII, b 681, b 682; solar chromosphere, b 680–1, a b 682, a 685; of solar spots, a b 680; stellar (Astronomy), II, b 715–6, a 718; (Sun), XXII, b 684–6; photography (Telescopic Work) XXIII, a b 933. See PHOTOGRAPHY; Talbot's band in (Wave Theory), XXIV, b 466
- Specular ore (Iron), XIII, b 291, a b 292
- Speculation (Corn Laws), VI, a 365; (Famines), IX, b 24; (Hudson, G.), XII, b 345–6; in education, American (Universities), XXIII, a b 958; in 1824–5 (Banking), III, a 277; (United States), XXIII, a b 814–5, a 832
- —— religious (Mysticism), XVII, b 136, a b 140; (Theism), XXIII, b 268
- Speculative debating society (Brougham), IV, a 337; (Mill, J. S.), XVI, b 322, a 323; method (Theology), XXIII, b 288–9
- Speculum (Copper), VI, b 311; (Medicine), XV, b 812; (Mirror), XVI, b 524–5; (Optics), XVII, b 829; (Telescope), XXIII, b 158–9; metal for (Bronze), IV, a 330; polishing (Rossi), XX, b 878
- —— alloy (Rosse), XX, b 878
- *Speculum Historiale de Gestis Regum Angliæ* (Richard of Cirencester), XX, *b* 557
- —— *Humanæ Salvationis* (Typography), XXIII, b 725, b 730, b 732, a b 735, *a* 736, *a* 737, a 738
- —— *Judiciale of Durandus*, VII, a 477
- —— *Majus* or *Bibliotheca Mundi* (Encyclopædia), VIII, a b 175; (Vincent), XXIV, a 253–4
- Spedding, James, biographer (Bacon), III, b 173, a b 174 note, a 176 note, a 178 note, a 188
- Spee, Friedrich von, poet (Germany), X, a 474; (Witchcraft), XXIV, b 656, note
- Speech (Drama), VII, a 343; philosophy of (Humboldt, W.), XII, a 360; physiology of (Stammering), XXII, a b 464; simplicity of signs (Philology), XVIII, b 783; visible (Alphabet), I, b 534–5
- Speeches, fictitious (Acts of the Apostles), I, b 117; (History), XII, b 23–4; (Pericles), XVIII, a b 541, notes, a 544; (Thucydides), XXIII, b 346, a 348
- *Speeches of Birds*, 'Attár (Persia), XVIII, a b 671
- —— *of the Wise King Solomon* (Poland), XIX, b 311
- SPEECH-SOUNDS, XXII, a 396–405
  - accent and emphasis, b 398–9
- SPEECH-SOUNDS, *continued*
  - accent symbols, b 404
  - alphabetical list of symbols, a 400–4
  - analysis, a 399
  - bibliography, a b 405
  - diphthongs, a 397
  - glides and vanishes, a 397–8
  - glottids and physems, b 396–7
  - intonation, a 399
  - nature of, a b 396
  - notation systems, b 399–400
  - numeral symbols, a 404
  - orinasals, a 398
  - palatalization, labialization, a b 398
  - point symbols, a b 404
  - practical alphabets, b 404–5
  - signs, b 404
  - syllables, b 398
  - symbolization, a 396
  - symbols, alphabetical list of, a 400–4
  - vowels, b 396
- Speed (Mechanics), XV, a 687–8; cones (Mechanics) (Ill.), a b 770; fluctuations (Steam-Engine), XXII, a 534, b 535–6; heat influence of piston- (Steam-Engine), a 508; high rotative (Steam Engine), a 922; of locomotives (Railway), XX, a 255; in marine engines of piston (Steam-Engine), XXII, *b* 546, a 547; printing (Typography), XXIII, b 751–4, a 756; regulation of (Steam-Engine), XXII, a 529–30; steamships (Navy), XVII, a 299; of Tides, XXIII, a 388–9, a 393
- —— Sights (Ill.), XXII, a b 53
- —— signalling (Telegraph), XXIII, b 135–6
- Speedwell, plant (Horticulture), XII, b 260
- "Speedy," sloop of war (Dundonald), VII, a 466
- Speer, William, assayer (Hydrometer), XII, b 569, b 571
- Speeton, Clay (Geology), X, a b 317
- Spegel, Haquin, bishop (Scandinavian Languages) XXI, a 389; (Sweden), XXII, a 793
- Speght, Thomas, antiquary (Chaucer), V, *b* 389
- Speidell's *New Logarithmes* (Tables), XXIII, a 17
- Speier, town. See SPIRES
- Speis, alloy (Metallurgy), XVI, b 66; (Cobalt), VI, b 75, a b 76, a 77; (Nickel), XVII, *a* 501
- Speke, gulf (Nile), XVII, a 518
- SPEKE, John Channing, explorer, XXII, b 405–6; (Africa), I, b 221, a 222; (Geography), X, b 173; (Nile), XVII, *b* 521; (Tanganyika), XXIII, a 50
- Spelling, syllabic (China), V, a 570; reform (Phonetics), XVIII, a b 825
- Spello, paintings at (Pinturicchio), XIX, *a* b 118
- Spelt (Maize) XV, b 311; (Wheat), XXIV, b 561, *a* b 562, a b 563
- Spelter, metal (Zinc), XXIV, a 823, note, b 824, a 825
- Spence, Bate C., naturalist (Crustacea), VI, a b 559, note, a 560, a 561, a 564, note, a b 566, a b 568, a 569, a b 572, notes, a b 573, note, b 576 note, a b 577, b 580 note, a 583 note, b 585
- ——, Joseph, critic (Pope), XIX, a 497 note
- ——, William, entomologist (Insects), XIII, b 148, b 153, *b* 160, a 161
- Spencer gulf (South Australia), XXII, a 297, a b 300
- ——, Charles. See SUNDERLAND
- ——, George John, earl (Bibliography), III, a 566, a 567 note, a 568; (Dibdin), VII, *a* b 149; (Pitt), XIX, b 151, b 154
- —— Herbert, philosopher, *b*. 1820 (Acclimatization), I, b 81; (Æsthetics), b 192, a b 201; (Apparitions), II, a 177; (Association of Ideas), b 640, *a* 641, a 642; (Breeds), IV, *a* 220; (Comte), VI, b 209; (Dream), VII, *b* 391, a 392; (Education), a b 588; (Ethnography), VIII, b 540; (Evolution), a 656, a 669–70; (Family), IX, a 23; (Fasting), a 40; (Fine Arts), a b 185, a 186; (Funeral Rites), a b 726; (Government), XI, b 9, a 10, b 16–7; (Logic), XIV, a 806 note; (Metaphysic), XVI, a 88, a 94, b 100, *b* 105; (Morphology), b 866, a b 868, b 869, a 873; (Mythology), XVII, a 148–9; (Phrenology), XVIII, a 862; (Political Economy), XIX, a 414; (Psychology), XX, b 44, a 48, b 55, b 58, a 66 note, a 70, a 71, a 72, b 74, b 90; (Reproduction), b 434–5; (Schopenhauer), XXI, b 478; (Theism), XXIII, b 265, a 267; (Totemism), a 506; (Variation and Selection), XXIV, a b 84, a 87, *a* 88, a 89, a b 91; (Zoology), b 837, b 842, b 857
- ——, Honora, archer (Archery), II, a 330
- SPENCER, John Charles Althorp, 3d earl, XXII, a b 406; (Brougham), IV, *b* 340, *b* 341; (Grey), XI, a 172
- ——, Sir John, lord mayor (Northampton), XVII, a 572
- ——, Robert. See SUNDERLAND
- ——, Thomas, inventor (Electro-Metallurgy), VIII, a b 108; (Filter), IX, a b 148, b 149; his objective (Telescopic Work), XXIII, a 934; his rotary furnace (Iron) (Ill.), XIII, a 332, 333
- Spence's metal (Iron), XIII, a 287; process (Copperas), VI, a 313
- Spendius, mutineer (Hamilcar), XI, *b* 366
- Spendone, head-dress (Costume), VI, b 401
- Spendthrift, interdiction of (Roman Law), XX, a 704

SPENER, Philipp Jakob, pietist, XXII, b 406-7; (Casuistry), V, a 178; (Germany), X, a 476; (Hymns), XII, a 622; (Pietism), XIX, b 91-3; (Seckendorf), XXI, *a* 648; (Zinzendorf), XXIV, a *b* 827
Spengel, L., philologist (Aristotle), II, b 454, a b 457, b 459
SPENNYMOOR, town, XXII, a b 407
SPENSER, Edmund, poet, XXII, b 407-10
  birth and education, b 407-8
  Faery Queen, a 409-10
  Irish Secretary, life, b 408-9
  last productions and years, a b 410
  Shepherd's Calendar period, a b 408
—— (England), VIII, b 307; (English Literature), a b 372, a 373; (Epithalamium), a 440; (Harvey), XI, a 448; (Ireland), XIII, *a* 271; (Milton), XVI, b 350; (Pastoral), XVIII, a 351; (Raleigh), XX, b 274
Spenserian metre (Alexandrine Verse), I, a b 442
Speotyto, genus (Owl), XVIII, a 94
Speranski, Mikhail, statesman (Russia), XXI, b 109; (Siberia), XXII, b 16
Speranze d'Italia, Balbo's (Italy), XIII, b 497
Speratus, Paul, preacher (Luther), XV, a 79
Sperenberg, town, Prussia (Artesian Wells), II, a 565
Speriferidæ, family (Brachiopoda), IV, b 176-7
SPERMACETI, XXII, b 410-1; (Candle), IV, b 709; (Mammalia), XV, b 399; (Oils), XVII, b 761; (Whale), XXIV, a b 554, a 558; (Whale Oils), *b* 558
Spermagones (Botany) (Ill.), IV, a b 144
Spermathecæ, organ (Bee), III, *a* 426; (Worms), XXIV, a b 718; (Mollusca), XVI, b 685-6
Spermaphyta, sub-kingdom (Vegetable Kingdom), XXIV, a 136, a 142-3
Spermatia, organs (Fungus), IX, a b 732, *b* 733; (Lichens) (Ill.), XIV, a b 558; (Reproduction), XX, a 438
Spermatic bloodvessels (Anatomy), I, a b 793
Spermatoblasts (Reproduction) (Ill.), XX, a b 424
Spermatogenesis, process (Reproduction) (Ill.), XX, b 423-5
Spermatophores, filaments (Cuttle-Fish), VI, *b* 652
Spermatozoa (Nematoidea), XVII, a 334; (Reproduction) (Ill.), XX, *b* 420, a 423-5, b 429, a 430, note; (Sponges), XXII, b 441; (Trematoda), XXIII, b 570, a 571; (Zoology), XXIV, *b* 854; (Worm), a b 716
Spermatozoids (Acotyledones), I, b 93; (Muscineæ), XVII, *a* 72, a 75; of cryptogams (Botany) (Ill.), IV, b 126, a 128
Sperm-cells (Hydrozoa), XII, a 583; (Zoology), XXIV, a 856, a b 857
Spermoderm (Botany) (Ill.), IV, b 139-40
Spermogones, organs (Lichens) (Ill.), XIV, a 557, a 558-9, a b 561
Sperm oil (Oils), XVII, a 762
Spermophilus, genus (Mammalia), XV, a 423; (Marmot), XV, b 566, *a* b 567-8
Sperm-ropes (Mollusca), XVI, a 708
—— -whale (Mammalia), XV, a 376; (Whale) (Ill.), XXIV, a b 554, a *b* 557
Sperrin, mountains (Tyrone), XXIII, b 759
Spessartwald (Forests), IX, a 352
SPEUSIPPUS, philosopher, XXII, a 411-2; (Academy), I, a b 67; (Ethics), VIII, b 515; (Evolution), b 662; (Xenocrates), XXIV, a *b* 754
SPEY, river, XXII, a b 412; (Elgin), VIII, *b* 121, *a* 122
Speyer, city. See SPIRES
SPEZIA, city, XXII, b 412; (Italy), XIII, b 468; gulf of, XXII, b 412; (Italy), XIII, b 446
Spezzia, island (Greece), XI, b 75, a 80, b 110
Sphacelariæ, family (Vegetable Kingdom), XXIV, *a* 138
Sphaceloma ampelinum, fungus (Vine), XXIV, *b* 258
Sphacteria or Sphagia, island (Cleon), V, b 721; (Navarino), XVII, *b* 256
Sphæria, island. See PAROS
Sphæriæ simplices, species (Fungus), IX, a 733
Sphærida, family (Protozoa) (Ill.), XIX, b 872-3
Sphæridia, organs (Echinodermata), VII, b 545
Sphæristerium (Baths), III, a b 377
Sphærocapsida, family (Protozoa), XIX, b 874
Sphærodontidæ, family (Ichthyology), XII, a 726
Sphæromidæ, family (Crustacea), VI, a b 583
Sphæronites, genus (Echinodermata) (Ill.), VII, b 552, a b 553
Sphærophoron, genus (Lichens), XIV, a 558, b 564
Sphærophrya, genus (Protozoa), XIX, a b 890
Sphærotherium, genus (Myriapoda), XVII, a 126
Sphagnaceæ, class (Muscineæ), XVII, a 80; (Vegetable Kingdom), XXIV, *b* 140
Sphagnum, genus (Botany), IV, b 75, b 146; (Geology), X, a 257; (Muscineæ) (Ill.), XVII, b 71, a *b* 77, a *b* 78, a 79, a 80, a 81
Sphakiots, tribe (Greece), XI, b 108
Sphargidæ, family (Tortoise), XXIII, b 485, b 486
Sphargis, genus (Reptiles) (Ill.), XX, *a b* 459, *b* 461, a 462, a b 467, b 480
Sphecotheres, genus (Oriole), XVII, a 869
Sphene, mineral (Mineralogy) (Ill.), XVI, a 380, b 391, a 444
Sphen-ethmoid bone (Amphibia), I, a 661, b 662, b 664, a 665, b 667
Spheniscidæ, family (Birds), III, b 646, a 647; (Penguin), XVIII, b 501, b 502
Sphenoid bone (Anatomy) (Ill.), I, b 721, a 722
—— crystals (Mineralogy) (Ill.), XVI, b 370, a b 373
Sphere and Cylinder (Archimedes), II, a 333
Sphere-dwellers (Measurement), XV, b 665-6
Spheres (Geometry), X, a 346; (Infinitesimal Calculus), XIII, b 60, a b 61; (Magnetism) (Ill.), XV, b 223-4, a 233, b 235-7, b 245-6, a 247, *a b* 248-9, a 259, b 263-4; (Mensuration), XVI, a 30, a 31, a 32; bursting of (Strength of Materials), XXII, a b 639; displacement of (Mechanics), XV, b 698; elastic (Mechanics), a 728; (Molecule), XVI, b 642-3; electricity of, VIII, b 29-30; equation of (Geometry), X, b 374-5; hollow-, rolling of (Mechanics), XV, b 742; inelastic (Mechanics), a 728; (Measurement), a 674; lines of the (Surface), XXII, b 704; motion in liquids of (Hydromechanics), XII, a b 474; oblique impact of (Mechanics), XV, b 728; pressure upon (Mechanics), a 753, b 754; of projection (Mineralogy) (Ill.), XVI, a b 366; smooth, impact of (Mechanics), XV, b 727-9
Spherical aberration (Eye) (Ill.), VIII, a b 716; (Light), XIV, a 593; (Microscope), XVI, a b 270, a b 272; (Wave Theory), XXIV, b 446-7
—— atoms (Molecule), XVI, a 635; co-ordinates, rectangular (Surveying), XXII, a 743; excess (Trigonometry), XXIII, a b 603; graticulation (Surveying), XXII, b 750-1
—— lenses (Spectacles), XXII, b 386
—— magnet (Magnetism) (Ill.). XV, b 220, b 223-4
—— mirror (Light) (Ill.), XIV, b 591-3
—— quadrilaterals (Trigonometry), XXIII, b 603-4; surface refraction (Light), XIV, b 597-9
—— triangles (Geometry), X, b 336; (Napier), XVII, b 189, b 191; (Navigation), b 273-5, a b 277, b 278
—— Trigonometry, XXIII, a 601-4; (Ptolemy), XX, a b 92, a b 93
—— scleres (Sponges), XXII, b 432
Spherics, Greek treatises on (Theodosius), XXIII, a b 279, note
Spheroid (Mensuration), XVI, a 31; determination of (Geodesy), X, a b 153
Spheroidal figure of the earth (Geography), X, a b 176, a 177
—— reflectors (Acoustics) (Ill.), I, b 99-100
—— triangle (Geodesy), X, a 151-2
—— Trigonometry, XXIII, a 596
Spheroids, attraction of (Laplace), XIV, b 303
SPHEROMETER, instrument, XXII, b 412-3
Spherulite, rock (Geology), X, a 209
Sphincter ani, muscle (Digestive Organs), VII, b 198, a 199
—— muscles (Anatomy), I, a 734
Sphingidæ, family (Butterflies and Moths), IV, a 529; (Insects), XIII, b 157
SPHINX, myth, XXII, a b 413; (Riddles), XX, a 564
—— at Gizeh (Egypt), VII, a 670; (Incense), XII, b 757; temple of the (Mural Decoration), XVII, b 41
—— or Sphingina, genus (Butterflies) (Plate XXX), IV, *b* 528, a b 530, b 631
Sphinxes, XXII, a 413; (Architecture) (Ill.), II, a 339; avenue of (Egypt), VII, a 675
Sphygmograph, recording instrument (Flight), IX, a 272, note; (Vascular System), XXIV, a 106, a 113-4
Sphyrænidæ, family (Ichthyology), XII, a 704, a 716, b 718, a 729
Sphyrelaton, Greek process (Bronze), IV, b 331
Spicheren, battle of, 1870 (Forbach), IX, a 341
Spice Islands (Moluccas), XVI, a 723
Spices (Adulteration), I, a b 156, a 158; (India), XII, b 786
Spice trees (Guiana), XI, b 225
Spiculæ of holothuridea (Echinodermata) (Ill.), VII, a b 554, a 555; of Sponges (Ill.), XXII, a 432-4, b 436, a 445; entoplastic (Protozoa), XIX, b 856
Spiculifera, section (Hymenoptera), XII, *b* 610-1
Spider line (Micrometer), XVI, b 251-2, a 253, b 257
Spider and the Fly (Heywood, John), XI, a 702
Spider monkeys (Ape), II, a b 134
Spiders (Alps), I, a 558; (Arachnida) (Ill.), II, b 239, a 255-63; (Embryology), VIII, b 155; (Mythology), XVII, b 154, a 155; (Reproduction), XX, a 422, a 423; artificial (Angling), II, b 34
Spiderwort or tradescantia (Botany) (Ill.), IV, b 74, a 80, a 123
Spiegel, count, archbishop (Bunsen), IV, a 468
——, Friedrich, historian (Persia), XVIII, b 593, b 618 note, b 627; (Zend Avesta), XXIV, *b* 814
Spiegel Deutscher Leute (Germany), X, b 465, note
Spiegeleisen (Iron), XIII, b 287, a b 290, a 291; manufacture (Iron), b 359-61; in steel (Iron), a 342, a b 353, b 354, a 358

Spigelian lobe (Horse), XII, a 184; (Mammalia) (Ill.), XV, a *b* 366
Spieghel, Hendrick Laurenssen, humanist (Holland), XII, b 96
Spielberg castle (Brunn), IV, a 359
Spielhagen, Frederick, novelist (Germany), X, b 487
Spieltrieb, Schiller on the (Fine Arts), IX, b 173-4
Spies (International Law), XIII, a 201; (War), XXIV, a 384
Spikelets, floral (Botany) (Ill.), IV, a 121; (Grasses) (Ill.), XI, a *b* 49, *a b* 50, *b* 51
SPIKENARD or Nard, perfume, XXII, b 413-4; (Incense), XII, a 757; ploughman's (Digitalis), VII, a 207
Spike oil (Lavender), XIV, b 353
Spilbergen, Joris, admiral (Geography), X, b 166
Spiller and Crookes's process (Photography), XVIII, b 838
Spin, motion (Hydromechanics), XII, b 463, a 467, a b 468, b 469
Spina, partition (Circus), V, *b* 691
Spinach, plant (Horticulture), XII, a b 297, b 300-1
—— mountain (Horticulture), b 297; New Zealand (Horticulture), a 297
Spinacidæ, family (Ichthyology), XII, a 716, a 724; (Shark), XXI, a 815
Spinal accessory nerves (Anatomy) (Ill.), I, b 761, a 774, a 775; (Bell, Sir Charles), III, a 467; (Physiology), XIX, a 50
—— column (Reptiles) (Ill.), XX, b 459-62; (Skeleton), XXII, a 117, a 118-20. See Notochord, Vertebræ
—— cord (Anatomy) (Ill.), I, a 719-20, a b 728, b 732, a 760-1; (Mammalia), XV, b 359-61, b 369; (Monster), XVI, b 789-90; (Physiology) (Ill.), XIX, b 39-41; (Reptiles), XX, a 473; degeneration of (Pathology), XVIII, a 400-2; development of (Physiology), XIX, b 38. See Notochord
—— curvature (Surgery), XXII, a b 728; history of (Surgery), b 708, b 711
—— disease (Meningitis), XVI, *a b* 15; (Myelitis), XVII, b 122; (Paralysis), XVIII, b 260-1
Spindle (Linen Manufactures), XIV, a 671; (Yarn) (Ill.), XXIV, *a b* 766; invention of (Anthropology), II, a 108
——, nucleus (Protozoa) (Ill.), XIX, b 854, a 855
Spindle-tree or Euonymus (Arboriculture), II, b 280; (Botany) (Ill.), IV, a b 140
Spinel, mineral (Mineralogy) (Ill.), XVI, b 376, *b* 378, a 382, a 392, a 393, b 401-2; (Ruby), XXI, b 53, *a b* 54
SPINELLO ARETINO, painter, XXII, b 414
Spines or thorns (Botany) (Ill.), IV, b 86
Spinet, musical instrument (Pianoforte) (Ill.), XIX, b 73, b 74, *a b* 75, *a b* 76
Spinetta Tavola, musical instrument (Pianoforte) (Ill.), XIX, b 76; traversa (Pianoforte) (Ill.), b 76, a 77
Spinetti, Giovanni (Pianoforte), XIX, a 76
Spingurinæ, sub-family (Mammalia), XV, b 425
Spinnaker, sail (Yachting), XXIV, b 760
Spinners or *Las Hilanderas*, painting (Velazquez), XXIV, b 147-8
Spinneret (Butterflies and Moths), IV, a 528; of spider (Arachnida), II, a 259, a 260
Spinning (Jute), XIII, b 812; (Linen Manufacture) (Ill.), XIV, b 670, a 671, b 672-3; (Rope) (Ill.), XX, b 866-9; (Silk), XXII, a 70; (Wool) (Ill.), XXIV, b 693-4; (Yarn), a 776-7
—— in Angling, II, a 31-2
—— Dervish, VII, a 99
—— frame (Arkwright), II, b 474, a 475; (Cotton), VI, a b 435; (Patents), XVIII, b 880
—— jenny (Arkwright), II, b 474; (Cotton), VI, b 434-5, a b 441
—— -mule (Crompton), VI, a 528-9
—— in Pewter manufacture, XVIII, b 738
—— -throstle (Wool),XXIV b 695-6
Spinodes (Infinitesimal Calculus), XIII, a 28
SPINOLA, Ambrogio, Marchese di, general, XXII, b 414-5; (Velazquez), XXIV, b 145
Spinous process (Mammalia) (Ill.), XV, b 359, a b 360; Shark, XXI, a 815
SPINOZA, Baruch or Benedict, philosopher, XXII, a 415-9
    birth and education, a b 415
    Hague period, b 417-8
    last days, a b 418
    literature, a 419
    pantheism of, a 419
    personal appearance, a 419
    philosophical studies and excommunication, b 415
    posthumous history, b 418
    retreats to a Collegiant friend's, b 415-6
    Rhijnsburg life, b 416-7

—— (Anthropomorphism), II, b 109; (Aristotle), b 455, note; (Astrology), a 646, a 649; (Cartesianism), V, *a* 125, a 133-9; (Clauberg), b 711; (Condillac), VI, b 221, a 222; (Cousin), a 467; (Descartes), VII, b 109, *a* 110; (Evolution), VIII, b 664; (Goethe), X, a 647; (Herder), XI, b 652; (Israel), XIII, a 441; (Jacobi), b 546, b 547; (Jesus Christ), a 680, b 682; (Metaphysic), XVI, b 87, b 104, b 105; (Mysticism), XVII, b 136, a b 142; (Pentateuch), XVIII, b 515 note, a 516; (Schelling), XXI, a 410; (Schleiermacher), b 427, *a* 430; (Theism), XXIII, b 263; (Theosophy), a 298; (Trendelenburg), b 577
Spira, John de, printer (Bibliography), III, a 565 note, b 566, a 567
Spiracles, organs (Ichthyology), XII, a b 694
Spiræa, plant (Botany) (Ill.), IV, b 84, a b 128, b 133; (Horticulture), XII, a 260
Spiral, curve (Infinitesimal Calculus), XIII, a 56, a 57; logarithmic (Morphology), XVI, a 870; motion (Mechanics), XV, a b 696
Spirals (Archimedes), II, a b 333
Spiral tusks (Ivory), XIII, b 531, a 533
—— -winding drums (Coal), VI, a 70
Spirastrosa, group (Sponges), XXII, a 440
Spirding See, lake (Germany), X, b 403; (Prussia), XX, b 24
Spires (Architecture), II, a 417, b 418; (Building), IV, b 425
SPIRES, town, XXII, a b 419; (Observatory), XVII, a b 733; 1526, 1529 (Germany), X, *a* 447; (Luther), XV, b 78, *a b* 81, *a* 82; (Melanchthon), XV, b 842; (Trent, Council of), XXIII, *b* 579
Spirialis, genus (Mollusca) (Ill.), XVI, b 689, a 691
Spiricle (Insects), XIII, b 151
Spiriferidæ, family (Brachiopoda), IV, a 172, a 174
Spirillinina, family (Protozoa), XIX, a 871
Spirillum fever (Pathology), XVIII, b 413
—— forms (Schizomycetes) (Ill.), XXI, a b 416, a b 418, a *b* 419, b 421, a b 422, b 423, b 424; (Typhus), XXIII, a 723
Spirit, Hegel's notion of, XI, *b* 551, *a* 552, *b* 553; (Æsthetics), I, b 196
—— colors (Calico-Printing), IV, b 614
Spiritism (Religions), XX, *b* 379, a 380. See Animism
Spirit-level, micrometer (Surveying), XXII, a 755
Spirit of God in men (Paul), XVIII, a 437
Spirit of the Age (Hazlitt), XI, b 491
Spirit-reading (Magic), XV, a 209
Spirits, alcoholic (Distillation), VII, b 229-31; duties on (Finance), IX, b 161; manufacture of (Germany), X, a 405; tin (Dyeing), VII, a b 496; of wine (Alcohol), I, *b* 415; (Chemistry), V, a 489; (Distillation), VII, a 230
——, vital (Physiology), XIX, b 13, a 16, a b 25; Galen's theory (Vascular System), XXIV, a 103
Spiritual domain (Christianity), V, a b 609; (Government), XI, a b 16; (Law), XIV, b 360. See Church and State, Ecclesiastical Law
Spiritual Exercises (Jesuits), XIII, *b* 657, a 658, a 663
SPIRITUALISM, XXII, b 419-22
    conjuring, b 421-2
    fraud theory, a 421-2
    hallucination, b 421
    literature, b 422
    origin of, b 419-20
    phenomena of, b 420-1
    spread of, a b 420
    tendencies of, a b 422

—— (Apparitions), II, b 176, a 177, b 179, a 181-2; (Demonology), VII, a 54, b 56; (Magic), XV, b 204, b 205-6; (Witchcraft), XXIV, b 655. See ANIMISM
Spiritualistes, school (Æsthetics), I, b 198
Spiritualists, sects (Russia), XXI, b 90
Spirituality of nature (Metaphysic), XVI, b 106
Spiritual Mathnawi (Rumi), XXI, b 65
—— *Odes and Songs* (Hymns), XII, b 622-3
Spiritual peers of France (Peerage), XVIII, b 478
Spiritual Poverty, Book of, (Tauler), XXIII, b 88
—— *Power, Considerations on the* (Comte), VI, b 208
—— *Songs, Casket of* (Hymns), XII, b 622
Spirit worship (Mythology), XVII, a 144; (Religions), XX, a 375, a 380. See Ancestor-worship
Spirobolus, genus (Myriapoda), XVII, b 125
Spirochæte, forms (Schizomycetes) (Ill.), XXI, a 416, a 419, a b 422, a 423
Spirochona, genus (Protozoa) (Ill.), XIX, a 859, a 885, b 887
Spirogyra, cells of (Histology), XII, *b* 15, a 16
Spiroloculina, genus (Foraminifera), IX, a 330, a 340; (Protozoa) (Ill.), XIX, a b 869
Spirorbis, genus (Annelida) (Ill.), II, *a* 60, b 61
Spirostomum, genus (Protozoa) (Ill.), XIX, a 885, a 888
Spirula, genus (Cuttle-Fish) (Ill.), VI, a *b* 651, a 653; (Mollusca) (Ill.), XVI, a 695, a 697
Spirulidæ, family (Mollusca), XVI, a 695
Spirulirostra, genus (Mollusca) (Ill.), XVI, a 695, a 697
Spital, town (Berwick upon Tweed), III, b 527
Spitaler-gang, ore (Gold), X, a 661
Spitalfields, district (London), XIV, b 841, a 858, b 860; market (London), XIV, b 838
—— refugees (Friendly Societies), IX, b 685
Spithead Harbor (Portsmouth), XIX a 550
Spits Kop, mountain (Transvaal), XXIII, a *b* 550
Spitta, Karl Johann Philip, poet (Hymns), XII, a 623

- Spitting on the Cross (Templars), XXIII, a b 180-1
- —— Snake, XXII, a 208
- Spittler, Ludwig Timotheus, historian (Germany), X, a 486
- SPITZBERGEN, archipelago (Map), XXII, b 422-6
    - bibliography, b 425-6
    - climate, b 423
    - fauna, b 424-5
    - flora, a b 424
    - geology, a 424
    - history, a b 425
    - islands, b 422-3
    - seas around, b 423
    - situation, b 422
- —— (Geography), X, *b* 171, a 175; (Polar Regions), XIX, b 329, b 330, a 335, *a* 341; (Seal), XXI, a 609; discovery of (Geography), X, a 165; fisheries (Whale), XXIV, *a* 557; ice stream (Greenland), XI, b 148, a 151; miocene formation (Geology), X, a b 323
- Spitzflöte stop (Organ), XVII, a 855
- Spix, Johann Baptist von, naturalist (Agassiz), I, b 245, a 246; Martius), XV, a b 593; (Oken), XVII, *a* 773
- Splachnum, genus (Muscineæ), XVII, a 77, a 78
- Splanchnic nerves (Anatomy), I, a 776; (Nutrition), XVII, a 690; (Physiology), XIX, b 50
- Splanchnopleure, visceral wall (Animal Kingdom), II, 48; (Embryology), VIII, a 154
- Splanchno-skeleton (Anatomy), I, a 719
- Spleen, gland (Anatomy), I, a 797; (Ichthyology), XII, b 693; (Mammalia), XV, b 367; (Physiology), XIX, *a* 15; in agues (Pathology), XVIII, a 405; development of (Vertebrata), XXIV, b 197; in leukæmia (Pathology), XVIII, b 383; removal of (Surgery), XXII, a 727
- ——, nervous disease (Hypochondriasis), XII, b 632-3
- Spleen-stone (Jade), XIII, a 550
- Spleenwort or asplenium (Botany) (Ill.), IV, a 127, b 143
- *Splendid Shilling*, poem, (Philips), XVIII, b 768
- Splenic fever (Murrain), XVII, a 65; (Surgery), XXII, a 714; (Wool-Sorter's Disease), XXIV, a b 698
- —— vein (Anatomy), I, a 796
- Spleuchan, purse (Costume), VI, b 424
- Splice main-brace, defined (Seamanship), XXI, b 634
- Splices (Seamanship) (Ill.), XXI, b 619
- Splint, bone (Horse), XII, a 181
- —— Coal, VI, a 57; (Mineralogy), XVI, b 448
- Splints (Matches), XV, *b* 631, a 632-3
- ——, Hindu (Surgery), XXII, b 707; plaster of Paris (Surgery), b 711
- Split second-hands (Watch), XXIV, b 419
- Splitting (Leather) (Ill.), XIV, b 386-7, a 389; machine (Leather) (Ill.), b 387
- Splügen pass (Alps), I, b 550, *a b* 551; (Grisons), XI, b 182; (Italy), XIII, b 445; (Macdonald), XV, b 136
- Spodumene (Mineralogy) (Ill.), XVI, b 434
- SPOHR, Ludwig, composer, XXII, a 426-7; (Music), XVII, b 104, a b 106, a 107; (Wagner), XXIV, b 334
- Spoils of office, civil service (Marçy), XXIII, a 839; (United States), a b 812; reform of (United States), b 833-4
- Spokane, river, district, town (Washington), XXIV, a b 406, a b 407
- Spoke shaves (Hand Tools), XI, a 391
- Spöl, river (Engadine), VIII, b 193
- Spoleto, duchy of (Italy), XIII, b 478; (Lombards), XIV, a b 823; (States of the Church), XXII, b 477, a 478
- SPOLETO or Spoletium, city, XXII, a b 427; (Aqueduct) (Plate IV), II, a 193; (Lippi), XIV, b 690
- Spon, J., traveller (Archæology), II, b 301
- Spondylus, genus (Mollusca) (Ill.), XVI, a 688, b 720
- Sponge, setting the (Baking), III, b 218, a 219
- Spongelia, genus (Sponges), XXII, b 430, b 439, b 441, b 444
- Spongelidæ, family (Sponges) XXII, b 439
- SPONGES (Ill.), XXII, a 427-46
    - ætiology, b 443-4
    - ascon type, b 428-9
    - bibliography, b 444-5
    - calcarea, b 437, b 438-9
    - classification, a 437-40
    - commerce, a 445-6
    - connective tissue, a b 436
    - cultivation, b 445
    - demospongiæ, a b 438, b 439-40
    - dermal tissues, b 434-6
    - distribution, a b 444
    - embryology (Ill.), b 441-2
    - fishing, a b 445
    - hexactinellida, b 437-8, a b 439
    - histology (Ill.), b 434-6
    - history of science, a 427-8
    - homoplasy, b 442-3
    - megamasticora, b 437
    - micromasticora, b 437-8
    - microscleres (Ill.), b 433-4
    - mineral spicules, a 432
    - myxospongiæ, b 437, b 439
    - oscule, b 431
    - physiology, a b 443
    - pigment cells, b 436
    - radiate types (Ill.), a 432-3
    - reproduction (Ill.), b 440-1
    - rhagon type (Ill.), b 429-31
    - scleroblasts, b 436-7
- SPONGES, *continued*
    - sense cells, a b 436
    - silicispongiæ, b 437, a 439-40
    - simple type (Ill.), a b 428
    - skeleton (Ill.), b 431-4
    - spongin scleres, a 434
    - subdermal cavities (Ill.), b 430-1
    - sycon type (Ill.), a b 429
    - union of scleres (Ill.), a b 434
- —— (Animal Kingdom), II, b 46; (Cœlentera), VI, b 98; (Crustacea), a b 581; (Distribution), VII, a 241, 246; (Dredge), a 400; (Embryology), VIII, b 155; (Foraminifera), IX, a 326, note; (Hydrozoa), XII, b 585; (Morphology), XVI, a 868, a 869; (Reproduction), XX, b 420, b 424, a 431; (Skeleton), XXII, b 113-4
- Sponge-tissue, connective (Histology) (Ill.), XII, b 8-9; muscular (Histology), a 11
- Spongidæ, family (Distribution), VII, a 241, 246; (Sponges), XXII, b 439-40, b 444
- Spongilla, genus (Sponges), XXII, a 438, b 439, b 440, b 442, a 443, b 444
- Spongillidæ, family (Sponges), XXII, b 439, b 440
- Spongin, substance (Sponges), XXII, a 434
- Spongin blasts, cells, XXII (Sponges) (Ill.), XXII, b 436-7
- Spongomere (Sponges), XXII, b 431
- Spongomonadina, family (Protozoa), XIX, b 881
- Spongosphæria, genus (Protozoa) (Ill.), XIX, b 873, a b 875
- Spongy bone (Pathology), XVIII, a 381
- —— metal process, steel (Iron), XIII, b 345-6
- Sponheim monastery (Libraries), XIV, a 513
- Sponsion defined (Treaties), XXIII, b 564; and restipulation (Roman Law), XX, *b* 701-2, a 713
- SPONSOR in Baptism, XXII, a b 446
- Spontaneity, Bain's theory of (Psychology), XX, b 48 note
- Spontaneous activity (Physiology), XIX, a 25
- —— combustion (Chemistry), V, a 417; (Oils), XVII, b 760
- —— generation (Biology), III, b 595-6; (Leeuwenhoek), XIV, a b 412; (Schizomycetes), XXI, a 417. See ABIOGENESIS
- —— plant movement (Physiology), XIX, b 70
- SPONTINI, Gasparo Luigi Pacifico, composer, XXII, b 446-7; (Mendelssohn), XVI, a 11
- Spool, mesh-pin (Net), XVII, a 368
- Spools (Cotton), VI, a 446
- SPOONBILL, bird, XXII, a b 447; (Birds), III, b 652; (Shoveler), XXI, a 882
- SPORADES, islands, XXII, b 447-8; (Numismatics), XVII, b 661
- Sporadinus, genus (Birds), III, a 650
- Sporaugia, organs (Botany) (Ill.), IV, a b 145, a *b* 146; (Reproduction), XX, b 436-7, a 440
- Sporangites huronensis, fossil (Ohio), XVII, b 755
- Spörer on sun spots (Astronomy), II, a 686
- Spores (Biology), III, a 599; (Botany) (Ill.), IV, b 74, a 82; (Fungus), IX, *a* 728, *a* b 730, *a* 731; (Horsetail), XII, a 212; (Lichens) (Ill.), XIV, b 556, *b* 557, a b 558, b 560, b 561; (Protozoa) (Ill.), XIX, *b* 858, a 859, a 860, a 880, b 886; (Reproduction), XX, a b 436, a b 437, a b 440, a b 441, a 442-3; (Truffles) (Ill.), XXIII, a b 629; (Schizomycetes) (Ill.), XXI, b 416, b 419, a b 421, *a* b 424
- Sporidia, organs (Reproduction), XX, b 438
- Sporobolus, genus (Grasses) (Ill.), XI, a 51, a b 53
- Sporocyst, parasite (Trematoda), XXIII, b 571, *a b* 572, *b* 574
- Sporogonium, sporophore or sporophyte (Botany), IV, b 146, a b 147; (Ferns), IX, b 88; (Muscineæ) (Ill.), XVII, b 71, a b 72, b 75, a b 76, b 78, a 79, a b 80; (Reproduction), XX, b 442; (Vegetable Kingdom), XXIV, *b* 140
- Sporont of septata (Protozoa), XIX, b 877, *a* b 878
- Sporosacs, degenerate forms (Hydrozoa) (Ill.), XII, a 583, *a* 587, b 596, b 597
- Sporozoa, class (Protozoa) (Ill.), XIX, *a* 859, *b* 860, a 876, a 877-80
- Sporting (Apperley), II, b 184; (Herbert, H. W.), XI, a 645; (Hunting), XII, b 408; (Partridge), XVIII, a 338; Greek (Oppian), XVII, a b 820; law of (Sunday), XXII, a 690. See Falconry, Game, Hunting
- —— guns (Gunmaking) (Ill.), XI, a 247-9
- SPORTS, *The Book of*, or *Declaration of*, XXII, a 448; (Sunday), b 689-90
- *Sports and Pastimes* (Hunting), XII, b 409, a 410
- *Sportsman, Papers of a* Tourguenieff), XXIII, a 519
- "Sports" of reproduction (Biology), III, a 595; Horticulture), XII, a 219, a 221
- "Sporus" (Hervey, John), XI, a 692
- *Sposalizio* or *Espousal of the Virgin*, paintings (Perugino), XVIII, a 696; (Raphael), XX, a 287
- SPOTSWOOD or Spotiswood, John, archbishop, XXII, a b 448
- ——, Sir Robert, lawyer, XXII, b 448
- Spotsylvania, battle of, 1864 (United States), XXIII, b 827
- Spotted fever (Typhus), XXIII, b 718

SPOTTISWOOD, William, physicist, XXII, b 448–9
Sprague, William, governor (United States), XXIII, a 822
SPRAGUE, William Buel, biographer, XXII, b 918
Sprague's formulæ (Annuities), II, *a* b 75, a 76, a 77; his mortality tables (Insurance), XIII, b 181, b 183
Sprains, treatment (Surgery), XXII, *b* 716, a b 720
SPRAT, fish, XXII, a 449; (Fisheries), IX, b 222-3, b 228–9; (Herring), XI, a 683; (Ichthyology), XII, b 732
Spratt, Thomas, bishop (Cowley), VI, a 473
Spreader tuyere (Iron), XIII, b 313
Spree, river (Berlin), III, a b 512
Spreewald, district (Germany), X, b 403, b 411
SPREMBERG, town, XXII, a 449
Sprengel, Conrad, naturalist (Hybridism), XII, a 442
SPRENGEL, Kurt, physician, XXII, a b 449
Sprengel's, H., dynamic pump (Mercurial Air-Pump), XVI, b 35–6
Sprenger, Aloys, orientalist (Hebrew Language and Literature), XI, *b* 531; (Mohammedanism), XVI, b 620, a 624, a 626
—— and Kramer, inquisitors (Witchcraft), XXIV, b 653
Spreuch-Collegium, court (Savigni), XXI, a 341
SPRING, Gardiner, divine, XXII, b 918
——, Samuel, chaplain, XXII, b 918
Spring and Autumn (Confucius), VI, *a* 234; (China), V, b 573, a b 574
Spring-Balance (Ill.), III, b 225
—— bedding plants (Horticulture), XII, b 269
Springbok (Antelope), II, a 90
Springbokfontein, town (Namabualand), XVII, b 174
Spring-Clocks, VI, a b 25, a 28
—— curtain (Lock), XIV, b 755
Springer in Architecture, II, a 417
Springett, Gulielma (Penn), XVIII, b 504, note, b 507
SPRINGFIELD, Illinois, city, XXII, b 449; (Illinois), XII, a 744, a 745
SPRINGFIELD, Massachusetts, city, XXII, a 450; (Libraries), XIV, b 553; (Pynchon), XX, a 892
SPRINGFIELD, Missouri, city, XXII, a 450
SPRINGFIELD, Ohio, city, XXII, a b 450
Springhaas, animal (Jerboa), XIII, *a* 637
Springing use (Trust), XXIII, b 634
Spring lands, drainage (Agriculture), I, a 295
—— Locks, XIV, a b 755
—— points, switch (Tramway), XXIII, b 539
Springs, mechanical (Elasticity), VII, b 701–2; coach (Carriages), V, a 121; oscillation of flat (Mechanics), XV, b 752–3; pendulum (Clocks), VI, b 13, b 15, a 17; spiral (Elasticity), VII, b 705
——, Mineral. See Mineral, Hot and Thermal Springs and MINERAL WATERS
—— of water (Filter), IX, a b 146; (Fountain), a 428; (Geology), X, b 239–41; (Water-Supply) (Ill.), XXIV, a b 425; composition of (Water), b 420; temperature of (Meteorology), XVI, a 139
Spring Tides, XXIII, b 375, a 376, a b 377, *b* 386, b 392, b 393, b 396; (Mechanics), XV, b 694
—— -tillage (Agriculture), I, b 301–2
—— vetches (Agriculture), I, b 334–5
—— wheat (Agriculture), I, a 315, a b 316; (Wheat), XXIV, b 561, b 562
—— winds (Meteorology), XVI, a 154
Sprinting (Running), XXI, a 67
Sprit-sail sheet knot (Seamanship) (Ill.), XXI, a b 619
Spruce, tree (Arboriculture), II, a 277, a b 280, a 282; (Botany), IV, a 86, a 139, b 142; (Fir), IX, a b 195; forests (United States), XXIII, a 861; Norway (Fir) (Ill.), IX, a b 193, a b 194; rosin from (Fir), a b 194
——, Dr. Richard (Acclimatization), I, b 84, *a* 85
—— beer (Fir), IX, b 194, a 195
Spruel, John, jeweller (Pearl), XVIII, b 458
Spuilzie, Scotch law-term (Trover), XXIII, b 626
Spumariaceæ, group (Protozoa), XIX, a 863
Spun-Glass, X, a 594
—— -Silk, XXII, a 69–70
Spur, poisoned (Platypus), XIX, a 226
Spurge, plant (Botany), IV, a 77, a 78
—— Laurel, XIV, b 348, b 349–50
—— tree, Indian (Gutta-Percha), XI, b 303
Spurius Carvilius, malcontent (Divorce), VII, a 261
Spurred rye, drug (Ergot), VIII, a 461
Spurs (Knighthood), XIV, b 118, a 121; (Ripon), XX, a 583
Spurs, Day of the, battle, 1302 (Courtrai), VI, b 462; (France), IX, b 480
——, fruits- (Horticulture) (Ill.), XII, a 217, b 249–50
SPURZHEIM, Johann Kaspar, phrenologist, XXII, b 450; (Combe, George), VI, b 160–1; (Gall), X, a b 34; (Phrenology), XVIII, a 856, a b 858, a b 859, b 863
Spuyten Duyvil Creek (New York), XVII, a 470
Spynie castle (Inverness), XIII, b 206
Spyrida, family (Protozoa), XIX, b 873
Squadrone Volante, party (Scotland), XXI, b 540
Squalls (Meteorology), XVI, a b 136
Squalodon, fossil (Mammalia), XV, a 397, a 401
Squamata, order (Amphibia), I, b 657; (Reptiles), XX, a b 440, b 449
Squamipinnes, fishes (Ichthyology), XII, b 700–1, a 716, b 718, *a* b 719, a 727
Squammulina, family (Protozoa) (Ill.), XIX, a b 869
Squamosal bone (Amphibia), I, a 661, *a* 663, b 664, a *b* 665, b 667, a 668; (Skeleton), XXII, a 123
Squamous affections (Skin Diseases), XXII, a 131
Squarcione, Francesco (Mantegna), XV, *a b* 508, a 509; (Padua), XVIII, a 136
Square, inverse, law of (Magnetism), XV, b 237–9
—— numbers, problems of (Pisanus), XIX, b 134
——, optical (Surveying), XXII, a 758
—— Pianoforte (Ill.), XIX, b 80, *a* 81, b 82, a 83
—— rig (Sail), XXI, a b 161
—— -root (Algebra), I, a 466, b 472; (Arithmetic), II, b 467
—— and tracker-work (Organ) (Ill.), XVII, a b 858
Squares (Geometry), X, a 337–8, a 340, b 343; (Magic Square) (Ill.), XV, a 214–5; least, method of (Legendre), XIV, b 414–5; (Probability), XIX, *a* 804; (Surveying), XXII, b 739; of numbers (Tables), XXIII, b 12; theorems of (Pythagoras), XX, *b* 146, note, b 147; (Smith), XXII, b 182–3
——. See Parks
SQUARING OF THE CIRCLE, XXII, b 450–4
  algebraic analysis methods, b 452–3
  arithmetical computers, b 451
  Cartesian method, a b 452
  geometrical ratios, ancient, b 450–1
  Hermite's method, b 453–4
  Snell's rectification, b 451–2
  writers on, a 454
Squash (Gourd), XI, a 6
Squatarola helvetica, species (Plover), XIX, a b 239
Squatters, English (Land), XIV, a 265
Squatter sovereignty (United States), XXIII, b 816, b 818, a 819, b 820, a 821
Squeezers (Iron) (Ill.), XIII, b 335–6
Squibs (Pyrotechny), XX, a 142
Squid, fish (Newfoundland), XVII, a b 393
Squier, Ephraim George, archæologist (Casas Grandes), V, *b* 150; (Honduras), XII, b 135, a 136; (Indians), a 868, a 870; (Peru), XVIII, a 693. See List of Contributors
SQUILL, plant, XXII, a 454; (Botany), IV, b 78, a 88; (Morocco), XVI, a 859
Squilla, genus (Crustacea) (Ill.), VI, b 560, a 561, b 563, b 566, a b 571, a b 582, b 584
Squint, defect (Ophthalmology), XVII, a b 807–8. See Strabismus
Squints in Architecture, II, a 417
Squire, attendant (Knighthood), XIV, b 118, *a* b 119, a 121
Squire's Tale, Chaucer (Minstrel), XVI, b 502
SQUIRREL, animal (Ill.), XXII, b 454–5; (Fur), IX, a 736, a 737; (Mammalia), XV, b 405, *b* 420, *b* 421, a 422; flying (Flight) (Ill.), IX, a 270
Squyr of Low Degree (Carriage), V, a 119
Sraddha ceremonies (Pilgrimage), XIX, a 101
S'rauta, rites (Brahmanism), IV, *b* 185
Sranta-sútras (Sanskrit), XXI, a 288, a 290, a 291, b 292, b 293
Srávasti, kingdom (Oudh), XVIII, b 76
Srī or Lakshmi, goddess (Brahmanism), IV, b 187
Sriharikota, island (Nellore), XVII, a 330
Srinagar, town (Kashmir), XIV, *a b* 13, *a* 14
Sringeri, town (Kádúr), XIII, b 824
SRIRANGAM or Seringham, town, XXII, b 455–6; island (Káveri), XIV, *a* 21
Srirangapatan, town. See SERINGAPATAM
Srivilliputur, town (Tinnevelli), XXIII, b 431
Srong-btsan, king (Tibet), XXIII, a 359 note
Srong Tsan Gampo, or dsan or btsan Sgam-po, king of Tibet (Lamaism), XIV, a b 229; (Lhasa), XVI, b 498, a 499, b 501; (Tibet), XXIII, a 367
Sruti (Brahmanism), IV, a 184, b 185
Sryetensk, town (Transbaikalia), XXIII, *a* b 543
Sse, nomads (Persia), XVIII, a 602, b 603, a b 610
STAAL, Marguerite Jeanne Cordier Delaunay, Baronne de, XXII, a 456
Staate, Vierzig Bücher vom (Zachariae), XXIV, b 800–1
Staatsanwälte, officials (Prussia), XX, b 23
Staatsrath, council (Prussia), XX, b 22; (Saxony), XXI, a 375
Staatsrecht, treatise (Zachariae), XXIV, a 801
Staats und der Kirche, Die Einheit des (Zachariae), XXIV, b 809
Staatswirthschaft, Grundriss zu vorlesungen uber die Political Economy), XIX, b 404
Staatswirthschaftliche Untersuchungen (Hermann), XI, b 661–2
'Stab or composing-room (Typography), XXIII, a 757
Stabat Mater (Astorga), II, a 645; (Hymns), XII, b 618; (Pergolesi), XVIII, a 539; (Rossini), XX, a 884

Stabiæ, town (Castel-a-Mare), V, a 168; (Vesuvius), XXIV, b 212
Stability (Building), IV, b 400-1, b 403, a b 404; (Lifeboat), XIV, a 574; (Shipbuilding) (Ill.), XXI, a 849-52; kinetic (Mechanics), XV, a b 717; modulus of (Mechanics), b 759; oceanic (Tides), XXIII, b 384; structural, conditions of (Mechanics), XV, a b 758; substructure (Bridges), IV, b 291-2
——, vow of (Jesuits), XIII, a 657; (Monachism), XVI, a 730, a 731
Stable, Inside of a, painting (Morland), XVI, b 851
Stables, management of (Horse), XII, a b 196-9
Stabroek, town (Georgetown), X, a b 387
Stachelschrift type (Blind), III, b 718
Stack, furnace (Iron), XIII, b 305
Stackelberg, Otto Magnus, archæologist (Bronsted), IV, a 328
Stacking grain (Agriculture) (Ill.), I, a b 323
Stacks, rock columns (Scotland), XXI, b 549
Stack-stool, Young's (Agriculture), I, a 323
Stacte (Incense), XII, a 757
STADE, town, XXII, a b 456; district (Hanover), XI, a b 399
Städel Art Institute (Frankfort), IX, b 621
Staden, district (Stockholm), XXII, a b 587
Stadion, measure (Weights and Measures), XXIV, *a* b 510, a 511
——, race course (Olympia), XVII, a 790
——, Johann Philipp Karl Joseph, count (Metternich), XVI, *a* 208
Stadium, Athens, III, a 8, a 10; Alexandrinum (Rome), XX, b 850; Palatine (Rome) (Ill.), b 843
Stadier, Rodolph, watchmaker (Persia), XVIII, a 650
Stadt-am-Hof, town (Ratisbon), XX, b 303
Stæchades, islands (Lavender), XIV, b 353
STAEL, Anne Louise Germaine Necker, baroness of Stael-Holstein, XXII, b 456-9
    editions of her works, a 459
    literary position of, b 458-9
    Napoleon's persecution of, b 457-8
    parental home, b 456
    Swedish marriage period, b 456-7
    Swiss marriage period, a b 458
—— (Chamisso), V, a 333; (Fauriel, C. C.), IX, a 48; (France), a b 592; (Goethe), X, b 652; (Mackintosh), XV, b 161; (Napoleon I.), XVII, b 206, b 221; (Necker), b 321, a 322; (Sismondi), XXII, a 107
—— -Holstein, Eric Magnus, baron de, diplomatist, XXII, a b 457
Staff, military (Ambulance), I, a b 586; British (Army), II, a 502, b 505-6; (Navy), XVII, a 302; college in England (Army), II, b 505, a 512; Prussian (Army), a 524
——, editorial (American Journalism), XVII, a b 891
——, Musical, XVII, b 87; (Guido), XI, a 229
Staffa, island (Argyllshire), II, a 439, a 440
STAFFORD, county, XXII, a 459-60
Staffordshire Coal (Plate II), VI, b 47, b 48, a 49, b 61-2, a 69, b 72, *a* 73; (Iron), XIII, a 299
—— potteries (Brick), IV, b 250; (Pottery and Porcelain), XIX, a b 651
STAFFORD, town, XXII, b 460-1
——, William, publicist (Political Economy), XIX, a b 369
Staflösa runes (Scandinavian Languages), XXI, a 387, a 388
Stag (Deer), VII, b 22; (Heraldry) (Ill.), XI, a 624; (Hunting), XII, a b 409-10
Stage, censorship of the (Fielding, H.), IX, a b 126; English (Davenant), VI, b 735-6; Greek (Theatre), XXIII, b 241; modern (Theatre), b 243-4; origin of the (Drama), VII, a 350, a 359
—— coaches, English (Horse), XII, b 185, a 196
Stageira, town (Aristotle), II, b 449, note; (Theophrastus), XXIII, a 297
Stage-micrometer (Microscope), XVI, a 289; of Microscope, b 286; mechanical (Microscope), b 287
Stage-plays in English law (Theatre), XXIII, a b 247
—— right (Copyright), VI, a 319, a b 320, a b 322, b 323, a b 325
—— Temple, Thebes (Incense), XII, b 757
Staghound (Dog) (Ill.), VII, a b 285-6; (Hound), XII, *b* 328
Stagira, city. See Stageira
Stagnelius, Erik Johan, poet (Sweden), XXII, b 795
Stagns, town (Meteora), XVI, a b 119
STAHL, Georg Ernst, chemist, XXII, a 461; (Alchemy), I, b 406, b 412, a 413; (Chemistry), V, a *b* 399; (Fermentation), IX, *a* 83; (Medicine), XV, a 822; (Zinc), XXIV, a 823
Staigue, fort (Kerry), XIV, b 54
Stainer of Absam, Jacob, manufacturer (Violin), XXIV, b 263
Stainville, Count de. See CHOISEUL
Stair, family, XXII, a 463
STAIR, James Dalrymple, 1st viscount, XXII, a 461-2; (Scotland), XXI, a b 540
——, John Dalrymple, 1st earl of, XXII, a 463; (Dundee), VII, b 464
——, John Dalrymple, 2d earl of (Linlithgow), XIV, a 677
Stairs (Building) (Ill.), IV, b 406-7, a 423; joining (Building) (Ill.), b 444-7; rails for (Building) (Ill.), a 445-7
Staked Plain (Texas), XXIII, *a* 220, b 221
Stakes, racing (Horse), XII, *a b* 204, *a b* 205, *a b* 206, *a b* 207, b 208, a b 209
Staktometer (Hydrometer), XII, a 571
Stalactites (Adelsberg), I, b 138; (Cave), V, a 232; (Geology), X, a 207, b 213; (Lime), XIV, b 653; (Luray Cavern), XV, b 68, *a b* 69; (Mammoth Cave), a 456; (Mineralogy), XVI, b 385
Stalagmites (Cave), V, a 232; (Lime), XIV, b 653; (Luray Cavern), XV, b 68, b 69; (Malachite), b 317; (Mineralogy), XVI, b 385
Stalagmite Marbles, XV, b 536
Stale mate (Chess), V, a b 515
Stalimene, island. See LEMNOS
Stalls, in churches (Architecture), II, a 417; (Wood-Carving), XXIV, b 681, a b 682, a 683
——, in stables (Horse), XII, a b 196
STALYBRIDGE, borough, XXII, a b 463
Stamboul, city. See CONSTANTINOPLE
Stamen of plants (Botany) (Ill.), IV, a *b* 114, a 122-6; (Grasses) (Ill.), XI, *b* 50, a 51; (Reproduction), XX, a 437
STAMFORD, Connecticut, town, XXII, a 464
STAMFORD, England, town, XXII, b 463-4; (Horse), XII, a 204; (Newspapers), XVII, a 432
Stamfordbridge, battle of, 1066 (Harold III.), XI, a 434
Staminate flower (Botany), IV, b 114
Staminodia, rudimentary organs (Botany), IV, b 108, b 116, b 124
STAMMERING, XXII, a 464-5
—— micturition (Vesical Diseases), XXIV, a 207
Stamp Act (England), VIII, *a* 320; (Finance), IX, a b 162; (Franklin, B.), b 628-9; (Insurance), XIII, b 190-1; (United States), XXIII, a b 785, a 786
—— Congress (United States), XXIII, b 785-6
Stamp collecting (Post-Office), XIX, b 603-5
Stamper press (Oils), XVII, a b 762, a 763
Stamping (Brass), IV, b 196; coin (Mint) (Ill.), XVI, a 513; (Money), a 751
Stamp mill (Gold) (Ill.), X, b 664-5; (Metallurgy), XVI, b 63; (Mining), a 485
Stamps, postal (Hill, Sir R.), XI, a 731; (Post-Office), XIX, a 584, a 593, a 595, a 602-5; French, a 597; German, a b 604
STAMPS, revenue, XXII, a 465-6; (Cheque), V, b 506; (Finance), IX, a 159; (Newspapers), XVII, a b 426, a 427, b 430-2, a 445; (New York), b 894; (Taxation), XXIII, a 95; (Taxation, U.S.), b 924; French (Newspapers), XVII, a 437, a 438
——, rubber (India-Rubber), XII, a 883
Stanches (River Engineering), XX, b 588
Stanchio, island. See Cos
Stanchion in Architecture, II, a 417
Stand, village. See WHITEFIELD
Standard, ensign (Flag) (Ill.), IX, a b 243; ancient (Heraldry), XI, b 608, note
——, battle of the, 1138; (Scotland), XXI, a 505
Standard, London (Newspapers), XVII, b 429
—— bars (Surveying), XXII, a b 732-3; (Surveys), *a* 939
—— Gauge, X, *b* 99
—— gold (Assaying), II, b 633
—— Oil Company (Petroleum), XVIII, b 893
Standards, monetary, XVI, a 746-7, b 756; double (Money), a 756; conflict of (Money), b 761-4; multiple (Money), b 761-2
—— of measure (Earth), VII, b 523-4; (Iridium), XIII, b 281; national (Weights and Measures), XXIV, b 506-7
Standard Time in United States, XXIII, a 421 note
Stände or diet, rise of (Prussia), XX, a 8, *a* 9
—— Rath or council (Switzerland), XXII, a 816, a 834
Ständeversammlung, legislature (Saxony), XXI, *b* 374-5
Standgale, bird (Kestrel), XIV, a 55, note
Standia, isle (Crete), VI, a b 504
Standing Army, rise in England, II, *b* 499
STANDISH, Miles, soldier, XXII, b 918-9
STANFIELD, William Clarkson, painter, XXII, a 466; (Roberts), XX, *b* 612, a 613
Stanford, John, chaplain (Reformatories), XX, b 898, a 900
Stang, Frederik, jurist (Norway), XVII, b 606
Stanga, river (Linköping), XIV, a 675
STANHOPE, Charles, 3d earl of, XXII, a b 466
——, Charles, 1st baron (Post-Office), XIX, *b* 578
STANHOPE, Hester Lucy, XXII, a 467
——, Hester Pitt, XXII, *b* 466, a 467
——, James, 1st earl (George I.), X, *a* 379; (Townshend), XXIII, *b* 523, a 524; (Walpole), XXIV, a *b* 356
——, James, 2d baron (Post-Office), XIX, *b* 578
——, Philip, bastard (Chesterfield), V, b 527, *a* 528
——, Philip Dormer. See CHESTERFIELD
STANISLAU or Stanislavoff, town, XXII, b 467

STANISLAUS, Leszczynski, king of Poland, XXII, b 467; (Augustus II.), III, a b 74; (Austria), a 111; (Charles XII.), V, b 364, a b 365; (Commercy), VI, b 185; (Dwarf), VII, a 490; (France), IX, b 515; (Nancy), XVII, b 177, a 178; (Poland), XIX, b 308-9, a 314
STANISLAUS AUGUSTUS, Poniatowski, Poland, king, XXII, b 467; (Poland), XIX, b 303 note, a b 309, a 310; (Warsaw), XXIV, *b* 396, b 397
—— of Znaim, preacher (Huss), XII, a b 420
Stanislaw, St. (Poland), XIX, b 298
Stanko, island (Cos), VI, a 393
Stanley, harbor and town (Falkland Islands), IX, *b* 14, a b 15
——, Anthony D., mathematician (Tables), XXIII, b 16
STANLEY, Arthur Penrhyn, dean, XXII, b 467–72
    controversial experience a b 468, a b 469
    controversial position, b 470-1
    dean of Westminster, a b 469
    ecclesiastical position, a b 470
    family, b 467–8
    last days, b 469–70
    Oxford residence, first, a b 468
    partisan relations, a b 471
    permanent influence, b 471-2
    personal qualities, a 470
    professorial life, b 468–9
    travels, b 468, a b 469
—— (Corinthians), VI, a b 356; (Old Catholics), XVII, a 777; (Sharp), XXI, b 817; (Trench), XXIII, b 575
——, Edward, bishop, Norwich, XXII, b 467, *b* 468, a 469
——, Edward Geoffrey Smith, baron. See DERBY
——, Edward John, lord (Campbell), IV, a b 670
——, Henry Moreland, explorer (Africa), I, b 222, a 244; (Bennett), III, b 495; (Geography), X, b 173, a 174; (Livingstone), XIV, b 728; (Nile), XVII, a b 518, a 522; (Slavery), XXII, a 153; (Tanganyika), XXIII, a b 50; (Zaire), XXIV, b 801 note, *a b* 802, b 803
——, J. M., painter (Smithsonian), XXII, b 914
——, Mary, philanthropist, XXII, a 468, b 469
——, Matilda, queen (Gipsies), X, a 547 note
——, Owen, naval officer, XXII, a b 468
——, Venetia Anastasia, beauty (Digby), VII, a 192
——, W. F., physicist (Tuning-Fork), XXIII, a 659
—— Falls (Zaire), XXIV, a 802
—— Pool (Zaire), XXIV, *a* 803
Stannery courts (Cornwall), VI, b 377
Stannic chloride (Silk), XXII, b 70; (Tin), XXIII, a 429
—— compounds (Tin), XXIII, b 428
—— oxide (Tin), XXIII, a 429
Stanniferous Granite, XI, a 44
Stannite (Mineralogy), XVI, a 409
Stannius, F. H., naturalist (Amphibia), I, b 657; (Reptiles), XX, a 450, b 471 note; (Vascular System), XXIV, a 112
Stannotype (Photography), XVIII, b 846
Stannous chloride (Tin), XXIII, *b* 428
—— compounds (Tin), XXIII, b 428
—— oxide (Tin), XXIII, a 429
Stanovoi mountains (Aldan Mountains), I, a 418; (Asia), II, a 600; (Siberia), XXII, a 8
Stanovoy, magistrate (Russia), XXI, b 77
Stansbury, Howard, explorer (Surveys), XXII, b 935
Stans Foreland, island (Spitzbergen), XXII, a 423
Stanthorpe, town (Queensland), XX, a 178, b 179, a 180
STANTON, Edwin M'Masters, statesman, XXII, a b 472, a 919–20; (United States), XXIII, b 827, a 830
Stanz, town (Switzerland), XXII, b 816; (Unterwalden), XXIII, a b 915; compact of, 1481 (Switzerland), XXII, a 827
Stanza, law of (Poetry), XIX, b 282-3
Stanza d'Eliodoro, Vatican chamber (Raphael), XX, b 290–1
Stapelia, plant (Botany), IV, b 119, *b* 121
Stapes, bone (Anatomy), I, *b* 783, *a* 784; (Ear), VII, b 511
Staphylinidæ, family (Coleoptera), VI, a 116
Staphyloma, disease (Ophthalmology), XVII, b 803, a 804, b 805
Staples, Edward, bishop of Meath (Ireland), XIII, b 269
Staple's Inn (Inns of Court), XIII, b 93, a 97
Stapling Wool, XXIV, b 690–1
Stapulensis. See FABER, Jacobus
Star, the (Heraldry), XI, a 627
Star-anise (Anise), II, a 52; (Incense), XII, a 757
STARAYA RUSSA, town, XXII, b 472
Star catalogues (Astronomy), II, b 720; (Brisbane), IV, a 314; (Herschel), XI, b 683–4, b 688–7; (Navigation), XVII, a 264; (Photometry), XVIII, a 854–6; (Ulugh Beg), XXIII, b 769; (William IV., Hesse), XXIV, a 614; ancient (Astronomy), II, a b 655, a b 656, b 657; Piazzi's (Astronomy), b 662, a 663; of spectra (Telescopic Work), XXIII, b 933
STARCH, XXII, b 472–3; (Arrowsmith) (Ill.), II, a 552; (Botany) (Ill.), IV, b 77–8; (Brewing), *b* 238; (Chemistry), V, b 489, a 490; (Cookery), VI, *a* 295; (Histology), XII, b 12, a b 14, b 18; (Horse-Chestnut), *b* 210; (Lichens), XIV, *a* 562; (Nutrition), XVII, a 694, *a* 696; (Oswego), XVIII, b 67; (Sago), XXI, a 157; (Sugar), XXII, a b 661; formation of (Physiology), XIX, a b 61
STAR-CHAMBER, court, XXII b 473–4; (Bastwick), III, a b 372; (Bibliography), b 570; (Charles I.), V, b 351, a 352; (Crime), VI, a 516; (England), VIII, b 310–1, b 337, b 338; (Perjury), XVIII, b 559; (Press Laws), XIX, *b* 729; (Prynne), XX, b 30–1
Star-charts (Astronomy), II, b 719; Peters' (Telescopic Work), XXIII, a 936
—— clusters (Astronomy), II, b 718
Starching (Bleaching), III, a 710
Starcross, town (Cockle), VI, a 92
Star-drift (Astronomy) (Ill.), II, b 717
Stareshina, title (Servia), XXI, b 719-20
Star-fish (Distribution), VII, b 241; (Echinodermata) (Ill.), a 544, a 547-9, a 550; (Morphology) (Ill.), XVI, a 871; nerves of (Physiology), XIX, b 35; ovum (Reproduction) (Ill.), XX, b 428
Star forts (Fortification) (Ill.), IX, a 383, a 388
STARGARD, town, XXII, b 474
Star-gauging (Astronomy), II, a 719
Starina, periodical (Russia), XXI, b 117
Staring, Antoni Christian Winand, poet (Holland), XII, a 101
Stark, Caleb, historian, XXII, b 920
STARK, John, general, XXII, a b 920
——, J. B., electrician (Telegraph), XXIII, a 133
"Starke" (Horse), XII, a 207
Starkenburg, province (Hesse Darmstadt), XI, *a* 697
Starkweather, G. B., physiologist (Sex), XXI, *b* 758, a b 759 note
Starley, James, inventor (Tricycle), XXIII, a 594
STARLING or Sturnus, bird, XXII, b 474–5; (Birds), III, a b 643, a b 655, b 669; (Woodpecker), XXIV, a 686 note
Star myths (Mythology), XVII, a 164
—— observations (Navigation), XVII, a b 276, b 279
STARODUB, town, XXII, a 475; (Tchernigoff), XXIII, a 103
Star of India, order (Knighthood), XIV, b 125
"Star of the South" (Diamond), VII, a 142
STARO - KONSTANTINOFF, town, XXII, b 475
Starosta, official (Russia), XXI, a 92
Star Peak (United States), XXIII, b 848
"Starr Bowkett" societies (Building Societies), IV, b 460
Star routes (Post-Office), XIX, b 595; ring (United States), XXIII, a 832
"Stars" (Horse), XII, a 208
Stars (Astronomy), II, a 668, a 714–8
    circumpolar, a 668
    colored, double, etc., a 716
    constellation, b 714
    distances of, a 715
    groups, b 716
    light of, b 715, b 716
    magnitude of, b 714
    multiple, a 716
    nomenclature of, b 714
    parallax of fixed, a b 715
    proper motion of, a 717
    spectra of, b 715–6
    temporary, b 716
    variable, a 717
—— (Angel), II, a 26; (Light), XIV, b 588–9; atmosphere of fixed (Iron), XIII, b 291; double (Herschel), XI, b 685, b 686, a 687; (Struve), XXII, a 641; falling (Meteor), XVI, a 113; shooting (Meteor), b 113, b 114, b 117; fixed (Halley), XI, b 354–5; (Ptolemy), XX, a b 95, b 96; *Papers on* (Michell), XVI, a 246; junction (Zodiac), XXIV, *b* 832, *b* 833; latitude of (Astronomy), II, a 694; magnitude of (Photometry), XVIII, a b 854–5; new (Sun), XXII, b 685–6; number of (Light), XIV, a 587; Parallax, XVIII, a 257–8; spectra of (Fraunhofer), IX, b 640; sphere of, apparent motion of (Astronomy), II, a 667–9; variable (Herschel), XI, b 684
Stars and Stripes, United States (Heraldry), XI, a 613
Star showers (Meteor), XVI, a 115, a b 116
Start, card (Cribbage), VI, a 509
Starter, Jan Janssen, lyrist (Holland), XII, a 98
Starvation (Dietetics), VII, a 181; (Medical Jurisprudence), XV, b 791
Stas, Jean Servais, chemist (Chemistry), V, a 406, a b 419; (Photography), XVIII, b 841
Stasinus of Cyprus, poet (Greece), XI, a 123
STASSFURT, town, XXII, b 475; mines (Bromine), IV, a 326; (Chemistry), V, a 425; (Potassium), XIX, *a* 605, a 606, a 608, a 611; (Salt) (Ill.), XXI, a 242, 243
Stassfurtite (Mineralogy), XVI, b 412

State, the (Baader), III, b 151; (Hegel), XI, b 553-4; decay of (Socialism), XXII, a 231; ethical character of (Trendelenburg), XXIII, b 577-8; German view of (Political Economy), XIX, b 403; Greek conceptions of (Political Economy), b 361-2; interference (Socialism), XXII, a b 227, a 232; intervention (Universities), XXIII, b 900; original function of (Priest), XIX, a b 744, b 745; ownership of Land, XIV, b 267-8; regulation of Wages, XXIV, b 331; relation to the Police, XIX, a b 345-6; sovereignty (International Law), XIII, a b 198
STATE, GREAT OFFICERS OF, XXII, b 475-7
State and Church. See Church and State
—— Charities Aid Society (New York), XVII, a 475
—— -conventions, theories of (United States), XXIII, *b* 821
—— Houses, historical (Boston, U. S.), IV, a 67; (Philadelphia), XVIII, b 751, a 755
—— Libraries, XIV, a 517, a 526, b 534-5
STATEN ISLAND, XXII, a b 477; (New York), XVII, a 462, b 465
—— Island (Tierra del Fuego), XXIII, b 409, a 411
"State of Regulars," congregation (Roman Catholic Church), XX. b 645
—— papers (Newspapers), XVII, a b 425, notes, a 435; (Records), XX, a b 326, *a* b 327
—— prisons in the United States (Prison Discipline), XIX, a b 783
Stater, coin (Mint), XVI, a 504; (Numismatics), XVII, b 646-7, a b 657, b 661-2, b 677; (Weights and Measures), XXIV, a 510, b 515, a b 516
—— rights (Federal Government), IX, b 55; (Randolph, J.), XX, a b 283; (Taylor), XXIII, a 927; (United States), a 823
States, American, constitutions of (United States), XXIII, a b 802, a 805; governments after secession war (United States), a b 830, b 832; jurisdiction of, in the United States (Insurance), XIII, a 189; law of sueing (United States), XXIII, a 799; (Wilson), XXIV, a 902; legislation in United States (Statute), XXII, b 488; reciprocal relations of (United States) XXIII, b 799; restrictions upon (United States), b 832-3; rise of (United States), a b 789; security for Bank notes by, III, a b 293; sovereignty of (Jefferson), XIII, b 626, a 627; (Madison), XV, b 182, b 184; (United States), XXIII, b 793-4, a 797, a b 798, *a b* 799-800, b 804, a 805, *a* 806, b 808, a 811; suicide theory of (Sumner), XXII, b 677; Taxation in, XXIII, a b 925, a b 926; (United States), b 882, *a* b 883
States General, France, (Charles V. and VIII.,), V, a *b* 355, a 357; (France), IX, b 485, b 487, a 494, b 499-500, a b 525, a 526-7; (Mirabeau), XVI, a b 518; (Necker), XVII, b 321; (Paris), XVIII, a 298; (Talleyrand), XXIII, a 35; Blois (Bodin), III, a 737; elections for (Robespierre), XX, b 617
—— General, (Holland), XII, a b 76, b 78, a b 79, b 80, a 81, a b 82, *a* 83, *b* 84-5, a 86
Statesman or *Politicus* (Plato), XIX, *a* 217, b 219-20
Statesman, The, essays (Taylor), XXIII, a b 99
"Statesmen," land owners (Cumberland), VI, b 616
STATES OF THE CHURCH or Papal States, XXII, b 477-8; (Napoleon I.), XVII, b 204
State Trials (Jeffreys), XIII, b 629, a 630; (Treason), XXIII, b 561
Statical Essays, organic (Hales), XI, b 341
Statical forces, reduction of system of (Mechanics), XV, b 736-9; method (Magnetism), b 241; stability (Shipbuilding), XXI, a 849-52; theory (Tides), XXIII, a 379
Statice, plants (Horticulture), XII, a 260
Static modulus (Elasticity), VII, b 706-7
—— receiver, Dolbear's (Telephones), XXIII, a 932
Statics (Dynamics), VII, b 503; of a chain (Mechanics), XV, b 746-9; definition of (Physical Sciences), XIX, a 6; examples of methods and theorems (Mechanics), XV, a 739-40; of a particle (Mechanics), b 709-11; of a rigid solid (Mechanics), a 736-40. See Electro-Statics
—— of mind (Herbart), XI, b 643
Statielli, tribe (Liguria), XIV, b 646
Stationary action, law of (Light), XIV, b 602, a b 603
—— boilers (Steam-Engine) (Ill.), XXII, a 518-20, b 522
—— engines (Steam-Engine) (Ill.), XXII, b 536-42; American Steam-Engine), a 921-2
Stationers (Book), IV, a *b* 35
Stationers' Company (Milton), XVI, a b 342; (Almanac), I, a *b* 520, a 521
—— Hall (Copyright), VI, b 316, a b 317, a 318
STATIONERY, writing materials, XXII, a b 478
Station-pointer, plotting (Surveying), XXII, b 758
Stations (Railway), XX, a 243-6
——, surgical (Ambulance), I, b 585
——, survey (Geodesy), X, a b 147, a 152, b 153; sites and structures (Surveying), XXII, a b 733
Statique, Elémens de (Poinsot), XIX, a 287
Statira, wife of Alexander the Great, I, b 428
——, wife of Artaxerxes II. (Persia), XVIII, b 587, a b 588
Statistica, Filosofia della (Gioja), X, b 541
Statistical Account of the British Empire (M'Culloch), XV, a 136
STATISTICS, XXII, b 478-84
- Block's method, b 480-1
- continental school, a b 480
- definition of, b 478
- descriptive school, a 479
- literature, b 484
- METHOD, MODERN, b 481-4
  - averages, b 482-3
  - index numbers, a b 483
  - international institute, b 483-4
  - operations performed on, a b 482
  - prices, a 483
  - proportions, b 482
  - sources of, b 481-2
  - tables, arrangement of, b 482
  - uniformity desirable, b 483
- political arithmetic school, a b 479
- Quetelet method, b 479-80
- rise of art, b 478-9
- sociological uses of, a b 481

—— (Probability), XIX, a 801; collection of (Agriculture), I, b 272; comparative (Petty), XVIII, a 738; science of (Achenwall), I, a 89. (Quetelet), XX, b 184
Statistik, Handbuch der, Von Scheel (Population), XIX, a 529
Statius, Cæcilius, dramatist (Drama), VII, b 355
STATIUS, Publius Papinius, poet, XXII, a 484-5; (Martial), XV, a 585, *b* 586; (Roman Literature), XX, b 744, *b* 745
Statoblasts (Polyzoa), XIX, *b* 451
Statuary (Aberdeen), I, b 44; (Acroliths), b 112; (Æsculapius), a 189; (Algardi), b 449; (Archæology), II, b 303, a 304, a b 305, a b 306, a b 307, a 310-3, a 305-6; (Areopagus), b 424; (Berlin), III, b 512, *b* 505-6; (Boston), IV, b 67; (Bronze), a 330, *a* b 331-2; (Cambridge), *a* 646, a 647; (Cano, A.), a 716; (Canova), V, a 24-5; (Cassel), a 160; (Club), VI, *b* 39; (Copper), *b* 311; (Dædalus), a 670; (Edinburgh), VII, a b 579; (Falconet), IX, a 7; (Florence), a 291; (Fogelberg), b 309; (Foley, J. H.), b 311; (Founding), b 424; (Frankfort), b 622; (Glasgow), X, b 573; (Gothenburg), *b* 751; (Greenough), XI, a 155; (Hagne), b 332-3; (Helicon), a 563; (Inscriptions), XIII, a b 134; (London), XIV, b 849, a 850; (Lucern), XV, b 42; (Manchester), a 468; (Nantes), XVII, *b* 179; (Nara), b 235-6; (Niello), b 507; (Paris), XVIII, b 279-80, a 281, a 282, a b 287; (Phidias), b 747; (Phigalia), a 749; (Périgueux), b 545; (Piacenza), XIX, a 72; (Plymouth), b 249; (Pompeii), a 464; (Powers), b 670-1; (Raphael), XX, b 293-4; (Roland), b 642; (Rome), a 826, a b 829, a b 859; (Roubiliac), XXI, a b 15; (Sculpture) (Ill.), b 584-5, *a b* 586, note, a b 587, note, a b 588, b 589, a b 591, a 593, a b 595, a b 596, b 597, b 598; (Terra-Cotta), XXIII, b 207-12; (Venice), XXIV, a b 169; (Verrocchio), b 190; (Westmacot), *b* 540; (Wood-Carving), a 680; (Yemen), b 778; experiment of the (Condillac), VI, *b* 223; Egyptian (Architecture), II, a 342; polychrome (Sculpture), XXI, b 585, note, b 587; veiled (Sculpture), a 597, note; wooden (Sculpture), a 586; (Wood-Carving), XXIV, a 680. See Sculpture
Stature (Anthropology), II, b 98, a b 99-100; (Ape), b 137
Status as technical term (Annuities), II, b 64
STATUTE, law, XXII, b 485-8
- classifications, a b 486, b 487
- colonial, a 488
- definition, b 485-6
- editions of, b 487-8
- International law, b 488
- interpretation of, b 486-7
- Ireland, a 488
- revision, a b 487
- Scotland, a 488
- United States, a b 488

—— (Common Law), VI, *a* 186; (Ecclesiastical Law), VII, a 543
STATUTE MERCHANT, security, XXII, b 488
Statute of Frauds, IX, a b 639; (Contracts), VI, a 287; (Landlord and Tenant), XIV, b 273-4; (Nottingham, Earls), XVII, a 615; (Personal Estate), XVIII, a 677
—— *of Inrolments* (Trust), XXIII, a 634
—— *of Merlebridge* (Finance), IX, a 163; (Waste), XXIV, *b* 414; (Writ), a 729
—— *of Merton* (Commons), VI, a b 187
—— *of Monopolies*, XVI, b 784
—— *of Nieszawa* (Poland), XIX, b 301, a 302
—— *of Uses* (Trust), XXIII, b 633, note, a 634
—— *of Winchester* (Army), II, b 498; (Constable), VI, a 263
—— *of Wislica* (Poland), XIX, a 300, a 302
Statutes drawn upon Petitions, XVIII, a b 717

Statutes of Eltham (Royal Household), XXI, *a* b 42, note
— *of Gloucester* (Gloucester), X, b 616
Statutes of Limitation, XIV, b 656-7; (Payment), XVIII, a b 451
— *of the Realm*, XXII, b 487
— of Westminster (Edward I.), VII, a 592; (Writ), XXIV, b 728, a b 729, *b* 730, b 731
— *Roman*, mediæval (Rome), XX, b 813, a 817, b 819, b 823
Statute Staple, security, XXII, b 488
Statuto Fondamentale (Pius IX.), XIX, a b 167
Statutory Declaration, VII, b 20
— Law (Act of Parliament), I, b 113-4
Statutum Alexandrinum (Poland), XIX, a 302
Staubbach, waterfall (Switzerland), XXII, b 815
Staudinger's Balance, III, b 223
Staudt, von, mathematician (Geometry), X, a 334, b 346, b 366; his theorem (Infinitesimal Calculus), XIII, b 22
Stauffacher or Stoupacher, Werner von, patriot (Tell), XXIII, *b* 171
Staunton, Virginia, city, XXII, b 488
Staunton, Howard, Shakespearean critic, XXII, b 488-9; (Chess), V, b 522, *a* 524
Staupitz, John, monk (Luther), XV, *b* 73
Staurachios, artist (Metal-Work), XVI, b 80
Stauracius, emperor (Nicephorus I.), XVII, *a* 495
Stauraxonia, organic forms (Morphology), XVI, b 870
Stauria, genus (Corals), VI, a 339, a 340, a 341
Staurolite (Mineralogy) (Ill.), XVI, a 377, b 379, b 384, a 426
Staurotypidæ, family of Chelonians (Tortoise) XXIII, a 486
Stavanger, town, XXII, a 489; district (Norway), XVII, a b 596, b 597
Staves (Cooperage), VI, b 300
Stavropol, government, XXII, a 489-90; (Russia), XXI, b 76, note
Stavropol, town, XXII, b 489, a b 490
Staxigoe, town (Caithness), IV, b 574, b 575
Stays, missing (Seamanship), XXI, a b 629; setting up (Seamanship), a b 624
Steam (Evaporation), VIII, b 641; behavior in cylinder of (Steam-Engine) (Ill.), XXII, a 506-7; distribution (Steam-Engine), a 523-9; effects on minerals of superheated (Geology), X, a 232; efficiency of (Mechanics), XV, b 782, a b 784; efflux of (Hydromechanics), XII, b 454, a b 465; non-expansive use of (Steam-Engine), XXII, a 505; pressures (Heat), XI, a b 522; theoretical properties of (Steam-Engine), XXII, a 502-6; volcanic (Earthquake), VII, a 527; (Geology), X, b 215, a 216 a b 219, b 225, b 231; in water-gas (Iron), XIII, b 300-1; working at atmospheric pressure (Steam-Engine), XXII, a 542
Steamboat, invention of (Bell, H.), III, a 468; (Fitch), IX, a 236; (Fulton), a b 717; (Papin), XVIII, a 233, note; (Patents), b 878; (Rumsey), XXI, a 897; (Steam-Engine), XXII, a 496; rise of navigation (Bristol), IV, b 316; (Brunel), a 357, a 358; (Commerce), VI, b 184; (Cotta), a 427; (Dumbarton), VII, b 453; (Garda), X, b 68; (Marseilles), XV, a 580; (Massachusetts), a b 619; (Stevens), XXII, *b* 927; (United States), XXIII, b 806, b 811-2, b 813; (Volga), XXIV, a 301; (Vanderbilt), a 875
— Springs (Nevada), XVII, b 376
Steam Coals, VI, b 44, b 49, b 67
— colors (Calico-Printing), IV, a 612-3
— Crane, VI, a 485
— cultivator (Agriculture) (Ill.), I, 281
— desilverizing process (Lead), XIV, a b 377
— drainage-plough (Agriculture) (Ill.), I, a 297
— Dredging, VII, b 400-3
Steam-Engine (Ill.), XXII, a 490-549
  Behavior of Steam in Cylinder, a 506-10
    boiler efficiency, b 509
    clearance, b 506
    compound expansion, b 509
    compression and cushioning, b 506-7
    cylinder walls, effects of, a 507-8
    efficiency, a 509-10
    indicator diagram, a b 506
    jacket, effects of, b 507-8
    speed and size, influence of, a 508
    superheating effects, b 508
    trial results, a 510
    variable cut-off, a b 508
    wire-drawing, a b 506
  Boilers (Ill.), a 517-23
    Cornish boiler (Ill.), a b 518
    draught, b 517-8
    flue-boilers (Ill.), a 518-9
    fuels, unusual, a 523
    furnace drought and stoking, a 523
    furnace efficiency, a 517-8
    injectors (Ill.), a b 522
    Lancashire boiler, (Ill.), b 518-9
    locomotives (Ill.), a 520-1
Steam Engine, *continued*
  Boilers
    marine boilers (Ill.), a 521-2
    sectional boilers, a 520
    separator, b 522
    stationary engines (Ill.), a 518-20
    tubular boilers (Ill.), a 519-22
    vertical boilers (Ill.), b 519-20
    zinc as anti-corrosive, b 522
  Compound Expansion (Ill.), a 514-7
    combination diagrams, b 516-7
    cut-off, point of, a b 515
    indicator diagram, b 514-5, a 516-7
    receiver engine, b 514-5
    uniformity of effort, b 515-6
    Woolf-engine, a b 514
  Crank Shaft (Ill.), a 534-6
    diagram of motion, a b 534-5
    fly-wheel function, a b 536
    friction, b 534-5
    inertia, b 534-5
    speed fluctuations, b 535-6
  Distribution of Steam (Ill.), a 523-9
    Cornish cataract, b 528
    double-beat valves (Ill.), b 528-9
    equivalent eccentric, b 526
    expansion valves (Ill.), b 527-8
    graphic method of finding, a 524-5
    graphic solution of link-motion, b 526
    lap and lead (Ill.), b 523-4
    link motion, b 525-6
    piston valves (Ill.), a b 528
    relief rings (Ill.), a 528
    reversal of motion (Ill.), b 525-7
    slide valve (Ill.), b 523-5
    valve gears, Hackworth's, Bremme's and Joy's (Ill.), a b 527
    Zeuner's diagrams (Ill.), b 524-5
  Gas and Air Engines, b 649-53
    Clerk's engine, b 551, b 552-3
    dissociation, a 553
    efficiency of, a b 553
    Ericsson's air engine, a 550
    general character, b 549
    indicator diagrams, a b 552
    internal combustion, b 550-3
    Lenoir and Hugon engines, b 550-1
    Otto-engine (Ill.), a b 551, a b 552
Steam Engine, *continued*
  Gas and Air Engines
    Stirling's air-engine a 550
    stratification, a 553
    thermodynamic type, b 549
  Governing (Ill.), a 529-34
    centrifugal speed (Ill.), a b 529
    Corliss gear (Ill.), b 531-2
    differential governors (Ill.), a b 533
    disengagement governors, b 532
    graphic solution, a 530
    hunting, b 530
    isochronism, a b 530
    loaded governor (Ill.), b 529-30
    marine engines, b 533
    methods of regulating, a 529
    Proëll's trip gear (Ill.), a 532
    pump governors, b 533
    recorder, a 534
    relay governors (Ill.), b 532-3
    spring governors (Ill.), b 530-1
    variable cut-off (Ill.), a 531-3
  History, a 490-6
    applications to locomotion, a 496
    atmospheric pumping engines invented, a b 492
    compound engine, a b 495
    Cornish engine, a b 495
    cylinder and piston invented, b 491-2
    definition, a 490
    early tentative experiments (Ill.), a 490-1
    gear appendages, Watt's, b 493-4
    non-condensing engine, a b 494
    references, b 496
    Savery's engine (Ill.), a b 491
    theoretical writers, a b 496
   Watt's engine (Ill.), b 492-4
  Index, a 553-4
  Locomotive Engines, (Ill.), a 547-9
    compound types (Ill.), a 548-9
    cylinders, position of, b 547-8
    fireless type, a 549
    highway traction types, a b 549
    tramway motors, a 549
    valves, b 547
    wheels and trucks, a b 547
  Marine Engines (Ill.), a 543-7
    condensers, a 546
    inverted vertical type (Ill.), b 543-5
    quadruple expansion, a 546
    power, relation to coal and weight of, a 546-7

Steam Engine, *continued*
- Marine Engines
  - pumps. a 546
  - tandem vertical, b 543-4
  - three cylinder arrangement, b 545
  - triple expansion, a 545-6
  - types of, a b 545
- Properties of Steam, a 502-6
  - Carnot's cycle, a b 504
  - density of saturated steam, a 506
  - efficiency, b 504, a b 505
  - expansion, a 504, b 505
  - formation of steam, a 502-3
  - heat energy, theoretical, a b 503
  - organs, separate, a 505
  - pressure and volume relations, b 502
  - reversible process, a b 505
  - saturated steam, a b 502, a 506
  - superheated steam, b 503
  - wet steam, b 503
- Stationary Engines (Ill.), b 536-42
  - beam engines, b 536-7
  - Brotherhood engine (Ill.), a b 540
  - compound engines, b 539-40
  - condenser and air-pump (Ill.), b 538
  - Corliss engine (Ill.), a b 539
  - Davey's motor (Ill.), a 542
  - descriptive terms, b 536-7
  - high speed horizontals, b 538
  - horizontal engines (Ill.), a 538-40
  - parallel motion, a 537-8
  - pulsometer (Ill.), b 541-2
  - pumping engines, b 540-1
  - rotary engines, a b 542
  - turbines, b 542
  - vertical engines, a 540
  - Worthington engine, a b 541
- Testing of Engines, b 510-4
  - cylinder walls, effect of, b 513-4
  - errors of diagram, b 510-11
  - examples of diagrams, b 511-2
  - heat transfers, a 513-4
  - indicator (Ill.), a b 510
  - measurement of power, a b 511
  - mechanical efficiency, a 514
  - objects of, a 510
  - thermodynamic efficiency, a b 512
  - wetness of steam, b 512-3

Steam Engine, *continued*
- Theory of Heat Engines, b 496-502
  - Carnot's cycle, b 499-500, b 501
  - efficiency, b 500, a 501
  - expansion. working by, b 498-9
  - gas, theory of perfect, b 497-8
  - measurement of temperature, a 501
  - regenerative principle, b 501-2
  - reversibility test, a b 500, a b 501
  - thermodynamic laws, b 496-7, b 500-1
  - working substance and its cycle, a b 497, b 501

—— (Air-Pump), I, a 381; (Boulton), IV, a 157; (Horsepower), XII, a b 211; (Machine Tools), XV, b 158, (Murdock), XVII, a 60 (Papin), XVIII, b 232-3; (Patents), b 881; (Trevithick), XXIII, a b 589; (Watt), XXIV, a 434-6; in Agriculture (Ill.), I, b 271, a 279-83, a 288-9; (Patents), XVIII, a 877; indicator, XXII, a b 506, a b 510, a b 552; (Diagrams), VII, b 131-2

Steam-Engines, American, XXII, b 920-6
- boilers, inventors of, b 920
- equalizing levers on trucks, a b 924
- expansive use of steam, a b 921
- improvers of locomotive, b 922-4
- locomotive, b 922-6
- positive motion cut-off, a b 922
- rotative speeds, a 922
- standard locomotive, b 924-5
- stationary engines, a 921-2
- trucks, locomotive, a 925-6
- typical engines, a 921-2

—— fire-engines (Fire) (Ill.), IX, b 205; (Patents), XVIII, b 882
—— Hammer (Ill.), XI. b 380-1; (Forge), IX, a 364; horizontal (Iron), XIII, b 336-7
Steaming chests (Calico-Printing) (Ill.), IV, b 612-3
Steam jet ventilation (Coal), VI, a 67
—— pipes (Heating), XI, b 528, a 529
—— ploughing (Agriculture) (Ill.), I, a 279-80
—— ports, slide valve (Steam-Engine), XXII, b 523, b 525
—— power (Cotton), VI, b 443; (Lifts), XIV, b 580; per pound, table of (Coal), VI, a 75; in War, XXIV, b 384, a 385
—— -pressure thermometer (Heat), XI, a b 500, b 506-7, a b 508
—— reduction of ores (Sulphur), XXII, a 668
—— saponification (Glycerin), X, *a* 623, a 624
Steamships (Commerce), VI, a 182; (Cunard), a 624; (Glasgow), X, b 576; (Navy), XVII, a 292; (Seamanship), XXI, a 617, *b* 629, b 630; (Shipbuilding), a 849, b 852, *b* 853, a *b* 854, a 855, a 862-4; fast passages (Navigation), XVII, a b 285; introduction of (Brunel), IV, a 357; (Canal), b 697; mail (Navy), XVII, b 297-8; side lights of (Lighthouse), XIV, b 629; waste of power (Shipbuilding), XXI, b 846, a 863
Steam-towing (Canal), IV, a b 694-5
—— -traction (Tramway), XXIII, b 539
—— -transportation (Patents), XVIII, b 878-9
—— -trap (Steam-Engine), XXII, b 522
—— trawling (Fisheries), IX, a b 218
Stearic acid (Wax), XXIV, a 486
Stearine, XXII, a 554; (Candle), IV, *b* 708, a 709; (Chemistry), V, b 471, b 489, a 497; (Cocoanut, Palm), VI, b 94; (Glycerin), X, *a* 622; (Oils), XVII, b 760, *ab* 761; (Wax), XXIV, a 486; (Whale Oils), b 558
Stearoptines (Camphor), IV, a 672; (Oils), XVII, a 769
Stearns, J. B., inventor (Telegraph), XXIII, b 132
Steatite, mineral (Gems), X, b 122 (Greenland), XI, a 150; (Mineralogy), XVI, b 385, a 432
Steatornis, genus (Birds), III, b 627, a 630; (Guacharo), XI, b 201; (Ornithology), XVIII, b 50
Steedman, James Barrett, general, XXII, a 926
Steel (Annealing), II, b 57; (Iron), XIII, b 284, a 285, *b* 287, *a b* 288, a b 289; (Magnetism), XV, b 262; (Patents), XVIII, b 881-2; (Siemens), XXII, a 43; (Strength of Materials), a 625, b 627, b 630, a b 631, b 632, a b 634; analysis of (Iron), XIII, b 295-6; color in tempering (Iron), a 363; combination processes (Iron), a 353-62; direct processes (Iron), b 344-53; effect of temperature on strength (Iron), a b 365; Elasticity of, VII, b 691, *a b* 708, b 709; (Iron), XIII, a b 364; from carbon salts (Iron), b 335; natural (Iron), b 341; physical qualities (Iron), b 362-5; production statistics (Iron), a b 368-9; (United States), XXIII, *a b* 866; puddled (Iron), XIII, a b 341; shearing stress of (Bridges), IV, a 256; (Strength of Materials), XXII, b 632; in shipbuilding (Navy), XVII, b 295-7; specific gravity of (Iron), XIII, b 362; tensile strength of (Iron), b 363-5; (Strength of Materials), XXII, a 625, a b 630
——, James, journalist (Carlisle), V, a 97
Steel armor. See Armor-plate
Steelboy insurrection, 1772 (Ireland), XIII, b 275
Steel bronze (Bronze), IV, b 330
Steele, Anne, poetess (Hymns), XII, *a* 628
Steele, Sir Richard, humorist, XXII, a 554-6; (Addison), I, b 135, *a b* 136, a *b* 137; (Drama), VII, b 377; (English Literature), VIII, a b 380; (Pope), XIX, b 499; (Tickell), XXIII, *a* 374
Steel Glass, The (Gascoigne, G.), X, *b* 93
Steel Pens, XVIII, a b 494
Steel-plate Engraving, VIII, a 391-4
Steel rails (Patents), XVIII, b 879; (Railway), XX, a 251
—— shells (Fortification), IX, b 401; (Gunnery), XI, b 271
Steelyard (Balance), III, b 226; (Mechanics), XV, b 781
Steelyard, Merchants of the, XXII, a b 556; (Holbein), XII, *a* 58; (London), XIV, *a* 839; (Lübec), XV, a b 34, a 35
Steen, Jan Havicksz, painter, XXII, b 556; (Goyen), XI, a 22
Steenoven, Cornelius, archbishop (Episcopacy), VIII, b 436
Steenstrup, Johann Japhet Smith, zoologist (Denmark), VII, a 82; (Morphology), XVI, a b 868; (Parasitism), XVIII, b 262; (Tape-Worms), XXIII, a 55; (Trematoda), a 569; (Tunicata), a 647
Steeping for malt (Brewing), IV, a b 239
Steeple-chase (Athletic Sports), III, *a* 13; (Horse), XII, a 207
—— -engines (Steam-Engine), XXII, *a* 543
—— head-dress (Costume) (Ill.), VI, b 416
Steeples (Architecture), II, b 372, *a* 375, b 387
Steers, Thomas, engineer (Liverpool), XIV, b 723
Steers Island (Sunda Island), XXII, b 687
Streetly Chapelry (Derby), VII, b 94
Stefano, Giotto di, painter (Giottino), X, b 543
——, Tommaso di, painter (Giottino), X, *a* 543
Stefan's investigation of diffusion, Josef (Molecule), XVI, a 642
Steffani, Agostino, composer, XXII, b 556-7
Steffens, Henrik, philosopher (Denmark), VII, b 80, a 81; (Evolution), VIII, a 667; (Grundtvig), XI, b 199; (Norway), XVII, b 604; (Œhlenschläger), a b 751; (Schleiermacher), XXI, a 429

Steganopodes, group (Gannet), X, b 64; (Ornithology), XVIII, b 45, b 50; (Pelican), a 486; (Tropic-Bird), XXIII, b 625, note
Stegmata, cells (Histology), XII, a 18
Stegodon, fossil (Mammalia), XV, *a* 431
Stegosauria, fossils (Reptiles), XX, a 456 note, b 473
Stegostoma, genus (Shark), XXI, b 811
STEIBELT, DANIEL, musician, XXII, b 557; (Pianoforte), XIX, b 82–3
Steier, town (Austria), III, a 105
Steiermark, duchy. See STYRIA
Stein, Charlotte von, inamorata (Goethe), X, a b 648, a *b* 649, a 650, a 651, b 652, b 655, a 656
STEIN, Heinrich Friedrich Karl, baron von, statesman, XXII, b 557–9; (Görres), X, a b 699; (Hardenberg), XI, *a* 423; (Hegel), b 549, a 550; (Metternich), XVI, b 208–9; (Napoleon I.), XVII, a b 220, a 224, a b 225; (Pertz), XVIII, b 682; (Prussia), XX, b 15
——, Johann Andreas, manufacturer (Pianoforte), XIX, b 80, *a* 81
——, J. P. E. F., naturalist (Protozoa), XIX, b 884, *a* 888, b 891
——, Nanette (Pianoforte), XIX, a b 81
——, W., chemist (Glass), X, b 584, b 595
Steinach, river (St. Gall), XXI, b 177
STEINAMANGER, town, XXII a 559
Steinbeck's assay (Copper), VI, b 312
Steinberger Wine, XXIV, b 634
Steinboc, animal (Ibex), XII, b 640
Steindachner, F., naturalist (Ichthyology), XII, a 671
STEINER, Jakob, geometrician, XXII, a b 559; (Geometry), X, a 334, *b* 366; (Infinitesimal Calculus), XIII, a b 56, b 57
——, Werner, chronicler (Winkelried), XXIV, b 634
Steinheil, Karl August, optician (Patents), XVIII, a 883; (Photometry), b 855; (Telegraph), XXIII, *b* 120; his doublets (Microscope), XVI, a 271; his ocular Micrometer, b 261–2; his specula (Telescope), XXIII, a 159
Steinheilite (Mineralogy), XVI, a 436
Steinhuder meer, lake (Germany), X, a 404; (Hanover), XI, a 399; (Lippe), XIV, b 689
Steinitz, Wilhelm (Chess), V, a b 523
Steinschneider, orientalist (Geber), X, b 112, b 113
Steinthal, district (Oberlin, J. S.), XVII, b 723
Steinway, C. F. Theodore, manufacturer, XXII, b 926
STEINWAY, Henry Engelhard, inventor, XXII, a 926–7; (Pianoforte), XIX, b 81, a 83, b 85, b 86
Stejneger, naturalist (Swallow), XXII, b 767 note; (Swan), a b 770 notes
Stelæ or pillars, twin (Temple), XXIII, a 183
"Stella," Esther Johnson (Swift), XXII, b 801, note, a *b* 803, a 804
Stella, play (Goethe), X, b 647
Stellar determination, absolute method (Parallax), XVIII, a b 257; differential method (Parallax), b 257; evolution (Sun), XXII, b 685, Nebulæ, XVII, b 320–1; photography (Telescopic Work), XXIII, b 932–3; place of Sun, XXII, b 684–6; spectrum photography scintillation (Wave Theory), XXIV, b 465, note; (Telescopic Work), XXIII, a b 933. See Stars
Steller, G. W., naturalist (Polar Regions), XIX, b 330
Stelletidæ, family (Sponges), XXII, b 429, a 440, a 443
Stelletta, genus (Sponges) (Ill.), XXII, *a* b 431, b 434, a b 435, b 436, a 440
Stello, book (De Vigny), VII, b 117
Stells, shelter (Agriculture), I, a 357
Stelvis or Stilfserjoch pass (Valtellina), XXIV, b 51
Stem of plants (Botany) (Ill.), IV, b 84–96; (Grasses), XI, b 48; (Horticulture), XII, a b 216; (Muscineæ), XVII, b 71, b 77–8, a 80, note; (Palm), XVIII, a 194; acrogenous (Botany) (Ill.), IV, b 88, a 94–6; endogenous (Botany) (Ill.), b 88, a 92–4; exogenous (Botany) (Ill.), a b 88, a 89–92
Stemmata gentilitia, pedigree (Genealogy), X, a 129, note
Stemonitea, family (Protozoa), XIX, a 863
Stems, in philology (Grammar), XI, b 35, a 37; Indo-European (Greece), b 113–4; vowel inflections (Grammar), b 35, b 36, a b 37
Stem-winding Watch (Ill.), XXIV, a b 419
Stena, river (Macedonia), XV, a 138
Stenactis, plants (Horticulture), XII, a 260
Stenberg, L., mathematician (Tables), XXIII, b 19
Stencilling (Building), IV, b 458
STENDAL, town, XXII, b 559
Stendhal, De, critic. See BEYLE
Stenersen, Peder Cristofer, poet (Norway), XVII, a 604
Stenhouse, mountain (Hong-Kong), XII, b 144
Stenia, festivals (Thesmophoria), XXIII, a 316
Stenkil, king (Sweden), XXII, b 783
Steno, Michele, nobleman (Faliero, Marino), IX, a 13
——, Nicholas, physician (Anatomy), I, a 707, a 711, a 712; (Crystallography), VI, b 594; (Embryology), VIII, b 151; (Reproduction), XX, b 425
Stenodermata, group (Mammalia), XV, b 419
Stenography (Palæography), XVIII, a b 168; (Shorthand), XXI, a 875–8
Stenorhynchus, genus (Mammalia), XV, b 450
Stenostomata, group (Actinozoa), I, a b 122
Stenostomatidæ, family (Snakes), XXII, b 202
Stenson's duct (Digestive Organs), VII, a 193
Stentering-frame (Bleaching), III, b 711
Stentor, genus (Protozoa), XIX, b 860, a 885, a 888
Stenzler, A. F., philologist (Sanskrit), XXI, a 290 note, b 291 note, a 293 note, b 297 notes, a 299 note
Step-faults (Geology) (Ill.), X, b 270
Stephan, Heinrich, publicist (Post-Office), XIX, a 600, *a* 601
Stephanite (Mineralogy), XVI, a 412
Stephanoceros, genus (Rotifera) (Ill.), XXI, a b 8, a b 10, a 12
Stephanon, Liber Peri (Prudentius), XX, a 5
Stephanos, crown (Costume), VI, b 401
——, mount (Ithaca), XIII, a 527
Stephanoscyphus, genus (Hydrozoa), XII, b 583
Stephan's Comet, VI, a 173
Stephanurus dentalus, parasite (Veterinary Science), XXIV, a 223
Stephanus, sculptor (Archæology), II, a 320
STEPHANUS BYZANTIUS, geographer, XXII, b 559
STEPHEN, St., first martyr, XXII, b 559–60; (Orosius), XVIII, a 54
STEPHEN I., pope, XXII, a 560
STEPHEN II., pope, XXII, a 560; (Rome), XX, b 803
STEPHEN III., pope, XXII, a b 560; (Popedom), XIX, b 509, a 524
STEPHEN IV., pope, XXII, b 560; (Rome), XX, b 803
STEPHEN V., pope, XXII, b 560
STEPHEN VI., pope, XXII, b 560; (Popedom), XIX, b 511, a 524
STEPHEN VII., pope, XXII, b 560
STEPHEN VIII., pope, XXII, b 560
STEPHEN IX., pope, XXII, b 560; (Popedom), XIX, b 511, a 524
STEPHEN, England, king, XXII, b 560–1; (Bristol), IV, a 315; (England), VIII, a 272; (Henry II., England), XI, a 586; (London), XIV, *b* 854; (Scotland), XXI, a 505; (Worcester), XXIV, a 703
—— I. of Hungary, St., king (Germany), X, b 436, a 437; (Gran), XI, b 40; (Hungary), XII, a b 382; Realm of the crown of (Hungary), a 375
—— II., king (Hungary), XII, b 382
—— V., king (Hungary), XII, a 383
—— of Blois, count (France), IX, a 475
—— of Chartres (Crusades), VI, b 551, a b 552, a 554
—— of Lisiac, monk (Grandimontanes), XI, b 42, a 43
—— of Moldavia the Great, voivode (Roumania), XXI, a 24
—— of Thiers, monk (Grandimontanes), XI, b 42
STEPHEN, Sir James, historian, XXII, b 591; (Gregory VII.), XI, b 158–9
——, Sir James Fitzjames, jurist (Evidence), VIII, b 647, note, a *b* 648, *a* b 649, *b* 650, *a* b 651, note; (Forgery), IX, *b* 364; (Misdemeanor), XVI, b 525; (Murder), XVII, a b 59; (Negligence), b 324, a 325; (Sedition), XXI, b 650
——, Leslie, essayist (Pope), XIX, a 499; (Scott), XXI, b 575
—— bar Sŭdhailē, pantheist (Syriac Literature), XXII, a 873
—— Batory, king of Poland. See Bathori
—— Cosaccia, duke (Herzegovina), XI, *b* 693
—— Dushan, king (Servia), XXI, a 721
—— Nemenya, king (Servia), XXI, a 721
—— order of St., knights (Medici), XV, b 800, a b 802
STEPHENS or Éstienne, family of printers, XXII, b 561–3; their printing house (Geneva), X, a 133. See Éstienne
STEPHENS, Alexander Hamilton, statesman, XXII, b 563–4, note; (United States), XXIII, b 818, *b* 821, a 829
STEPHENS, Ann Sophia, novelist, XXII, a 927
——, James, antiquary (Celtic Literature), V, *b* 275, b 277, b 281
——, James, Fenian (Ireland), XIII, b 277
——, James Francis, entomologist (Ornithology), XVIII, b 17
STEPHENS, John Lloyd, traveller, XXII, a b 564, note; (Architecture), II, *a* b 394, b 400: (Central America), I, b 608, b 609; (Yucatan), XXIV, b 796, a b 797, note
——, Linton, jurist, XXII, a 564 note
——, Robert, translator (Bible), III, b 560
——, Thomas, traveller (India), XII, *a* 837
Stephenson, Captain, explorer (Polar Regions), XIX, b 336
STEPHENSON, George, engineer, XXII, b 564–5; (Patents), XVIII, a 879; (Railway), XX, a b 231, b 232; (Societies), XXII, b 238; (Steam-Engine), b 494, a 496; his safety lamp (Coal), VI, a b 68
——, Magnus, reformer (Iceland), XII, b 656

STEPHENSON, Robert, engineer, XXII, a 565; (Bridges), IV, b 300, a b 301; (Fairbairn, Sir W.), VIII, b 744; (Railway), XX, *b* 232, a 240, a 241; his link motion (Steam-Engine) (Ill.), XXII, b 525–6

Stephida, family (Protozoa), XIX, b 873

Stepmother (Apparitions), II, a 181; (Ballads), III, a 246

Stepney, parish (London), XIV, b 829, a 830, a b 842, b 843, a 861

Stepped teeth (Mechanics), XV, b 768

Steppes or pampas (America), I, b 588–9; (Black Sea), III, b 691; (Russia), XXI, a 89, a 91, a b 93; (Semipalatinsk), XXI, *a* 671; (Siberia), XXII, *a b* 5, a 6; (Spain), b 311; (Stavropol), *b* 489; (Syr-Daria), a 859; (Syria), b 860, *a* 861; (Turgai), XXIII, b 667; flora and fauna of the (Russia), XXI, b 84, *a* b 85

Stepping (Graduation), XI, b 25

Step rail (Tramway) (Ill.), XXIII, a 538

Steps in mines (Mining), XVI, a 483; stone (Building), IV, a 423

—— of Sakkarah, pyramid (Egypt), VII, a b 634, a b 670

Steradians in angles (Mensuration), XVI, a 30

Stercorarius, genus (Skua), XXII, a b 133

Stereochromy, process (Silica), XXII, b 59

Stereognathus, fossil (Mammalia) (Ill.), XV, b 378

Stereographic projection (Geography), X, a 181–3

Stereometer, Say's (Hydrometer) (Ill.), XII, b 573, a 575

STEREOSCOPE instrument (Ill.), XXII, a 565–9
  applications, b 568–9
  conversion of relief, a b 568
  history of, a 565–6
  picture taking, b 566–7
  reflecting mechanisms, b 567
  refracting mechanisms, b 567–8
  Telestereoscope, b 568
  theory of, a b 566

—— (Brewster), IV, b 246; (Diagrams), VII, a 129; (Porta), XIX, b 540

Stereoscopic binoculars (Microscope) (Ill.), XVI, a 284–6

Stereotyping (American Journalism), XVII, b 883; (Didot, Firmin), VII, b 170; (Ged), X, a 114; advantages of (Typography), XXIII, a 748; drawbacks of, b 754; process of, a 748–9

Sterigmata, organs (Botany) (Ill.), IV, a b 144; (Lichens) (Ill.), XIV, a b 558

Sterility (Hybridism), XII, *b* 437–8, a b 439, a 440 1; (Medical Jurisprudence), XV, a 789

Sterlet, species (Sturgeon) (Ill.), XXII, b 644

STERLING, Illinois, city, XXII, a 569

——, Edward, journalist, XXII, a 569; (Newspapers), XVII, b 428

STERLING, John, author, XXII, a b 569; (Hare), XI, a b 427; (Maurice), XV, a 645, a 646

Sterlings, coins (Numismatics), XVII, b 674

Sterlitamak, town (Ufa), XXIII, b 764

Stern, H. A. (Abyssinia), I, a b 65, b 66

Sternal ribs (Mammalia) (Ill.), XV, b 360, a 361

STERNBERG, town, XXII, b 569

Sternbergite (Mineralogy) (Ill.), XVI, a 409

STERNE, Laurence, humorist, XXII, b 569–71; (Lytton), XV, b 124

Sternhold, Thomas, translator (Hymns), XII, a 624

Sterninæ, family (Tern), XXIII, a b 206

Sternoptychidæ, family (Ichthyology), XII, b 720, a 723, a 732

Sternoxi, beetles (Coleoptera), VI, b 119–20

Sternum, bone (Amphibia), I, a 659; (Anatomy), a 721, b 728; (Ape), II, a 141; (Birds), III, b 623–4; (Crustacea) (Ill.), VI, a b 559; (Hoactzin), XII, a 31; (Horse), a 181; (Humming Bird), b 371; (Mammalia) (Ill.), XV, b 360–1; (Ornithology), XVIII, a b 23, a 24, b 26, a 27, a 28, a b 35, note, b 38, a b 47; (Owl), a b 92; (Skeleton), XXII, b 120–1

Sterrastrosa, group (Sponges), XXII, a 440

STESICHORUS of Himera, poet, XXII, a 571; (Greece), XI, b 124; (Sicily), XXII, a b 21

Stesimbrotus of Thasos, grammarian (Homer), XII, a 118

Stetefeld's furnace (Furnace), IX, a 743

Stethoscope (Auscultation), III, b 87, *a* 88; (Medicine), XV, a 825; (Morgagni), XVI, b 849

Stet processus (Process), XIX b 810

STETTIN, town (Plan), XXII, a 571–2; capture of, 1713 (Prussia), XX, b 12–3

STEUART, Sir James Denham, economist, XXII, a 572; (Political Economy), XIX, a b 378, a 385

STEUBEN, Friedrich Wilhelm von, baron, XXII, a b 927; XXIII, b 839–40

STEUBENVILLE, Ohio, city, XXII, b 572

Steuco, Agostino, theologian (Theology), XXIII, a 281

Steudner, traveller (Heuglin), XI, b 699

Steuerräthe, collectors (Prussia), XX, b 11

Steuerverein (Protection), XIX, b 937

Stevens, Alexander Hodgdon, physician, XXII, b 927–8

——, Alfred, sculptor (Sculpture), XXI, b 587, a b 588, note

STEVENS, Ebenezer, patriot, XXII, b 927

——, Edwin Augustus, engineer, XXII, b 927

——, George, critic (Goldsmith), X, b 679

——, Henry, bibliographer (Globe), X, a 607, b 608 note, a 609; (Libraries), XIV, b 539 note, a 540, a 541

STEVENS, John, engineer, XXII, *b* 927; (Steam-Engine), *b* 920

——, John Austin, banker, XXII, a 928

——, John Austin, Jr., antiquary, XXII, a 928. See List of Contributors

——, Robert Livingston, engineer, XXII, b 927

——, Samuel, jurist, XXII, b 927

STEVENS, Thaddeus, statesman, XXII, b 572–3

STEVENS, William Bacon, bishop, XXII, a 928

—— Institute of Technology (Hoboken), XII, b 42

Stevenson, Alan, engineer, XXII, a 573; (Harbors and Docks), XI, b 411, a 412, note (Light-House), XIV, a 621, b 625–6, a 633, b 634–5, b 636

——. Archibald, inventor (Glass), X, a 587

——, Sir Archibald, physician (Pitcairne), XIX, a 142

——, David, engineer, XXII, a b 573; (Coffer-Dam) (Ill.), VI, b 105; (Geology), X, a 242, *a* b 243. See List of Contributors

——, David Alan, engineer (Harbors and Docks), XI, a 412 note

——, John Hall, humorist (Sterne), XXII, a 570

——, J. J., explorer (Pueblo Indians), XX, *a* 890; (Surveys), XXII, a 937, b 938

STEVENSON, Robert, engineer, XXII, a b 573; (Bridges), IV, a 290; (Canal), b 691, a 692; (Harbors and Docks), XI, a 414; (Light-House), XIV, a b 621, b 632, *b* 634, b 635, *b* 636

——, Thomas, engineer (Coffer-Dam), VI, b 104; (Geology), X, a b 252, note, a b 253, note; (Harbors and Docks), XI, a 408, b 409, a b 413, a 419, a 422; (Light-House), XIV, a 620, *b* 621, a *b* 626, *b* 627, *a* b 628, *b* 632, *b* 636. See List of Contributors

——, William, essayist (Gaskell), X, *a* 94, a 95

—— screen (Meteorology) (Ill.), XVI, a b 120; (Thermometer), XXIII, b 310

Stevington Tithe, farm (Agriculture), I, a 282–3

STEVINUS or Stevin, Simon, mathematician, XXII, b 573–4; (Napier), XVII, a 192; (Navigation), a 257

Steward, James the (Scotland), XXI, *b* 509

——, Robert the, king. See ROBERT II. of Scotland

—— of Baldinnies, poet, (Scotland), XXI, a 568

——, Lord High (Precedence), XIX, *b* 682 note; department of (Royal Household), XXI, b 42, notes

Stewards, church officers (Methodism), XVI, a 194, b 195, b 196, b 197

Stewart or Steuart. See STUART

——, Sir Alan of Dreghorn, XXII, a 642

——, Alexander, bastard of Buchan (Mar), XV, a 532

——, Sir Alexander, XXII, a 642

——, Sir Alexander, "Wolf of Badenoch." See Buchan

——, A. D., engineer (Bridges), IV, a 306

——, Alexander P., physician (Typhus), XXIII, b 720

STEWART, Alexander Turney, merchant, XXII, a b 928

——, Balfour, physicist (Meteorology), XVI, *b* 175, b 176, b 178, b 180, a 184, b 186, b 187, b 188; (Radiation) XX, a b 221, *a b* 222, a b 223. See List of Contributors

STEWART, Charles, commodore, XXII, b 928–9

——, C. E., colonel (Persia), XVIII, b 635

STEWART, Dugald, philosopher, XXII, b 574–5; (Æsthetics), I, b 192, a b 201; (Association of Ideas), II, a 639; (Brown, Dr. Thomas), IV, a b 348, a 349; (Dream), VII, a 394, a 396; (Encyclopædia), VIII, a b 183; (English Literature), b 384, a b 385; (Ethics), b 531 note, a 532; (Grotius), XI, a 196; (Hamilton, Sir W.), b 372; (Mill, James), XVI, a 319; (Porism), XIX, a 535 note; (Psychology), XX, b 89 note; (Reid), b 364, a 365

——, Fanny, duchess of Richmond (Clarendon), V, b 704

——, James, 5th steward of Scotland (Stuart), XXII, *a* 642

——, Sir James, soldier (Stuart), XXII, a 642

STEWART, Sir James, Denham. See Steuart

——, Matthew, mathematician, XXII, b 574

——, Robert. See LONDONDERRY, earl of

——, Sir Walter, baron of Garlies (Stuart), XXII, a 642

——, Walter, 6th steward, Scotland (Stuart), XXII, a 642

—— -Diamond, VII, b 142

—— Island (New Zealand), XVII, a 479, a 480

Stewarton hive (Bee) (Ill.), III, b 432, b 433

Stewarts' *Practical Angler*, II, b 33, a *b* 34

Stewing (Cookery), VI, a 296

Steyning, borough (Sussex), XXII, a 761, *a* 762

STEYR, Steier or Steyer, XXII, b 575

Sthala-puranas (Sanskrit), XXI, a 297

Sthenebœa, queen of Tiryns (Bellerophon), III, a b 471
Stibiconite (Mineralogy), XVI, b 404
Stibines (Chemistry), V, a 501; (Mineralogy), XVI, b 387
Stibium paint (Antimony), II, a 114
Stibnite, ore (Antimony), II, a 114; (Mineralogy), XVI, b 410
Sticharion, vestment (Costume), VI, a 410
Stichometry (Alexandrian MS.), I, b 438; (Bible), III, a 558; (Canon), V, b 9; (Palæography), XVIII, b 167–8; (Thucydides), XXIII, a 347
Stickeen, river (Columbia, British), VI, b 151
Stickers (Organ) (Ill.), XVII, a b 858
STICKLEBACK, fishes (Ill.), XXII, b 575–6; (Ichthyology), XII, b 702, b 703, a 707, a b 714, b 729
Stickney, Sarah, author (Ellis), VIII, b 139–40
Sticks in printer's form (Typography), XXIII, a 746
Stictei, genus (Lichens), XIV, b 556, a 557, a b 563, a 564, a b 565, b 566
Stiebel's canal (Mollusca), XVI, a 688
Stieda, naturalist (Trematoda), XXIII, b 571, a 575
Stiengs or Mois, savages (Cochin China), VI, a 88
Stieren, Adolph, editor (Irenæus), XIII, b 280
Stifelius, mathematician (Algebra), I, b 453
Stiffness, structural (Mechanics), XV, b 758, b 760, b 777. See Rigidity
Stifle-joint (Horse), XII, b 181
Stifter, dioceses (Norway), XVII, b 597
Stigand of Canterbury, bishop (Godwine), X, b 641
Stigma of plants (Botany) (Ill.), IV, a b 114, b 127, a b 131; (Horticulture), XII, *b* 219
Stigmata, pores (Coleoptera), VI, a b 115; (Hymenoptera), XII, a 606; (Tunicata), XXIII, b 649, a 653, b 654
Stigmata of St. Francis, painting (Schools of Painting) (Ill.), XXI, a 452
STIGMATIZATION, preternatural marks, XXII, b 576–8; (Apparitions), II, a 179; (Catherine, St.), V, b 200–1; (Francis, St.), IX, a b 611; (Insanity), XIII, a 115
Stilbite (Granite), XI, a 45; (Mineralogy) (Ill.), XVI, a 374, a 382, b 389, b 439, a 441
Stiletto (Dagger), VI, b 670
STILICHO, Flavius, general, XXII, b 578; (Alaric), I, a b 392; (Claudianus), V, *b* 712, a 713; (Hadrian, Wall of), XI, *a b* 327; (Rome), XX, *a b* 798; (Rutilius), XXI, *b* 121–2; (Theodosius), XXIII, a b 278; (Vesta), XXIV, a 211
STILL, John, bishop, XXII, b 578
Stillé, Charles Janeway, educator (Sanitary Commission), XXI, b 903, b 904 note
Stilling, Heinrich. See JUNG
STILLINGFLEET, Edward, theologian, XXII, b 578–9; (Bentley), III, a 499; (Cardinal), V, b 85; (Cathedral), b 198; (Locke), XIV, *a* 761; (Owen), XVIII, a 90; (Penn), b 503; (Philosophy), b 808
Stillingia sebifera, tree (Oils), XVII, a 768
Stills (Distillation), VII, a 230–1; (Paraffin), XVIII, a b 246; (Petroleum), a 732, b 890
STILLWATER, Minnesota, city, XXII, b 579
Stilo Præconinus, Lucius Ælius, grammarian (Varro), XXIV, a 100, b 101
Stilpnomelane (Mineralogy), XVI, b 432
Stilpo, philosopher (Euclid of Megara), VIII, b 578
STILT or long-legged plover, bird (Ill.), XXII, b 579–80
Stilton Cheese, V, *a* b 395; (Dairy), VI, b 680
Stilt-walkers, people (Lincoln), XIV, *b* 660
Stimmen der Völker (Germany), X, a 480
Stimulants (Dietetics), VII, b 175, b 177, a b 178; (Drunkenness), a b 416, a 417; nerve (Physiology), XIX, b 27–9; treatment by (Hunter), XII, b 401; (Medicine), XV, a 823
Sting (Ant), II, a 84, a 85, b 87; (Arachnida), a 240, b 248, a 251, a 256, a 259; (Bee), III, a 420, a 434; (Centipedes), V, *a* 296; (Gnat), X, b 624; (Nemertines), XVII, b 336
—— of plants (Botany), IV, a 81; (Nettle), XVII, b 369
Sting-ray, fish (Ichthyology), XII, a b 704, b 724; (Ray), XX, b 312
Stink-bird (Hoactzin), XII, b 31
Stink-pot, bird (Petrel), XVIII, b 725
Stinkstein, rock (Geology), X, a 207
Stint, bird (Sandpiper), XXI, b 272 note, *a* 273
Stipa genus of plants (Horticulture), XII, a 260; (Russia), XXI, b 84, a 85
Stipe, stem (Botany), IV, a 94
Stipeæ, order (Grasses), XI, b 49, b 50, b 52
Stiper stone series (Geology), X, b 293
Stipitate flower (Botany), IV, b 114
Stipulatæ, sub-class (Ferns), IX, a 89, b 92–3, a b 94
Stipulation in jus civile (Roman Law), XX, b 712–3; in jus gentium (Roman Law), b 717, a b 718; confirmatory (Roman Law), a 719–20; prætorian (Roman Law), b 728–9
Stipules of leaves (Botany) (Ill.), IV, a b 102
"Stirabout," porridge (Oat), XVII, a 716
STIRLING, county, XXII, b 580–2; (Coal), VI, b 50, a 51
STIRLING, town (Plan), XXII, b 582–4; battle of, 1297 (Scotland), XXI, b 509; (Wallace), XXIV, b 347; "field of" (Scotland), XXI, a 518; siege of, 1304 (Scotland), a b 510
STIRLING, James, mathematician, XXII, a b 584
——, Patrick, engineer (Railway), XX, b 255, a 256
——, Robert, physicist (Steam-Engine), XXII, b 501; (Air-Engine), I, b 379; (Steam-Engine) (Ill.), XXII, b 549, a 550, b 553
——, earl of, Sir William Alexander, poet, I, b 435–6; (Baron), III, b 335; (Drama), VII, a 373; (Hymns), XII, b 624; (Maine), XV, *b* 303; (Scotland), XXI, a 568
Stirling-Maxwell, Sir William. See MAXWELL, Sir W. S.
——, Lady. See NORTON, C. E.
Stirling's table of grasses (Agriculture), I, b 329–30
Stirrups (Horse), XII, b 199–200
Stitches (Sewing-Machines) (Ill.), XXI, a b 755, a 918–20
Stitny, Thomas of, author (Slavs), XXII, a 161
Stjernhelm, Georg or Göran Lilja, poet (Sweden), XXII, *b* 792–3
Stlifanos, town. See Sliven
Stoa Pœcile (Athens), III, a 6; (Stoics), XXII, b 589
Stoat, mammal (Ermine) (Ill.), VIII, b 465; (Mammalia), XV, a 447; (Weasel), XXIV, b 488
STOBÆUS, Johannes, compiler, XXII, b 584–5; (Cleanthes), V, *b* 715
——, Kilian, physician (Linnæus), XIV, b 678
Stobi, town (Macedonia), XV, a b 138
Stock (Debenture), VII, a 15; Smith on (Political Economy), XIX, b 380
——, flowers (Horticulture), XII, b 217–8, b 241–2, b 255, a b 256
——, Live. See Cattle
—— of anchor (Ill.), II, b 6–7; of gun (Shooting), XXI, a 873; of breech-loading rifle (Gunmaking), XI, a 252; sporting (Gunmaking), a 248
Stockade (Fortification) (Ill.), IX, b 373–4
Stock brokers (Government), XI, b 18. See STOCK EXCHANGE
Stockdale, book-publisher (Campbell), IV, a 670; (Erskine), VIII, a 469
—— Beds, rocks (Westmorland), XXIV, b 542
Stock-Dove, VII, b 328
Stöcker, Adolf, preacher (Socialism), XXII, a 227
STOCK EXCHANGE, XXII, a 585–6; (Account), I, b 86–7; (Arbitrage), II, a 273; (London), XIV, b 841; quotations (Annuities), II, b 65
Stock-fish (Ling), XIV, a 675
Stockholm, province (Sweden), XXII, a 778, b 780
STOCKHOLM, city (Maps), XXII, b 586–8; (Sweden), a 784, a 785, a 786; (Academy), I, a 71, b 75; (Gustavus I.), XI, *b* 297; (Libraries), XIV, b 531, b 551; (Newspapers), XVII, a 423; (Observatory), a 735
"Stock im Eisen," stump (Vienna), XXIV, b 237
Stocking-frames (Hosiery) (Ill.), XII, b 312–3
Stockings (Costume), VI, *b* 418, a 420, b 421, *a* 422; (Hosiery), XII, b 312–4; silk (Electricity), VIII, a b 8; yarn (Cotton), VI, a 444
Stock-jobbing (Mirabeau), XVI, b 517, a 518. See STOCK EXCHANGE
STOCKPORT, town, XXII, b 588–9; (Cheshire), V, a *b* 512, a 513
Stocks, double acting (Leather) (Ill.), XIV, b 383
STOCKS, penal, XXII, a 589
—— Market (London), XIV, *a* 837, b 838, a 852, a 860
Stock Telegraphs, XXIII, b 130–1
STOCKTON, California, city, XXII, a 589
STOCKTON-ON-TEES, town, XXII, a b 589
—— and Darlington railroad, VI, b 728; (Railway), XX, *a b* 231
"Stockwell" (Horse), XII, a 188, *a* 189
Stodare, Colonel (Magic), XV, a 208, a 211
Stodart, Robert, musical instrument maker (Pianoforte), XIX, *a* 82
——, William, manufacturer (Pianoforte), XIX, b 83, a 84
Stoddart, Sir John, journalist (Hone), XII, a 139; (Newspapers), XVII, b 428, a 429 note; (Scott), XXI, b 572
Stoeckl, A., pædagogue (Education), VII, b 588, a 589
Stoelzel, inventor (Ophicleide), XVII, a b 801
Stoglaff, canons (Russia), XXI, b 100
STOICS, philosophers, XXII, b 589-602
  affections, a b 596
  Aurelius, Marcus, a 602
  Chrysippus, a 591
  Cleanthes, b 590–1
  cosmogony, b 592–3
  cosmopolitanism, b 597–8
  distribution of, b 589–90
  divisions, historical, a 590
  eclecticism, a b 600
  Epictetus, b 601–2
  ethics, a 595–7
  fitness of conduct, a b 597
  Heraclitean contrast, a b 593
  indifferent things, a b 597
  instinct, b 595–6
  knowledge, theory of, b 593-5
  later Stoicism, b 600–2
  literature, a 602

- Stoics, *continued*
  - logic, a 595
  - materialism of, b 591-2
  - middle stoa, b 598-9
  - monism or pantheism, a 592
  - Musonius, b 601
  - natural science, b 592-3
  - old stoa, a 590-8
  - Panætius, a b 600
  - perception, a b 594
  - philosophical conceptions, a 591-2
  - pneuma doctrine, b 592-3
  - Posidonius, b 600
  - psychology, b 593-5
  - rational impulse, a b 595
  - religion, a b 598
  - right reason, b 596-7
  - Roman Stoicism, b 599-602
  - Seneca, a b 601
  - virtue, b 596-7
  - Zeno of Citium, a b 590
- —— (Academy), I, b 67; (Augustus), III, b 71; (Aurelius), a 76, b 77-8; (Carneades), V, b 106; (Category), a 195; (Cato), a b 210; (Chrysippus), a b 660; (Dream), VII, b 392; (Epictetus), VIII, a b 419; (Epicurus), a 421, a b 422; (Ethics), a 514-7; (Evolution), a 663; (Grammar), XI, a 39; (Horace), XII, *b* 166, *a* 167; (Logic), XIV, a 799, note; (Logos), *a* 813; (Neoplatonism), XVII, a b 342-3; (Persius), XVIII, a b 675, a 676; (Pessimism), b 698; (Roman Literature), XX, a 745; (Seneca), XXI, a b 691; (Theism), XXIII, a 258; (Varro), XXIV, a b 100, a 103; influence of (Roman Law), XX, b 729
- Stokade, Nicolaes de Helt, painter (Helst), XI, b 572
- Stoke, battle of, 1487 (Ireland), XIII, a 268; (York), XXIV, b 790, a 791
- ——, Melis, historian (Holland), XII, a 88, a 94
- —— college (Parker), XVIII, b 304, a 305
- —— Newington, district (London), XIV, *a* 827, a b 831
- —— Pogis, village (Gray, Thomas), XI, a 71, note
- Stokers, mechanical (Smoke Abatement), XXII, b 191; (Steam-Engine), a 523
- Stokes, Mount (Chili), V, a 535
- ——, George Gabriel, mathematician (Earth), VII, b 520, a 526; (Herschel), XI, b 687; (Hydromechanics), XII, b 468; (Light), XIV, *a* b 607, b 616; (Meteorology), XVI, a 191-2; (Optics), XVII, b 827, b 828; (Pneumatics), XIX, a 260; (Radiation), XX, a 222, a 224; (Telescope), XXIII, a b 155, note; (Wave), XXIV, *a* 442, b 443; (Wave Theory), a b 448, a 449, notes, b 450, b 454, b 455, b 456, b 465, b 466, a 475; his law of secondary wave (Wave Theory), XXIV, a 478, a b 479, b 481; his theorem (Wave Theory), b 472, b 477
- ——, Whitley, antiquary (Celtic Literature), V, *a* b 281, *b* 283, a 284, *b* 285
- ——, William, physician (Heart), XI, a 493; (Medicine), XV, a 826
- Stokesia, plant (Horticulture), XII, a 260
- Stoke-upon-Trent, town, XXII, a b 602
- Stoking (Glass), X, *b* 587
- Stolatz, town (Herzegovina), XI, a 693
- Stolberg or Stollberg, town, XXII, b 602
- Stolberg, Counts Christian and Frederick Leopold, poets, XXII, *b* 602-3; (Germany), X, b 483; (Goethe), b 646, a b 648, a 656
- Stole, vestment (Costume), (Ill.), VI, b 408
- ——, groom of the (Royal Household), XXI, a 43
- Stolen goods (Theft), XXIII, a b 252, b 253
- Stoletow's experiments (Magnetism) (Ill.), XV, b 256, b 257
- Stolgebühren, tax (Brunswick), IV, b 361
- Stoliczka, geologist (Kuen-Lun), XIV, a 154
- Stollberg, town. See Stolberg
- Stolon (Botany), IV, a 86
- Stolp or Stolpe, town, XXII, a 603
- Stolpenite (Mineralogy), XVI, b 443
- Stolpmünde, village (Stolp), XXII, a 603
- Stolze, Fr. (Persepolis), XVIII, b 569, note, a b 570 notes, a 571, notes
- Stölzel, Godefroi Heinrich, composer (Trumpet), XXIII, b 631
- Stolze's system (Shorthand), XXI, *a* 881
- Stolzite (Mineralogy), XVI, b 420
- Stomach (Abomasum), I, a 53; (Ape), II, a 145; (Bees), III, a b 419; (Birds), a 629; (Camel), IV, b 650; (Corals), VI, a 328; (Crustacea) (Ill.), b 564; (Echinodermata), VII, a 548; (Horse), XII, b 183; (Ichthyology), a 693; (Kangaroo), XIII, a 849; (Llama), XIV, a 745, note; (Mammalia) (Ill.), XV, a 364, a 365, a 412, a 428; (Rotifera), XXI, a 11
- ——, human (Anatomy), I, a 793, a 796; (Digestive Organs) (Ill.), VII, b 194-6; (Nutrition), XVII, *b* 687, a 688-90, b 692-3, a b 696
- Stomach, Diseases of the, XXII, a 603-4; (Cramp), VI, b 481; (Dyspepsia), VII, b 506-7; cancer of (Pathology) (Ill.), XVIII, b 387, a b 388, a b 389
- Stomacher (Costume), VI, a b 419
- Stomapoda, group (Crustacea), VI, a 561, b 563, a 571, b 573 note, b 579, a b 582
- Stomata of plants (Botany) (Ill.), IV, a 79-80; (Histology), XII, b 19-20; function of (Physiology), XIX, a 52, b 53
- Stomatophora (Protozoa), XXI, b 860
- Stomiatidæ, family (Ichthyology), XII, a 723, a 732
- Stomodæum, mouth (Mollusca), XVI, a 656, a 657, b 658
- Stomoxys, insect (House-Fly), XII, b 330, *a* 331
- Stone, building (Building), IV, *a* 401, a 404, a 419-21; (Harbors and Docks), XI, b 414-5; (Kansas), XIII, a 852; (Venice), XXIV, b 161-2; paving (Roads and Streets), XX, a 599, b 600
- ——, disease (Insanity), XIII, b 107; (Vesical Diseases), XXIV, a b 205
- Stone, town, XXII, *b* 604
- ——, weight (Weights and Measures), XXIV, *a* 514, a 515, b 516
- ——, E. (Astronomy), II, a b 696, *a* 697
- ——, Nicholas, sculptor (Sculpture), XXI, a 587
- Stone, William Leete, journalist, XXII, a 929
- ——, William Leete, 2d, author, XXII, a 929
- —— age (Anthropology), II, b 108; (Archæology), b 292, *a* b 293, b 294-6; (Arms and Armor) (Ill.), a 485; (Barrows), III, *a* 343; (Geology), X, b 327; (India), XII, b 815, b 816; (Indians), a 863; (Lake Dwellings), XIV, b 224, a 225; (Metal-Work), XVI, a 77; (Russia), XXI, *a* 86; (Saghalin), b 155; survival (Tibet), XXIII, b 365; remains (Pembroke), XVIII, a 493; (Perm), b 561
- Stone-breaker (Metallurgy) (Ill.), XVI, b 63; (Mining), b 484
- Stone-breaking (Roads and Streets), XX, a 599
- Stonechat, bird (Wheatear), XXIV, a 567
- Stone circles (Architecture) (Ill.), II, b 335-6, a b 395; (Arabia), a 230; (Arran), a 550; (Carnac), V, b 104; (Cornwall), VI, b 378; (Rude Stone Monuments), XXI, b 57, b 58; (Stonehenge), XXII, b 604-5
- —— Coal. See Anthracite
- —— crop, plant (Botany), IV, b 98, a b 115, b 117
- —— Curlew, bird, VI, b 628
- —— cutting (Hand Tools), XI, a 391, b 392; (Sand Blast), XXI, b 269, note
- —— drifts (Coal), VI, a 59
- —— -drums, of China (Mongols), XVI, a 769
- —— fencing (Agriculture). I, a 276
- —— flies (Insects), XIII, b 158
- Stonehatch, plover (Killdeer), XIV, b 78
- Stonehaven, town (Kincardine), XIV, *a* b 81
- Stonehenge, ruins, XXII, b 604-5; (Archæology), II, a 296; (Architecture) (Ill.), b 335-6; (Druidism), VII, a 413; (Jones, Inigo), XIII, *b* 748; (Weights and Measures), XXIV, a 509, a 511; (Wilts), a 625, b 626
- Stoneman, George, general (Stuart), XXII, b 931
- Stone pavements (Roads and Streets), XX, a 600-1
- —— Pine, XIX, b 113, b 114
- Stones, earthfast (Agriculture), I, a b 298; fetich (Mythology), XVII, a 160; field slate (Geology), X, *b* 315; Meteoric, XVI, b 116-7; sacred (Sacrifice), XXI, b 141
- Stonesetting (Building), IV, b 420-1
- —— slabs (Weights and Measures), XXIV, *a* 513
- Stonewall brigade (Jackson, T. J.), XIII, b 544
- Stoneware (Pottery and Porcelain) (Ill.), XIX, a b 650, a 651
- Stone worship (Religions), XX, a 374
- Stoney, B. B., engineer (Harbors and Docks), XI, a 415
- Stoning machine (Leather), XIV, b 387
- Stonington, Connecticut, town, XXII, a 605
- Stonyhurst, settlement (Jesuits), XIII, b 666; college (Observatory), XVII, b 731; (Meteorology), XVI, b 184, b 191
- Stop-gates (Canal), IV, b 693
- Stoping, method (Mining) (Ill.), XVI, a 472-3
- Stoppage remedy (Sale), XXI, b 218
- Stoppers (Seamanship), XXI, a 621
- "Stopping out" in etching (Surveying), XXII, a 752
- Stopping teeth (Dentistry), VII, a b 86
- Stop-rod motion (Weaving), XXIV, a 493
- Stops (Irrigation), XIII, a 375, b 376
- ——, musical (Harmonium), XI, *a* b 432; (Organ), XVII, a b 852, b 853; (Pianoforte), XIX, *a* 73, b 77, a 78
- Stör, river (Itzehoe), XIII, b 528
- Storace, Anna Selina, singer, XXII, a b 605
- Storace, Stephen, composer, XXII, a b 605
- Storage batteries (Traction), XXIII, a 527
- —— of Water-Supply, XXIV, b 427, a b 431
- Stora Lulea Elf or river (Sweden), XXII, a 774, a 775
- Storax, gum, XXII, b 605; (Balsam), III, a 253; (Incense), XII, a 757; (Liquidambar), XIV, *b* 693
- Storch, Heinrich Friedrich, economist (Political Economy), XIX, b 401-2; (Say), XXI, b 376, *a* 377
- ——, Nicholas, Anabaptist (Luther), XV, *a* 78; (Münzer), XVII, b 38-9
- Store cities, Egyptian (Rameses), XX, b 277, a 278
- —— orders (Labor), XIV, a 173
- Stor Fjord (Norway), XVII, b 590
- *Storia della Musica* (Martini), XV, b 591
- —— *della Scultura* (Cicognara), V, b 675
- —— *d'Italia* (Guicciardini), XI, *b* 227, *a b* 228; (Italy), XIII, b 519

Stories of houses, lexicon of (Architecture), II, b 417
Storing gas (Gas-Lighting), X, b 86–7
STORK, bird (Ill.), XXII, b 605–6; (Adjutant), I, a 141; (Birds), III, b 617, a 658; (Jabiru), XIII, b 539; (Parasitism), XVIII, a 264
——, Sir Henry, commissioner (Ionian Islands), XIII, a 213; (Jamaica), a 561
Storm, Edward, poet (Norway), XVII, b 604; (Oehlenschläger), a 751
——, Johan, philologist (Scandinavian Languages), XXI, b 385 note, b 390, note; (Speech-Sounds), XXII, b 396, b 405
Stormarn, division (Schleswig-Holstein), XXI, b 433
Storm Berg, mountains (Cape Colony), V, a b 38
Storm-centres (Meteorology), XVI, b 160
Storm myth (Gorgon), X, b 597–8
Stormont, district (Perth), XVIII, a 680
Stormontfield ponds (Salmonidæ), XXI, a b 235, note, a 237
Storm-Petrel, XVIII, a b 725
Storms, Captain, explorer (Zaire), XXIV, a 802
Storms (Famines), IX, a 24; (Meteorology) (Ill.), XVI, b 148, b 159–61, b 187; (United States), XXIII, a 858–9; sails in (Seamanship), XXI, b 630; velocity of (Geology), X, a 235; *Theory of* (Redfield, W. C.), XX, b 897
——, magnetic (Humboldt, A.), XII, a 358; (Meteorology), XVI, b 176–8
Stornello, song (Poetry), XIX, b 270, b 275, b 284
Stornoway bay (Lighthouse), XIV, a 632; island (Climate), VI, b 6; village (Hebrides), XI, a 542; (Lewis and Harris), XIV, a 492
Storr Rock (Skye), XXII, a 135
Storsa lake (Sweden), XXII, b 774
Storthing, legislature (Norway), XVII, a 597; reform of the (Charles XV.), V, b 366
Story, Edward, bishop (Chichester), V, b 533
——, Isaac, satirist, XXII, b 929–30
STORY, Joseph, jurist, XXII, b 605–6, a b 929; (American Literature), I, a 634; (Copyright), VI, b 319; (Domicile), VII, b 304, a b 305; (Husband and Wife), XII, a 416; (Marriage), XV, a b 575; (Patents), XVIII, a 874; (Universities), XXIII, b 960
——, William Wetmore, sculptor, XXII, b 929
Story-books (Kingston), XIV, a 92
Stoss or Stuos, Veit, sculptor (Nuremberg), XVII, b 681, b 682; (Sculpture), XXI, a 592; (Wood-Carving), XXIV, a 683
—— pass, battle of, 1405 (Switzerland), XXII, b 823, note
STOTHARD, Charles Alfred, draughtsman, XXII, a 607; (Blake), III, a 700
STOTHARD, Thomas, painter, XXII, a b 607; (Chantrey), V, b 343
Stoup, vessel (Architecture), II, b 417
Stoupacher, patriot. See Stauffacher
STOURBRIDGE, town, XXII, b 607; (Cambridge), IV, a 647; (Worcester), XXIV, a 701
Stour, river (Dorset), VII, a 321; (Hampshire), XI, b 384
——, river (Essex), VIII, a 489; (Suffolk), XXII, a 654
——, river (Kent), XIV, b 39; (Kidderminster), b 70; (Worcester), XXIV, b 700
Stout, liquor (Brewing), IV, a 246
Stove plants (Horticulture), XII, b 273–6, a b 277
STOVES AND FIREPLACES, XXII, b 607–8; (Furnace), IX, a 738; (Heating), XI, a b 528; (Smoke Abatement), XXII, a b 191; hot-blast (Iron) (Ill.), XIII, a 310–1; hot-house (Horticulture), XII, a 236
Stoving (Gunpowder), XI, a 293
STOW, John, historian, XXII, b 608–9; (Inns of Court), XIII, b 93, b 94; his *Survey of London* (Bowls), IV, b 163; (Bridges), a 297, a 298; (Carriage), V, b 119; (London), XIV, a 837, a 838, b 841, a b 844, b 845, a 847, a b 848, a 849, a 862; (Strype), XXII, b 641
Stowage (Seamanship), XXI, b 625; (Shipbuilding), a 854
Stow and Company (Post-Office), XIX, b 587–8
Stowe, manor (Buckingham), IV, b 373
STOWE, Calvin Ellis, teacher, XXII, a 930
——, Harriet Beecher, XXII, a b 930; (American Literature), I, a 638; (Slavery), XXII, b 150
STOWELL, William Scott, baron, jurist, XXII, a b 609; (Admiralty), I, b 146–7; (Burial), IV, a 480; (Contraband), VI, b 285, a 286; (Eldon), VII, b 719, a 720, a 721; (International Law), XIII, b 197; (Marriage), XV, a 572, a 574; (Search Right), XXI, b 638
Stowmarket, town (Suffolk), XXII, b 654
Stow-net (Fisheries), IX, b 222–3
Strabane, town (Tyrone), XXIII, a b 760
Strabili, Francesco degli, encyclopædist (Cecco d'Ascoli), V, b 245
Strabismus, squinting (Eye), VIII, b 723; (Ophthalmology), XVII, b 807–8; (Spectacles), XXII, b 386
STRABO, geographer, XXII, b 609–2
  authorities used by, b 611–2
  biography, b 609–10
  editions of, a b 612
  epoch of, b 609
  geography of, a 611–2
  works of, a 610–1
—— (Cappadocia), V, a b 67; (Caspian Sea), a 157; (Cilicia), b 678, b 679, a 680; (Cimbri), a 682; (Geography), X, b 158; (Gold), b 666; (Memnon), XV, a 856; (Nile), XVII, b 521; (Pamphylia), XVIII, b 210; (Peripatetics), a 557; (Persia), b 581; (Ptolemy), XX, a b 97, a b 98, a 99, a 100, a 101; (Romance), b 649 note; (Troad), XXIII, a 615, b 617, a 618, b 619; (Tyrone), b 760; (Umbria), a 771, a 772; (Vesuvius), XXIV, a 212; (Yemen), a 776, b 777, a 778
——, Walafrid. See WALAFRID STRABO
Strachan, John, bishop (Canada), IV, b 689
Strachey, Edward (Algebra), I, a 456
Stradbally, town (Queen's County), XX, b 177
STRADELLA, Alessandro, composer, XXII, b 612–3
Stradivari, Antonio, instrument maker (Violin), XXIV, b 263
Strafarbeidesanstalter (Prison Discipline), XIX, a 781
STRAFFORD, Thomas Wentworth, earl of, XXII, a 613–5; (Belfast), III, a 442; (Charles I.), V, b 351–2; (Ireland), XIII, b 235, b 236, b 272, a 273; (Milton), XVI, b 340; (Ormond), XVII, b 878–9; (Presbyterianism), XIX, a 711; (Pym), XX, b 127
Strahlstein (Mineralogy), XVI, b 435
Straight cornets, wind instruments (Zincken), XXIV, a b 826
—— line engine (Steam-Engine), XXII, b 922
Strain (Mechanics), XV, b 700–5; (Strength of Materials), XXII, b 624–5; bending (Strength of Materials), b 635–6; decomposition of (Mechanics), XV, a 702; double refraction due to (Wave Theory), XXIV, a b 476; longitudinal, modulus of (Elasticity), VII, a 700; at angles (Elasticity), a b 705; ellipsoid (Mechanics), XV, b 701
Strains (Elasticity), VII, b 692–4, b 697, a b 698, a 699, a 703, b 710–6; analysis of (Mechanics), XV, a 702–5; of ships (Shipbuilding), XXI, a 855–6
Straits of the East Indian Archipelago (Pacific Ocean), XVIII, a 120
STRAITS SETTLEMENTS, XXII, a 615–6; (Malay Peninsula), XV, a 325
—— tin (Mining), XVI, b 491
Strakes (Shipbuilding) (Ill.), XXI, b 857–8
STRALSUND, town, XXII, b 616; (Hanseatic League), XI, b 402, a b 403; siege of, 1628 (Charles XII. of Sweden), V, b 365; (Leven), XIV, a 485; (Wallenstein), XXIV, b 349
Stramonium, plant (Botany), IV, a 119, b 130, a 136; (Narcotics), XVII, a 237, 238
Strand, street (London), XIV, b 830, a 831, a b 842, b 855, a b 858
Strandberg, Karl Vilhelm August, "Talis Qualis," poet (Sweden), XXII, b 796
Stranded vessel (Average), III, a b 128; (Insurance), XIII, a 193
Strandja, mountains (Kirk-Kilissia), XIV, a 101
Strands (Rope), XX, a b 866–7, a b 868
Strand wolf (Hyæna), XII, b 436
STRANGE, Sir Robert, engraver, XXII, b 616–7; (Engraving), VIII, b 393
Strangford, Lough (Down), VII, a 331
Stranglers, professional (Thugs), XXIII, a 348
Strangles, disease (Veterinary Science), XXIV, a b 220
Strangulated Hernia, XI, a b 673
Strangulation (Medical Jurisprudence), XV, b 791
Stranniki, sect (Russia), XXI, b 90
STRANRAER, town, XXII, a b 617; (Wigtown), XXIV, a 595
Stranton, town (Hartlepool), XI, a 445
Straps for joints (Building) (Ill.), IV, b 429–30
STRASBURG or Strassburg, city (Maps), XXII, b 617–8; (Alsace), I, b 560; (Bell), III, a b 464; (Education), VII, a 584; (Goethe), X, b 644–5; (Libraries), XIV, b 526, a 549; (Presbyterianism), XIX, a 696; (Saint-Just), XXI, b 185; (Tauler), XXIII, a b 88; affair at, 1836 (Napoleon III.), XVII, b 233; early printing at (Typography), XXIII, a 729, a 732, a b 733; Observatory, XVII, b 733; university of (Menzel), XVI, b 33; (Universities), XXIII, b 901, a 907
Strasburger, naturalist (Protozoa), XIX, b 863
Strasburg oath (France), IX, b 471; (Latin), XIV, b 340–1
——Turpentine, XXIII, b 711
Strass or Paste (Glass), X, b 584, b 591, b 593
Strata of rocks (Geology), X, b 288–9, a 329, b 330; (Mining), XVI, a 460
Stratagems of Satan (Acontius), I, a 93
Strategi, title (Greece), XI, a 88
Strategica or *Strategemata* (Polyænus), XIX, b 124
Strategy (War), XXIV, b 365, a 367, b 369–74

STRATFORD, Ontario, town, XXII, a 619
STRATFORD DE REDCLIFFE, Stratford Canning, Viscount, diplomatist, XXII, b 619-20
Stratford-le-Bow, district (London), XIV, a 827, a b 831, b 834, a 852
STRATFORD-ON-AVON, town, XXII, b 618–9; (Shakespeare), XXI, a 774, b 775, a *b* 777–9, a 780, b 785, *a* 787, a 789, a 801, a b 802, *a* 803, b 806; (Warwick), XXIV, a *b* 400
Strath, valley (Scotland), XXI, a 547
Strathbogie, district (Aberdeenshire), I, b 46; presbytery (Chalmers, T.), V, a b 327
Strathcairinn, battle of (Celtic Literature), V, b 275
Strathclyde, kingdom (Cumberland), VI, a 618; (Kirkcudbright), XIV, a b 100; (Lanark), b 252; (Lancashire), a 255; (Scotland), XXI, b 496, b 497, a 499, b 500, *a* b 501, b 504
Strathmore, valley (Forfar), IX, a *b* 361, a 362; (Scotland), XXI, a 547
Strathy river (Sutherland), XXII, b 764
Stratification in Geology (Ill.), X, b 258–62, a b 285, a 288–9; in Histology, XII, b 13, a 14, a 17, a 20
—— tanning (Leather), XIV, a 385
Stratified bodies (Magnetism), XV, b 268
Stratigraphical Geology, X, b 190, a 288–329
Strato of Lampsacus, philosopher (Cudworth), VI, a 610; (Evolution), VIII, a 663; (Peripatetics), XVIII, a b 557
—— of Sardis (Anthology), II, a b 92
Straton I., Tyre (Phœnicia), XVIII, a b 821, note, b 822
Strattis, tyrant (Scio), XXI, *b* 487
Stratton, Charles, or Tom Thumb (Dwarf), VII, b 490-1
Stratus, cloud (Meteorology), XVI, b 131, a 132
Straubenzee, Sir Charles, filibuster (Canton), V, b 35
Straubezell, commune (St. Gall), XXI, b 177
STRAUBING, town, XXII, a 620
Strauch, Alexander, naturalist (Amphibia), I, b 676; (Reptiles), XX, b 453, note, *a* 454, a 480, note; (Viper), XXIV, b 265
Straudt, von, mathematician (Projection), XIX, a 820
STRAUSS, David Friedrich, critic, XXII, a 620-1; (Apologetics), II, *b* 167; (Baur), III, a 388; (Evolution), VIII, a 674; (Germany), X, a 486, a 487; (Hutten), XII, *b* 429; (Jesus Christ), XIII, a 680, b 682, a b 683; (Theism), XXIII, b 264
——, Edward, musician, XXII, b 621
STRAUSS, Johann, composer, XXII, b 621
STRAUSS-DURCKHEIM, Hercule, entomologist, XXII, b 621
Straw (Agriculture), I, b 318; (Fuel), IX, a b 710; (Paper), XVIII, a 223, b 229; Bleaching of, III, b 713; vitrification of (Glass), X, b 576
STRAWBERRY, fruit, XXII, b 621–2; (Botany) (Ill.), IV, a 86, *b* 109, a 120, b 122, b 128, b 130, a 135, *a* 137; (Horticulture), XII, a b 287
—— Hill, villa (Twickenham), XXIII, a 716; (Walpole), XXIV, b 354–5; press (Bibliography), III, a 566
STRAW MANUFACTURES, XXII, a 622–3
Streak in crystals (Mineralogy), XVI, a 388
Stream, defined (Hydromechanics), XII, b 480–1
—— -clock or rheometer (Vascular System), XXIV, a 106, b 117
Streamer (Flag), IX, a 243
Stream flow (Hydrodynamics), XII, a b 481–2; gauging (Hydromechanics), b 499–503, b 537–9; line motion (Hydromechanics), b 463, b 471, b 481, a 487–91, b 548; lines (Shipbuilding), XXI, b 846, a b 848–9; obstructions (Hydromechanics), XII, a 469
Streams, artificial (Riparian Laws), XX, b 580; subterranean (Florida), IX, b 296
Streamstown inlet (Galway), X, a 51
Stream theory (Magnetism), XV, a 278
—— Tin, XXIII, a b 427
Streatham, village (London), XIV, a b 831
STREET, Alfred Billings, poet, XXII, b 930–1
STREET, George Edmund, architect, XXII, a b 623; (Building), IV, b 436; (Scott), XXI, *b* 569
"Street," ledge of shingle (Whitstable), XXIV, b 586
—— cleaning (Roads and Streets), XX, b 603
—— railways (England), VIII, a 216; (London), XIV, b 832; (Tramway), XXIII, b 537–41
STREETS and ROADS, XX, a 597-604; (Delhi), VII, a 42; (London), XIV, a 831–2; (Pompeii), XIX, a b 460
Street's blowing engine (Bellows), III, a b 476
Street sewers, XXI, a 746, b 747–8; sweepers (Brushes), IV, a 363; traffic (Police), XIX, a 348
Streicher, J.A., manufacturer (Pianoforte), XIX, b 81
Strelbitsky, geographer (Spain), XXII, *a* 312
Strelitz. See Mecklenburg Strelitz
Streltzy, militia (Moscow), XVI, b 887; revolts (Russia), XXI, *a* b 105
Stremma, measure (Greece), XI, a 79
Stremonius. See Austramonius
Strengite (Mineralogy) (Ill.), XVI, a 422
Strength (Mechanics), XV, a b 758, b 760; of animals, tables (Mechanics), a b 783; of field (Magnetism), a 228
STRENGTH OF MATERIALS (Ill.), XXII, a 623–39
annealing, a 631
bending stress and strain, a 635–6
bending and twisting combined, a 638
bursting of cylinders and spheres, a b 639
compression fracture, a b 632
deflection of beams, a b 637
diagrams, stress and strain, a b 627
diaphragm testing machines (Ill.), b 626–8
elastic strain measurement, b 629
elongation of tested material, a 631–2
Emery testing machine (Ill.), a b 628
factor of safety, a b 625
fatigue of metals, b 632–4
fractures, a b 623
graphic representation, a 634–7
hardening effect of set, b 629–31
influence of extension on strength, b 631–2
internal stress, a 634
live-load strain, b 633
moduluses defined, b 624–5
multiple lever testing machines, a b 626
ordinary beams, bending of, a 636
principal beam stresses, a 637
recorders, autographic, a 629
resilience, b 633–4
shearing force diagrams, a 636–7
shearing plane, b 632
single lever testing machine (Ill.), b 625–7
strains in general, b 624–5
stresses in general, a 623–4
struts, compression and bending, a 638–9
temperature, effect on metals of, a 634
tests of strength, b 625-9
torsion, b 637–8
ultimate strength, a b 625
uniformly varying stress, b 634–5
viscosity, a b 629
—— (Elasticity), VII, b 692–4; (Iron), XIII, a 363–5
Streonshalh, town (Whitby), XXIV, a 580
Strepsilas, genus of birds (Turnstone), XXIII, b 710–1
Strepsiptera, genus (Insects), XIII, a b 155
Streptatheræ (Grasses), XI, b 52
Streptocarpus, plant (Botany), IV, b 112, b 113, b 142
Streptochæte (Grasses), XI, a 49, b 50, a 51
Streptoneura, division (Mollusca) (Ill.), XVI, b 667, a 668, b 678, a 684
Stress (Attraction), III, b 55, b 56–7; (Constitution of Bodies), VI, b 276, a *b* 277, a 278; (Diagram) (Ill.), VII, a 130–1; (Elasticity), a b 691, b 692, note, a 694, b 697, a b 698, a 699, a 703, b 710–6; (Joints), XIII, *a* *b* 742, a b 743; (Mechanics), XV, b 700, b 755; (Strength of Materials), XXII, a 623–4, a b 625; classes of (Bridges), IV, b 254-6; computation of by sections (Bridges), b 284–6; internal (Strength of Materials), XXII, a 634; moment of (Bridges), IV, a 259–60; not axial (Bridges), b 256–7; tempering by (Elasticity), VII, b 709; thermodynamics of (Elasticity), b 705–6, a b 707; thermometrical (Heat), XI, a b 505; torsional (Steam-Engine), XXII, b 536, b 540
—— in language (Philology), XVIII, a b 802
—— of matter (Pneumatics), XIX, a b 252, a b 261
—— strain diagrams (Strength of Materials) (Ill.), XXII, a b 627, b 633, a b 634–6; variation, b 632–3, b 634–5
Stria cornea (Anatomy), I, b 771
Striæ on crystals (Mineralogy), XVI, a 381, a b 383
Striatum reticulare (Anatomy), I, a 771
Stricker, physician (Pathology), XVIII, a b 410, note
—— of Vienna, embryologist (Zoology), XXIV, b 855
Strikes and lockouts (Workingmen, United States), XXIV, b 917, a 920
STRICKLAND, Agnes, historian, XXII, a b 639
——, Hugh Edwin, naturalist (Ornithology), XVIII, a 18, b 19; (Touraco), XXIII, b 518
Stricture, pyloric (Stomach), XXII, b 604
Stridulation (Coleoptera), VI, a 116; (Cricket), a 511; (Grasshopper), XI, *a* 54; (Hymenoptera), XII, b 609
STRIEGAU, town, XXII, b 639
Striegel, Victorin, theologian (Lutherans), XV, *b* 86
Strife of the Faculties (Kant), XIII, a 855
Striges. See Strix
Strigillus, implement (Baths) (Ill.), III, b 377, a 378 note
Strigops, genus (Birds), III, b 624; (Parrot), XVIII, b 328, a 329
Strigula (Lichens), XIV, *b* 565, b 566
Strike, bird (Thrush), XXIII, a 343
——, tool (Brick), IV, *a* 250
—— of rocks (Geology), X, a 263, b 264, a 266; (Mining), XVI, a 460; fault (Geology) (Ill.), X, b 268, a b 269
Strikes of workingmen (Labor), XIV, b 168, a b 174; (Trade Unions), XXIII, b 533; railroad, 1877 (United States), b 834

Striking machine (Leather) (Ill.), XIV, b 385
String course (Architecture), II, b 417; (Building), IV, b 422
Stringed instruments (Pianoforte), XIX, b 72–86
Stringfellow's flying machine (Flight) (Ill.), IX, b 282-3
Stringocephalus group, rocks (Geology), X, b 302
Stringops, genus (Kakapo), XIII, b 834, note
Strings, musical (Pianoforte), XIX, *a b* 74, a 78, b 85; (Violin), XXIV, b 262; Greek names of (Lyre), XV, b 116
Strinnholm, Anders Magnus, historian (Sweden), XXII, a 796
Stripper machine (Wool), XXIV, b 693
Strisores, birds (Ornithology), XVIII, a 34
Strix, genus (Owl), XVIII, b 92, a b 93; (Ornithology), b 50-1
Strobilation (Hydrozoa), XII, a 586, b 588
Strobilus or cone (Botany) (Ill.), IV, b 110, a 139; (Hop), XII, b 159–60
Stroganoff, colonizer (Siberia), XXII, a 17
Stroganoff Apollo, II, b 163
Strogonoffs, family (Perm), XVIII, a b 562
Stroh, A., optician (Stereoscope), XXII, a 568
Strokkr, spring (Geysers), X, b 498
Ström, Hans, geologist (Norway), XVII, a 604
Stroma of choroid (Anatomy), I, a b 779
Stromata or *Stromateis* (Clemens Alexandrinus), V, b 715, a b 716; (Origen), XVII, b 865
Stromateidæ, family (Ichthyology), XII, a 716, a 728
Strombidium (Protozoa) (Ill.) XIX, a 885, b 887
Stromboli, island (Geology), X, a b 217, a 219; (Italy), XIII, a 450; (Lipari Islands), XIV, a 689
Strombus gigas, mollusc (Pearl), XVIII, a 459, note
Stromer, Ulman, manufacturer (Paper), XVIII, a 222
Stromeyer, chemist (Cadmium), IV, a 558
Stromeyerite (Mineralogy), XVI, a 408
Stromness, town (Orkney), XVII, b 872
Stromō, island (Denmark), VII, b 73; (Faroe Islands), IX, *a* 36
Stromösö, town (Drammen), VII, a 384
Strong, George T., financier (Sanitary Commission), XXI, b 903, a 904
"Strongbow," Richard de Clare, earl of Pembroke (Dublin), VII, a 432, a 433; (Ireland), XIII, b 264, a 265
Strong's island (Caroline Islands), V, b 111
Strongylosoma, genus (Myriapoda) (Ill.), XVII, b 127
Strongylus, genus (Nematoidea), XVII, a 334, note; (Veterinary Science), XXIV, a *b* 222–3
Stronsay island (Orkney), XVII, b 870, b 872
Strontia (Mineralogy), XVI, a 415; chrome, color (Pigments), XIX, a 96; hydrate (Sugar), XXII, a b 657
Strontianite (Mineralogy), XVI, a 415; (Strontium), XXII, b 639, a 640
STRONTIUM, metal, XXII, b 639-40; (Chemistry), V, a 455-6; spectrum (Spectroscopy), XXII, a 390
Strood, town (Rochester), XX, b 629
STROPHANTHUS, genus of plants, XXII, a b 640
Strophioles or caruncules (Botany), IV, a 140
Strophomena, genus (Brachiopoda), IV, *b* 171, a 177
Strophulus, eruption (Skin Diseases), XXII, b 130
Strops (Seamanship) (Ill.), XXI, b 620–1
STROUD, town, XXII, b 640; (Gloucester), X, *a* 613, *b* 615
Stroudley locomotive (Steam-Engine), XXII, b 547
Strozzi, Filippo, general (Medici), XV, b 798, b 799–800
——, Piero, general (Medici), XV, b 799, b 800
Structural formulæ (Chemistry), V, a b 476
—— Geology (Ill.), X, b 190, b 258–82
Structure, composition of (Mechanics), XV, a 758
—— of language, value of (Philology), XVIII, b 788
Structure, theory of (Mechanics), XV, a 758–60
Struel springs (Down), VII, a 331
STRUENSEE, Johann Friedrich, count, statesman, XXII, b 640–1; (Denmark), VII, b 76
Struggle for existence, human (Socialism), XXII, a *b* 230; animal (Variation and Selection), XXIV, b 85–6, a 87
Struma, disease (Scrofula), XXI, a b 580
Struthers, John, physician (Drowning), VII, b 411
Struthio, genus (Birds), III, a 621, b 622, a b 625, a b 626, b 633, a 640, a b 657 note; (Ostrich), XVIII, b 66–7; (Ornithology), a 48
Struthionidæ, family (Birds), III, a b 614, b 625; (Ornithology), XVIII, a b 27. b 38, note
Struthious warblers, birds (Ornithology), XVIII, b 51; (Wheatear), XXIV, b 567
Struthium, plant (Bleaching), III, b 704
Struts (Building) (Ill.), IV, a b 402, b 431; strength of (Bridges) (Ill.), IV, b 288–90; (Strength of Materials), XXII, a 638–9
Strutt, Jedidiah, inventor (Hosiery), XII, a 313
——, Joseph, antiquary (Yachting), XXIV, b 758
—— on Billiards, III, b 583
Strutt's Locks, XIV, a 753
STRUVE, Friedrich Georg Wilhelm, astronomer, XXII, a 641; (Astronomy), II, b 716, b 719, b 720; (Earth), VII, b 518; (Micrometer), XVI, b 254, b 261, a 263, a 264; (Telescope), XXIII, a *b* 162
——, H., astronomer (Wave Theory), XXIV, a 448, b 456, b 457, b 466
——, Otto Wilhelm von (Astronomy), II, a 693, b 710, b 717; (Earth), VII, b 524, b 525
Struve's base apparatus (Geodesy), X, b 146
Struvite (Mineralogy) (Ill.), XVI, b 423
STRY or Stryj, town, XXII, a b 641
Strychnia, alkaloid (Chloral), V, a 589; (Nux Vomica), XVII, b 706; (Physiology), XIX, a 41; nervous effects of (Physiology), b 33; poisoning (Tetanus), XXIII, b 217
Strychnine, poison (Ichthyology), XII, b 687; Poisons), XIX, b 290–1
Stryjkowski, chronicler (Poland), XIX, a 313
Strymon, river (Macedonia), XV, a 137, a *b* 138
STRYPE, John, historian, XXII, b 641; (London), XIV, a 862; (Parker), XVIII, a 306
Strzelecki, count, geologist (Australia), III, a 92, a 94
Stuart, Mount (Washington), XXIV, a 406
——. See Stewart
STUART, Stewart or Steuart, royal family, XXII, b 641–3; (Scotland), XXI, a 512
——, Arabella (Mary Stuart), XV, b 606; (Somerset), XXII, b 642
——, Sir Charles, ambassador (Portugal), XIX, a b 567
——, Sir Charles, general (Portugal), XIX, b 565
——, Charles Edward, the Pretender (Scotland), XXI, a b 542. See CHARLES EDWARD
——, Cohen, philologist (Java), XIII, a 619, a 620
——, Gilbert, historian (Henry, R.), XI, b 603
STUART, Gilbert, painter, XXII, a b 643; his portrait of Washington, XXIV, b 411
——, James, the Pretender. See JAMES
——, James, professor of mechanics (Steam-Engine), XXII, a 494, b 496
STUART, James Ewell Brown, general, XXII, a b 931; (War), XXIV, a 371, note
STUART, John M'Douall, explorer, XXII, b 643; (Australia), III, b 91, *a* b 92
——, John T., lawyer (Lincoln), XIV, b 665
——, Mary, queen. See MARY
STUART, Moses, exegete, XXII, b 931–2
——, Sophia, electress (George I.), X, *b* 378
—— and Revett's Athens (Archæology), II, b 301, *a b* 314; (Architecture), b 388–9
—— Crowns, VI, b 548; medals (Numismatics), XVII, *b* 674
Stub, Ambrosius, poet (Denmark), VII, b 79
Stubbs, George, painter (Veterinary Science), XXIV, b 214
——, William, bishop and historian (Dunstan), VII, b 472, note; (Glastonbury), X, *b* 601, b 602; (Government), XI, *a* 12; (Hovedon), XII, *a* 333; (Jury), XIII, *b* 793, *a* 794; (Justice), a *b* 798; (Knighthood), XIV, b 112, a 114, notes, *a* b 115, b 116 note, a b 123; (Parish), XVIII, b 301; (Peerage), a b 473, a b 474, a b 475; (Slavery), XXII, b 145, b 153
Stub iron barrels (Gunmaking), XI, b 247
Stucco (Building), IV, a 452, a b 453-4; (Mural Decoration), XVII, b 42–3, b 47; (Rome), XX, *b* 825, a 826, b 828, note; (Wood-Carving), XXIV, b 680, a 681, a b 683
Stückofen, furnace (Iron), XIII, a 304
Stud-Book (Horse), XII, *a b* 186, *a* b 187, a *b* 188, a b 189
Studding-sail-halyard bend, knot (Seamanship), XXI, *b* 618
Studding sails (Seamanship), XXI, a 630
Student Lamp (Ill.), XIV, b 246
Student Life of Germany (Howitt), XII, b 338
Students, American (Universities), XXIII, a b 959, a 960, a b 962; European, discipline of (Universities), b 903–4; statistics, b 904–5; mediæval, *a* 889
Studerite (Mineralogy), XVI, b 411
Studites (Acœmetæ), I, b 92
Studium, monastery (Monachism), XVI, b 726–7, note
—— generale (Universities), XXIII, *a* 887, b 889, b 890, note
Studj gallery, Naples (Solario), XXII, b 262
Studs, rifle (Gunmaking), XI, b 262–3
Stuffing-box, cylinder (Steam-Engine), XXII, a 538
STUHLWEISSENBURG, town, XXII, b 643
Stülinger of Ratisbon, hero (Winkelried), XXIV, b 645
Stull, platform (Mining), XVI, b 472
Stumbelen, Christina, nun (Stigmatization), XXII, b 577
Stunda, sect (Russia), XXI, a b 90
Stupor (Typhus Fever), XXIII, b 719, a 720
Stura, river (Italy), XIII, a 445
Sture, Sten, regent (Sweden), XXII, b 785
——, Sten, the Younger, regent (Sweden), XXII, b 785
——, Svante Nilsson, regent (Sweden), XXII, b 785
STURGEON, fish (Ill.), XXII, b 643–5; (Egg), VII, b 604; (Fisheries), IX, b 234; (Foldvar), a 311; (Ichthyology), XII, a b 670, b 684–5, a 688, a 692, b 694, a b 699, a 704, a 706, b 707, b 713–4

Sturionidæ, fish (Caspian Sea), V, b 156
Sturla Thordsson, poet (Iceland), XII, *a* b 658, a b 661-2
Stürler, Moritz von, historian (Winkelried), XXIV, b 645-6
Sturlunga, biographies (Iceland), XII, b 661, a b 664
Sturlung estates (Iceland), XII, a 656
Sturluson, Snorro, historian. See SNORRO
STURM, Jacques Charles François, algebraist, XXII, a 645; his theorem (Algebra), I, b 455; (Equation), VIII, b 443, b 445-6
——, James, deputy (Luther), XV, b 81
——, Johann Christoph, teacher (Academy), I, *b* 69; (Education), VII, a 584; (Universities), XXIII, *b* 901
Sturmhaube, peaks (Riesengebirge), XX, b 566
Sturmius, abbot (Fulda), IX, *b* 713
Sturm und Drang, movement (Germany), X, a 480, a 481, a 483, b 487; (Goethe), b 645; (Herder), XI, b 650; (Drama), VII, a b 382
Sturnella, bird (Icterus), XII, a 736
Sturnidæ, family (Grackle), XI, b 24
Sturnira, genus (Mammalia), XV, b 419, a 420
Sturnus, genus (Starling), XXII, b 474, *a* 475
STURT, Charles, explorer, XXII, a 645; (Australia), III, *b* 91; (South Australia), XXII, a b 300
Sturtevant, Simon, inventor (Iron), XIII, a 297
Sturzen-Becker, Oskar Patrick, novelist (Sweden), XXII; b 796
Stutt, Walter, gentleman (Tracy), XXIII, b 528
Stuttering. See STAMMERING
Stutter's gauge (Raingauge), XX, a 269
STUTTGART, city (Plans), XXII, a 645-6; (Libraries), XIV, a b 526, a 549; (Würtemberg), XXIV, *b* 736, *a* 737
Stutz-lamella (Hydrozoa), XII, b 583
STUYVESANT, Petrus, governor, XXII, a b 932; (Delaware), VII, *a* b 40; (New York), XVII, b 466, a 467, a 468, a b 893, a 894
Styeas, coin (Numismatics), XVII, a 674
Stye, abscess (Ophthalmology), XVII, a 808
Styelinæ, group of Tunicata, XXIII, b 656
Stylaria (Worm), XXIV, *b* 716, *a* 718
Stylasteridæ, family (Hydrozoa) (Ill.), XII, *a* b 598
Style of flower (Botany) (Ill.), IV, b 114, b 127, b 130-1
——, rhetorical (Herodotus), XI, b 678; (Lyly), XV, b 105; (Lysias), b 119-22; (Rhetoric), XX, b 527-8; (Thucydides), XXIII, b 344; culture of (Sophists), XXII, a 281; French (Balzac), III, b 263; (Mérimée), XVI, b 41, a 43; (Michelet), a b 245; in Greek poetry (Pindar), XIX, b 108-9
Styles, joiner's (Building), IV, b 438, b 442
Stylideæ, order of plants (New South Wales), XVII, b 420
Styliola, genus (Mollusca) (Ill.), XVI, a 690
Stylites or pillar-hermit (Monachism), XVI, b 727
Stylobate (Architecture), II, b 353, a b 355, a 357, a 359, b 364, b 417
Stylocellus (Arachnida), II, b 244 note
Stylodontidæ, family (Ichthyology), XII, a 726
Stylodrilus, genus (Worm), XXIV, b 716
Stylograph, implement (Pen), XVIII, b 494
Styloid process, temporal (Anatomy), I, a 723, a 729
Stylommatophora, sub-order (Mollusca) (Ill.), XVI, b 684, a 685
Stylonichia (Protozoa) (Ill.), XIX, b 887, a 888
Stylospores (Botany) (Ill.), IV, b 144; (Lichens) (Ill.), XIV, a 559; (Reproduction), XX, a 437
Stylotype, mineral (Mineralogy), XVI, b 411
Stylus, implement (Pen), XVIII, a 494
——, type of spicule (Sponges) (Ill.), XXII, a b 432
Stymphalus, city (Numismatics), XVII, a 660
——, lake (Greece), XI, a 74
Styptic remedies (Iron, Therapeutics of), XIII, a 370
Styra, tablets of (Greece), XI, a 120, note
Styrax, plant (Storax), XXII, b 605; (Liquidambar), XIV, b 693
STYRIA, duchy and crownland, XXII, a 646-7; (Coal), VI, b 54, a 55, a 62; (Germany), X, a 440, b 442, *b* 448; language of (Slavs), XXII, b 159
Styrian Alps, I, a 554
Styroline (Tar), XXIII, *b* 63
Styrol oil (Benzoin), III, b 501
STYX, river, XXII, a 647; (Arcadia), II, b 285; (Cave), V, b 231; (Greece), XI, a 74; (Pausanias), XVIII, a 449
Suabia. See Swabia
Suádi, town (Chutiá Nágpur), V, a 672
SUAKIN or Swakim, town, XXII, a b 647; (Red Sea), XX, a 329; district (Soudan), XXII, a 293
Suanetia, district (Caucasus), V, b 220, a 223
Suanians, people (Caucasus), V, a 224
Suard, Jean Baptiste Antoine, critic (Gibbon), X, b 518, a 520
SUARDI, Bartolommeo or Bramantino, painter, XXII, b 647-8
SUAREZ, Francisco, theologian, XXII, a b 648; (Scholasticism), XXI, b 448
Suatopluk of Moravia, duke (Germany), X, b 431, b 432; (Moravia), XVI, b 837
Subaqueous Tunnelling, XXIII, b 663-4
Subargum, mountain (Dárjíling), VI, b 727
Subarnareká river (Balasor), III, b 235; (Singbhúm), XXII, b 101
Subarta, province (Ispahán), XIII, b 405
Subclavian aneurism (Surgery), XXII, b 718; artery (Anatomy), I, b 793-4; vein, *b* 795, b 796
Subconsciousness (Psychology), XX, a 52-4, b 66, b 75 note
Subcontrary section (Conic Sections), VI, *a* 252
Suben, goddess (Egypt), VII, a 623
Suberin (Physiology), XIX, b 50
Suberitidæ (Sponges), XXII, b 439
Subhadra, philosopher (Buddhism), IV, b 386-7
SUBIACO, town, XXII, b 648-9; (Libraries), XIV, a 529, a 551; early printing at (Typography), XXIII, a b 729, a 734; monastery (Benedict, St.), III, *a* 481; (Monachism), XVI, b 729, a 730
Subject or Ego (Psychology), XX, a 44-5, b 46, b 47; synthetical construction of (Psychology), b 49, a b 89
—— and object (Hamilton, Sir W.), XI, b 372, b 373, a 374
Subjective defined (Psychology), XX, a 43, *b* 46, a b 49
—— philosophy (Berkeley), III, b 510
—— selection (Psychology), XX, b 47, a b 48, b 51, b 56-7, b 71, *a* b 78
Sublapsarianism, doctrine (Predestination), XIX, b 690
Sublation, doctrine of (Vedanta), XXIV, a 131
SUBLEYRAS, Pierre, painter, XXII, a 649
Sublician bridge (Bridges) (Ill.), IV, b 295-6; (Rome), XX, b 852
Sublimate of Mercury, XVI, a b 38
Sublimation (Distillation), VII, b 226-7; (Nitrogen), XVII, b 530; crystals (Geology), X, a 232
Sublime (Æsthetics), I, b 191, a b 192, b 195, a *b* 196, a 197, a 198, b 199, b 200, *a* 201
Sublime, Treatise on the (Longinus), XIV, b 875
—— *and Beautiful, Inquiry into the* (Burke), IV, b 482
Sublime Porte (Divan), VII, b 253-4; (Egypt), b 658-60, a 680; (Greece), XI, b 109-10. See TURKEY
Sublingual glands (Digestive Organs), VII, a b 193; (Nutrition), XVII, b 688-9, *a* b 691
Submarine cables (Telegraph) (Ill.), XXIII, b 121-3, *b* 123, b 131, a 133; testing, b 125-6, b 126-7; working of (Ill.), a 134-5
—— mines (Torpedo), XXIII, b 477-9
—— ridges (Norwegian Sea), XVII, a 608; volcanoes (Geology), X, b 224-5
Submaxillary ganglion (Anatomy), I, a 775; glands (Digestive Organs), VII, a 193; (Horse), XII, b 183; (Nutrition), XVII, b 688, *a b* 691, a 692
Submerged orifice, velocity of jet (Hydromechanics), XII, a 492, b 495-6; works, material for (Hydromechanics), a 532
Submergence, land Geology), X, b 326-7
Submission in Scotch Law (Arbitration), II, b 273-4
"——, signs of" (Mohammedanism), XVI, b 583
Submucosa, membrane (Nutrition), XVII, a 688
Subneural gland (Tunicata), XXIII, b 647-8, a b 650, b 654
Subornation of Perjury, XVIII, a 560
Suboxides (Chemistry), V, a 413
Subplantigrade Mammalia, XV, b 362
Subpœna defined (Summons), XXII, b 676; (Witness), XXIV, *b* 658; (Writ), *a* 732
Subsidence, coast (Greenland), XI, a 150
Subsidies, government aid (Finance), IX, a 155; (Pacific Railroads), XIX, *b* 914, a b 915, 916, b 917, b 918, a 919, b 921
Subsoil (Geology), X, b 211; (Horticulture), XII, a 222; and drainage (Agriculture), I, b 293, a b 296
—— ploughs (Agriculture), I, b 277, b 299
Substance in philosophy (Cousin), VI, b 466, a 468; (Hamilton, Sir W.), XI, a 374; (Herbart), b 642; (Leibnitz), XIV, a 421-2; (Locke), a *b* 766; infinite (Cartesianism), V, b 131-2; universal (Lotze), XV, b 16
—— and attributes, Spinoza on (Cartesianism), V, a 137-8; Gilbert de la Porée on (Scholasticism), XXI, b 441
Substantia gelatinosa (Anatomy), I, a 761
Substantiality, category (Psychology), XX, b 61-2; Spinoza's doctrine of (Cartesianism), V, b 135-6, a 137
Substantive law (Wager), XXIV, a b 326
Substitution in Belgian Army, II, b 537
—— in Sacrifice, XXI, b 144-5
——, sign of (Variations), XXIV, a b 93
Substitutions, successive (Algebra), I, b 487-8
Substructure (Bridges) (Ill), IV, b 291-5
Subtenancy (Landlord and Tenant), XIV, b 274, a 276, a 278
Subtense transit theodolite (Surveying), XXII, b 756

Subterranean action of water (Geology), X, b 231, a 233–4; fishes (Ichthyology), XII, b 712, b 714; forces, action of (Geology), X, b 214-34; rivers (Florida), IX, b 296; waters (Geology), X, a 239 41; (Mammoth Cave), XV, a 457; (Sahara), XXI, b 158–9
Subtiaba, town (Leon, Nic.), XIV, b 455
Sub-totems (Totemism), XXIII, a 505
Subtraction (Algebra), I, a 459, a 463; compound (Arithmetic), II, b 468; of fractions (Algebra), I, a 469-70; (Arithmetic), II, b 465, a b 466; of surds (Algebra), I, b 471–2
Sub-treasury law (United States), XXIII, *a* 815, a 817
Sub-tropical plants (Horticulture), XII, a 270
Subuktigin, sultan (Mahmúd), XV, *b* 288, b 289
Subungulata, order (Mammalia), XV, b 427-33
Subur river (Mauretania), XV, b 643
Sucan, porridge (Oat), XVII, a 716
Succat, name (Patrick, St.), XVIII, b 421, b 422
Succession, ideas of (Locke), XIV, a 766; (Psychology), XX, a b 69
——, barbarian law of (Women), XXIV, b 672–3; through sisters (Family), IX, a b 18, a b 19
——, English law of (Primogeniture), XIX, b 752–3; (Peerage), XVIII, a b 474; (Remainder), XX, a 384–5; (Will), XXIV, a 602–3; female (Peerage), XVIII, a 478
——, imperial Byzantine (Greece), XI, a 104; (China), V, a 567; (Germany), X, a 437, a b 443, a 444
——, Mahometan (Haroun al Raschid), XI, a b 436, note
——, Roman, in jus civile (Roman Law), XX, b 708–10; in jus naturale, b 725–6; Justinian code, b 732, a 733-4; prætorian law of, a 720–1; Quiritian, b 690–2; (Women), XXIV, b 671, *a* 672
——, royal, Aragon (Spain), XXII, b 337, a b 338; Castile (Spain), b 333; English (Settlement, Act of), XXI, b 729-30; Scotland, a 541
——, Spanish, question of (England), VIII, a 316; (France), IX, a b 507; (Spain), XXII, b 348-9; war of (Austria), III, a b 110; (France), IX, a 512–4; (Germany), X, b 450; (Leopold I.), XIV, a 467; (Spain), XXII, a b 350
Succession Duty, tax, XXII, a b 649, note; (Finance), IX, a 163; (Roman Law), XX, b 722
Succinamides (Nitrogen), XVII, b 532
Succinea, parasite (Trematoda), XXIII, a b 574
Succinic acid (Fermentation), IX, a 82; (Chemistry), V, a b 495
Succinite, mineral (Amber), I, a 580; (Mineralogy), XVI, a 447
Succism, phonetic change (Scandinavian Languages), XXI, b 385, a 386
Succory, plant. See Chicory
Succubus, myth (Demonology), VII, b 55
Succursales (Banking), III, b 291
Succus entericus (Nutrition), XVII, a 694, b 695
Suchet, Louis Gabriel, duc d'Albufera, general, XXII, b 649–50; (Albufera de Valencia), I, b 403
Su-Chow, in Kan-suh, city, XXII, a 650; (China), V, *a* b 554
Su-Chow or Soo-Chow-Foo, in Kiang-su, city, XXII, a 650; (China), V, b 548, a 550
——, in Sze-chuen, city, XXII, a 650
Suck, river (Galway), X, a 51; (Roscommon), XX, *b* 872
Suckering iron (Horticulture) (Ill.), XII, a 241
Suckers (Cuttle-Fish), VI, b 649; (Mollusca), XVI, a 699-700; (Tape-Worms), XXIII, a 55, b 57, b 59; (Trematoda), XXIII, *a* 570
—— of plants (Botany), IV, a 86; propagation by (Horticulture), XII, b 240–1
Sucking-fish (Ichthyology), XII, b 720, b 728
Suckling, Sir John, poet, XXII, a b 650; (London), XIV, a 859
Sucre, town, XXII, a 651
——, Antonio José de, general (Bolivar), IV, b 9; (Bolivia), b 15, *a* 17; (Ecuador), VII, a 563
Suctoria, order (Protozoa), XIX, b 890
Suctorial apparatus (Leech), XIV, a b 401; (Mammalia) (Ill.), XV, a 416
Suczawa, town (Bukowina), IV, a 461
Sudan, region. See Soudan
Sudatorium (Baths), III, b 375, *a* b 376
Sudbury, town, XXII, a 651
——, Simon, archbishop (Canterbury), V, b 27, a b 28; (Wycliffe), XXIV, *b* 745, b 746, note
Suddhodana, rajah (Buddhism), IV, a 382, a *b* 385
Sudebnik, laws (Russia), XXI, a b 100, b 112
Sudeley castle (Gloucester), X, *b* 615
Süderö, island (Faroe Islands), IX, *a* 36
Sudetes or Sudetic mountains (Austria), III, a 101; (Moravia), XVI, a b 836; (Prussia), XX, b 17; (Riesengebirge), b 566; (Saxony), XXI, b 372
Sudha, bay (Crete), VI, a 504
Sudharam, town (Noákhálí), XVII, b 537
Sudi, cloth (Sind), XXII, a 98
Sûdraka, king (Sanskrit), XXI, a 299
Sudras, caste (Brahmanism), IV, b 183, a b 184; (Caste), V, a *b* 164, *a* b 165, *a b* 166, *a* 167; (India), XII, a b 821
Sue, Joseph Marie or Eugène, novelist, XXII, a b 651; (Newspapers), XVII, a 437
Sueños, Dreams (Quevedo Villegas), XX, a 185
Suerah, town (Mogador), XVI, b 566
Suermondt gallery (Berlin), III, b 515
Suessiones, tribes (Soissons), XXII, a 260
Suet, fat (Tallow), XXIII, b 39
Suetonius, Caius Paulinus, prefect (Britannia), IV, b 318
Suetonius Tranquillus, Caius, historian, XXII, b 651–2; (Claudius Germanicus), V, *a* 714; (Germanicus), X, *b* 400, a 401; (Jesus Christ), XIII, b 668; (Latin Language), XIV, a 337, a b 338; (Popedom), XIX, b 502-3; (Roman Literature), XX, a 746; (Rome), a 782 note, a 786 note, b 788; (Terence), XXIII, b 203, a 204; (Tiberius), a 357, *b* 358; (Tibullus), b 371; (Vespasian), XXIV, b 207, a 208
Sueur, Eustache Le, painter, XXII, a b 652
Suevi, tribes (Galicia), X, b 25; (Germany), a 425, b 426, *b* 427; (Rome), XX, *b* 798; (Spain), XXII, b 322, *a* 323, b 326; (Würtemberg), XXIV, b 737
Suez, port, XXII, b 652–3; (Egypt), VII, a 680; (Quarantine), XX, *a* 162; (Red Sea), *a* 329; Gulf of (Red Sea), a *b* 329; isthmus of (Egypt), VII, a 611; sea levels (Surveying), XXII, b 744
—— canal, XXII, *a* b 653; (Africa), I, b 238–9; (Canal) (Plate XXXVI), IV, a b 695, a 697–9; (Dredging), VII, a 403; (Palmerston), XVIII, a b 201; (Port Said), XIX, b 548; (Tonnage), XXIII, a 471; trade (India), XII, a b 798
Sufed Koh, mountains (India), XII, a 770
Suffetes, officers (Carthage), V, *a* 142
Suffibulum, hood (Rome), XX, a 839 note; (Vesta), XXIV, b 210, note
Suffixes, Aryan (Grammar), XI, a 36, a 38; (Ural-Altaic), XXIV, b 5, a b 6, a 7
Suffocation (Medical Jurisprudence), XV, b 791
Suffolk, county (Plate VIII), XXII, b 653–5; (Coprolites), VI, *b* 313
——, house of (England), VIII, b 306; (Hull), XII, a 356
——, Edmund de la Pole, earl of (York), XXIV, a *b* 791
——, Henrietta Howard, countess of (Gay), X, *a* 108
——, Henry Grey, duke of (Grey, Lady J.), XI, a b 172; (London), XIV, a 848
——, Michael de la Pole, earl of (England), VIII, a 287
——, William de la Pole, duke of (Margaret of Anjou), XV, a b 543; (Henry VI, England), XI, *a* 590
—— drill (Agriculture), I, b 285; dun cattle (Agriculture), a 345; Punch, horse (Agriculture), b 341; (Horse), XII, a 196
Suffragans (Bishop), III, a 685; (Greek Church), XI, *a* b 138
Suffrage (Ireland), XIII, a b 226; (Italy), a 474; (Rhode Island), XX, b 539 note; (Saxony), XXI, b 374; (Women), XXIV, a 674, a b 676, b 911, a b 913; municipal (Spain), XXII, a 333, b 334, a 336, a 337; popular (Spain), b 318; universal, France (Ledru-Rollin), XIV, b 398, a 399
Sufi or mashru, fabric (India), XII, a 801
—— dynasty (Caliph), IV, a 626; (Persia), XVIII, a 645–52
Súfic literature (Persia), XVIII, a b 671; (Rúmí), XXI, a b 65; (Sana'i), b 266–7
Sufi Mirza, prince (Persia), XVIII, b 649
—— Sam Mirza, shah (Persia), XVIII, a 650
Sufis, sect (Al-Gazali), I, a b 450; (Babi), III, b 156; (Dervish), VII, b 98, a 99; (Ferid-Eddin-Athar), IX, *b* 78; (Hafiz), XI, *b* 328, *a* 329; (Mohammedanism), XVI, a b 616; (Mysticism), XVII, a b 137; (Persia), XVIII, b 645, a b 671; (Sunnites), XXII, a 697; (Theism), XXIII, b 261
Sufsafeh, mount (Sinai), XXII, b 96
Sugar, XXII, a 655–61
  artificial production of, a 656
  commerce, b 661
  development of knowledge, a b 655
  fermenting, a 656
  glucoses, a 656–7
  history, b 657-8
  Manufacture, b 658–61
    beet sugar, a 659-60
    boiling down, a 659
    cane-crushing, b 658–9
    crystallization of beet-sugar, b 660
    diffusion process with beet-juice, b 659–67
    extraction of beet-juice, b 659
    purification of beet-juice, a 660
    purification of cane-juice, a 659
  maple sugar, a 661
  palm sugar, a 661
  quantitative determination, b 655–6
  refining processes, b 660–1
  saccharoses, a 657-8
  sorghum, a 661
  starch sugar, a b 661

Sugar (Adulteration), I, a 156; (Chemistry), V, a *b* 489-90; (Fermentation), IX, b 80, a *b* 81, a 82, a b 84, a b 85; (Glycerin), X, a 622; in human system (Diabetes), VII, b 127; (Nutrition), XVII, b 699-700; (Pathology), XVIII, a b 394-5; in plants (Botany), IV, a 78; (Durra), VII, b 487; (Gourd), XI, b 5; (Histology), XII, a 15; (Physiology), XIX, a 15; production of (Brazil), IV, *a* 204, b 205; (China), V, a 553, a 556; (Cuba), VI, a 602; (Guiana), XI, b 221, a 222, a 224; (Havana), b 468-9; (Hawaiian Islands), a 473; (India), XII, b 786, a 789, *a* 796; (Italy), XIII, a 464; (Jamaica), b 559, b 560, b 561; (Java), a 611, b 614; (Madeira), XV, a b 179; (Malaga), b 318; (Mauritius), a *b* 647; (Mexico), XVI, *b* 226; (Peru), XVIII, a 688; (Philippines), a 765; (Réunion), XX, a 507; (St. Croix), XXI, a 169; (Spain), XXII, b 314; (Swatow), b 771; (United States), XXIII, a b 878; use of (Alcohol), I, a 416; (Brewing), IV, b 238, b 248; (Dynamite), VII, a 505; (Silk), XXII, b 70
——, beet (Achard), I, a 89; (Austria), III, b 105; (France), IX, a 460; (Germany), X, b 405; (Hanover), XI, a 399; (Kieff), XIV, a 71; (Moravia), XVI, b 836; (Prussia), XX, a 18, b 19; (Russia), XXI, a 93; (Saxony), b 375; (Somme), XXII, b 274, a 275
——, grape (Wine), XXIV, a 635
——, maple (Canada), IV, b 683; (Maple), XV, b 531
——, Russian (Agriculture), I, a 340
——, urine (Nutrition), XVII, b 700-1, a 704
—— Ant, II, b 84, a 86; beet (Agriculture), I, a 339-40; berry (Hackberry), XI, a 322
SUGAR BIRD, XXII, a 662
—— candy (Confectionery), VI, b 228
—— district (Queensland), XX, a 180
Sugar-Loaf, hill (St. Helena), XXI, b 179
——, mountain (Brecon), IV, a 218
——, mountain (Cape Verd Islands), V, a 47
——, mountain (Sierra Leone), XXII, *b* 49
Sugar of Lead, XIV, b 378
—— Pine, XIX, b 114; forests (United States), XXIII, b 861
——, polarimeters (Wave Theory), XXIV, a b 477
Sugden, Edward B., chancellor. See St. Leonards
Suger, Abbé (France), IX, b 476; (Louis VII.), XV, b 19
Sugg's burners (Gas and Gas-Lighting) (Ill.), X, b 88, a *b* 89, b 90; governor (Ill.), a 88
Sugut river (Sabah), XXI, a 132
SUHL, town, XXII, a 662
Suh-tsung, emperor (China), V, a 561
SUICIDE, mode of extinction, XXII, b 662-5
  age, a b 664
  difficulties of statistician, a 663-4
  importance of the study, b 662
  modes of, a 665
  occupation, b 664-5
  season, a 665
  sex, a 664
  sources of information, a 665
  tables, b 662-3
—— (Ahithophel), I, a 375; (Almoner), a 524; (Burial), IV, b 480; (Charondas), V, a 573; (Crime), VI, b 516, a 517; (Drowning), VII, b 409-10; (Felo de Se), IX, a 60; (Insanity), XIII, b 111, b 112; (Insurance), a b 186; (Leipsic), XIV, a 431; (Prussia), XX, a 21; (Saxony), XXI, a 374
——, national (Cape Colony), V, b 41
Suidæ, family of mammals (Smell), XXII, a 177; (Swine) (Ill.), a 811-3
SUIDAS, lexicographer, XXII, a b 665; (Sophocles), a 285; (Chemistry), V, a 398; (Dictionary), VII, b 158; (Greece), XI, b 130; (Hospital), XII, b 314; (Pappus), XVIII, b 233-4; (Phalaris), b 743, a 744; (Theodosius), XXIII, a b 279; (Tribonian), b 590
Súide (Ireland), XIII, b 248-9, b 256, a 264
Suifun river (Maritime Province), XV, b 555
Suilven, mountain (Sutherland), XXII, a 764
Suir, river (Ireland), XIII, b 222, b 224; (Kilkenny), XIV, *a b* 76; (Tipperary), XXIII, b 432; (Waterford), XXIV, *b* 422, a b 423
Suisse Forezienne, valley (Loire), XIV, b 816
Suisun bay (California), IV, *b* 617; (San Francisco), XXI, b 274
Sujātā, legend of (Buddhism), IV, a 383, b 386
Sujá-ud-Daulah, nawáb. See Suraj-ud-Dowlah
Sukhona, river (Dwina), VII, a 491; (Russia), XXI, b 80, b 81; (Vologda), XXIV, *b* 303
Sukkertoppen, district (Greenland), XI, b 152
Sukumkaleh (Abkhasia), I, a 52
Suku-Vakange, god (Demonology), VII, b 56
Sula, genus (Birds), III, *a* 618, a 629, a *b* 633; (Gannet), X, a 64, a 65
——, river (Russia), XXI, a 81
Suláimán, mountains. See Sulimani
——, See Solaiman, Soleiman, Soliman
——, merchant (Geography), X, a 159
——, sháh (Persia), XVIII, a b 650
——, sultan. See SOLIMAN
——, sultan (Seljuks), XXI, a 668
—— Rokh ed-din, sultan (Seljuks), XXI, *b* 668
Sulak, river (Caucasus), V, a 222
Sulci (Mammalia), XV, b 369
Suleiman or Suleyman, sultan. See SOLIMAN
——, Kiráni, sháh (Gaur), X, b 101-2
Sulimani mountains (Afghânistân), I, a 208, *b* 210, a 211, a b 214; (India), XII, a 770; (Punjab), XX, b 113
Sulina, channel (Danube), VI, *b* 721-2; piers (River Engineering) (Ill.), XX, b 595-6
Suliotes (Ali Pasha), I, b 505; (Bozzaris), IV, b 168-9; (Greece), XI, b 111
Sulitelma mountains (Sweden), XXII, a 774
Sulky, vehicle (Horse), XII, b 208
SULLA, Lucius Cornelius, dictator, XXII, b 665-6; (Athens), III, a 9; (Cæsar), IV, *a* b 563, a 564; (Catacombs), V, a 186 note; (Hortensius), XII, b 214; (Jugurtha), XIII, *a* 777; (Metellus), XVI, b 111; (Pompey), XIX, *b* 465; (Rome), XX, *b* 778, *a b* 779-81, b 785; (Samnites), XXI, a b 261; (Sumptuary Laws), XXII, a 678; (Verres), XXIV, *a* b 189
Sullivan, Sir Arthur (Music), XVII, a 105, b 106, a 107
——, George, jurist, XXII, b 932
——, James, governor, XXII, b 932-3
SULLIVAN, John, general, XXII, b 932
——, John Langdon, engineer, XXII, a 933
——, John T. S., lawyer, XXII, a 933
——, Thomas Russell, educator, XXII, a 933
——, William, jurist, XXII, a 933
——, William K., philologist (Celtic Literature), V, a b 283. See List of Contributors
Sullivan's island (Charleston), V, a 371
SULLIVANT, William Starling, botanist, XXII, a 933; (Surveys), a 936
Sully, Alfred, general, XXII, b 933
——, Eudes de, bishop (Chess), V, a 521
——, Henry, watchmaker (Berthoud), III, b 526; (Navigation), XVII, a 263
——, James, metaphysician (Psychology), XX, a 90; (Weber's Law), XXIV, b 497. See List of Contributors
——, Maurice de, bishop (France), IX, a 571; (Paris), XVIII, a 294
SULLY, Maximilian de Béthune, duc de, statesman, XXII, b 666-7; (Artillery), II, a 574; (France), IX, b 497, b 498, *b* 499; (Political Economy), XIX, b 368
SULLY, Thomas, painter, XXII, a b 933
Sulmo, town (Ovid), XVIII, a 82
SULMONA or Solmona, city, XXII, b 667
——, pass (Apennines), II, b 149
Sulphate of ammonia (Nitrogen), XVII, a *b* 530, a 531
—— of Copper, VI, a 312; (Adulteration), I, *b* 155
—— of glucinum (Chemistry), V, a 456
—— of indigo (Dyeing), VII, a 494, a 499
—— of Iron, XIII, *a b* 370
—— of Lead, XIV, a 379
—— of lime (Mineralogy), XVI, b 390
—— of Manganese, XV, b 487-8
—— of Mercury, XVI, a 38
—— of Potassium, XIX, a 609
—— of Silver, XXII, b 78-9; (Chemistry), V, b 458, *a* 459
—— of soda (Mineral Waters), XVI, a 455; (Sodium), XXII, a b 253, a b 254, b 255
—— of Thallium, XXIII, a 238; (Chemistry), V, b 460
—— of Zinc, XXIV, b 825
Sulphates (Chemistry), V, b 437-8; alkaline metal, a b 455; alkaloid (Quinine), XX, *a b* 191-2; anhydrous (Mineralogy), XVI, b 416-7; hydrous, b 417-9
—— in mine-water (Irrigation), XIII, b 373-4; magnesium (Chemistry), V, b 456, b 457; metallic (Sulphur), XXII, b 667, b 670-1
Sulphide Cadmium, IV, a b 558, a 559; carbon (Chemistry), V, b 451; Copper, VI, *a* 310; glucinum (Chemistry), V, b 456; mercuric, a 457; silicon, *a* 454; stannous (Tin), XXIII, a 429; of Zinc, XXIV, b 823, a 824, a 826
Sulphides (Chemistry), V, a 414, b 433-4; (Geology), X, b 203; (Iron), XIII, b 286, a 287, b 291; (Mercury), XVI, b 38; (Metallurgy), XVI, a 66; (Methyl), b 205; metallic (Sulphur), XXII, b 667, a 669; phosphorus (Chemistry), V, b 449
Sulphindigotic acid (Indigo), XII, a 885
Sulphites (Chemistry), V, *b* 435
Sulphocyanates (Prussic Acid), XX, *a* b 30
Sulphocyanide (Nutrition), XVII, a 694
Sulpho-haloid compounds of phosphorus (Chemistry), V, b 449-50
Sulphones (Chemistry), V, a b 438, b 439
Sulphonic acids (Chemistry), V, a 487, a 489
Sulphophœnicic acid (Indigo), XII, a 885
SULPHUR, element, XXII, b 667-71
  acids, *b* 669-70
  analysis, a 671
  chlorides, a b 669

- SULPHUR, *continued*
  - elementary form, b 667-8
  - extraction from ores, a 668-9
  - milk of sulphur, b 668
  - retorts for acids, b 670
  - sulphates, b 670-1
  - sulphuretted hydrogen, a 669
  - thiosulphates, b 669
  - varieties of, b 667
- —— (Afghânistân), I, a 208; (Brazil), IV, b 201; (Brewing), b 243; (Chemistry), V, *b* 408, b 431-41; (China), a b 553; (Coal), VI, b 45, b 74-5; (Coke), b 108; (Fuel), IX, a 709, b 710; (Geology), X, b 203; (Gunpowder), XI, *b* 284, a 285, a 286, b 289; (Hellin), b 568; (Ireland), XIII, a b 224; (Iron), a b 289, a b 295, a 296; (Marseilles), XV, a 580; (Matches), a 631, b 632; (Metals), XVI, b 76; (Mexico), a 908, b 909; (Mineralogy) (Ill.), a 366, b 373, b 383, a 387, b 394-5, b 406, a b 407, b 408-9, b 410-2; (Mining), a 462, b 490, b 492; (Mite), a 553; (Philippines), XVIII, b 765; (Poland), XIX, *b* 319; (Popocatepetl), a 527; (Schizomycetes), XXI, a b 424; (Sicily), XXII, a 36
- ——, acids of, table (Chemistry), V, b 438; Croatian beds of (Geology), X, a 323; in cementation (Iron), XIII, a b 350; plant absorption of (Physiology), XIX, b 55; quantitative analysis (Chemistry), V, a 474; relation to chromium (Chemistry), *b* 463; spectrum of (Spectroscopy) XXII, b 389, a b 392
- —— alcohols and ethers (Chemistry), V, b 491-2, b 479. compounds, constitution of (Chemistry), b 440-1; elimination by silicon (Iron), XIII, b 361
- Sulphurators (Horticulture) (Ill.), XII, b 239
- Sulphur island (Lew Chew); XIV, b 489
- Sulphuretted hydrogen (Chemistry), V, a b 433; (Geology), X, b 215; (Lead), XIV, a 379; (Mining), XVI, a 481; (Poisons), XIX, b 291; (Sulphur), XXII, a 669
- Sulphuric acid (Alcohol), I, *a* 416; (Bleaching), III, b 704; (Chemistry), V, b 435, b 436-8, a 440, *a* 441; (Guano), XI, a 208; (Manure), XV, a 513, b 515, *a* b 516, *a* b 517; (Metals), XVI, b 75; (Methyl), a 204; (Mineralogy), b 386, b 406, b 416, a b 417, a b 418-9; (Mining), b 490; (Smoke Abatement), XXII, b 190; (Sulphur), b 669-70; (Gold), X, b 666-7; refining (Oils), XVII, a 764; tests (Oils), a 766. See Oil of Vitriol
- Sulphuric anhydride (Chemistry), V, a 435; ether (Chemistry), b 491; ether thermometers (Heat), XI, *b* 501, *a* 502, note
- Sulphuring wool (Bleaching), III, a 714
- Sulphurous acid (Chemistry), V, *a b* 435, a 436, a 437, a 440, *a* 441; (Ice), XII, b 648, a 649; (Lead), XIV, b 375; (Poisons), XIX, a 291; (Sulphur), XXII, b 669; thermometers (Heat) (Ill.), XI, a 503, b 507, a 508, note
- —— anhydride (Chemistry), V, *b* 434, a 435, a b 436-7; a 441; (Disinfectants), VII, *b* 224
- Sulphur recovery (Sodium), XXII, a 257
- —— springs (Bachian), III, b 170; (Harrowgate), XI, b 442-3; (Mineral Waters), XVI, b 451, a b 454, b 455, a 456; (Pyatigorsk), XX, b 126
- —— trioxide (Chemistry), V, a b 436
- Sulphydrates (Chemistry), V, b 433
- Sulpicia and Cerinthus, lovers (Tibullus), XXIII, b 371, a 373
- ——, Lemonia Rufus Servius, jurist (Roman Law), XX, b 697
- ——, Rufus Publius, tribune (Rome), XX, b 778, *a* 779, note; (Sulla), XXII, a 666
- "Sultan," ship (Navy), XVII, b 293, b 294, 296
- Sultan, title (Arabia), II, a b 217; (Mahmúd), XV, b 288; (Sámánid Dynasty), XXI, a 254; authority of (Sunnites), XXII, a b 696; (Turkey), XXIII, a 696; household of (Harem), XI, b 427, a 428. See Sultans
- Sultana, title (Harem), XI, b 427-8
- ——, bird (Moor-Hen), XVI, a 835
- —— Raisins, XX, b 270-1
- Sultan-dagh, range (Asia Minor), II, b 616-7; (Lycaonia), XV, b 93
- Sultan fowl (Poultry), XIX, a 666
- SULTÁNPUR or Sultanpoor, district and town, XXII, a b 671
- Sultans (Constantinople), VI, a 270, a 271; list of (Turkey), XXIII, b 693-4
- —— of Jahór (Bintang), III, b 587
- Sultan Sanjar, city and ruler (Merv), XVI, b 47
- Sultan's spring (Jericho), XIII, a 640
- Sultán Veled, poet (Turkey), XXIII, a 698
- Sulu archipelago (Indian Archipelago), XII, a 855 note, a b 857; (Pearl), XVIII, a 458; (Philippines), a 766; sea (Pacific Ocean), a 120, a 123, a 126
- Sulukere lake (Mysore), XVII, b 130
- *Sulva-sûtras* (Sanskrit). XXI, a 288
- Sulzbach, family of (Palatinate), XVIII, b 171
- Sulzbacher Alps, I, a 555
- Sulzer, Johann Georg, critic (Germany), X, b 478; (Switzerland), XXII, b 836
- —— Belchen, mountain (Germany), X, a 403
- Sumach, tree (Anacardiaceæ), I, a 691; (United States), XXIII, b 860; leaves (Leather), XIV, a 382, *b* 391
- Suma Paz, Cordillera de la (Colombia), VI, b 137
- Sumarokoff, Alexander, dramatist (Drama), VII, b 383-4; (Russia), XXI, a b 114
- SUMATRA, island (Plate IX), XXII, b 671-4
  - authorities, b 674
  - geology, a 672
  - history, a b 674
  - inhabitants, b 673-4
  - minerals, a b 672
  - natural history, a b 673
  - political divisions, b 672-3
  - surface, b 671-2
- —— (Achin), I, a 90, b 91; (Asia), II, b 600; (Gutta Percha), XI, b 301, note; (Indian Archipelago), XII, b 854, *a b* 855, note, *b* 856, a 857, a 858; (Malay Peninsula), XV, b 324, *b* 325, *a* 326; (Mining), XVI, b 491; (Pepper), XVIII, a b 527; avifauna of (Birds), III, a 662; Benzoin, *b* 501
- SUMBAL or Sumbul, drug, XXII, b 674
- SUMBAWA, island, XXII, b 674-5; (Indian Archipelago), XII, a b 855, note; (Lombok), XIV, b 825, a 826
- Sumbek tower (Kazan), XIV, b 22
- Sumbulpoor, district. See SAMBALPUR
- Sumelas monastery (Trebizond), XXIII, b 567
- Sumenep, state (Madura), XV, b 194, *a* 195
- Sumer, district (Mesopotamia), XVI, a 56
- Sumida, river (Tokio), XXIII, *a* 461
- Sumir, Sumer or Shinar, country (Babylonia), III, b 159, *a* b 160, a 166
- Sumirian language (Ural-Altaic), XXIV, *a* 7; Religions, XX, b 374
- Summam river (Algeria), I, b 496
- *Summa Perusina* (Roman Law), XX, a 735
- Summary courts (Prison Discipline), XIX, a 776
- SUMMARY JURISDICTION, XXII, a 675-6; (Warrant), XXIV, *a* 392, a 393
- *Summary of Englische Chronicles* (Stow), XXII, b 608
- *Summa Theologiæ*, XXIII, b 280; (Alexander Hales), I, b 429; (Aquinas), II, b 201, a *b* 202, *a* 203; (Eschatology), VIII, b 472-3
- Summation of series (Tables), XXIII, b 18; (Trigonometry), a 609; of tangent and secant (Trigonometry), b 608; tones (Acoustics), I, b 110
- Summer bedding plants (Horticulture), XII, b 269-70; diurnal temperature (Meteorology), XVI, a b 122; fallow (Agriculture), I, b 302-3; isothermals (United States), XXIII, b 855; lightning (Thunderstorm), a 351; pruning (Horticulture) (Ill.), XII, b 249, a 250
- *Summer reapers*, painting (Robert), XX, b 611
- SUMMERS, Thomas, Methodist, XXII, b 933
- ——, teacher (Porson), XIX, a b 537
- Summerside, town (Prince Edward Island), XIX, *a* 760
- Summer-snipe, bird (Sandpiper), XXI, b 272
- Summists, school (Scholasticism), XXI, a *b* 443, note
- SUMMONS, legal writ, XXII, a 676-7; (Pleading), XIX, a 230; (Process), a b 810; (Writ), XXIV, a 730, *a* b 732; magisterial (Police), XIX, b 347; will of a (Will), XXIV, b 605
- —— to Parliament (Peerage), XVIII, a b 470, b 472-3
- Summum bonum (Schleiermacher), XXI, b 430; Kant's (Metaphysic), XVI, b 90
- SUMNER, Charles, senator, XXII, a b 677, b 933-4; (United States), XXIII, b 818, b 829
- ——, Charles Pinckney, sheriff, XXII, b 933
- ——, Charles Richard, bishop (Milton), XVI, a 350
- SUMNER, Edwin Vose, general, XXII, b 934-5
- ——, George, scholar, XXII, b 934
- ——, William Graham, economist (Taney), XXIII, b 921. See List of Contributors
- Sumpitan, weapon (Borneo), IV, a 52
- Sumpter pliocene group (Geology), X, b 324
- SUMPTUARY LAWS. XXII, b 677-9; (Girdle), X, b 555; (Women), XXIV, b 672, b 673-4, a 676
- Sumpul river (San Salvador), XXI, a 281
- SUMTER, Thomas, general, XXIII, a 840; XXII, a b 935
- ——, Fort (Charleston), V, a b 371; (United States), XXIII, *b* 822; (Lincoln), XIV, a 666
- SUMY, town, XXII, a 679
- SUN, XXII, a 679-86
  - atmosphere, chemistry of, b 679-80
  - chromosphere, chemistry of, b 680-1
  - connection of phenomena, b 681-2, a 684
  - corona spectra, b 681
  - density, mean, b 679
  - down and up-rushes, a b 683-4
  - eclipse observations, b 684
  - envelopes of, a 679-80
  - evolution, stellar, b 685
  - maximum spot period, b 682-3
  - new and variable stars, b 685-6
  - period of quietude, a b 682
  - physics of sun spot cycle, a b 684
  - prominences, a 681

SUN, *continued*
  radiation spectra, a 685
  stellar place of, b 684–5
  sun spot spectra, a b 680
  theory of phenomena, a 683–4
—— (Alchemy), I, a 410, a 413; (Astronomy) (Plate XXVII)(Ill.),II, a 685-91; (Nebular Theory), XVII, a b 320; atmosphere of (Geology), X, a 192; Corona of, VI, a 380; declination of (Navigation), XVII, a 257; diameter of (Micrometer), XVI, a 251; disk of (Meteorology), b 188
——, distance of (Astronomy), II, a 696–7; (Light), XIV, a 589; eclipse of. See Eclipses, solar
——, heat of (Light), XIV, b 583-4; oblique (Climate), VI, b 34; origin of (Geology), X, b 202; (Meteor), XVI, b 118
——, influence of on diurnal pressure (Atmosphere), III, b 29; (Meteorology), XVI, a 129; on Tides, XXIII, a *b* 377, *a* b 388
——, light of (Photometry), XVIII, a b 856; relative (Astronomy), II, a 709
——, Magnetic influence of, XVI, b 171-92
——, Magnetism of surface of, XVI, a 182
——, mean (Astronomy) (Ill.), II, a 675
——, motion of, apparent (Astronomy), II, a 671–4; proper, a 686, b 717; (Ptolemy), XX, b 94–5
——, prominences of(Astronomy), II, b 689; rotation of, a 685
——, spectra of. See Solar Spectrum; variations (Meteorology), XVI, b 188–9. See Solar
—— in Heraldry, XI, a 627
Sun, New York Daily (Newspapers), XVII, b 445, b 446
Sunahsepa, legend of (Sanskrit), XXI, b 289
"Sun and planet" wheels (Steam-Engine), XXII, b 493; (Watt), XXIV, a 435
—— auto-pneumatic apparatus (Gas and Gas-Lighting), X, a b 92
Sun Baths, III, a 379; (Hygiene), XII, b 601
—— -bear (India), XII, *a* 780
SUN-BIRD, XXII, a b 686; (Humming-Bird), XII, a 373
SUN-BITTERN, bird (Ill.), XXII, b 686–7; (Heron), XI, a 681 note
—— -cracks on rocks (Geology), X, a 260
SUNDA ISLANDS and STRAIT, XXII, b 687; (Holland), XII, a 72; (Indian Archipelago), a 855, b 856; (Timor), XXIII, a b 424
Sundanese, people (Java), XIII, b 617, b 618; Dictionaries, VII, b 166; language (Indian Archipelago), XII, b 857
Sundarbans, district (Ganges), X, a 62
SUNDAY, festival, XXII, b 687–91
  commercial laws, b 690–1
SUNDAY, *continued*
  constitutional and judicial relations, of, b 689
  ecclesiastical regulations, a b 689
  Judaizing influence upon, b 688-9
  laws relating to, a 689-91
  primitive Christian observance, b 687–8
  Scotland, a 691
  social regulations, b 689-90
  United States, a b 691
—— (Constantine I.), VI, a 268; (Festivals), IX, b 101, *a b* 102, *a* 103; (Forfar), a 363; amusements (Sports), XXII, a 448; schools (Raikes), XX, a 229; American (Slater), XXII, b 906
Sunday Magazine (Guthrie), XI, a 301
SUNDERLAND, borough (Plan), XXII, b 691–2; (Durham), VII, *b* 483; docks(Harborsand Docks), XI, a b 417, b 418, b 421
SUNDERLAND, Charles Spencer, 3d earl of, XXII, b 692-3; (Townshend), XXIII, b 523, a 524
——, Henry Spencer, 1st earl of, XXII, a 692
SUNDERLAND, Robert Spencer, 2d earl of, XXII, a b 692
Sundevall, Karl Jakob, naturalist (Hornbill), XII, *b* 172, *a* 173; (Ornithology), XVIII, b 6 note, a 7, a 21, b 27, a 31, b 33, a 35, a 38, a 41-3, a 45; (Woodpecker), XXIV, a 687
Sundew, plant (Botany), IV, a 80, a 81; (Insectivorous Plants) (Ill.), XIII, b 140-2, a 147
Sun dial (Dialling) (Ill.), VII, a 132-40; universal (Theodosius), XXIII, a 279
Sundt, Eilert Lund, economist (Norway), XVII, b 606
SUN-FISH (Ill.), XXII, a b 693; (Ichthyology), XII, a 688, b 701, b 728, b 733; (Shark), XXI, *a* 814
SUNFLOWER, plant, XXII, b 693-4; (Botany), IV, a 111; (Horticulture), XII, b 258; oil (Oils), XVII, a 765, a 768
Sung, dynasty (China), V, b 545; (Kublai Khan), XIV, b 151, a 152; (Mongols), XVI, b 767, b 768
——, state (China), V, a *b* 562
Sungaria or Jungaria, kingdom (Calmucks), IV, *a* 629. See DZUNGARIA
Sungari, river (Manchuria), XV, *a b* 473, *a* 474; (Siberia), XXII, a b 9, a 10
Sungars, tribe (Mongols), XVI, b 772, a 776
Sungatcha, river (Siberia), XXII, a 10
Sungei Ujong, territory (Straits Settlements), XXII, b 615, a 616
Sungian island (Sunda Islands), XXII, b 687
Sung-Yun, monk (Hwen T'sang), XII, a 434, a 435
Sunium, promontory (Attica), III, a 51; mines of (Finance), IX, a 150
Sunja river (Terek), XXIII, a 203
Sun myths (Ammon), I, a 649; (Apollo), II, a b 162, a 163; (Ares), II, a 427; (Baal), III, a b 152; (Baldur), a 238; (Hermes), XI, a b 670; (Hera), a b 606; (Hercules), b 649; (Hesperides), a b 695; (Hyacinthus), XII, a 436; (Ixion), XIII, b 537; (Japan), a 590, a 591; (Lydia), XV, a b 100; (Manchuria), XV, b 474; (Medea), a b 787; (Memnon), b 855, a 856; (Minos), XVI, a 501; (Mythology), XVII, a b 164; (Phœnix), XVIII, a 824
Sunna, custom (Mohammedanism), XVI, b 616
Sunnín, mount (Lebanon), XIV, a 394
SUNNITES AND SHI'ITES, sects, XXII, a 694–700
  distribution, a 694
  Mahdíism, a b 700
  religious observances, b 699-700
  SHI'ITES, a 698–700
    Bábí movement, a 700
    dervishes, b 699
    Ithna 'Asharíya, sect, b 698
    officials, a b 699
    Persian dynasties, a b 698
    sects, a 700
    tenets, b 698–9
  SUNNITES, a 694–8
    Caliphate supremacy, a b 696
    dervishes and súfís, b 696–7
    judicial officers, b 696
    modern changes, b 696–7
    poorer classes, b 697-8
    rationalism abolished, a b 694
    schools, b 695–6
    theological training, a b 695
    Ulema, order, b 694-5
—— or Sunnis, sect (Afghânistân), I, a b 211, a 213; (Ali), b 504; (Egypt), VII, b 627; (Hasan and Husein), XI, b 454; (Kirghiz), XIV, a 98; (Persia), XVIII, b 647, b 652, a 653
Sunot, river (Darfur), VI, a 725
Sun-rose, flower (Horticulture), XII, b 258
—— -signalling (Heliography), XI, b 564–5
Sun-Song (Iceland), XII, b 657
Sun-spots, XXII, a b 680–3; (Astronomy) (Ill.), II, b 658, a 659, b 685–8; (Aurora), III, b 85; (Famines), IX, a 25; (Galileo), X, *a* 30, a b 32; (Herschel), XI, b 684–5; (Kepler), XIV, b 49; (Meteorology), XVI, a 175, b 178–9, a b 185, b 186, a 187-91; cycles of (Sun), XXII, a b 684; (India), XII, a 778; localization of (Sun), XXII, b 681–2; maximum period of, b 682–3; theory of, a 683–4
Sunstone (Mineralogy), XVI, a 388, a 438
SUNSTROKE, XXII, b 700–1; (Insanity), XIII, a 108; (Pathology), XVIII, a b 403
Sunt islands (Nile), XVII, b 520
Sun Tsze-king, Wei emperor (China), V, a 578
Sun-worship (China), V, a 583; (Egypt), VII, *a b* 620, *a* 621, a 640, b 672; (Gaelic), X, b 9–10; (Phœnicia), XVIII, a 816; (Pueblo Indians), XX, a b 889; (Yemen), XXIV, a 778
Suomi, people (Finland), IX, a 191
Su-pao-Koang, commissioner (Lew Chew), XIV, a b 490
Supé, river (Peru), XVIII, a 684
Superfœtation (Medical Jurisprudence), XV, b 789
Superheated steam (Steam-Engine), XXII, a 502, b 503, b 508
Superintendents, church (Presbyterianism), XIX, *b* 699, a 700
Superior, Lake (Geology), X, b 247, b 328; (Lake), XIV, a b 218; (Mining), XVI, b 491, a 493; (St. Lawrence), XXI, b 186, a 191; charcoal iron (Iron), XIII, a 314; copper (Mineralogy), XVI, *b* 397; forests near (United States), XXIII, b 859, a 861; mineral resources (United States), a 853, *a* 864, *b* 866, b 867, a b 869, a 870; specular ore (Iron), XIII, b 292
Superioritate Maris Angliæ, De (Sea-Laws), XXI, a 611
Supernatural, History of the (Howitt), XII, a 339
Supernatural guidance (Socrates), XXII, a b 247, b 251
Supernaturalism (Belief), III, b 461–2; (Christianity), V, a b 599, b 604; (Dream), VII, b 391, a 392-3; (Irving, E.), XIII, a b 382; (Rationalism), XX, b 301, a 302, a 303; (Schleiermacher), XXI, a 431; and miracles (Gospels), X, a 734–5
Super-phosphate (Agriculture), I, *b* 309, a b 310; (Coprolites), VI, b 313; (Guano), XI, a 207, *a* 208; (Phosphorus), XVIII, a b 832; manufacture of (Sulphur), XXII, a 670; of lime (Chemistry), V, b 446
Superposition, order of (Geology), X, a 261, a b 284, a 285, a b 288-9
—— of small motions (Mechanics), XV, a 698; (Wave), XXIV, a b 438
Supersedeas (Writ), XXIV, *a* b 732
Superstition (Charron), V, b 373; (Divination), VII, b 254–5; (Egypt), b 629; (Emerald), VIII, b 156; (Ethnography), a b 547; (Fetichism), IX, b 104; (Hamadan), XI, b 358; (Holly), XII, b 105; (Hottentots), a b 325, note; (Israel), XIII, a 420, a 425;

Superstition, *continued* (Java), a 618; (Kingfisher), XIV, b 83–4; (Laurel), b 349, note; (Lupercalia), XV, b 67, a 68; (Lycanthropy), a 90–3; (Madagascar), a 174; (Magnetism), a 220; (Mandrake), a 484; (May), b 654; (Wax Figures), XXIV, b 486
Superstition (Plutarch), XIX, b 245
——, basis of (Priest), XIX, a 744; conditions of (Neoplatonism), XVII, a b 342
Superstitious uses, law of (Roman Catholic Church), XX, a b 648
Suphis I., king (Egypt), VII, a b 635
Supination (Mammalia), XV, b 361
"Supplementary hypothesis" (Pentateuch), XVIII, b 516, a b 519
Suppliants, play (Euripides), VIII, a 593
Supplies, granting (Parliament), XVIII, a b 310, b 311; (War), XXIV, b 369–70
Supply and demand (Political Economy), XIX, b 394–5; (Value), XXIV, *b* 53–4
Supporters (Heraldry), XI, a b 634
Supposes (Gascoigne, G.), X, a 93
Suppression, floral (Botany), IV, *a* b 116
Suppuration (Pathology) (Ill.), XVIII, b 370–1, b 409, a b 410; (Surgery), XXII, a b 717
Supralapsarianism in Holland, (Arminius), II, a 484; (Predestination), XIX, b 690
Supra-renal bodies (Mammalia), XV, b 367; (Anatomy), I, b 797; degeneration (Pathology), XVIII, a 399; disease (Pathology), b 391, a b 392; organ, function of (Pathology), a b 392
Supremacy, royal (Convocation), VI, b 290; (Elizabeth), VIII, b 133; (England, Church of), b 336; (Gardiner), X, a 70; (Henry VIII.), XI, b 592; (More, Sir T.), XVI, b 844–5; (Presbyterianism), XIX, a 702, a 704, a b 706; (Scotland), XXI, a 531, a *b* 533
——, state, in France (Presbyterianism), XIX, b 712, a 713; (Presbyterianism), b 715, a 716
—— oath, XVII, b 720
Supreme Court, English (Writ), XXIV, *a* b 731
—— court, United States (Government), XI, a b 15; (Jay), XIII, a 623; (Justice), b 798; (Marshall), XV, b 581; (Story), XXII, a 607; (United States), XXIII, a 799, a 800, b 804, a 818
—— Sovereign Titles, XXIII, a 445
Súr, town (Tyre), XXIII, b 757–8
Sura, academy (Talmud), XXIII, b 40, b 43, a 44
——, river (Penza), XVIII, a b 525; (Saratoff), XXI, a 319; (Simbirsk), XXII, *b* 83, *a* 84
SURABAYA, town, XXII, b 701; (Java), XIII, b 611, a 617; river, b 611
Suráha lake (Gházipur), X, a 500
Súraj Mall, rájá (Bhartpur), III, b 543
Suraj-ud-Dowlah or Suráj-ud-Daulá, nawáb (Baxar), III, a 393; (Calcutta), IV, b 582–3; (Clive), VI, a b 10–1; (Hastings), XI, a 458; (India), XII, a b 840
SURAKARTA, town, XXII, b 701; (Java), XIII, b 617
Suram, mountains (Caucasus), V, a 219, a 221, b 222; pass (Transcaucasia), XXIII, a 546
Surand, river (Jura), XIII, b 791, a 792
Súras, chapters of Koran (Mohammedanism), XVI, a 620, b 624–5, a 627
Suráshtra, peninsula (Kathiawar), XIV, b 16–7
SURAT, district, XXII, b 701–2; city, *b* 701, a 702; (Bombay), IV, *a* b 22, a 23; (India), XII, *a* *b* 838; Cotton, VI, a 428; (India), XII, a 787
SURBITON, suburb, XXII, a 702
Surcoats (Costume), VI, a b 414, b 415, a b 417
Surd, in pronunciation (B), III, a 150
Sūr-Dās, teacher (Hindustani Literature), XI, b 754
Surds (Algebra), I, b 471–2
Sure or Sauer, river (Luxemburg), XV, b 88, a 90
Sūrēn, Nestorian patriarch (Syriac Literature), XXII, b 887–8
Surenas, general (Persia), XVIII, b 607–8
Surenhusius or Surenhuis Willem, orientalist (Mishnah), XVI, a 529, note
SURETY, law-term, XXII, a 702; (Insurance), XIII, a 168; (Roman Law), XX, b 717, a 719; communal (Brehon Law), IV, *a* 227
Surf, landing in (Seamanship), XXI, b 630
SURFACE, CONGRUENCE, COMPLEX, XXII, a 702–7
    complexity of theories, a b 702
    congruences and complexes, b 704–5
    curves of curvature, asymptotic lines, b 705
    curvilinear co-ordinates, a 706
    geodesic lines, b 705–6
    memoirs, a b 707
    minimal surfaces, b 706
    orders 2 to 4, a b 704
    orthotomic and parallel surfaces, a b 706
    regulus defined, a 704
    surfaces in general, b 702–3
    torses in general, a 704
——, bounding, equation of (Hydromechanics), XII, a 463, a b 467; delineation of (Geometry), X, a 374
——, particle on (Mechanics), XV, b 718–9
——, units of (Weights and Measures), XXIV, a 505
—— density (Magnetism), XV, a 228; distribution, a 243; integral, b 230
Surfaces (Geometry), X, b 377–8; (Measurement), XV, b 665; axioms of (Geometry), X, b 334–5; equiactional (Mechanics), XV, a b 732
——, level (Hydromechanics), XII, a 532; (Maclawrin), XV, a 163; (Pneumatics), XIX, b 252
——, quadrature of (Infinitesimal Calculus), XIII, a b 60–1
—— of second order (Geometry), X, b 364
Surface-tension of fluids (Capillary Action), V, a b 51, *b* 52, *b* 53, a 56–7, b 58–9; of waves, a b 63; tables of, b 63; under temperatures, a 64
Surfacing lathe (Machine Tools), XV, b 154
Surf-duck, bird (Scoter), XXI, b 492
Surfrappé, coin (Numismatics), XVII, b 645
Surgeons (Barber), III, b 313; British Army, II, b 510–1; Navy, XVII, 302, a b 303; distinguished nineteenth century (Surgery), XXII, b 711–2. See SURGERY
——, Royal College of, Edinburgh, VII, a 577; London (Hunter, J.), XII, b 405–6; (London), XIV, *a* 845
SURGERY, art, XXII, a 707–8
    DISEASES, b 718–23
        anchylosis, a 721
        arterial, b 718–9
        bone, b 719–20
        contusion, b 720–1
        joints, a 720–1
        sprain, a b 720
        syphilis, b 721–2
        tumors, a 722–3
        venereal, a 721–2
        venous, a b 719
    HISTORY, a 707–12
        Arabian, b 709
        authorities, a 712
        Byzantine, b 709
        Chinese, a 708
        Egyptian, a 708
        eighteenth century, a b 711
        Greek, a 708–9
        Hindu practice, a 707–8
        mediæval, a b 710
        nineteenth century, b 711–2
        origin, a 707
        Roman, a b 709
        seventeenth century, b 710–11
        sixteenth century, b 710
    OPERATIVE, a 723–8
        abdominal operations, a 725–7
        cortical disease, a 725
        cranial operations, b 723–5
        deformities, a 727–8
        hysterectomy, b 726–7
        knock-knee, a 727–8
        laparotomy, a 727
SURGERY, *continued*
    OPERATIVE
        literature, a 725 note, a 727 note
        modern practice, b 723
        ovariotomy, a b 726
        peritoneal wounds, b 725–6
        range of operations, a b 723
        spinal curvature, a b 728
        thoracic surgery, a 725
        topographical brain areas, b 724–5
        uterine appendages, b 726
    PRACTICE, a 712–8
        ankle-joint amputation, a b 713
        antiseptics, b 713–4
        burns, a 716
        fractures, a b 716
        gangrene, a b 716
        germ theory, b 712–4
        hæmorrhages, a b 715
        improvement in wound treatment, a 712–4
        incisions, repair of, a b 717
        infective and non-infective organisms, b 714–5
        injuries, a 715–7
        joint-injury, b 716
        putrefactive organisms, a b 714
        repair process, b 717–8
        shock, syncope, a 715
        suppuration, b 717
        ulceration, b 717–8
        wound treatment, b 715–6
—— (Abernethy), I, b 49; (Ægineta), a 164; (Antiseptics), II, a 120; (Bell, Sir Charles), III, a *b* 467; (Brodie), IV, b 323–4; (Chloroform), V, a 591; (Club-Foot), VI, b 41; (Collodion), a b 134; (Dentistry), VII, b 83, note; (Desault), a b 100; (Dupuytren), a 476; (Egypt), a 626, b 629; (Ferguson, Sir W.), IX, a 78; (Gentian), X, *b* 143; (Gräfe, K. F. von), XI, b 29; (Hernia), b 673; (Hunter, J.), XII, b 401, b 402, a b 404, a 407; (Hunter, W.), *b* 407, a 408; (Medicine), XV, b 814, a 815, a 817; (Mott), XVII, a 10; (Necrosis), a 322; (Neuralgia), b 373; (Ophthalmology), b 802, a *b* 803, a 804, *a* *b* 808; (Syme), XXII, b 849; Vienna, Academy of, XXIV, b 74–5; (Warren, J. C.), *b* 885
—— in goitre (Pathology), XVIII, a 393
Surgical Anatomy, I, b 714, b 716
—— equipment (Ambulance), I, b 586; instruments, Hindu (Surgery), XXII, a b 707
Surgut, dialect (Ural-Altaic), XXIV, b 6
Suri, town (Bírbhúm), III, a 603

Suricata, genus (Mammalia), XV, a b 443
Surinam, country (Guiana), XI, a 223-5; river, a 221, b 223; (Paramaribo), XVIII, a 262
—— eel (Electricity), VIII, b 9; toad (Ichthyology), XII, b 698; (Reproduction), XX, a 423
Surirella (Diatomaceæ)(Ill.), VII, b 146, a 147; (Microscope), XVI, b 281
Surkhab river (Afghânistân), I, b 216-7; (Karategin), XIV, *a* 6
Surkhan, river (Hissár), XII, b 4, a 5
Surma or Barak river (Sylhet) XXII, *b* 848
Surmelin river (Marne), XV, a 568
Surnames (England), VIII, b 270; (Genealogy), X, a 129; growth of (Clan), V, b 697-8
Surnia, genus (Owl), XVIII, a 93
Surplice (Costume), VI, a 410; (Vestments), XXIV, *b* 211
Surplus distribution (Insurance), XIII, b 184-5
—— value, doctrine of (Socialism), XXII, *b* 222, b 223, b 224, *a* b 225
SURRENDER, law-term, XXII, a 728; (Roman Law), XX, a 708
Surrender of Breda, painting (Velazquez). XXIV, b 146
—— values, life policies (Insurance), XIII, a b 185
SURREY, county (Plate X), XXII, a 728-30
—— chapel (Hill, Rowland), XI, b 730
SURREY, Henry Howard, earl of, poet, XXII, b 730-1; (English Literature), VIII, a 371; (Scotland), XXI, *a* 519, a 520; (Shakespeare), *b* 793; (Wyat), XXIV, b 740
——, John de Warrenne, earl of (Scotland), XXI, *b* 509; (Wallace), XXIV, *b* 347
——, Thomas Holland, duke of (Abbey), I, b 26
——, Thomas Howard, earl of (Wolsey), XXIV, *b* 668
SURROGATE, law-officer, XXII, b 731, note
Sūr-Sāgar (Hindustani Literature), XI, b 754
SURVEYING, art (Ill.), XXII, a 731-59
  astronomical determinations, collateral, a b 749
  contouring, instrumental, a b 748
  co-ordinates of unvisited point, a b 743
  delineation of ground, b 747-8
  details, interior, b 744-6
  early methods, a b 731
  geoid or deformed surface, b 744
  hill-shading, a b 746
  hypsometry, b 749-50
  INDIA, GREAT TRIGONOMETRICAL SURVEY, b 731-42
    azimuth observations, a b 741
    base lines, a b 732
SURVEYING, continued
  INDIA, GREAT TRIGONOMETRICAL SURVEY
    base lines, errors of, b 740-1
    errors of angles, absolute, b 735
    expansion of standard bar, b 732-3
    functions of angles, errors of, a b 740
    geodetic formulæ, limits of, b 736-7
    harmonizing angles, a b 736
    height and refraction, b 741-2
    horizontal angles, b 734, a b 735
    instruments, angle-measuring, b 733-4
    latitude and longitude calculations, b 736
    outlines, a 732
    plan of triangulation, a 733
    reduction of principal triangulation, a 737-40
    refraction, b 734-5
    signals, a b 734
    station sites, a b 733
    vertical angles, b 734-5
    weights, a b 735
  INSTRUMENTS, a 754-9
    angle measurers, b 754
    circle readers, b 754-5
    compasses, draughting, a b 758
    compasses, magnetic, b 755
    Eckhold's omnimeter (Ill.), a b 757
    field instruments, a 754-8
    levels, a 755, b 757-8
    linear instruments, a b 754
    plane-table, b 755
    planimeter (Ill.), a b 759
    plotting instruments, a 758-9
    prismatic theodolites, b 757
    reduction transfer instruments, b 758-9
    telescope, a b 755
    theodolites, a 756-7
    transit theodolites, a 756-7
    levelling, b 743-4
  MAPPING, b 750-4
    anastatic printing, b 752
    electrotyping, a 752
    engraving, b 751-2
    graticulation, b 750-1
    lithography, a b 752
    photography, a b 751 b 752-3
    photogravure, a 754
    photo-mechanical printing, b 753-4
    printing, b 751-4
    zincography, b 752
    mezzotint shading, a b 747
  NAUTICAL SURVEYING, a b 750
  ordnance methods, a 745-6, b 747-8
SURVEYING, continued
  plotting and examination, b 745-6
  RECONNAISSANCE, b 748-9
  rectangular spherical coordinates, a 743
  representation of ground a 746-8
  scale, a 745
  sea-level, a b 744
  shade scales, b 746
  traversing as a basis, a b 742
—— (Heliography), XI, b 565; (Map), XV, b 524, a 529; (Railway), XX, a b 240
Surveying and Improvements, Book of (Agriculture), I, *a* 263, a 264
—— compass (Surveying), XXII, b 755
Survey of London. See STOW, John
Surveyor-General of Ordnance (Army), II, b 501, *a* 502, b 509
Surveyor of the Press (Newspapers), XVII, a 425
SURVEYS, United States, XXII, b 935-40
  bibliography, a b 938
  coast and geodetic survey, b 938-40
    history of, b 938-9
    incidental work, a b 940
    literature, b 940
    publications, b 939-40
  early explorations, b 935-6
  geological survey, b 937-8
  Hayden's survey, a b 937
  King's survey, a 937
  Wheeler's survey, b 936-7
  Powell's survey, b 937
—— (Pacific Railroads), XIX, a b 913, b 914; (United States), XXIII, a 812
——, triangulation (Roy, William), XXI, a b 41; (Geography), X, a 171, a 173
Survey stations (Geodesy), X, a b 147, a 152, b 153; tenure (India), XII, b 810
Surville, navigator (Solomon Islands), XXII, b 266, a 267
Survilliers, comte de (Bonaparte), IV, a 26
Survival, natural (Acclimatization), I, a 83
—— of the fittest (Birds), III, a 665; (Instinct), XIII, a *b* 164; (Political Economy), XIX, b 386; (Variation and Selection), XXIV, a b 87, b 92; (Zoology), a b 857, b 859
Survivals in culture (Anthropology), II, a b 108; (Ethnography), VIII, a 541; of primitive ideas (Animism), II, b 50, b 51; of Shamanism (Babylonia), III, b 167-8
Survivorship (Medical Jurisprudence), XV, a 790; life Insurance, XIII, a b 175
Sūrya, god (Brahmanism), IV, b 186, a 188
Sūrya-Siddhānta, astronomical (Zodiac), XXIV, b 832
Sus, genus (Mammalia), XV, b 356; (Swine), XXII, a 811-2. See Suidæ
Sús, river (Morocco), XVI, b 858
SUSA, Shush or Shushan, city of Elam, XXII, a 760; (Alexander the Great), I, a 427; (Elam), VII, a b 689, *a* 690; (Mohammedanism), XVI, a 590; (Persia), XVIII, b 618 note, a 620; (Shustar), XXI, b 888; remains at (Architecture), II, a 351
SUSA, Italy, city, XXII, a b 760
SUSA, Tunis, city, XXII, b 760; (Hadrumetum), XI, *b* 327
SUSANNA, Hebrew myth, XXII, b 760
Susannite (Mineralogy) (Ill.), XVI, b 394, b 416
Susarion, poet (Drama), VII, a 350; (Greece), XI, b 125
Susatense, Jus (Soest), XXII, a 259
Susceptibility (Magnetism) (Ill.), XV, a 246-8, a 254, note, a 256-62, a b 266, a 269-7
Susiana, province (Elam), VII, a 689-90; (Inscriptions), XIII, b 120; (Mohammedanism), XVI, b 589
Susinak or Armannu, god (Elam), VII, a 690
Suso, Heinrich, mystic (Germany), X, b 471; (Mysticism), XVII, b 140, b 142; school of (Kempis), XIV, a 35
Suspense, painting (Landseer), XIV, b 281
Suspension, astatic (Seismometer) (Ill.), XXI, b 660
—— of Bank of England, 1792 (Banking), III, b 274; in 1797, a 276
—— Bridges (Ill.), IV, a 254, a 269-73; framed (Ill.), b 286-8; hinged (Ill.), b 290-1; history, a 301; at Clifton (Brunel), b 356; at Niagara Falls, XVII, a b 486; (Bridges) (Plate XVIII), IV, b 304-5
Suspensorium (Amphibia), I, a 660, *a* 661, b 663, *b* 664, a b 665, *a* b 666; (Ichthyology), XII, a 679, b 683, b 684, a 685, a 686
Susquehanna river (Maryland), XV, a 609; (Pennsylvania), XVIII, a b 510, b 511; (United States), XXIII, b 843, b 845
Susruta-samhita (Sanskrit), XXI, b 308; (Surgery), XXII, *a* 707
Süss, Oppenheimer, courtier (Würtemberg), XXIV, *a* 738
SUSSEX, county (Plate XI), XXII, b 760-3
  agriculture, b 762, a 763
  bibliography, b 763
  climate, b 761-2
  flora and fauna, b 761
  geology, a b 761
  history, a b 763

SUSSEX, *continued*
  political features, a b 762
  population, b 762-3
  surface, b 760-1

—— (Iron), XIII, a 297
——, Augustus Frederick, duke of (Este Family), VIII, a 494
——, Thomas Ratcliffe, earl of (Ireland), XIII, b 269, *a* 270
—— Downs sheep (Agriculture), I, a 348
Sussexite (Mineralogy), XVI, a 413
Süssmilch, Johann Peter, divine (Statistics), XXII, a b 479
Sustentative functions (Biology), III, b 592-3
Susu, fish (India), XII, b 781-2
—— Dictionary, VII, b 167
Susus, tribe (Senegambia), XXI, *a* 695
Suswa river (Dehra Dun), VII, b 30
Sutala, paradise (Elysium), VIII, a 144
Sûtas, caste (Sanskrit), XXI, b 295
SUTHERLAND, county, XXII, b 763-5; (Scotland), XXI, *a b* 543, *a* 544, *a* 545, a b 549, a *b* 551
——, Dr., naturalist (Polar Regions), XIX, a 333
Sutlej river (Alexander the Great), I, a 428; (Himalaya), XI, a 738; (Hushiápur), XII, a 418; (India), *b* 770, a 776; (Jalandhar), XIII, b 555; (Lahore), XIV, *a b* 212; (Ludhiána), XV, *b* 59, *a* 60; (Múltán), XVII, *b* 25; (Punjab), XX, *a b* 112, note, a b 114, *b* 117; (Tibet), XXIII, *a* 361
Sutone, town (Plymouth), XIX, a 249
Sutra, Abhinish Kramana, or *Great Renunciation* (Buddhism), IV, a 381, b 382
—— *of Reason* (China), V, b 576-7, b 582
Sútras (Drama), VII, a 344; (Sanskrit), XXI, *b* 287-8, *b* 289-90, a b 291, b 292-3, b 301-9; (Tibet), XXIII, a b 366; (Vedanta), XXIV, a 128
Sutri, treaty of (Popedom), XIX, a 514
Sutrium, town (Rome), XX, b 758, a b 759, b 760, *b* 761
Sutro tunnel (Mining), XVI, a 479, b 480; (Nevada), XVII, a 377
SUTTEE, rite, XXII, a b 765; (Bali Island), III, a 243; (Brahmanism), IV, a 190; (India), XII, b 819, b 845-6; (Roy), XXI, b 40; origin of (Women), XXIV, b 671
SUTTER, John Augustus, pioneer, XXII, b 940-1; (California), IV, a 616; (Sacramento), XXI, b 140
SUTTON COLDFIELD, town, XXII, b 765
SUTTON IN ASHFIELD, town, XXII, b 765
Suttringees (Carpets), V, a 114
Sutures (Anatomy), I, a 730; wire (Sims), XXII, b 905
Sutz Lake dwellings, XIV, a 224
Suwa, lake (Japan), XIII, a 582
SUWALKI, government, XXII, b 765-6; (Poland), XIX, a b 318, *a* 319, *b* 320, b 322; statistics (Russia), XXI, a 76
SUWALKI, town, XXII, a 766; (Poland), XIX, a 323
Suwanee, river (Florida), IX, *b* 296
SUWAROFF, Alexander Vasilievich, general, XXII, a b 766; (Army), II, b 534; (Austria), III, *b* 114; (Ismail), XIII, a 398; (Paul), XVIII, b 442; (Potemkin), XIX, b 615; (Russia), XXI, *a* b 108
—— Nut, XVII, a b 683
Suwo Nada, sea (Japan), XIII, a b 580
Suy dynasty (China), V, b 560
Suy-jin She, emperor (China), V, *a* 558
Suzdal, principality (Russia), XXI, *a b* 98, *a* b 99
Svanbergite (Mineralogy), XVI, a 425
Svanhvit or Swan maiden (Edda), VII, b 564
Svartisen snow field (Norway), XVII, b 592
Svea, people (Sweden), XXII, *b* 782
SVEABORG, fortress, XXII, b 766; (Finland), IX, b 188; (Helsingfors), XI, a 572; (Sweden), XXII, a *b* 774, b 777
Svea Rikes Häfder (Geijer), X, b 115
Svedberg, Jesper, bishop (Scandinavian Languages), XXI, b 388; (Sweden), XXII, a 793; (Swedenborg), a 796
Svend Dyring's House (Hertz), XI, b 690, a 691
Svend Estridsen, king (Norway), XVII, b 601-2
Svenska folkets historia (Geijer), X, *b* 115
Sverri, king (Norway), XVII, b 602
Svetich, Milash, nom de plume (Servia), XXI, b 723
Sviatopolk, usurper (Russia), XXI, b 97
Sviatoslaff or Swientoslav grand duke (Russia), XXI, *a b* 97
Svir river (Ladoga), XIV, b 199, *a* 200; (Russia), XXI, b 80; (St. Petersburg), b 199
Sviyaga river (Simbirsk), XXII, b 83
Svyatoi Nos, peninsula (Transbaikalia), XXIII, b 542
Swabbers, cards (Whist), XXIV, b 573, *a* 574
SWABIA, duchy, XXII, b 766-7; (Alemanni), I, a 422; (Bavaria), III, a 390, *a* 392; history of (Germany), X, b 431, *b* 432, b 433, a 434, b 435, *a* 437, a 439, b 441
——, Frederick of, duke (Lothair the Saxon), XV, *a* 11
Swabian dialects (Germany), X, b 464, a b 465; emperors (Italy), XIII, a 483-4
—— Jura or Rauhe Alb, mountains (Würtemberg), XXIV, *a* b 735
—— League (Germany), X, *b* 444, a 445
—— line (Hohenzollern), XII, b 54-5
—— school (German Literature), X, b 485-6
SWAHILI, race, XXII, b 767
Swainson, Dr. (Creeds), VI, *b* 497, b 500
——, William, naturalist, *b.* 1789, *d.* 1855 (Ornithology), XVIII, a 17, a b 19 note, a 20; (Rifle-Bird), XX, b 567; (Taxidermy), XXIII, b 95; (Toucan), b 507, a 508
Swalchie, maelström (Caithness), IV, b 574. See Swelchie
Swale, river (York), XXIV, *a* 784
SWALLOW, bird, XXII, b 767-8; (Birds), III, b 633, a 655, *b* 663, a 667, b 669, b 673; (Hibernation), XI, a 704; (Martin), XV, *a* 588; in Heraldry, XI, b 625
Swallow-holes (Cave), V, *b* 231; (Tunnelling), XXIII, b 662
Swallowing, process of (Anatomy), I, *a* b 735
Swallow-Tail Butterfly, IV, a b 529
Swámi, jewellery (India), XII, b 801
SWAMMERDAM, John or Hans, naturalist, XXII, b 768; (Anatomy), I, b 711, a b 712; (Bee), III, a b 418, *a* b 419, b 425; (Embryology), VIII, b 151; (Ichthyology), XII, a 668; (Insects), XIII, a 154; (Parasitism), XVIII, a 262; (Zoology), XXIV, a 840, a 843
Swamp. See Bog, Fen, Marsh
—— forests, eastern (United States), XXIII, b 860-1
Swamps, tamarack (United States), XXIII, a 861
Swan, lake (Zwickau), XXIV, b 871
——, river (Western Australia), XXIV, *a b* 535, a 536, a 537
SWAN, bird, XXII, b 768-70; (Birds), III, *a* b 617, b 623, b 625, a 630, b 633, a 634, a 672; in Heraldry, XI, a 625
——, Captain, pirate (Buccaneers), IV, b 368, a 369
——, W., optician (Lighthouse), XIV, *b* 627, a 628, a 629, b 636
Swanage Bay (Dorset), VII, *b* 321
Swanetia, province (Transcaucasia), XXIII, *b* 545
Swan Goose, X, b 692; (Poultry), XIX, b 667
Swanian language (Georgia), X, a 390
Swanimote, court (Forests), IX, b 360
Swanlinbar, village (Cavan), V, b 229
Swan Mussel, XVII, a b 117; (Mollusca), XVI, a 712
Swan-pan (Abacus) (Ill.), I, b 11
SWANSEA, city (Plan), XXII, b 770-1; (Coal), VI, *a* 48; (Coke), a 109; (Copper), b 308; (Glamorgan), X, a *b* 565; (Harbors and Docks), XI, b 418, b 421; (Libraries), XIV, b 546; Bank of England branch at, III, a 284
—— anthracite (Iron), XIII, a 299; assay (Metallurgy), XVI, b 68
Swan's process, J. W. (Photography), XVIII, b 844-5
Swantevit, idol (Missions), XVI, a 536
Swarming (Locust), XIV, a b 772, a b 773-4; of Bees, III, b 427; artificial, b 433-4; succession in, a 428
—— termites (Ant), II, b 88-9
Swarmspores, organs (Histology), XII, a 15, a 16; production of (Protozoa), XIX, b 875
Swarthmore College, Pennsylvania (Quakers in United States), XX, b 893
SWARTZ, Olof, botanist, XXII, b 771
"Swash" work (Machine Tools) (Ill.), XV, a 154
Swât, river (Afghânistân), I, a 205, a 216; (Punjab), XX, b 112, b 114
Swatopluk, king (Methodius), XVI, a 202; (Moravia), b 837
SWATOW or Swartow, town, XXII, b 771-2; (China), V, b 555, *a* 556
Swearing (Oath), XVII, b 717-21
Sweat (Nutrition), XVII, a 702, a b 704; glands (Anatomy), I, *b* 787, b 789
Sweating, curing process (Cocoa), VI, b 92
—— coin (Adulteration), I, a 160
—— disorders (Skin Diseases), XXII, b 128
—— in rheumatic fever (Pathology), XVIII, b 406, a 407
SWEATING SICKNESS, XXII, a 772-4; (London), XIV, b 856, a 857; (Medicine), XV, a 819
Swedberg J., bishop. See Svedberg
SWEDEN, kingdom, XXII, a 774-96
  GEOGRAPHY AND STATISTICS, a 774-82
    administrative order, a b 782
    boundaries, a 774
    climate, a 776-7
    coast and islands, a 775-6
    communication, systems of, a 781
    constitution, b 781-2
    education and religion, a 781
    fauna, a b 779
    fisheries, b 779-80
    flora, b 778-9
    geology, b 777-8
    industrial features, b 780-1
    meteorology, a b 777
    mountain and river systems, a 774-5
    population, political distribution of, a b 780
    sea-bed, a 776
    union with Norway, b 782

SWEDEN, *continued*
  GEOGRAPHY AND STATISTICS
    war organization, a b 781
    waterfalls, a 775
  HISTORY, b 782-91
    Bernadotte, b 790-1
    Charles X.-XI., a b 788
    Charles XII., b 788-9
    Charles XIII., b 790
    Christina, reign of, b 787-8
    eighteenth century, b 788-9
    fifteenth century, a b 785
    fourteenth century, b 784-5
    Gustavus I., Vasa, b 785-6
    Gustavus II., Adolphus, a b 787
    Gustavus III., b 789-90
    legendary period, a b 783
    Margaret of Denmark, age of, b 784-5
    nineteenth century, a 790-1
    Olaf, b 783
    original people and customs, b 782-3
    Oscar I.-II., a b 791
    reformation in, religions, a b 786
    seventeenth century, b 786-8
    sixteenth century, b 785-6
    territorial decadence, a b 789
    thirteenth century, a 784
    twelfth century, b 783-4
  LITERATURE, b 791-6
    Augustan or French and English period, b 793-4
    Charles IX., period of, a b 792
    eighteenth century, b 793-5
    Gustavian period, b 794
    Gustavus Adolphus, period, b 792-3
    living authors, b 796
    mediæval, b 791-2
    nineteenth century, b 795-6
    Rosenhane, a 793
    Rudbeck, b 793
    sixteenth century, a 792
    Stjernhjelm, b 792-3

—— (Army), II, b 538; (Baking), III, a 216; (Bible Societies), a b 562; (Buch), IV, a 370; (Filigree), IX, a 144; (Finland), a b 190; (Forests), b 349, *a* 350, a b 351; (Frederick William), *b* 645, a 646; (Government), XI, a 13 note; (Gustavus I.-III.), b 297-9; (Insanity), XIII, a 105; (Jews), b 696; (Lapland), XIV, a b 305-6, b 307; (Libraries), b 531, b 551; (Liquor Laws), b 694, a 696; (Matches), XV, a 632, a 633; (Mining), XVI, a 491; (Moore, Sir J.), a 831; (Montecuculi), a 805; (Napoleon), XVII, *b* 222; (National Debt), a 253; (Newspapers), b 440-1, a b 449; (Norway), b 603; (Periodicals), XVIII, a 554; (Press Laws), XIX, b 731, b 733; (Prison Discipline), b 782-3; (Railway), XX, b 262; (Reformation), b 348; (Suicide), XXII, a 662, *a b* 663, a 664; (Technical Education), XXIII, *a* 115; *History of* (Dalin), VI, b 687; (Geijer), X, b 115-6; law of (Patents), XVIII, b 363; schools of (Comenius), VI, a 163; wars with Denmark, VII, b 75, a b 76
SWEDENBORG or Svedberg, Emanuel, theologian, XXII, a 796-8
  biographical, a 796-7
  literature, b 798
  personal qualities, b 797
  sect of followers, a b 798
  system of, b 797-8

—— (Apparitions), II, b 176-7, b 178, b 181; (Mercurial Air-pump), XVI, a 35; (Mysticism), XVII, a b 142; (Theosophy), XXIII, b 299; (Zoology), XXIV, a 840, note
Swedes in America (Delaware), VII, a b 40; (New York), XVII, b 466; (Philadelphia), XVIII, b 750, a 751
——, military character of (Army), II, b 538
Swede turnips (Agriculture), I, b 325
Swediaur, Dr. (Ambergris), I, b 580
Swedish cartography (Map), XV, a 529; churches (Mural Decoration) (Plate I), XVII, a b 54; cities (Stockholm), XXII, b 586, a 588; coast subsidence (Geology) X, b 228; coins (Numismatics), XVII, b 676; Company (India), XII, a 839; Dictionaries, VII, b 161; expeditions (Polar Regions), XIX, b 335
—— filtering paper (Filter), IX, b 149
Swedish Freedom (Sweden), XXII, a 794
—— language (Scandinavian Languages), XXI, *a* 382, *b* 383, b 386-9
—— law, ancient (Duel), VII, a 442
—— learned Societies, XXII, a 236, a *b* 237, b 238, b 239, a 240
—— literature XXII, b 791-6; (Almqvist), I, b 524; (Bellman), III, b 473-4; (Bremer), IV, a 229-30; (Dalin), VI, b 687; (Franzen), IX, a 637; (Geijer), X, b 115-6; (Hammarsköld), XI, b 379; (Humerus), XII, b 370; (Runeberg), XXI, a b 66; (Tegnér), XXIII, b 117-8
—— origin of Russia, XXI, a 96
—— printing (Typography), XXIII, b 740
—— Royal Academy, I, b 73
—— schools (Gymnastics), XI, a 312
—— Universities, XXIII, b 906
"Sweep," residuum (Gold), X, b 669
Sweet, Henry, scholar (English Language), VIII, a *b* 350, b 357, a 360; (Germany), X, b 462; (Phonetics), XVIII, b 825; (Scandinavian Languages), XXI, a 385 note, a 389; (Speech Sounds), XXII, b 396, a *b* 399, b 404, a b 405. See List of Contributors
——, John E., inventor (Steam-Engine), XXII, b 922
Sweet basil, plant (Lavender), XIV, a 353
—— -brier (Eglantine), VII, a 606; (Rose), XX, b 873, a 874
—— Calabash (Granadilla), XI, a 42
—— Gum, tree (Liquidambar), XIV, b 693-4
—— Oil (Rape Oil), XX, b 285-6
—— Pea, XVIII, b 452; (Acclimatization), I, a 82; (Botany) (Ill.), IV, a 116, b 123; (Horticulture), XII, b 255
—— water canal (Egypt), VII, a 613, b 615
Sweetwater mountains (United States), XXIII, a 846
Sweet William, plant (Pink), XIX, b 115; (Hybridism), XII, a 442
Swegen Swend or Sweyn I., Denmark, king (England), VIII, b 259; (Ethelred), *a* 501
—— II., Estrithson, Denmark (Godwine), X, a 641; (Harold III.), XI, b 433
——, king, Norway (Hardicanute), XI, b 423
——, earl of Gloucester (Godwine), X, a b 641; (Harold II.), XI, a *b* 434
Swelchie, vortex (Whirlpool), XXIV, a b 572. See Swalchie
Swell, automatic (Harmonium), XI, b 432; Organ, XVII, a 862
Swells, history of (Organ), XVII, a b 856
Swend. See Swegen
Swerker Karlsson, king (Sweden), XXII, *b* 783
Sweyn. See Swegen
Sweynheym, Conrad, printer (Typography), XXIII, *a* 729, a b 739
—— and Pannartz, printers (Bibliography), III, b 565, b 566, a b 567
Swiatoslav of Kieff, general (Khazars), XIV, b 62
SWIFT, bird, XXII, b 798-9; (Birds), III, b 620, b 623, b 625, *b* 627, a 669; (Humming-Bird), XII, *b* 371
SWIFT, Jonathan, dean, satirist, XXII, b 799-806
  authorities, a 806
  character, personal, b 805-6
  dean of St. Patrick's, a b 802
  Drapier's Letters, a b 804
  early years, b 799-800
  fall of Bolingbroke, b 802-3
SWIFT, *continued*
  Gulliver's Travels, b 804-5
  Irish rectorship, b 800-1
  latter years, a b 805
  literary friendships, a 803
  Stella and Vanessa, a 803-4
  Temple residence, a b 800
  Tory party, service in the, b 801-3
  Whig connections, time of, b 801

—— (Astrology), II, b 649-50; (Atterbury), III, b 48, a 49; (Boyle), IV, b 167; (Defoe), VII, b 27, a b 28; (English Literature), VIII, b 379, a b 380; (Gay), X, *b* 107, *a* 108; (Ireland), XIII, b 234, b 248, b 274, a 275, a 276; (Magpie), XV, a 287; (Newspapers), XVII, a 422, b 426; (Oxford, Earl of), XVIII, a b 104; (Peacock), a 456; (Petronius), a 736; (Philips), a b 768; (Sheridan), XXI, b 832, a 833; (Wharton), XXIV, b 558
——, Jonathan, 1st, lawyer, XXII, b 799
——, Thomas, vicar, XXII, b 799
Swilly, lough (Donegal), VII, *a* b 313, b 314
Swimmers (Drowning), VII, b 409
SWIMMING AND DIVING, XXII, a 806-10
  back, swimming on, a 807
  diving, a 809
  learning, art of, a 806-7
  long immersions, b 809-10
  ocean bathing, b 808
  plates, swimming, a b 809
  plunging, b 808-9
  records, a 810
  styles of stroke, a b 807-8
  touch and turn, b 808
  treading water, b 807

—— (Hawaiian Islands), XI, b 472
—— -bells (Hydrozoa), XII, a 584, b 585, b 587, a b 588
Swinburne, Algernon Charles, poet (Byron), IV, b 542-3, a 544; (Ford, J.), IX, b 347, a 348; (Rondeau), XX, a 863; (Scotland), XXI, b 525 note; (Shakespeare), a 800, b 804. See List of Contributors
Swindell's puddling furnace (Iron), XIII, a b 330
Swinden, Jan Hendrik van, mathematician (Telescope), XXIII, a b 147
Swindle exposure (Newspapers), XVII, a 429
SWINDON, towns, XXII, a b 810; (Wilts), XXIV, b 625-6
SWINE, animals (Ill.), XXII, b 810-3
  artiodactyle evolution, b 810
  classification, b 810-1
  dicotylidæ, a 813

SWINE, *continued*
- hippopotamidæ, b 810–1
- suidæ (Ill.), a 811–3
  - babirussa (Ill.), b 812
  - Hindu species, a 812
  - phacochœrus or wart-hogs, b 812–3
  - potamochærus, African varieties, a b 812
  - sus (Ill.), a 811–2

—— (Estremadura), VIII, a 498; (Java), XIII, a 613; (Mammalia), XV, a 435; parasites of (Nematoidea), XVII, a 335; (Veterinary Science), XXIV, a b 223; plague (Veterinary Science), b 221. See Hog, Pig
——, river (Swinemunde), XXII, *a* 813
SWINEMUNDE, port, XXII, a 813
Swinepipe, bird (Redwing), XX, b 331, note
Swinestone (Geology), X, a 207
Swing-beam, locomotive (Steam-Engine), XXII, b 925, a 926
Swinging (Magnetism), XV, b 253
Swing-plough (Agriculture), I, a *b* 277, b 325
Swinhoe on avifauna of China (Birds), III, b 660, a 661
SWINTON, Lancashire, village, XXII, b 813
SWINTON, Yorkshire, town, XXII, a b 813
Swiss, History of the (Müller), XVII, *b* 22
Swiss Absinthe, I, a 58
—— Alps, north, I, b 550; inversion of strata (Geology), X, *b* 266
—— Army, II, b 538; inefficiency of, b 539; (Zwingli), XXIV, a 872; Arsenals, II, a 555
—— Cattle, V, b 214; coins (Numismatics), XVII, a 675; communes (Land), XIV, b 263
—— confederation (Albert), I, a 399; rise of (Tell), XXIII, a 171–2; (Thurgau), a 352; (Zurich), XXIV, *b* 870, a 871; Napoleonic (Grisons), XI, a 183
Swiss Family Robinson (Switzerland), XXII, a 838
—— glaciers (Agassiz), I, a 247; (Geology), X, a b 250
SWISSHELM, Jane Gray, journalist, XXII, a b 941
Swiss historians, XXII, b 835, b 836, a b 837; industrial schools (Technical Education), XXIII, a 115, a 116, a 117; Lakes, XIV, a b 218, a 219, a b 221–2; (Lake Dwellings), a 224–5
—— league (Germany), X, a 443, b 444, a b 445; (Schwyz), XXI, a 486; (Ticino), XXIII, b 373
—— learned Societies, XXII, a 236, a b 237, b 238, a b 239, a b 240
—— miocene formation (Geology), X, b 322–3
—— Ornithologists, XVIII, a 21
—— orography (Alps), I, a 550
—— poets (Pastoral), XVIII, a 353
—— Reformed Church (Gaussen), X, a 105; (Luther), XV, b 79, b 84; (Reformation), XX, b 332, a 344–6; (Switzerland), XXII, b 828–9; (Zwingli), XXIV, a 872–3
—— school of German Literature, X, a 477
—— torrents (Hydromechanics), XII, a b 519
—— triumvirate of theologians (Ostervald), XVIII, a 64
—— Universities, XXIII, a 898, a 905, a 907
—— Watches, XXIV, b 418
—— workmen (Patents), XVIII, b 880, b 882, a b 884
Switch (Railway), XX, b 246–7; board (Telephone), XXIII, a 145; tracks (Tramway), a b 539
SWITHUN, St., bishop, XXII, b 813–4
SWITZERLAND, confederation, XXII, a 814–39
- GEOGRAPHY AND STATISTICS, a 814–9
  - agriculture, b 817–8
  - army, a b 819
  - authorities, b 819
  - cantons, statistics of, 816, a 817
  - climate, b 815–6
  - commerce, b 818
  - communications, systems of, b 819
  - education, b 818–9
  - financial, a b 819
  - game, land and water, b 816–7
  - glaciers, b 815
  - health stations, b 818
  - industries, artisan, a b 818
  - live-stock, a 817
  - minerals, a b 816
  - population, characteristics of, a b 817
  - religion, b 817
  - surface, a b 814
  - water-systems, b 814–5
- HISTORY, b 819–35
  - Appenzell, St. Gall and Valais struggles, b 823–4
  - aristocracy, growth of, a b 831
  - authorities, a 835
  - Bern conquest of Vaud, b 829
  - Burgundian war, b 825–6
  - chronological table, a 835
  - civil war, fifteenth century, b 824–6
  - constitution of 1450, a b 825
  - constitutional period, modern, a 833–5
  - counter-reformation, religious, b 829–30
  - Eight-membered League, a 822–3
  - enlargement of League, a 828
  - French influence, period of, b 830–3

SWITZERLAND, *continued*
- HISTORY
  - French revolution, effects of, b 831–2
  - Hapsburg period, b 821–3
  - Helvetic Republic, b 831–3
  - imperial rule, b 823–8
  - imperial yoke formally removed, b 830
  - independence, practical, b 827–8
  - internal disputes, fifteenth century, b 826–7
  - Italian conquests, a b 824, a b 828
  - League of 1291, b 820–1
  - Mediation Act, a b 832
  - Morgarten epoch, b 821–2
  - origins of confederation, a 820–1
  - outline analysis, b 819–20
  - pact of 1815, b 832–3
  - political freedom from Hapsburg, a b 823
  - recent events, a 834–5
  - reform, modern political, a b 833
  - Reformation epoch, b 828–9
  - religious dissension period, a 828–33
  - reorganization of 1848, b 833–4
  - revised constitution, 1874, b 834–5
  - Sempach epoch, a 823
  - Three Lands, early history of the, a b 820
- index, 838–9
- LITERATURE, a 835–8
  - eighteenth century, b 835–8
  - French districts, a b 837
  - German cantons, a 836–7
  - mediæval period, a 835
  - nineteenth century, a b 838
  - philosophical authors, eighteenth century, b 836
  - Reformation period, a b 835

—— (Alemanni), I, a 422; (Climate), VI, b 4; (Constitution and Law), b 275, a b 276; (Europe), VIII, a 630; (Forests), IX, b 349, *a* 350, b 354; (Government), XI, a 14; (Hegel), a b 547; (International Law), XIII, b 201; (Labor), XIV, a 172; (Lake Dwellings), a 224 (Libraries), a 527, a 550; (Liquor Laws), b 694; (Napoleon I.), XVII, a b 207; (National Debt), b 253; (Newspapers), a 443; (Observatories), a 734; (Periodicals), XVIII, a 553; (Police), XIX, b 356; (Press Laws), b 733; (Prison Discipline), a 783; (Railway), XX, b 262; (Reformation), b 332, a 344–6; (Salt), XXI, a 242; (Saxony), b 372; (Silk), XXII, a 72; (Veto), XXIV, b 224–5; early printing in (Typography), XXIII, a 729
Switzerland, Political and Military (Napoleon III.), XVII, b 233
——, survey of (Dufour), VII, a 445
Swivelling truck, locomotive (Steam-Engine), XXII, a b 925
Swivels (Cable) (Ill.), IV, b 552
Swöld, battle of, 1001 (Norway), XVII, b 600–1
SWORD, weapon (Ill.), XXII, a 839–42
- historical types, a 840–1
- literature, b 842
- manufacture, a b 842
- modern types (Ill.), b 841–2
- origin and early forms (Ill.), a 839–40

—— (Acinaces), I, a 92; (Cutlery), VI, a b 647; (Fencing), IX, b 61; (Japan), XIII, b 582, b 587, a 589; (Solingen), XXII, b 264; (Toledo), XXIII, a 464; in Heraldry, XI, b 627
Swords, bronze (Archæology), II, *a* 297; Indian, XII, b 801; (Iron), XIII, b 352; Roman (Arms and Armor), II, a 486; Scandinavian, a 487
SWORD-FISH (Ill.), XXII, b 842–3; (Ichthyology) (Ill.), XII, b 691, a b 701, b 720, a 728; (Italy), XIII, a 465; (Mammalia), XV, b 402
Sword game (Piquet), XIX, b 122
—— of the Titans (Luray Cavern), XV, a 69
Swynford, Catherine, duchess of Lancaster, XIV, b 257, b 258
Syass, river (Ladoga), XIV, b 199, a 200; (Novgorod), XVII, b 621; (St. Petersburg), XXI, b 189
SYBARIS, city, XXII, b 843; (Crotona), VI, *a* 544; (Greece), XI, *a* 86; (Numismatics), XVII, b 653; city and river (Lucania), XV, *b* 39
Sybrittia, town (Numismatics), XVII, a 661
Sycamore tree (Arboriculture), II, b 278, a 282; (Botany) (Ill.), IV, b 85, *a* b 98, a b 106, b 136, a 137; (Maple), XV, *a* 531; wood (Wood-Carving), XXIV, *a* b 679, note
—— Fig, IX, b 135
Sycandra (Sponges) (Ill.), XXII, a 435, *a* 441, *b* 444
Sycites, wine (Fig), IX, b 135
Sycon, genus (Sponges), XXII, a b 429, *b* 430, a 434, b 435, b 437, b 438, b 442, b 443, *a* 444
Syconaria (Sponges), XXII, b 438–9
Syconidæ, family (Sponges), XXII, b 438, a 442
Syconina, group (Sponges), XXII, b 438

Syconus, fruit (Botany) (Ill.), IV, a 139
Sycophant, derivation of (Fig), IX, a 135
Sycosis, disease of hair (Parasitism), XVIII, b 274
SYDENHAM, suburb, XXII, a 844; (London), XIV, *a* 827, a b 831, a 846
SYDENHAM, Thomas, physician, XXII, a 844–5; (Gout), XI, *a* 7, b 8; (Iron, Therapeutics of), XIII, a 369; (Medicine), XV, b 820, *a* 821; (Morgagni), XVI, b 849; (Scarlet Fever), XXI, a 393
Sydney, bay and town (Cape Breton), V, *a* 37
SYDNEY, city (Plans), XXII, a 845–8
  business facilities, b 847–8
  charities, a 848
  climate, a 848
  docks and forts, b 847
  port, b 845, b 847
  schools, a 848
  situation, a b 845
  structures, municipal, a b 847
  topography, b 845–7
—— (Libraries), XIV, a 534, a b 552; (New South Wales), XVII, a b 418, a 419, a b 421; (Newspapers), a 449; (Observatory), b 737; penal colony (Prison Discipline), XIX, a 768, b 769–70, a 771
Sydney Papers (Newspapers), XVII, a 424
Sydserff's Ballot-box, III, a 252
Syene, town (Architecture), II, b 336, a 337; (Egypt), VII, a 679
Syenite, rock (Geology), X, a b 209; (Granite), XI, a 44
Syenitic eruption, South America, I, a 591
Syennesis, king (Cilicia), V, b 679
——, physician (Anatomy), I, a b 702
Syeversk, towns (Poltava), XIX, a 424
Syevsk, town (Orel), XVII, b 849–50
Sykes, Charles William (Post-Office), XIX, *b* 588
SYKES, George, general, XXII, b 941
SYLBURG, Friedrich, philologist, XXII, a b 848
SYLHET, district and town, XXII, b 848–9
Syllabary (Hieroglyphics), XI, b 714–6; (Inscriptions), XIII, a b 121, a 122; (Japan), b 594, a 596, a 598
Syllables (Speech-Sounds), XXII, b 398; structure of (Philology), XVIII, a 781
Syllabus, 1864 (Pius IX.), XIX, a 168; (Old Catholics), XVII, b 775
Syllæus, viceroy (Yemen), XXIV, a 776
Sylleibidæ (Sponges), XXII, a 439
Sylleum, fortress (Pamphylia), XVIII, a 211
Syllidæ, family (Annelida), II, a b 59, b 60, a 64
Syllogism (Analogy), I, b 694; (Aritsotle), II, a *b* 453, note, a 454; (Bacon), III, b 185, a b 187, note; (Condillac), VI, a 222; (Galen, C.), X, b 22; (Hamilton, Sir W.), XI, a 375; (Logic), XIV, b 792–3, *a* 794, a b 795, note, a 796–8, a b 800, b 801, b 804, a b 805, *a* b 806 and note, a 812; (Metaphysic), XVI, b 89, a 101; (Rhetoric), XX, a b 525; emendations of (Ramus), XX, a 281
Syllogistic Figures, Essay on (Kant), XIII, a 857, b 858
—— reasoning (Aristotle), II, b 453–4
Syloson, tyrant (Samos), XXI, a 262
SYLT, island, XXII, a 849; (Germany), X, a 402; (Schleswig-Holstein), XXI a b 432
Sylva, André Nunes da, poet (Portugal), XIX, b 571
Sylvana, opera (Weber), XXIV, *a* b 495
Sylvanite, mineral (Gold), X, b 660; (Mineralogy) (Ill.), XVI, b 409
Sylvanus, founder of the Paulicians, XVIII, b 444
Sylvester. See SILVESTER
——, James Joseph, mathematician (Algebra), I, a 456; (Quaternions), XX, a 171; his ellipsoid (Mechanics), XV, b 745–6; his four-point problem (Probability), XIX, a b 806
——, Joshua, poet, *b.* 1563, *d.* 1618 (Bartas), III, a 346
Sylvester's grate (Heating), XI, b 527
Sylvestral Ivy, XIII, a 537
Sylvia, mountain (Formosa), IX, a 366
——, genus (Whitethroat), XXIV, a *b* 584
Sylvian fissure (Anatomy), I, b 766, a *b* 767, a 771, *a* 772
Sylviidæ, family of birds (Distribution), VII, b 232; (Warbler), XXIV, *a* b 387, *a* b 388; (Wren), a b 724
Sylvine, mineral (Potassium), XIX, a 605
Sylvite (Mineralogy) (Ill.), XVI, a 400
Sylvius, Franciscus or Francis de la Boë, physician (Anatomy), I, a 708, a 710, a 712; (Chemistry), V, b 398, a 399; (Medicine), XV, a 820
——, Jacobus, anatomist (Anatomy), I, a 708; (Harvey), XI, b 449–50
Symaron (Maroons), XV, b 569
Symbiosis (Parasitism), XVIII, a 271, a 273–4
Symbiotes, parasites (Veterinary Science), XXIV, b 223
Symbol, term (Numismatics), XVII, b 645
Symbolic Diagrams, VII, b 128–9; method (Infinitesimal Calculus), XIII, a 31 *sq.*
Symbolics (Theology), XXIII, a 296
Symbolic signs (Hieroglyphics), XI, b 709; words (Grammar), a 36
Symbolik (Möhler), XVI, a 629
—— *und Mythologie* (Baur), III, b 387
Symbolism (Luke), XV, b 64; John's (Gospels), X, b 738 note
——, zodiacal (Zodiac), XXIV, b 834–5
Symbols (A), I, a 10; (Abbreviation), b 33, note, a 34 note; (Algebra), b 453, a b 458, a 460; (Logic), XIV, b 809–10
——, Dalton's (Chemistry), V, a 403; elementary (Chemistry), b 404–5, b 408–10
——, floral (Botany), IV, a b 117; sexual (Botany), b 114
Symboulos, officer (Procopius), XIX, b 810
Symbranchidæ, family (Ichthyology), XII, a 673, a 694, b 696, b 698, a 708, b 710, a b 712, a 733
SYME, James, surgeon, XXII a b 849
SYMEON of Durham, chronicler, XXII, b 849–50
SYMEON Metaphrastes, hagiographist, XXII, a 850
SYMMACHUS, pope, XXII, a 850; (Popedom), XIX, a 507, b 523; (Theodoric), XXIII, b 276
SYMMACHUS, Quintus Aurelius, consul, XXII, a b 850; (Ambrose), I, b 582; (Prudentius), XX, a 5
Symmer, Robert, physicist (Electricity), VIII, a b 8
Symmetrical aberration (Wave Theory), XXIV, b 446
Symmetry (Algebra), I, a b 460; (Projection), XIX, b 818–9
—— in Architecture, II, b 334; in art (Japan), XIII, b 599–600
—— in Biology, III, b 590; (Mollusca), XVI, a 656, a 657; (Morphology), a 865, b 870, a b 871
—— in crystals (Crystallography), VI, a 596; (Mineralogy), XVI, b 364, a 366
—— in flowers (Botany) (Ill.), IV, b 114–6; deviations from (Ill.), a 116–8
Symmington, William, inventor (Steam-Engine), XXII, a 496, note
Symonds, John Addington, critic (Anthology), II, *a* b 93; (Pastoral), XVIII, b 350; (Sonnet), XXII, *a* 276. See List of Contributors
Sympathetic Explosion, VIII, b 708; ink (Ink), XIII, a 88
—— system (Anatomy), I, *a* 754, a 755–6; (Physiology), XIX, a b 50; (Reptiles), XX, a 474; disorder of (Ophthalmology), XVII, a 804; (Pathology), XVIII, b 392, b 393
Sympathy, ethical nature of (Schopenhauer), XXI, b 475; theory of (Smith, A.), XXII, b 180, *a* b 181
Sympheropol, city. See SIMFEROPOL
Symphonies (Bach, Karl), III, b 169; (Beethoven), *b* 437, note; (Goetz), X, b 656; (Haydn), XI, *b* 482, a 483; (Mendelssohn), XVI, b 10, a b 12; (Music), XVII, b 102–5; (Raff), XX, b 226; (Schubert), XXI, b 479; (Schumann), *a* 481
Symphytum, genus (Horticulture), XII, a 260
Sympiezometer (Barometer), III, b 330
Symplegades, rocks (Argonauts), II, a 437
Symplesite (Mineralogy), XVI, b 421
Sympodium, axis (Botany), IV, a 83, a b 112
Symposiaca (Plutarch), XIX, a 246
Symposium, Plato's (Æsthetics), I, *b* 193; (Aristophanes), II, b 446; (Plato), XIX, a 208, a 212–3, a b 214, b 216; (Socrates), XXII, a 247; (Xenophon), XXIV, b 757
Symptomatology (Gout), XI, a b 7; (Homœopathy), XII, b 129, a 130; (Phthisis), XVIII, a b 871
Synæca, insect (Wasps), XXIV, b 413
Synagoge of Pappus, XVIII, a 234–5
SYNAGOGUE, assemblage, XXII, b 850–1; (Ezra), VIII, a 728; (Galilee), X, b 26, a b 27; (Jews), XIII, a b 691; The Great (Canon), V, *a* 5
—— system (Christianity), V, a 607
Synanceia, genus (Ichthyology) (Ill.), XII, b 704, a 705
Synangium (Amphibia), I, b 669, b 670–1
Synapheia, rhetorical (Sophocles), XXII, b 287
Synaptase, ferment (Physiology), XIX, b 57
Synapticulæ, bars (Corals), VI, b 332
Synaptidæ, family (Echinodermata) (Ill.), VII, a 550, a *b* 554, *a* 555
Syncellus, George (Apocalyptic Literature), II, *a* b 155, a 156; (Byzantine Historians), IV, b 545
Syncerus, Actius, pseudonym (Sannazaro), XXI, b 280
Synchondroses (Anatomy) (Ill.), I, a 730
Synclinal folds (Geology) (Ill.), X, a b 266, b 269–70, b 280
Syncope (Drowning), VII, a 409; (Heart), XI, b 494; (Surgery), XXII, *a* b 715
Syncoryne (Hydrozoa) (Ill.), XII, a 595
Syncretistic controversy (Calixtus, Georgius), IV, b 626
Syncrypta (Protozoa) (Ill.), XIX, a 880, b 881
Syncytium (Hydrozoa), XII, a 588
Syndic, magistrate (Italy), XIII, b 474
Synecdoche, figure (Rhetoric), XX, b 527
Synechology (Herbart), XI, a 643, note
Synectic function (Variable), XXIV, a 79
Synedra, genus (Diatomaceæ) (Ill.), VII, b 146, a 147

SYNEDRIUM or Sanhedrin Court, XXII, a b 851; (Israel), XIII, a 434, *a* b 435, *b* 436, a 438
Synergist controversy (Lutherans), XV, b 86; (Reformation), XX, b 348
SYNESIUS, of Ptolemais, bishop, XXII, b 851-2; (Dream), VII, b 392-3; (Hymns), XII, *a* 614; (Hypatia), a 631; (Neoplatonism), XVII, a 347, a *b* 348
Synetheres, genus (Mammalia) (Ill.), XV, b 425
Synetherina, group (Porcupine), XIX, b 532, a b 533
Syngeneticæ, order (Vegetable Kingdom), XXIV, b 137, *b* 138
Syngenite (Mineralogy) (Ill.), XVI, a 419
Syngnathidæ, family (Ichthyology), XII, a 699, b 715, a 719, a 733
Syngnathus, genus (Ichthyology), XII, b 675, b 716, *a* 717; (Pipe-Fishes), XIX, b 120-1
Synnada, town (Kara-Hissar), XIV, a 4
Synnöve Solbakken (Norway), XVII, a 606
Synocha, disease (Typhus), XXIII, a 723
Synod (Council), VI, a 453-5
——, Alba Julia, 1770 (Roman Catholic Church), XX, a 647
—— of Bern (Calvin), IV, b 634
—— of Carthage, 416 (Pelagius), XVIII, b 482
—— of Chalcedon, 451 (Leo I.), XIV, a 449
——, Cloveshoe, 747 (England, Church of), VIII, b 332
—— of Diospolis, 415 (Pelagius), XVIII, b 482
SYNOD OF DORT, 1618, VII, a b 324; (Ames, William), I, b 645; (Barneveldt), III, b 327; (Cameron, John), IV, a 656; (Council), VI, b 454; (Creeds), a 500; (Episcopius), VIII, b 437; (Holland), XII, b 81; (Presbyterianism), XIX, a 716
——, Easter, 1049 (Leo IX.), XIV, b 450
—— of Edinburgh, 1557 (Scotland), XXI, b 523
——, Elvira, 306 (Fasting), IX, a 42, note; (Image Worship), XII, b 750
——, English (Presbyterianism), XIX, a 711
—— of Frankfort, 794 (Image Worship), XII, a 752
——, French (Presbyterianism), XIX, b 712, *a* b 713, *b* 714, a 715
—— of Gangra, 860 (Fasting), IX, b 42
—— of Hertford, 673 (England, Church of), VIII, b 332
—— of Hippo, 393 (Fasting), IX, b 42
——, Holy Governing (Greek Church), XI, *b* 140, a 141
——, Illiberis. See Synod, Elvira
——, Langres, 859 (Hincmar), XI, a 747
——, Laodicea (Fasting), IX, a b 42
——, Orleans, 511 (Fasting), IX, a 43; (Litany), XIV, a 702
—— Quierzy, 853 (Hincmar), XI, *a* 747
——, Rimini, 360 (England, Church of), VIII, a 332
——, Rome, 1059 (Berengarius), III, b 505, a 506
——, Sardica, 347 (England, Church of), VIII, a 332
——, Toledo, 653 (Fasting), IX, a 43
——, Valence, 855 (Hincmar), XI, a 747
——, Verulam, 429 (England, Church of), VIII, a 332
——, Zurich (Calvin), IV, a 635
Synods, the Three (Dysart), VII, b 505
Synodontis, fish (Siluridæ) (Ill.), XXII, a b 75
Synonyms, Arabic (Mohammedanism), XVI, b 617
——, effect of in Mythology, XVII, a b 146, a 148
Synoptic Gospels (Jesus Christ), XIII, a 670; critical bibliography of (Gospels), X, b 747-8; external evidence, b 723-8; internal evidence, a 702-23
—— method (Mathematics), XV, b 636
Synostosis, bone-union (Pathology), XVIII, a 382
Synotus, genus (Mammalia), XV, a 415
Synovial membrane (Anatomy), I, b 730, a b 731, a 745; (Hunter, W.), XII, a 408; injuries of (Surgery), XXII, *a b* 720; sacs (Skeleton), b 118
Syntagma Musicum (Prætorius), XIX, a 677
—— *Philosophicum* (Gassendi), X, *a b* 96-7
Syntax (Grammar), XI, b 34, a b 38; (Homer), XII, a b 117, b 125; (Tibet), XXIII, a 369; comparative Aryan (Philology), XVIII, b 803; Latin (Priscian), XIX, a b 765; Old Latin (Romance Languages), XX, b 682; Turkish (Turks), XXIII, b 704
Syntaxis, The Great (Ptolemy), XX, b 92, a 96
Syntengs, race (Jaintia Hills), XIII, *b* 554; (Khasi), XIV, *b* 60
Synthesis (Analysis), I, a 696; chemical, a 698; logical, b 698-9; (Category), V, b 195-6; (Logic), XIV, b 799, b 801, b 808-9; (Metaphysic), XVI, b 102-3; psychological (Analysis), I, b 698; (Condillac), VI, a 223; (Kant), XIII, a 859, b 860, a 862; (Philosophy), XVIII, a b 806; (Psychology), XX, b 56-7
Synthetic judgments (Analytic Judgments), I, *a* 700; (Belief), III, a 460; (Psychology), XX, a 83-5
—— method (Tides), XXIII, a 391-4; prediction (Tides), b 386
Synthetical structure of Prākrits (Hindūstānī), XI, b 750, a 751-2
Syntonin (Fibrin), IX, b 117
Syphax, king (Masinissa), XV, *a* 615; (Numidia), XVII, b 642; (Scipio), XXI, *b* 488
Syphilis, disease (Afghânistân), I, a 208; (Anatomy), a 707; (Guaiacum), XI, b 205; (Hunter, J.), XII, a 404; (Insanity), XIII, b 107, a 108, a 115; (Mercury), XVI, b 39-40; (Ophthalmology), XVII, b 802, b 803, b 805; (Pathology), XVIII, a 399, b 401, a 414-5, b 417 note; (Polynesia), XIX, b 435, a 442; (Surgery), XXII, a 710, b 714, a 721-2; (Vaccination), XXIV, b 31, a b 32; in rickets (Pathology), XVIII, b 381
Syphilitic retinitis, disease (Ophthalmology), XVII, a 806
SYRA or Syros, island and town, XXII, a b 852
—— or Hermopolis, town (Greece), XI, b 76, b 77, a 79, a 80
SYRACUSE, city, XXII, b 852-7
    Agathocles, b 855
    Athenian war, b 853-4
    Diocles and Hermocrates, a b 854
    Dion and Timoleon, a b 855
    Dionysian period, b 854-5
    Hiero II. and Hieronymus, b 855-6
    modern town, b 856-7
    origin, b 852-3
    Roman period, a b 856
    topography, b 852
    tyrants, first, a b 853
—— (Aqueduct), II, b 191; (Carthage), V, a 141; (Catacombs) (Ill.), b 187; (Greece), XI, b 85, a 92, a 94; (Noto), XVII, *a* 612; (Rome), XX, b 765, a 766; (Sicily), XXII, b 21, *a b* 22, *a b* 23, b 24, *a b* 25, *b* 26, b 27, a b 29, *b* 30; (Timoleon), XXIII, b 423-4; coins of (Numismatics), XVII, *b* 647, b 648, a 649, note, a b 650, *a b* 654, *a* 655
SYRACUSE, New York, city, XXII, a 857; (New York), XVII, b 465
SYR-DARIA or Syr Darūnsk, province, XXII, b 858-60; (Russia), XXI, a 74, b 76
SYR-DARIA, river (Sketch), XXII, a 857-8, b 859; (Caspian Sea), V, *b* 157; (Ferghana), IX, b 74, *a* 75; (Turkestan), XXIII, b 674. See Jaxartes
Syrens (Acoustics) (Ill.), I, a b 102, a 109
SYRIA, country, XXII, a 860-3
    Arab population, b 862
    authorities, b 863
    boundaries, a 860
    commercial features, a b 863
    Greek period, b 861-2
    Mohammedan rule, a b 862
    natural features, b 860-1
    orography, a b 860
    population, a b 861, b 862, a 863
SYRIA, *continued*
    religions, b 862-3
    rivers, b 860
    Roman period, a 862
—— (Arabia), II, b 224-5; (Asia), b 599; (Egypt), VII, b 639, a b 664; (Germanicus), X, a 401; (Greece), XI, a b 94; (Greek Church), a 138, a 139; (Ibrahim Pasha), XII, a 645; (Ichthyology), a 713; (Lebanon), XIV, a 392-3; (Mohammedanism), XVI, a b 588, b 604, b 608; (Mongols), a 769; (Napoleon I.), XVII, a 208; (Numismatics), a b 666; (Seljuks), XXI, b 667-8; (Turkey), XXIII, b 691, a b 695
Syriac language (Aramaic Languages), II, b 269, a 270; Aramaic dialect (Semitic Languages), XXI, a b 681
—— Dictionaries, VII, b 164
SYRIAC LITERATURE, XXII, a 863-901
    Aaron var Ma ‘dani, b 897-8
    ‘Abhd-ishō‘bar Bārīkhā, b 900-1
    Apocrypha, a 864, b 866
    ascetic writers, sixth century, a 877-8
    Bābhai the archimandrite and contemporaries, b 884-5
    Bardesānes to Ephraem Syrus, a 867-8
    Bar-Hebræus and contemporaries, a 898-900
    characteristics, a 863
    chronicles, sixth century, a b 876-7
    Civil Laws of the Emperors, b 875-6
    Cyprian of Nisibis, a 888
    Dionysius Tell Mahrēyā, times of, b 888-9
    disciples of Ephraem Syrus, a b 868
    eighth century, a 887-8
    eleventh century, a 892-5
    Elias bar Shīnāyā, and times, a b 894
    fifth century, b 868-72
    folk-lore from the Arabic, b 894-5
    fourth century, a b 868
    George, bishop of Arabs, and contemporaries, b 883-4
    Græco-Persian war period, b 880
    grammarians, ninth century, a 891
    Greek translations, fifth century, a b 871
    Gūbōs, school of, a b 892
    Hannānā, school of, b 879-80
    Hĕnānīshō‘ the Elder, b 886-7
    historians, eighth century, b 888
    Honain ibn Ishāk and contemporaries, b 890-1
    Isaac of Antioch and contemporaries, a 870-1
    Isaac of Nineveh, b 877
    Ishō‘bar Nōn and disciples, b 891

SYRIAC LITERATURE, *continued*
  Ishō'yabh of Hĕdhanjabb and contemporaries, b 885-6
  Jacob or Dionysius bar Salībī, b 895-6
  Jacob of Edessa and associates, b 881-93
  Jacob of Serugh and contemporaries, a b 872-4
  Jacobite Church, founding of, a b 874
  Jacobite writers of ninth century, b 888-90
  John of Asia, b 876-7
  John of Harrān, a b 895
  Justin I., emperor, reign of, a 874
  Malkite *Bible*, b 865
  Mār-abha I. and contemporaries, a 878-9
  Mārūthā of Taghrīth and contemporaries, b 880-1
  Massoretic manuscripts, b 865-6
  Michael the Elder, patriarch, a 896
  Mohammedan conquest of Syria, a b 881
  Monophysite *Bible*, a b 865
    schism, b 871-4
  Moses bar Kāphā, a b 890
  Nestorian schism, a b 869; sixth century, b 879-81
    writers of seventh and eighth centuries, b 884-8
    writers, ninth century, b 890-2
  New Testament, first version, a 864-5
  ninth century, b 888-92
  Old Testament, first version, b 863-4
  Paul the Persian and Bōdh, a b 879
  Pĕshīttā, b 863-5
  Philoxenus of Mabbōgh, b 872-3
  Saints and Martyrs, fifth century, *Lives of*, b 868-9
  Sergius of Rās'ain and contemporaries, b 874-5
  seventh century, b 880-7
  service-books, b 866
  Severus bar Shakkō, b 897
  Simeon of Bēth Arsham, times of, b 873
  sixth century, a 872-9
  song-writers of thirteenth century, Nestorians, b 900
  tenth century, a 892
  Theodore bar Wahbōn, a b 896
  thirteenth century, a 897-901
  Thomas of Margā, b 891-2
  Timothy I., catholicus, a b 888
  twelfth century, a 895-7

—— (Bible), III, a b 559; (Cureton), VI, a 627; (Martyrology), XV, b 594; (Psalms), XX, a 39
—— manuscripts (Libraries), XIV, a 515; (Palæography), XVIII, b 166; printing (Typography), XXIII, a 740
Syriam, fortress (Burmah), IV, b 496, b 497
Syrian Bear, III, a 399; Christians (France), IX, b 550; church, early (James), XIII, b 564; Costume (Ill.), VI, b 406-7; gates (Cilicia), V, b 679; Gnosticism, X, *a* 628; Goat, X, b 631-2
Syrian Goddess (Lucian), XV, a 46
—— hajj (Caravan), V, *a* b 75; horses (Arabia), II, b 210; invasions (Isaiah), XIII, b 388, a 389; (Israel), b 416, a 417, *a* 418, b 422, b 432-3; mallow (Gumbo), XI, b 244; Numerals, XVII, a b 640; orthography (Syriac Literature), XXII, b 882-3; Pilgrimages, XIX, a 100; schools (Syriac Literature), XXII, a 866; system of Weights and Measures, XXIV, b 512; year (Chronology), V, b 620, a 621
Syringa, genus of plants (Lilac), XIV, a 647
Syringing plants (Horticulture), XII, b 216, b 239
Syringopora (Corals), VI, a 334, a b 337
Syrinx of Birds, III, b 629, a 630; (Ornithology), XVIII, b 32; (Pitta), XIX, a 159
Syrlin, Jòrg, sculptor (Sculpture), XXI, a 592; (Wood-Carving), XXIV, a 683
Syro-Chaldean Romanists (Roman Catholic Church), XX, b 646-7
Syro-Phœnician woman, story of the (Gospels), X, a b 708
Syrrhaptes, genus (Sand-Grouse), XXI, *a* b 271, note
Syssitia, public tables (Crete), VI, a 505 note; (Lycurgus), XV, a 98
Systema Naturæ (Linnæus), XIV, b 679; (Ichthyology), XII, b 668; (Ornithology), XVIII, b 8-9, *a* 11; (Parasitism), a 262; (Zoology), XXIV, b 843
—— *Saturnium*, Huygens (Micrometer), XVI, b 251
—— *Theologicum* (Leibnitz), XIV, a 420, note
Systematic theology (Dogmatic), VII, a 289; (Theology), XXIII, a 287-8, a 294
System der gesammten Philosophie (Schelling), XXI, *a* 410
Système de la Nature (Holbach), XII, b 55
—— *du Monde* (Laplace), XIV, a b 302, b 304
System of Acquired Rights (Lassalle), XIV, a 321, b 322
System of points, displacement of (Mechanics), XV, a 704-5
Systems of forces, parallel projections of (Mechanics), XV, a b 760
Systole, defined (Vascular System), XXIV, a 108-11; arterial, a b 113
Systems of Rays (Hamilton, Sir W. R.), XI, a *b* 377
"Syttendemai-Poesi," poetry (Norway), XVII, b 604
Syv, Peder, author (Denmark), VII, b 79; (Scandinavian Languages), XXI, a 390
SYZRAN, town, XXII, a 901
Syzygies, lunar (Astronomy), II, b 697; (Gravitation), XI, b 68
Syzygium (Protozoa) (Ill.), XIX, a 878, b 879, b 888
Szabács Rhapsody (Hungary), XII, a 391, note
SZABADKA, town, XXII, a 901; (Hungary), XII, b 379
Szaboite (Mineralogy) (Ill.), XVI, a 435
Szaibelyite (Mineralogy), XVI, a 413
Szajnocha, Karl, historian (Poland), XIX, b 316
Szalay, Ladislaus, historian (Hungary), XII, *a* 395
Szamos river (Transylvania), XXIII, a 555
SZAREAS, town, XXII, a 901
Szarzynski, poet (Poland), XIX, b 312
Szász, Charles, poet (Hungary), XII, b 393-4
SZATMÁR-NÉMETI, town, XXII, a b 901
Szathmáry, Joseph, dramatist (Hungary), XII, a 394
Szczewo, town (Dirschau), VII, a 224
Széchenyi, Stephen, count (Hungary), XII, *b* 385, a 386, a 393 note
Sze-chuen, province (China), V, b 547, a b 548, *a b* 554-5, a 560, b 561, b 562, a 564; (Gas-Lighting), X, a 79; (Tibet), XXIII, *a* b 364; Opium, XVII, *a* 814
Szécsi, Maria, heroine (Gyöngyösi), XI, b 313
SZEGEDIN or Szeged, town, XXII, b 901; (Hungary), XII, b 377, b 379, a b 389; (River Engineering), XX, a 588
Székely, chronicler (Hungary), XII, a 391
Szeklers, race (Transylvania), XXIII, b 555
Szekso deposits (Sodium), XXII, a 253
Sze-ma, family (China), V, a b 560
—— Tseen, historian (China), V, a 577
Szemere, Paul, poet (Hungary), XII, *b* 392
—— ministry (Hungary), XII, a b 387
Szen, Hungarian player (Chess), V, *a* 523
SZENTES, town, XXII, a 902
SZIGET, town, XXII, a. *b* 902
Szigligeti, Edward, dramatist (Hungary), XII, a 394
Szilagyi, Alexander, historian (Hungary), XII, a 395
Szlachta (Poland), XIX, b 297
SZOLNOK, town, XXII, b 902
Szózat, national hymn (Hungary), XII, a 393
Szujski, historian (Poland), XIX, b 316
Szymonowicz, Simon, poet (Poland), XIX, b 312
T, letter, XXIII, a b 5
Taal, volcano (Philippines), XVIII, b 762, a 763
Taas, pagodas (Architecture), II, b 392-3
Taban, tree (Gutta Percha), XI, b 301, note
Tabaqát-i-Násirí (Gaur), X, a b 102
Tabard, herald's coat (Arms, etc.), II, a 488; (Costume), VI, a 417
TABARI, Abú Já'far Mohammed, and Early Arab Historians, XXIII, b 5-9
  Annals of Tabarí, a b 8
  first two Islam centuries, a b 6, a 7
  fourth to eleventh Islam centuries, b 8-9
  historical romances, a b 9
  Mohammed's influence, a 6
  Tabarí, works of, b 7-8
  third century, a 6-7
  tradition, method of, b 5-6
  Wákidí and Madáiní, b 6-7

—— (Mohammedanism), XVI, b 587, a 588, a 628; (Persia), XVIII, b 668; (Syriac Literature), XXII, a 876
Tabarinades, plays (Drama), VII, b 366
Tabariya, town. See Tiberias
Tabarrak, castle (Ispahán), XIII, a 405
Tabasco, state (Mexico), XVI, a 223
Tabasheer or Tabaxir, drug (Bamboo), III, a 264; (Grasses), XI, b 48
Tabellæ, Roman (Ballot), III, b 249
Tabennæ, island (Abbey), I, a 17; (Monachism), XVI, a b 726, a 741
Tabergite (Mineralogy), XVI, b 431
TABERNACLE, sanctuary, XXIII, b 9-10; (Pentateuch), XVIII, b 520; offices (Levites), XIV, a 488
—— in ecclesiastical Architecture, II, b 417-8
——, boat's defined (Seamanship), XXI, b 634
TABERNACLES, FEAST OF, XXIII, a b 10
Tabernariæ, plays (Drama), VII, a 356
Tabes dorsalis, disease (Pathology), XVIII, a b 401
Tâbghah springs (Galilee), X, b 27, a 28
Tabinet, fabric (Poplin), XIX a 527
Tablat, commune (St. Gall), XXI, b 177
Table in Furniture, IX, a 747; Billiards, III, b 583-4
Tableau des Vices de la Constitution d'Angleterre (Marat), XV, a 534
—— *Economique* (Political Economy), XIX, a 374; (Quesnay), XX, b 183
Table bay (Cape Colony), V, a 39, b 41, b 45
Table-Book (Hone), XII, a 139
Table-cut (Diamond) (Ill.), VII, a b 143

Table-lands (Geology), X, a b 332-3; South African, I, b 224; (India), XII, a b 771, b 776; (Labrador), XIV, b 175-6; (Mexico), XVI, b 223, b 225-6; of Tibet, XXIII, a b 360-3; (Himalaya), XI, a b 734, a b 735, b 737-8, b 739, b 740-2
—— Mountain (Africa), I, a 225; (Cape Colony), V, a 38, b 39, b 45
—— of Patents, XVIII, b 883-4
—— Rock (Niagara), XVII, *a* 486
—— Rock (South Carolina), XXII, a 301
TABLES, MATHEMATICAL, XXIII, b 10-20
  antilogarithms, a 17, b 18
  bibliography, a 20
  coefficients, a 18, a 19
  collections of, b 15-6
  common or Briggian logarithms, a 14-5, a 17
  constants, a 18
  definition, b 10-1
  divisors and primes, b 11-2
  dual logarithms, b 17-8
  elliptic functions, a 19
  fractions, vulgar and decimal, b 12-3, a b 18
  Gaussian logarithms, a b 17
  integrals, special, b 19-20
  interpolation, b 17
  logarithmic canon, a b 15
  logistic and proportional logarithms, b 17
  miscellaneous, a 18-9
  multiplication, a 12
  Napierian logarithms, b 16-7
  reciprocals, b 12
  sexagesimal and sexcentenary, a 13
  squares, quarter-squares and cubes, a b 12
  theory of numbers, a 20
  triangular numbers, b 12
  trigonometrical, a 13-4
  value of, a b 11
—— *du Cadastre* (Logarithms), XIV, a *b* 783, b 787
—— Statistical, XXII, a b 482
——, The XII., (Latin), XIV, a 329; (Roman Law), XX, a 697-8
Table Talk, Coleridge, VI, b 123-4; Luther's XV, b 85, b 857; (Ana), I, b 689; Selden's, XXI, b 663; (Ana), I, b 689
Tablet of Abydos, I, a 61; (Egypt), VII, b 636, a 673
Table tomb (Catacombs) (Ill.), V, b 182
Tablets (Book), IV, a 34; Babylonian twelve (Zodiac), XXIV, a 831; classical (Palæography), XVIII, a 148, a 151, a 153, a b 158-9; of Heraclea, XI, b 606; sculptured (Antoninus, Wall of), II, *b* 123; writing (Diptychs), VII, b 223-4
TABOO or Tabu, religious prohibition, XXIII, a 20-3
  artificial kinds of, a b 20, b 21
  diffusion of, a 22-3
  Greeks, b 22-3
  Jews, b 22
  literature, b 23
  natural kinds of, a b 21
  penalties, b 20-1
  removal of, b 21
  Romans, a b 23
  social effects of, b 22-3
—— (Hawaiian Islands), XI, b 471-2; (Madagascar), XV, b 172; (Micronesia), XVI, b 267; (New Guinea), XVII, a 398; (New Zealand), b 484; (Polynesia), XIX, b 439-40; (Religions), XX, a b 377; (Tales), XXIII, b 33; (Totemism), b 497-8
Táboot, water-wheel (Egypt), VII, a 614
Tabor, instrument of music (Pipe), XIX, *b* 119
Tabor, Mount (Alps), I, b 545, b 548
——, Mount (Galilee), X, a 26; (Hesychasts), XI, *a* 699; (Palestine), XVIII, b 175, a 176
Taborites, sect (Hussites), XII, *a* 423; (Moravian Brethren), XVI, b 837
Tabraca, harbor (Tripoli), XXIII, b 611
Tabras strait (Singapore), XXII, a 100
TABRIZ or Tabreez, city, XXIII, b 23-4; (Mongols), XVI, a 774; (Persia), XVIII, a 647, a 648, b 659; marble of (Urmia), XXIV, a 17
Tabula (Lection), XIV, b 398
—— *Bantina* (Italy), XIII, a 455
—— *benefica* (Tables), XXIII, a 13
—— *Cebetis* (Cebes), V, a 245
Tabulæ, plates (Corals), VI, b 332, b 333, b 337, b 339, *a* 340
Tabula Peutingeriana (Itinerarium), XIII, b 527-8; (Map), XV, b 524
Tabularium of Capitol (Rome) (Ill.), XX, a *b* 827, b 839 note, a b 845, notes
Tabular Logarithms, XIV, b 779-80
Tabulata, group of Actinozoa. See Millepores
Tabulatur, rules (Germany), X, a 471
Tacamahac, tree (Poplar), XIX, b 526-7
Tacarigua, Lagoon of (Valencia), XXIV, b 40
Tachhydrite (Mineralogy), XVI, a 400
Tachim, river (Siam), XXI, *a* 890
Tachoktsangpo, river (Asia), II, b 598; (Himalaya), XI, b 734
Tachos or Teos, king (Egypt), VII, a 645; (Persia), XVIII, b 590-1
Tachyglossus, genus (Echidna), VII, a 544; (Mammalia), XV, b 380, note
Tachygraphy (Palæography) XVIII, a b 168. See SHORTHAND
TACITUS, Caius Cornelius, historian, XXIII, a 24-5; (Agricola, Cn. J.), I, b 258; (Annals), II, b 54; (Brewing), IV, a 236; (Caledonia), *b* 588, a 589; (Claudius Germanicus), V, *a* 714; (Davanzati Bostichi), VI, a 735; (Druidism), VII, b 412; (Ethnography), VIII, a 550; (Galba), X, *a* 21; (Germanicus), b 400, b 401; (Germany), *a* 425, *a* 426, a 467; (Goths), *a* 753; (History), XII, a b 22, a 23; (Jesus Christ), XIII, b 668; (Juvenal), *a* b 817, a 818; (Land), XIV, a 262; (Latin Language), a b 338; (Lipsius), a b 692; (Persia), XVIII, b 612, b 613 note; (Peter), b 710; (Petronius), a b 734, a 735; (Roman Literature), XX, b 745-6; (Rome), b 825, a 830; (Scotland), XXI, a 494; (Tiberius), XXIII, b 356, b 358; (Trajan), b 535, note
TACITUS, Marcus Claudius, Roman emperor, XXIII, b 25-6; (Probus), XIX, a 810; (Rome), XX, b 790, b 791, a 795; (Vespasian), XXIV, *b* 207, *a* 208
Tacking (Seamanship), XXI, b 628, a b 629
Tackle in Mechanics, XV, b 772
——, Fishing (Angling), II, b 40-1
Tacks (Nails), XVII, b 172
Taconic range, mountains (Massachusetts), XV, a 618
Tacsonia, plant (Passion Flower), XVIII, a 348
Tactics, Military (Army), II, b 494, a b 495, a b 497, b 521, b 529, b 532; (Artillery), b 573, a 576, a b 577, a b 578, a 583-5; (Folard), IX, a 311; (Gustavus Adolphus), XI, a 299; (War), XXIV, b 365, *a* 367, a 374-84; Greek (Chabrias), V, a 322; (Macedonian Empire), XV, a 141
Tactile corpuscles of Merkel (Touch), XXIII, a 509; organs (Touch), a b 508; sense (Heat), XI, a 495, note
Tacullies, people (Mythology), XVII, b 163
Tadcaster, town (York), XXIV, a b 784
Tadini, battle of, 552 (Narses), XVII, b 239
Tadinum, town (Gualdo Tadino), XI, b 205
Tadjem mountain (Billiton), III, b 586
Tadjiks, race. See Tajak
Tadmor, city and oasis. See PALMYRA
Tadorna, genus of birds (Sheldrake), XXI, a b 825, note
Tadousac, village (Canada), IV, b 679; (Quebec), XX, b 171, a 173
Tadpole (Amphibia), I, b 673, b 674-5, *a* 676; (Frog), IX, b 698; (Touch), XXIII, a 509; ascidian (Vertebrata), XXIV, b 193-4, a 201, a 202, a 203
Tae, mountains (China), V, a 548
Tael, coin and weight (Canton), V, b 34, a 35; (Weights and Measures), XXIV, a b 518
Tænarus, mountains (Greece), XI, a 74
Tænia, genus of Tape-worm (Ill.), XXIII, b 54, a 55-8, a b 59, b 60, a 61; (Veterinary Science), XXIV, b 222, *a b* 223
—— hippocampi (Anatomy), I, b 758, a 768, a b 769, a 772
Tæniatæ, group (Actinozoa), I, b 122
Tænioglossa, genus (Mollusca) (Ill.), XVI, b 663, b 672, a 673
Tæniopus, genus of insects (Wheat), XXIV, a 565
Tae-yuen Foo, capital (China), V, 551
Tafel, Johann Friedrich Immanuel, bibliographer (Swedenborg), XXII, b 798
Taff, river (Brecon), IV, a 218; (Carmarthen), V, b 101; (Glamorgan), X, *b* 564, a 565
Taffeta, fabric (Textiles), XXIII, b 228
Tafia, liquor (Rum), XXI, b 64
TAFILELT, oasis, XXIII, a 26; (Morocco), XVI, b 856
Tafnekht or Tnephachthos, king (Egypt), VII, a b 643
Tafsír, commentary on Koran (Persia), XVIII, b 668
Tagal, town (Java), XIII, a 617
Tagala Dictionaries, VII, b 166
Tagalé range (Soudan), XXII, *a* 291
Tagals, tribe (Philippine Islands), XVIII, b 766, a 767
Taganai, mountain (Ufa), XXIII, a 764; (Ural Mountains), XXIV, b 8
TAGANROG, port, XXIII, a 26; (Black Sea), III, b 691
Tagao river (Afghânistân), I, a 205; valley (Hindú Kúsh), XI, b 748
Tages, dwarf (Etruria), VIII, a 557
Tagetes, genus (Marigold), XV, *a* 551
Taget öfver Bält (Sweden), XXII, a 794
Taggia, river (Italy), XIII, b 446
Tagharma, peak (Oxus), XVIII, a 107; (Turkestan), XXIII, b 678
Taghil, town (Nijne-Taghilsk), XVII, b 513
Taghlak dynasty (Delhi), VII, a 43
Tagilite (Mineralogy), XVI, a 423
Tagliabue fire-test (Petroleum), XVIII, b 892
TAGLIACOZZI, Gasparo, surgeon, XXIII, a b 26
Tagliamento river (Alps), I, a 547; (Italy), XIII, a 446
TAGLIONI, Marie, dancer, XXIII, b 26
TAGUS, river, XXIII, b 26-7; (Estremadura), VIII, *b* 497; (Guadalajara), XI, b 202; (Lisbon), XIV, *b* 696, a 697; (Portugal), XIX, b 551, a 552; (Spain), XXII, b 308, a 309, a 310

Ta-hang mountains (China), V, a 548
Tahawus, mountain (Appalachian Mountains), II, b 175; (United States), XXIII, a 842
Táhir b. Hosain, general (Mohammedanism), XVI, b 605, a 606; (Persia), XVIII, a 668
—— Pasha (Egypt), VII, a 660
TAHITI ARCHIPELAGO, XXIII, a 27–30
  climate, a 28
  geography, a 27–8
  history, b 29–30
  inhabitants, b 28–9
  literature, b 30
  natural history, a b 28
  position of, a 27
  trade features, a 28
—— (France), IX, a 547; Dance, VI, a 547; royalty in (Taboo), XXIII, b 20, a 21
Tahitian Dictionaries, VII, b 167
Tahiti barrier reef (Pacific Ocean) (Ill.), XVIII, b 132, b 133
Tahlequah, town (Cherokees), V, a 509; (Indian Territory), XII, b 875
Tahmásp I., sháh (Persia), XVIII, b 647–8
—— II., sháh (Persia), XVIII, b 651–2, b 654
Tahoe, lake (California), IV, a 617, a b 618; (Nevada), XVII, a b 376
Tahraka, king (Egypt), VII, *b* 643–4
Tahsíl, sub-division (India), XII, a b 808
Tahsīnuddīn, author (Hindustani Literature), XI, a 757
Tahureau, Jacques, poet (France), IX, a 573
Tai, fish (Japan), XIII, b 585
Tai or Tai-hoo, lake (China), V, b 548, a 550, *a* 552
——, race (Malay Peninsula), XV, a b 325
Tai-chang, Ming emperor (China), V, b 563
Taif, district (Arabia), II, a 207, a 221, a b 228; town (Mecca), XV, b 676; (Mohammedanism), XVI, b 569, a 571, a 574, b 578, a b 582, b 583
Taiga, region (Siberia), XXII, b 7
Tai-gan-shan, town (China), V, *b* 550
Taikô, title (Japan), XIII, b 592
Taikosama, emperor, Japan (China), V, b 563; (Corea), VI, a 350; (Japan), XIII, b 592
Taikun or tycoon, title (Japan), XIII, a 594
Tail (Anatomy), I, b 720; (Ichthyology), XII, b 673; (Lizard), XIV, b 738–9; (Megatherium), XV, a 838, a 839; muscles of (Reptiles), XX, a 469; larval (Tunicata), XXIII, b 652, a b 653; prehensile (Ape), II, a 134, b 137, b 140, b 143
Táï'li-amr-illáh, caliph (Mohammedanism), XVI, a 610
Taille, land tax (France), IX, b 524
——, J. de la, dramatist (Drama), VII, *a* 366, note
Taillefer, minstrel (Drama), VII, b 357
Tailor Bird (Warbler), XXIV, b 387–8; nest of (Birds), III, a 669
Tail piece (Microscope), XVI, a 282, b 288
Tail race (Hydromechanics), XII, b 549, b 562
Tail-rope traction (Coal), VI, a 65
Tailti (Ireland), XIII, b 250, note
Taimúnis, tribes (Ghúr), X, a 509; (Herat), XI, *b* 638
Taimyr, peninsula (Siberia), XXII, a 10; (Yeniseisk), XXIV, *a* 779, *a* 780
Táin Bó Cuailnge, tale (Celtic Literature), V, *b* 269, *a* 270, b 271, a 282
Taine, Hippolyte Adolphe, critic (Æsthetics), I, b 198; (Byron), IV, a b 539; (Edgeworth, Maria), VII, a 568; (Fine Arts), IX, b 183, a b 186; (France), a 593, b 597, *b* 598; (Pope), XIX, a 499
Tainter, Sumner, inventor (Telephone), XXIII, b 140, a 930 note
Tai-ping rebellion (China), V, a 552, a b 566; (K'ai-Fung Foo), XIII, a 833; (Kew-Keang Foo), XIV, b 57; (Shanghai), XXI, b 808–9; (Su-Chow), XXII, a 650
Taira, clan (Japan), XIII, *b* 591, a 597
Tai-shan mountains (China), V, b 550
Tait, Archibald Campbell, archbishop, *b.* 1811, *d.* 1882 (Carlisle), V, a 97
——, Lawson, physician (Insectivorous Plants), XIII, b 142, b 145, b 147; (Surgery), XXII, *b* 726
——, Peter Guthrie, physicist (Calculating Machines), IV, a 582; (Electricity), VIII, b 11, a 14, b 18 note, b 28, a 91–2; (Energy), b 188; (Geology), X, *b* 202; (Gyroscope), XI, b 315, b 316; (Harmonic Analysis), b 430, a 431; (Heat), *a b* 518; (Knot), XIV, b 128–9; (Meteorology), XVI, a 191; (Ozone), XVIII, a b 117. See List of Contributors
Tait's Edinburgh Magazine (Periodicals), XVIII, a 548
Tai-tsoo I., Leang dynasty (China), V, b 561
—— II., emperor (China), V, b 561
Tai-tsung I., Tang dynasty (China), V, a 561
—— II., Tang dynasty (China), V, a 561; (Hwen Tsang), XII, a 434, a 435; (Se-gan Foo), XXI, a 653 note
Taittiríya school (Sanskrit), XXI, *b* 291, b 292
Tai-wan, island. See FORMOSA
—— or Taiwanfu, city (China), V, a b 553; (Formosa), IX, a b 367, *a* 368
TAJAK or Tajik, people, XXIII, a b 30; (Afghânistân), I, a b 211, a 214, b 218; (Bokhara), IV, a b 3; (Hindú Kúsh), XI, a 749; (Hissar), XII, b 5; (Khiva), XIV, a 66; (Khorásán), a 69; (Turkestan), XXIII, b 677
Tajand, river (Persia), XVIII, *a* 629, a 631, b 637
Táj et'Arús, lexicon (Lane), XIV, b 282–3
Tajik, tribes. See TAJAK
Táj Mahál, mausoleum (Agra), I, a 256; (India), XII, a b 834; (Inlaying), XIII, b 88; (Marble), XV, a 537; (Mosaic), XVI, b 881
Tajumulco, volcano (Guatemala), XI, a 212
Tajurra bay (Somali), XXII, b 268
Táká, province (Nubia), XVII, b 625–6
Takalla, department (Celebes), V, b 250–1
Takash, shah (Turks), XXIII, b 702
Ta Keang, river (China), V, b 548
Takhas, Takkas or Takshaks, race (India), XII, a 826, note, *a* 830; (Punjab), XX, b 116
Takhtapul, town (Afghânistân), I, a 218
Takht-i-Suleiman, hill (Ecbatana), VII, b 537; peak (India), XII, a 770; (Punjab), XX, b 113
Taki, city (India), XII, a 830, note
Taking a Buck, painting (Landseer), XIV, a b 281
Takla-makan, desert (Turkestan), XXIII, a 679
Takpa dialect (Tibet), XXIII, b 368
Taksony, duke (Hungary), XII, *a* b 382
Taku forts (China), V, *a* b 566
Takyrs, clay plains (Transcaspian), XXIII, a 544
Tálághát, district (Salem), XXI, a b 220
Talamanca Indians (Costa Rica), VI, a 398
Talang, volcaño (Sumatra), XXII, a 672
Talanti channel (Greece), XI, b 74
Talas, river (Syr-Daria), XXII, b 858
Talas Ala-tau, mountains (Syr-Daria), XXII, b 858, a 859
Talauma, tree (Porto Rico), XIX, a 547
Talavakara-brahmana (Sanskrit), XXI, a 291
TALAVERA de la Reina, town, XXIII, b 30; battle, 1809 (Toledo), b 463; (Wellington), XXIV, *a* b 523
TALBOT, family of, XXIII, b 30–2
——, Edward, bishop (Butler, Bishop), IV, a 519
——, Sir Gilbert of Grafton, XXIII, b 31
——, Gilbert, lord, warrior, XXIII, a 31
——, Gilbert, soldier, XXIII, b 30
——, John, earl of Shrewsbury. See SHREWSBURY
TALBOT, John, missionary, XXIII, a 919
——, Richard, ancestor, XXIII, b 30
——, Richard, lord, XXIII, b 30
——, Richard, earl of Tyrconnel, warrior, XXIII, b 30–1; (Ireland), XIII, a 274
——, William, bishop, XXIII, a 32
TALBOT, William Henry Fox, scientist, XXIII, a 32; (Light), XIV, *b* 606, b 619; (Photography), XVIII, a 837, a 838; (Wave Theory), XXIV, a 445, a 469 note; his bands of light (Wave Theory), b 465–6; his process of Photography, XVIII, a 836, a 837; of photo-engraving (Photography), a b 847
Talbotype (Photography), XVIII, a 836, a 837
Talc, mineral (Geology), X, b 203; (Magnesia), XV, b 218; (Mineralogy), XVI, a 385, a 387, a b 393, b 394, a 432; Chinese (Mining), a 493
TALCA, town, XXIII, a 32; province and town (Chili), V, *a* b 535, a b 536, *b* 539, *a* 540
Talcahuano, town (Chili), V, b 535, b 542
Talcher fossil group (India), XII, a 775
Talcosite (Mineralogy), XVI, a 443
Talcott, Andrew, astronomer (Surveys), XXII, a 939
Talc-schist (Geology), X, b 211
Ta-le Foo, district (China), V, *a* 555, a 556
Talent, weight and money (Numismatics), XVII, b 646–7; (Weights and Measures), XXIV, a 510, *a* 513, a 514
Tale of a Tub (Swift), XXII, *a* b 801
Talequah, town. See Tahlequah
TALES or stories, XXIII, a 32–4; (Sanskrit), XXI, a 301. See FOLK-LORE and ROMANCE
——, American (Hall, James), XI, b 347–8; Arab (Tabarí), XXIII, a 6; French (Murget), XVII, a 61; (Nodier), a 545; Irish (Celtic Literature), V, b 268–71, a b 282; Italian (Bandello), III, a 268; Welsh (Celtic Literature), V, b 278–80
Tales of Fashionable Life (Edgeworth, Maria), VII, a b 567
Taleton, mountain (Laconia), XIV, a 194
TALFOURD, Sir Thomas Noon, author, XXIII, a b 34; (Copyright), VI, a 318, a 319; (Drama), VII, a 379
Talh, tree (Mimosa), XVI, b 357
Taliacotius. See TAGLIACOZZI
Taliessin, Book of (Celtic Literature), V, a 273, *b* 274, a b 275, a b 276, a 279, b 284
Tâlikân, town (Afghânistân), I, b 217
Talipat. See Talipot
Talipes, deformity (Club-Foot), VI, a b 41
Talipot Palm, XVIII, b 195; (Fibres), IX, a 116

- Talish mountains (Azerbijan), III, b 145
- Talisman (Amulet), I, b 685; (Magic Square), XV, a 214; (Numismatics), XVII, a 680
- Talitrus (Crustacea), VI, b 567, b 568, a 579, a 585
- TALLAGE, tax, XXIII, b 34; (Ireland), XIII, a 266
- Tallaght (Ireland), XIII, a 249
- Tallahassee, town (Florida), IX, a b 297
- Tallard, Camille d'Hostun, Duc de, marshal (France), IX, *b* 512
- Tallegallus, genus (Megapode), XV, b 836
- Tallemant des Réaux, François, author (Sully), XXII, a 667
- TALLEYRAND DE PERIGORD, Charles Maurice, statesman, XXIII, a 35-7
  - Directory period, a b 36
  - English envoy period, b 35-6
  - literature, b 37
  - Napoleonic administrations, b 36-7
  - restoration and last years, a b 37
  - revolution period, a 35-6
  - youth and church life, a 35
- —— (Apostasy), II, a 170; (Beard), III, b 400; (Cobbett), VI, b 77; (Gallatin), X, b 36; (Hamilton, A.), XI, b 369, a 370; (Mirabeau), XVI, a 519, b 520; (Napoleon I.), XVII, b 208, a 209, b 218, *b* 228; (Newark), b 380
- Talliage, tax. See Tallage
- TALLIEN, Jean Lambert, politician, XXIII, b 37-8
- ——, Thérèse, princess (Cabarrus), IV, b 548
- Tallies, plant labels (Horticulture), XII, a 240
- ——, accounts kept by (Tallage), XXIII, b 34
- Tallingite (Mineralogy), XVI, b 400
- TALLIS or TALLYS, Thomas, musician, XXIII, b 38
- Tallith, prayer-scarf (Phylactery), XIX, a 5
- TALLMADGE, Benjamin, colonel, XXIII, a 919
- TALLMADGE, Frederick Augustus, judge, XXIII, a 919
- TALLMADGE, James, merchant, XXIII, b 919
- TALLOW, fat, XXIII, b 39-40; (Agriculture), I, a 311; (Candles), IV, *b* 708; (Fuel), IX, a 709; (Oils), XVII, b 764, b 765; mineral (Mineralogy), XVI, b 447; whale (Whale Oils), XXIV, b 558
- Tallulah Falls (Georgia), X, b 393
- TALMA, Joseph François, tragedian, XXIII, a 40; (Drama), VII, a 368, a b 369; (Marat), XV, b 534
- TALMUD, XXIII, a 40-4
  - aids to the study, b 42-3
  - editions, a b 43
  - editors, b 41-2
  - recensions, b 40-1
  - signification, a b 40
- TALMUD, *continued*
  - system and aim of, a b 41
  - value and vicissitudes, a 42, b 43
  - Western learning, b 43-4
- —— (Adam), I, b 127; (Akiba, Ben Joseph), I, a 387; (Asche), II, a 593; (Canon), V, b 4, a 5, b 6; (Decalogue), VII, a 16; (Deutsch), *a* 116; (Eschatology), VIII, a 475, note; (Eve), a 643; (Excommunication), b 698-9; (Ezekiel), b 725, b 726; (Hillel), XI, *a* b 732; (Israel), XIII, b 438-9, a 441; (Jesus Christ), b 669; (Jews), *a* 692, *b* 697; (Job), a 714; (Maimonides), XV, a b 298; (Midrash), XVI, a 298; (Mishnah), a 526-31; (Paradise), XVIII, b 240; (Rashbam), XX, a 296; (Rashi), a b 297, notes; (Riph), b 581; (Rosh), a 875, note; Palestinian (Mishnah), XVI, a 528, a 529
- Talmudic dialects (Aramaic Languages), II, a 270; doctors (Hebrew Language and Literature), XI, b 535, a 536
- Ta-loo-tsze Hoo, lake (China), V, b 550
- Talpa, genus (Mammalia), XV, b 356; (Mole), XVI, b 630-2
- Tál pass (India), XII, b 770
- Talpidæ, family (Mammalia), XV, b 407-8, b 409; (Mole), XVI, b 630-2
- Talpúr dynasty (Sind), XXII, b 99; (Thar and Párkar), XXIII, b 239
- Talsarn, mountains (Brecon), IV, a 218
- Talu, town (Sumatra), XXII, b 672
- Tá'ukdárs, landlords (India), XII, b 810, a 811
- Táluk, district (Madras), XV, b 187
- Talus, man of brass (Numismatics), XVII, a 661
- —— wall (Harbors and Docks) (Plate VIII), XI, *b* 410, b 413, b 416
- Talút, bloody fakir (Spain), XXII, b 325
- "Talvi," pseudonym (Robinson, E.), XX, a 623, note
- Talwár, weapon (Sword) (Ill.), XXII, b 840, a 841
- Talyllyn, valley (Merioneth), XVI, *b* 43
- Talysh, khanate (Lenkoran), XIV, *b* 446; (Transcaucasia), XXIII, a b 546
- TAM or THAM, Rabbenu, XXIII, a 44-5
- Tamagaki, shrine (Nikko), XVII, b 516
- Taman, island (Black Sea), III, *b* 691; (Kuban), XIV, a 151
- Tamandua, genus (Mammalia) (Ill.), XV, a 389
- TAMAQUA, borough, Pennsylvania, XXIII, a 45
- Tamar (Judah), XIII, *b* 770
- ——, river (Cornwall), VI, a 376
- ——, river (Tasmania), XXIII, a 79
- ——, town (Palmyra), XVIII, b 202
- Tamara or Futabar, island (Sierra Leone), XXII, *b* 50
- Tamarack forests (United States), XXIII, a 861
- Tamarída, village (Socotro), XXII, *b* 243
- TAMARIND, tree, XXIII, a 45
- TAMARISK, shrub, XXIII, a b 45
- Tamarix, genus of plants (Manna), XV, b 500
- Tamás, monk (Hungary), XII, *a* 391
- Tamatáve, town (Madagascar), XV, b 173, a 176
- Tamatia, bird (Puff-Bird), XX, b 106
- Tamaulipas, state (Mexico), XVI, a 223, b 911, b 912
- Tamaya, town (Chili), V, b 540
- Tambalagam bay (Ceylon), V, *a* 316
- Tamba Ura, mountains (Bambouk), III, b 264
- Tambillos, town (Chili), V, *b* 540
- Tambo, river (Apurimac), II, a 189; (Peru), XVIII, a 686
- ——, river (Victoria), XXIV, b 233
- TAMBOFF, government, XXIII, b 45-6; (Russia), XXI, a 76, a 84, a 93; town, XXIII, a 46
- Tambookie land (Cape Colony), V, b 37, b 41, b 42; (Kaffraria), XIII, a b 826
- Tambookies, tribe (Cape Colony), V, a 43; (Kaffraria), XIII, a 828
- Tambora, mount (Sumbawa), XXII, *a* 675; (Indian Archipelago), XII, b 855
- Tambour, stockade (Fortification), IX, a 374
- —— stitch (Sewing-Machines), XXI, b 918-9
- Tambraparni river (Madras), XV, b 185; (Tinnevelli), XXIII, b 431
- Tambre river (Galicia), X, a 25
- Tambrosh straits (Singapore), XXII, a 100
- Tambuko, hill (Madura), XV, b 194
- *Tamburlaine the Great* (Drama), VII, a 371; (Marlowe), XV, a b 563, a 564; (Shakespeare), XXI, a 798
- Tame, river (Warwick), XXIV, b 399
- Tamerlane, conqueror. See Timur
- *Tamerlane*, play (Rowe), XXI, b 34
- Tamias, genus (Mammalia), XV, *a* 423; (Squirrel), XXII, b 455
- Tamil or Tamul Architecture, II, b 347; Dictionaries, VII, a 166; Drama, VII, *a* 344
- TAMILS, people, XXIII, a 46-9
  - alphabetic features, a b 47
  - characteristics of people, b 46
  - grammar, b 47-8
  - language, b 46-8
  - literature, a 48-9
  - reference books, a b 49
  - term of designation, a b 46
- —— (Ceylon), V, a 317, a b 318, a 319; (Jaffna), XIII, b 551
- Tamincono river (Niger), XVII, *a* 510
- *Taming the Shrew*, opera (Goetz), X, *b* 656
- Tamlúk, town (Midnapur), XVI, a 297
- Tamm, F. A., philologist (Scandinavian Languages), XXI, *a* 389
- Tamman, Abu, poet. See ABU TEMAN
- TAMMANY SOCIETY, XXIII, b 919-21; (New York), XVII, b 475-6
- Tammaritu, king (Elam), VII, a 690
- Tamm's process (Manganese), XV, a b 487
- Tammuz or Tam-zi, deity (Babylonia), III, *b* 167
- *Tam O'Shanter*, poem (Burns), IV, b 506, b 507-8
- Tampa bay (Florida), IX, b 296
- Tamparang-Labaya, lake (Celebes), V, b 249
- Tampassuk, river (Borneo), IV, b 50; (Sabah), XXI, b 131
- Tampico Jalap, XIII, a 557
- Tamping (Mining), XVI, b 464
- Támralipti, port (Hwen T'Sang), XII, a 435
- Tam-sui or Tam-suy river (Formosa), IX, b 366; port, *a* 367; (China), V, *b* 553
- Tam-tams, drums (Cochin China), VI, b 87
- Tamul. See Tamil
- TAMWORTH, town, XXIII, b 49; Coal-field, VI, b 48
- Tamzi, myth (Deluge), VII, a 49
- Tana or Tsana lake (Gondar), X, a b 685; (Nile), XVII, b 520, b 521
- ——, river (Norway), XVII, b 589
- TANAGER, bird, XXIII, b 49; (Birds), III, a 645, b 646, a 647, b 648, a 651
- Tanagra, town (Bœotia), III, b 742; (Numismatics), XVII, *b* 658; tombs (Terra-Cotta) (Ill.), XXIII, b 207, note, a 208-9, note, b 212
- Tanagrus river (Lucania), XV, b 39
- Tanais, genus (Crustacea) (Ill.), VI, *a* 572, b 578 note, a 583
- ——, river (Don), VII, b 308-9; (Ptolemy), XX, b 99
- Tana, Jampêya island (Saleiyer), XXI, a 220
- Tanaro, river (Italy), XIII, a 445; (Liguria), XIV, b 646
- Tanat, river (Denbigh), VII, a 67
- Tan brown (Dyeing), VII, a 501
- Tanbur, Arab (Lute), XV, b 71, a 72
- Tan cakes (Fuel), IX, b 710
- Tancarville Canal (River Engineering) (Ill.), XX, a 595
- TANCRED, crusader, XXIII, a 50; (Crusades), VI, b 551, *b* 552, a b 553, a 554
- TANCRED, king of Sicily, XXIII, a 50; (Henry VI., Emperor), XI, a b 596; (Sicily), XXII, b 31

Tanda, town (Gaur), X, b 101-2, b 104
Tandem engines (Steam-Engine), XXII, *b* 514, a *b* 515, a 516, *b* 539, *a* b 540, b 543-4
—— Tricycle, XXIII, *a* 595
Tandjong Batu, cape (Sumatra), XXII, b 671
——, Padan, port (Billiton), III, b 586
Tandjur, scripture (Tibet), XXIII, a 365
Tandya-maha-brahmana (Sanskrit), XXI, a 291, note
TANEY, Roger Brooke, chief justice, XXIII, a 840, a 921-2; (United States), a 813, b 820
Tangacheri reef (Quilon), XX, b 187
Tangaloa, god (Polynesia), XIX, b 439
Tangan horse (Bhutan), III, a 546
——, river (Maldah), XV, *a* 330
TANGANYIKA, lake, XXIII, a 50-1; (Africa), I, b 221, b 222, b 225, b 226, *a* 229, b 230, a 244; (Geography), X, b 163; (Lake), XIV, b 217, a 218, a b 222; (Livingstone), *a b* 728; (Nile), XVII, a b 518, note
Tang dynasty (China), V, a b 561, b 558, *a* b 578
Tang-chang tribes (Tibet), XXIII, a 365
Tangen, town (Drammen), VII, a 384
Tangéna tree (Madagascar), XV, a 171, a 174
Tangent (Conic Sections), VI, b 242, a *b* 243, a b 244, *a* 246, a 248, *a b* 249, a 250; (Curve), VI, a b 635-6, b 637; (Geometry), X, b 338-9, b 372-3, b 377-8; (Infinitesimal Calculus) XIII, a 8-9, b 10, b 27; (Surface), XXII, *a* b 703, a *b* 704; (Tables), XXIII, a 13; (Trigonometry), b 598; drawing (Roberval), XX, a 617; inflexional (Geometry), X, b 367; projective (Geometry), b 351-8; to quadric surfaces (Geometry), b 364-5
Tangent-Balance, III, a b 227
—— Galvanometer, Wiedemann's, X, b 46, b 47
Tangential coördinates (Curve), VI, a 635
—— stress (Strength of Materials), XXII, b 623
Tangents, musical (Pianoforte) (Ill.), XIX, *a* b 73, *a* b 74, a 75
Tangent sight (Gunnery), XI, b 270
Tangermann, Friedrich Wilhelm, pastor and poet (Old Catholics), XVII, a 777
Tangermünde, town (Terra-Cotta), XXIII, b 211
Tangier, province (Spain), XXII, b 322
TANGIERS or Tangier, town, XXIII, a 51; bay of (Morocco), XVI, a 857; expedition, 1683 (Pepys), XVIII, b 531
Tang-Kang, town (Formosa), IX, b 367
Tangle, moss (Algæ), I, a 448, a b 449
Tanglu, mountain (Darjiling), VI, b 727
Tang-shui-khi, river (Formosa), IX, b 366
Tangut, district (Polo), XIX, a 419
Tanguts, people (Turkestan), XXIII, a 680
Tangye's condenser (Steam-Engine), XXII, b 538; governor (Steam-Engine) (Ill.), a b 529
TANHAUSER or Tannhäuser, myth, XXIII, a b 51
——, minnesinger, XXIII, b 51
Tanhuma (Midrash), XVI, b 299
Tanis or Zoan, city (Egypt), VII, b 637, b 641, a 667
Tanistry, land-tenure (Clan), V, b 698-9; (Ireland), XIII, a b 225, a 272; (Primogeniture), XIX, a b 755; (Scotland), XXI, *b* 500, b 503
Tanist stones (Rude Stone Monuments), XXI, b 56
Tanjong Datu, cape (Sarawak), XXI, a 321
TANJORE, district, XXIII, b 51-2; city, a 52; (Libraries), XIV, a 533, a 552; (Madras), XV, b 186; temple of (Architecture) (Ill.), II, a b 347
Tanjur, tribe (Darfur), VI, a 725
Tanks (Water-Supply) XXIV, a 425
——, heating by (Horticulture), XII, a b 236
——, Hindoo (Hydromechanics), XII, b 530; (Irrigation), XIII, b 379
—— for Petroleum, XVIII, b 731
Tan liquor (Leather), XIV, a b 383
Tanna debe Eliyyahu (Midrash), XVI, a 299
Tannah, district (Thána), XXIII, a 239
TANNAHILL, Robert, poet, XXIII, a b 52; (Paisley), XVIII, b 145
"Tannaim," teachers (Israel), XIII, b 438; (Talmud), XXIII, a 41
Tanna, island (New Hebrides), XVII, a *b* 405
Tannenberg, battle of (Hanseatic League), XI, b 403
Tanner, Colonel (Kâfiristân), XIII, a 830, *a* b 831, a *b* 832
——, Lloyd, mathematician (Trigonometry), XXIII, a 603
Tanner's beam (Leather) (Ill.), XIV, a 384
Tannery, Paul, historian (Serenus), XXI, b 707; (Zeno), XXIV, a 818
Tännforsen, waterfall (Sweden), XXII, a 775
Tannhäuser, opera (Wagner), XXIV, b 334, b 336. See Tanhäuser
TANNIN or Tannic acid, XXIII, b 52-3; (Brewing), IV, a 243; (Catechu), V, b 192; (Chemistry), a 495; (Gallic Acid), X, *a* 38; (Histology), XII, *a* 15; (Horse-Chestnut), a b 210; (Ink), XIII, a b 86; (Leather), XIV, a b 381, a 386; (Photography), XVIII, a 840; (Tea), XXIII, *b* 107, b 108; in plant growth (Physiology) XIX, a b 59
Tanning (Fir), IX, b 194; (France), b 460; (Hops), XII, a 161; (Larch), XIV, a 311; (Leather), b 380-9; (Louisville), XV, a 25; (Oak), XVII, a 711, *b* 712, b 713
—— machinery (Leather) (Ill.), XIV, b 383-8
—— materials (Acacia), I, b 66-7; (Leather), XIV, a 281-3, b 391
Tanno or Tando river (Gold Coast), X, b 672
Tanos, tribe (Pueblo Indians), XX, *b* 888
Tanret, chemist (Chloral), V, b 588
Tansy, herb (Horticulture), XII, b 302
Tantà, festival of (Egypt), VII, b 666-7
Tantalem, island (Malay Peninsula), XV, b 323
Tantalic ochre (Mineralogy), XVI, b 404
Tantalides, Elias, poet (Greece), XI, b 135-6
Tantalite (Mineralogy) (Ill.), XVI, b 445
Tantallon castle (Haddington), XI, a 324
TANTALUM, metal, XXIII, a 53; (Chemistry), V, a 467-9; (Niobium), XVII, a 527
TANTALUS, myth, XXIII, a b 53; (Pelops), XVIII, b 490
Tántaí Topí rání (India), XII, a 850
Tantras, histories (Sanskrit), XXI, a 297
Tantra system (Lámáism), XIV, b 228-9; (Lhasa), b 499
Tanucci, Bernardo, marquis, regent (Ferdinand IV., Naples), IX, b 69; (Filangieri, G.), b 139
Tanurides, family (Arachnida), II, b 241
Taoisech, chief (Clan), V, a 699
Taoism or Taouism, religion (China), V, a 563, b 576-7, a 578, b 582; (Confucius), VI, a 230, a 231; (Julien), XIII, a b 780; (Lâotsze), XIV, b 295, a 296-8; (Religions), XX, *a* 376; (Tibet), XXIII, a 366
Tao-Kwang, mountain (Corea), VI, a 347
Taoniscus, genus of birds (Tinamou), XXIII, a 430
TAORMINA or Tauromenium, village, XXIII, b 53; (Catacombs), V, a 188; (Sicily), XXII, b 26, *a b* 29, b 30; (Theatre), XXIII, a 241 note, a 242
Taos, tribe (Pueblo Indians), XX, *b* 888, *a* b 889; valley (New Mexico), XVII, a 411
Tao Silalahi lake (Sumatra), XXII, a 672
Tâo Teh King, treatise (Lâotsze), XIV, b 295, a 296-8
Taou, deity (China), V, a 577. See Taoism
Taou-kwang, Manchoo emperor (China), V, b 565-6, *a* 567
Taou-tai, magistrate (China), V, b 580
Tap, tool (Screw), XXI, b 578
Tapa, cloth (Hawaiian Islands), XI, b 472
TAPACULO, bird, XXIII, a b 54; (Birds), III, a 645
Tapajos, river (Brazil), IV, a b 200, a 201; (Santarem), XXI, *a* 313
Tapamanu, island (Tahiti), XXIII, a b 27
Tapanuli residency (Sumatra), XXII, *b* 672
Tapestry (Carpets), V, b 112, b 114-5, a 116; (Cartoons), *b* 144-5; (Gobelin), X, a 635; (Nancy), XVII, b 177-8; (Textiles) (Ill.), XXIII, a 230-1; ancient, b 225-6; arazzi Vatican (Raphael), XX, b 292-3, note; of Bayeux, III, a 396; (Embroidery), VIII, b 149; (Horse), XII, a 185; of Rheims, XX, a 522; Santa Barbara (Goya), XI, a 21
Tapetum lucidum in eye (Mammalia), XV, a 370
Tape weaving (Lace), XIV, b 188
TAPE-WORMS or Cestoda, XXIII, b 54-61
    anatomy (Ill.), a 55-7
    bibliography, a b 61
    classification, b 59, a 61
    development, a b 57
    echinococcus development of, a b 58
    examples of parasites (Ill.), b 59-60, a 61
    excretory system, a b 56
    general characters, b 54
    head, a b 55
    historical sketch, b 54-5
    life-history, b 57-8
    muscular system, a 56
    pathology, b 58-9
    phylogeny, a 61
    reproduction, b 56-7
    segmentation, b 55-6, a 57
—— (Kámalá), XIII, b 840; (Kousso), XIV, a b 146; (Parasitism), XVIII, a 263, b 266; (Veterinary Science), XXIV, b 222, *a* b 223
Taphozous, genus of bats (Mammalia) (Ill.), XV, b 417
Taphrenchyma (Botany) (Ill.), IV, b 76
Ta-pih-loo, road (China), V, a 555
TAPIOCA, food, XXIII, b 61; (Arrowroot), II, a 552; (Cassava), V, b 159
Tapiolite (Mineralogy), XVI, b 445
TAPIR, mammal, XXIII, b 61-2; (America), I, a 599; (Distribution), VII, b 240, a 242; (Horse), XII, a b 176, a 178, *b* 180; (Mammalia), XV, b 368, a 433-4
Tapiroids (Mammalia), XV, *b* 433, a 434
Tappan, bay (Hudson River), XII, a b 345
——, tree (Borneo), IV, b 51
TAPPAN, Arthur, philanthropist, XXIII, a b 922; (Garrison), X, b 77
——, Benjamin, jurist, XXIII, b 922

Tappan, Benjamin, merchant, XXIII, a 922
TAPPAN, David, clergyman, XXIII, b 922
TAPPAN, Lewis, merchant, XXIII, b 922
TAPPAN, William Bingham, poet, XXIII, b 922
—— Hall, Oberlin (Tappan), XXIII, b 922
Tapping hole (Iron), XIII, a 305, b 306
Taprobane, island (Ceylon), V, a 316; (Ptolemy), XX, a 98, a 100
Tap-root (Arboriculture), II, b 282; (Botany), IV, a b 84
Taps, screw (Hand Tools), XI, b 392
Taptí river (Belul), III, *b* 535; (Bombay), IV, b 20; (India), XII, a 772; (Khándesh), XIV, *b* 58; (Surat), XXII, *b* 701
Tapu. See Taboo
Tapun, fabulous bird (Megapode), XV, a b 836 note
Tapuyas, races (Indians), XII, b 869
Taqi Mir, poet (Hindustani), XI, a *b* 757
Taquari, river (Brazil), IV, a 200
TAR, XXIII, b 62-5
  by-products, a b 65
  chemistry of, a b 63
  coal-tar, character of, a 63
  industrial working, b 63-5
  light oil, b 64-5
  naphthalene, b 64
  oils, *b* 64-5
  pitch products, a b 64
  wood-tar, b 62-3
—— (Distillation), VII, b 228; (Pigments), XIX, a 97; (Pine), b 112, *b* 113; coal (Naphtha), XVII, b 181; (Gas-Lighting), X, b 80, b 90, a 91; (Iron), XIII, b 299; distillation of (Coal Tar Colors), XVIII, b 889-90; drainage (Agriculture), I, b 295; elimination of (Gas-Lighting), X, b 83-4; wood (Creasote), VI, b 492
Tara, king's residence (Ireland), XIII, b 250, a b 251, note, a 256, b 258; (Meath), XV, *b* 675
——, cutter (Yachting), XXIV, a 760
—— brooch (Filigree), IX, a 144
Taráblus al-Gharb, town, (Tripoli), XXIII, a 612
Tarábulusee, Ali Pasha El- (Egypt), VII, b 660
Tarafa, poet (Mo'allakát), XVI, a 560, a 561, a b 562; (Hamasah), XI, b 359
Tárágarh mountain (Ajmir), I, *b* 384, a 385
Tarahumara Dictionary, VII, a 168
TARAI, district, XXIII, b 65; (Bharáich), III, a 543; (Himalaya), XI, b 735-6; (N. W. Provinces), XVII, a 586
Tarakeswar, town (Hooghly Dist.), XII, a 151
Taranjis, or Tarantchi, people (Turks), XXIII, a 703; (Turkestan), b 677; (Vyernyi), XXIV, b 324
Tarannon shale (Geology), X, b 296, a 298
Tarantella, dance (Tarantula), XXIII, a 66
Tarantism, mania (Tarantula), XXIII, a 66
Taranto, city (Oyster), XVIII, b 111; (Tarentum), XXIII, a b 67; gulf (Italy), XIII, a 419
TARANTULA, spider, XXIII, b 65-6
Tarapaca, province (Peru), XVIII, a 683, a b 684, a 685, b 687, a 688, b 692; Guano, XI, a 208
Tárapou race (Polynesia), XIX, *a* 436, note, a 440-1
Tarare, mountain (France), IX, b 445
TARARE, town, XXIII, a b 66; (Rhone), XX, *a* 544
Tarare, opera (Salièri), XXI, b 228
Taras, myth (Numismatics), XVII, a b 653
——, city (Arion), II, a 442; (Tarentum), XXIII, a b 67
Taras Bulba, novel (Russia), XXI, a 116
Tarasca Dictionary, VII, a 168
TARASCON, town, XXIII, b 66
Tarasp, baths of (Engadine), VIII, *b* 193
Tarasque, La, fête of (Tarascon), XXIII, b 66
Tara-tash, peak (Ural Mountains), XXIV, a 8
Taravao, isthmus (Tahiti), XXIII, b 27
Tárawa language (Polynesia), XIX, a 436, note
TARAXACUM, plant, XXIII, b 66-7; (Dandelion), VI, b 706
Tarbagatai mountains (Semipalatinsk), XXI, *a* 671; (Semiryetchensk), b 672; (Siberia), XXII, a 7; (Turkestan), XXIII, a 674
Tarbat, George, viscount (Cromarty), VI, b 527
Tarbert Loch (Jura Island), XIII, a 793
TARBES, town, XXIII, a 67; (Pyrénées), XX, a *b* 133
Tarchon, founder (Etruria), VIII, a 557, a 559
Tardera, Archangela of Sicily (Stigmatization), XXII, b 577
Tardigrada, genus (Arachnida) (Ill.), II, a *b* 239, a 240, b 241
——, sub-order (Mammalia), XV, a 387
Tarentaise valley (Savoie), XXI, *b* 437
TARENTUM, city, XXIII, a b 67; (Arion), II, a 442; (Græcia Magna), XI, *b* 28; (Greece), a 86; (Hannibal), b 396; (Numismatics), XVII, *a b* 653; (Pyrrhus), XX, a *b* 143; (Rome), *b* 762, a 763; busts from (Terra-Cotta,) XXIII, a 210; capture of, 272 B.C. (Roman Literature), XX, a 736; gulf (Lucania), XV, *a* b 39
Tares or Vetches (Agriculture), I, a 321, b 334, a 335
Target, Gvi Jean Baptiste, advocate (Mirabeau), XVI, b 520
Targets (Archery), II, b 329
Targitaus, patriarch (Scythia), XXI, *b* 603; (Slavs), XXII, b 154
Targovica, confederation of (Poland), XIX, b 309
TARGUM, translation, XXIII, b 67-71
  authorship, b 68-9
  bibliography, *Hagiographa*, b 70
    Pentateuch, b 69
    Prophets, a 70
  Hagiographa, b 68, a b 70-1
  origin and use, a b 68
  Pentateuch, a 68, a 69-70
  Prophets, a b 68, a 70
  term, b 67-8
  value of, a 71
—— (Bible), III, b 554; (Daniel), VI, b 708; (Hebrew Language), XI, b 535; (Israel), XIII, a 439; (Logos), XIV, b 813-4; (Messiah), XVI, b 60, note; (Midrash), b 297, a 298; Aramaic (Semitic Languages), XXI, a b 680
Taricheæ, town and lake (Galilee), X, a 27, a 28
TARIFA, town, XXIII, a 71
Tariff (Commerce), VI, b 181-2; (Finance), IX, b 163, a b 165; (Protection), XIX, b 932-41; American (Adams, J. Q.), I, a b 131; (Taxation, United States), XXIII, a 924; (Walker), XXIV, a 880; legislation (United States), XXIII, a 803, b 809, *a* 810, a 811, a 813, a 815, a 817, a 822, b 824, b 880; protective (Mexico), XVI, a 902, b 904; (Moscow), a 886; (Spain), XXII, a b 317; reduction, British, 1845 (Peel), XVIII, a b 467. See Protection
—— system, fire (Insurance), XIII, a 172-3
Tarija, department (Bolivia), IV, *a* 11, a 12, b 13, *a* 15
Tarik ben Zeyad, general (Arabia), II, b 225; (Mohammedanism), XVI, a b 596; (Spain), XXII, *a* 321
Ta'rikh-i-Tabarí, history (Persia), XVIII, b 668
Tarik's hill (Gibraltar), X, a 523
Tarim or Tarym basin (Gobi), X, *b* 635-6; (Turkestan), XXIII, a b 671, a 673, b 678-9, a 680
Tarjums, stations (Tibet), XXIII, b 363
Tarlatan, fabric (Muslin), XVII, b 116
TARLETON, Sir Banastre, general, XXIII, a 923; (Jefferson, T.), XIII, a 626; (Sumter), XXII, *b* 935
——, John, mayor, XXIII, a 923
——, John, comic actor (Fool), IX, b 320
TARN, department, XXIII, a b 71; river, *b* 71; (France), IX, b 457; (Lozère), XV, *a* 33
——, E. W., architect (Dome), VII, b 301
Tarnak, river (Afghânistân), I, a 206
TARN-ET-GARRONNE, department, XXIII, b 71 2
Tarnkappe, cloak (Nibelungenlied), XVII, b 488
TARNOPOL, town, XXIII, a 72
Tarnova plateau (Görz), X, b 700
Tarns described (Scotland), XXI, b 548-9
Taro, plant (Micronesia), XVI, a 268; (Polynesia), XIX, a 433
—— river (Italy), XIII, a 446
Tarots or tarrochi (Cards), V, b 88
TARPAULIN, cloth, XXIII, a 72
Tarpeian rock (Rome), XX, a 845, note
Tarquin the Proud. See TARQUINIUS SUPERBUS
Tarquinii, city (Etruria), VIII, a b 557; remains at (Architecture), II, b 362, *a* 363
TARQUINIUS PRISCUS, Lucius, king, Rome, XXIII, a 72; (Italy), XIII, b 455; (Rome), XX, a b 753
TARQUINIUS SUPERBUS, Lucius, king, Rome, XXIII, a b 72; (Rome), XX, a b 754; (Sibyl), XXII, a 19
——, Sextus, prince (Gabii), X, a 4
Tarquino, Pico de, mountain (Cuba), VI, a 601
Tarquins, Kings, Rome (Brutus), IV, a b 365; (Mercury), XVI, a 36; (Rome), XX, a 753-4
Tarracina or Anxur, city (Latium), XIV, b 345; (Rome), XX, a 753, a 759, a b 760. See TERRACINA
Tarraco, city (Spain), XXII, a 320, a *b* 322
Tarraconensis, province (Spain), XXII, a *b* 322
Tarragai river (Syr-Daria), XXII, b 857
Tarragon, herb (Horticulture), XII, b 302
TARRAGONA, province, XXIII, b 72; (Spain), XXII, a b 312, b 313, b 318, b 360; (Wine), XXIV, b 639, b 640
TARRAGONA, city, XXIII, b 72-3; (Aqueduct), II, b 192
Tarsal bones (Ape), II, a 143; system (Coleoptera), VI, a 117; (Hymenoptera), XII, a 607
Tarshish or Tartessus, colony (Andalusia), II, b 11; (Galle), X, b 37; (Geography), a 157; (Phocæa), XVIII, a 812; (Phœnicia), a b 819, b 821; (Spain), XXII, a 319, a 320; ships (Chronicles), V, b 615
Tarsia or Marquetry, Wood-Mosaic, XVI, a 882; (Inlaying), XIII, b 88
Tarsipedinæ, group (Mammalia), XV, a 385
Tarsipes, genus (Mammalia) (Ill.), XV, a 385
Tarsius, genus (Lemur), XIV, a 441, a b 444
Tarsus, ankle (Amphibia), I, a 668*; (Anatomy) (Ill.), b 727, b 729, a 730, b 738; (Mammalia) (Ill.), XV, a b 363; (Skeleton), XXII, a 126

TARSUS, city, XXIII, a b 73; (Cilicia), V, *a* b 679; (Mohammedanism), XVI, b 604, a 607; (Numismatics), XVII, b 665, b 666, b 677; (Perseus), XVIII, b 572; (Phœnicia), b 818, note; (Textiles), XXIII, b 228
TARTAGLIA or Tartalea, Niccolò, mathematician, XXIII, b 73–4; (Algebra), I, *a* 453, a 483; (Cardan), V, b 80; (Gunnery), XI, a 264; (Gunpowder), b 284, a 295
TARTAN, cloth, XXIII, b 74; (Costume), VI, b 424
Tartar, potash salt (Tartaric Acid), XXIII, a 75; (Argol), II, b 436; (Dyeing), VII, b 496
——, Cream of. See CREAM OF TARTAR
—— Dictionaries, VII, a 167
—— emetic (Antimony), II, a 114; (Chemistry), V, b 468, b 495; (Cream of Tartar), VI, b 492; (Tartaric Acid), XXIII, b 75
Tartares, Histoire Générale des (Guignes), XI, b 229–30
Tartarian lamb (Tree-Fern), XXIII, b 568
TARTARIC ACID, XXIII, a 75–6; (Chemistry), V, b 451, b 495; (Citric Acid), b 694; (Polarity) (Ill.), XIX, a 326, b 327; isolation of (Scheele), XXI, b 404; polarization of (Wave Theory), XXIV, b 476–7
Tartarides, family (Arachnida), II, a 238, b 251, a b 253
TARTARS or TATARS, people, XXIII, a 76–7; (Asia), II, a 609; (Assassins), a 633; (Carpini), V, b 116–7; (China), b 558, a *b* 559, *b* 560, b 563–4; (Crimea), VI, b 518, *a* b 519; (Egypt), VII, a b 655, a b 656; (Huc), XII, *b* 342; (Hungary), *b* 382; (India), a 828; (Ispáhán), XIII, a 406; (Jenghiz), a 632; (Kazan), XIV, *b* 22; (Khorásán), a 69, note; (Kirghiz), a 96, *a* 97; (Livny), a 730; (Mandeville), XV, a b 481; (Mongols), XVI, a b 771, a 773; (Peking), XVIII, b 479, a b 480, b 481; (Russia), XXI, a 87, a b 88, b 89; (Samoyedes), b 263, a 264; (Siberia), XXII, b 13; (Syriac Literature), a 898; (Tomsk), XXIII, a 467; (Turks), b 702, b 703; (Tver), a 715; (Volga), XXIV, b 301; dialects of (Turks), XXIII, b 703; history of (Guignes), XI, b 229–30; Kirghiz, hunting of (Eagle), VII, b 510
TARTARUS, nether-world, XXIII, a 77
Tartary, Western (China), V, b 559. See TURKESTAN
—— strait (Saghalin), XXI, a 155, a 156
Tartessus, city. See Tarshish
TARTINI, Giuseppe, composer, XXIII, a b 77; (Music), XVII, b 100
Tartini's beats in music (Wave), XXIV, b 442
Tartrate of soda and ammonia, double (Polarity) (Ill.), XIX, b 326, a 327
Tartrates (Tartaric Acid), XXIII, a b 75
Tartuffe, comedy (Molière), XVI, a b 651, a 652
Tárúdant, town (Morocco), XVI, b 860
Tarvisium, town (Treviso), XXIII, a 589
Tar-water (Distillation), VII, b 229; (Nitrogen), XVII, a b 530; controversy on (Berkeley), III, a 510
Tasajo, food (Preserved Food), XIX, b 726
Tasar or Tussur silk (India), XII, a 790, b 800
Taschenberg, Ernest Otto, naturalist (Trematoda), XXIII, *a* 573, a 575
Taschereau, Jules Antoine, littérateur (Grimm, F. M.), XI, b 176
Tasciovanus, king (Numismatics), XVII, a 652
Tashfyn, Tashufin or Teshufin, Yusuf ibn, king (Almoravides), I, b 524; (Portugal), XIX, a 555; (Spain), XXII, b 330–1
Tashilunpo or Teshu-Lumbo, monastery (Tibet), XXIII, b 361, b 364, a 365, a 368
TASHKEND or TASHKENT, city, XXIII, b 77–8; (Syr-Daria), XXII, b 859, a 860; Observatory, XVII, b 737
Tâshkurghân, town (Afghânistân), I, b 217
Tashrít (Mecca), XV, b 678
Tasi, Agostino, painter (Gentileschi), X, a b 144
Tasili plateau (Sahara), XXI, b 157, a *b* 158
Tasiusak, settlement (Greenland), XI, a 153
Task, The, poem (Cowper), VI, *a* 474
TASMAN, Abel Janszen, XXIII, a b 78; (Australia), III, a b 90; (Geography), X, a 167; (New Zealand), XVII, b 484; (Tasmania), XXIII, a 81
TASMANIA or Van Diemen's Land, XXIII, b 78–81
  administrative features, b 80–1
  climate, a 79
  geography, b 78–9
  geology, a b 79
  history, a b 81
  industrial features, a b 80
  natural history, a b 80
  minerals, b 79–80
—— (Australia), III, a 94, a 96–8, a 99, a 100; (Hobart Town), XII, a b 32; (Brewing), IV, a 237, a 244; (Forests), IX, b 358; (Franklin, Sir J.), a 634; (Libraries), XIV, b 552; (Mining), XVI, a 494; (Prison Discipline), XIX, a *b* 771, a 772; (Reptiles), XX, *a* b 483; (Savings Banks), XXI, b 345; (Wool), XXIV, a 690; law of (Patents), XVIII, b 362; trout in (Salmonidæ), XXI, a 237
Tasmanian Devil, marsupial (Mammalia), XV, a 383
—— Dodge (Ballot), III, a 250
Tasmanians, people (Demonology), VII, a 54, a 56; (New Guinea), XVII, a 398
Tasmanite, mineral (Coal), VI, b 45
Tassaer, chemist (Ultramarine), XXIII, a 769
Tassert, Johann Peter Anton, sculptor (Schadow), XXI, *a* 402
Tassi, Augustin, painter (Claude of Lorraine), V, b 711
TASSIE, James, gem-engraver, XXIII, b 81
TASSIE, William, gem-engraver, XXIII, b 81–2
Tassin, Leonard, anatomist (Anatomy), I, b 712
Tasso, Bernardo, courtier, XXIII, a 82
Tasso, Bernardo, poet (Bouillon), IV, a 156; (Romance), XX, b 670
TASSO, Torquato, poet, XXIII, a 82–5
  editions, a 85
  family history, a b 82
  Ferrara patronage, a b 83
  literary productiveness, b 82–3
  restless last years, b 84–5
  St. Anna incarceration, b 83–4
—— (Accolti, B.), I, b 85; (Drama), VII, b 360, a 362; (Fairfax, E.), VIII, a b 745, note; (Ferrara), IX, a 95; (Guarini), XI, a 210; (Italy), XIII, a b 520–1; (Pesaro), XVIII, b 697; (Wilde), XXIV, b 897
Tasso, Goethe's (Drama), VII, b 382; (Germany), X, a b 481; (Goethe), *b* 649, b 650
TASSONI, Alessandro, poet, XXIII, a b 85; (Italy), XIII, a 522; (Modena), XVI, a b 565
Tassy, Garcin de, orientalist (Hindustani Literature), XI, b 756, note, *a* 757, a 759; (Newspapers), XVII, b 443; (Sunnites), XXII, a 698 note, a 700 note
TASTE, sensation, XXIII, b 85–6; (Anatomy), I, b 787; (Bee), III, a 421; (Crustacea), VI, a 564; (Fine Arts), IX, b 171; degrees of (Mineralogy), XVI, a b 394; organ of (Ichthyology), XII, a 691; (Mammalia), XV, a 370
Taste, Nature and Principles of (Alison), I, a 508
Tatche or Telamé Dictionary, VII, a 168
Ta-te, emperor (China), V, a 560
TATE, Nahum, poet, XXIII, b 86; (Hymns), XII, a 625
Tatefra, king (Chephren), V, a 507
Tate's Air-pump, I, a 381
TATIAN, Christian apologist, XXIII, b 86–8; (Canon), V, b 8; (Gnosticism), X, b 627; (Syriac Literature), XXII, a b 864; his *Diatessaron* (Theodoret), XXIII, a 275
Tatistchaff, Basil Nikititsch, historian (Russia), XXI, a 114
Tatler, periodical (Addison), I, b 135, a 136; (Hunt), XII, b 399; (Periodicals), XVIII, b 547; (Steele), XXII, a 554, a b 555
TATNALL, Josiah, governor, XXIII, a b 923
——, Josiah, Jr., admiral, XXIII, b 923
Tatra, mountains (Austria), III, b 100; (Carpathian Mountains), V, a 112; (Hungary), XII, b 375, a 377
Tats, race (Ghilan), X, a 507; (Tajak), XXIII, b 30
Ta-tsing, river (China), V, a 548
Tatta, salt lake (Lycaonia), XV, b 93
——, town (Kashi), XIV, *a* 11
Tattersall's, Richard, market (Horse), XII, a 205; (London), XIV, b 838
Tattlers, birds (Greenshawk), XI, a 155
Tattooing (Andaman Islands), II, b 12; (Ireland), XIII, a 263; (Lew-chew Islands), XIV, b 489; (Micronesia), XVI, b 267; (New Guinea), XVII, b 398; (Polynesia), XIX, b 438; (Shans), XXI, b 810; (Totemism), XXIII, a 499
Ta-tu, city (Cambaluc), IV, a b 639
Tatua, insect (Wasp), XXIV, b 413
Ta-tung, lake (China), V, b 549
Tatusia, genus (Mammalia), XV, b 386, note, *b* 389, b 390–1
Tatusiinæ, group (Mammalia), XV, b 390–1
Taudeni, oasis (Oases), XVII, a 715
Tauentzien, general (Lessing), XIV, b 480
Tauf-Büchlein (Luther), XV, a 79
Taulébe or Yojoa, lake (Honduras), XII, b 133
TAULER, Johann preacher, XXIII, a 88–9; (Germany), X, b 471; (Luther), XV, b 73, b 82; (Mysticism), XVII, *b* 140, note, *b* 142; (Nicholas of Basel), *b* 499
TAUNTON, town, XXIII, a b 89; (Somerset), XXII, *b* 271, a *b* 272
TAUNTON, Massachusetts, city, XXIII, b 89
Taunus plateau (Germany), X, a 402, *a* 403; mountains (Nassau), XVII, b 244
Taupenot dry-plate process (Photography), XVIII, a 839
Taupo lake (New Zealand), XVII, b 479
Tauri (Crimea), VI, b 519
TAURIDA, government, XXIII, b 89–90; (Russia), XXI, a 76, b 87, a 93
Taurini, tribe (Liguria), XIV, a 646
Tauromenium, city. See TAORMINA
Taurus, mountains (Asia), II, b 599; (Asia Minor), b 615–6; (Cilicia), V, b 678, a b 679; (Kúrdistán), XIV,

Taurus, *continued*
b 156–7; (Lycia), XV, a *b* 94; (Mesopotamia), XVI, b 52, a 55; (Pisidia), XIX, a 139
——, sign of Zodiac, XXIV, b 829, *a* 830 note, a b 831, a 834
Tausik, people (Tajak), XXIII, a 30
Taute river (Manche), XV, a b 466
Tautochrone (Mechanics), XV, b 713
Tautog, fish (Wrasse), XXIV, a 722
Tau-Tötönal or Tetnuld (Caucasus), V, b 220
Tauut, god (Egypt), VII, a b 622
Tavastehus, province (Russia), XXI, a 76
Tavasts, race (Russia), XXI, a 87
Taverner, Richards, editor (English Bible), VIII, a 346
TAVERNIER, Jean Baptiste, traveller, XXIII, a b 90; (Thevenot), a 321
Taverns (Innkeepers), XIII, b 88; of London, XIV, b 858–9
Tavghi Samoyedes, people, XXI, b 263, a 264
TAVIRA, seaport, XXIII, b 90
TAVISTOCK, town, XXIII, b 90–1; (Devonshire), VII, *b* 121
Tavogliere di Puglie, district (Capitanata), V, b 65
TAVOY, district and town, XXIII, a b 91: (Burmah), IV, *a* b 497, a 498, *b* 500; river, XXIII, a 91
Tavris or Tavriz, city. See TABRIZ
Tawá river (Betul), III, b 535; (Hoshangábád), XII, a 312
Tawáf, ceremony (Mecca), XV, *b* 679, a b 681, b 682
Ta-wan river (China), V, a 551
Tawe river (Brecon), IV, a 218
Tawilah island. See Kishm
Tawing, process (Glove), X, b 617; (Leather), XIV, b 389–90
Tawny Owl, bird, XVIII, b 92, b 93
Taxacis, king (Scythia), XXI, b 603
TAXATION, XXIII, b 91–5
    capital, b 94–5
    capitation, a b 95
    certainty, b 92
    commodities, b 95
    convenience, b 92–3
    economy, a 93
    equality, b 91–2
    general principles, b 91–3
    incidence, a 93–5
    profits, a b 94
    rent, b 93
    social dividend theory, a b 92
    wages, a 95
—— (Alcavala), I, a 406; (Barbados), III, b 310, a b 311; (Beards), b 400, a 401; (Burmah), IV, b 494–5; (Burmah, British), b 500–1; (Colbert), VI, b 110, a 111; (Company), b 199–200; (Convocation), a 289, a 291; (Costs), a 400; (Cuba), a 603; (Egypt), VII, a 682; (England), VIII, b 219–20, a b 221, a 313; (Finance), IX, a 150–67; (France), b 454–5, a 480; (Germany), X, a b 419; (Greece), XI, a b 79–80, a 81; (Herzegovina), b 693; (India), XII, b 808–12; (Insurance), XIII, b 168; (Ireland), b 245, a 246; (Italy), b 474, b 475–6; (Japan), b 558, a 593; (Knighthood), XIV, a 117, note; (Land), a b 268; (Landlord and Tenant), a 276; (Malt), XV, b 341–2; (Masaniello), b 612–3; (Mexico), XVI, b 901; (Nepâl), XVII, b 352–3; (Parish), XVIII, b 302; (Pentateuch), b 521; (Persia), a b 581, a 586; (Poor Laws), XIX, a 477, a 480, a b 494–5; (Prerogative), a b 693; (Prussia), XX, b 23–4; (Ricardo), a b 549; (Russia), XXI, a 77, b 78; (St. Petersburg), a 204; (Samara), a 255; (Siam), b 891; (Spain), XXII, *a* 333, b 334, a b 348; (Stamps), a 465–6; (Succession Duty), a b 649, note; (Turkey), XXIII, a 696 note
——, Athenian (Finance), IX, a b 151; (Solon), XXII, *b* 267; collectors (France), IX, a 455; Cromwell's (Scotland), XXI, b 536–7; ecclesiastical (Popedom), XIX, b 518; incidence of (Political Economy), a b 371; indirect (Finance), IX, b 159, a 160, a 161; land (England), VIII, a 249; (Finance), IX, b 158, a 159, *a b* 161–2; Mohammedan, XVI, b 611; (Spain), XXII, b 324; nature of (Say), XXI, b 376; newspaper (Periodicals), XVIII, b 547; parliamentary power of (England), VIII, a 284; (Parliament), XVIII, a 319; Ricardo on, XX, a 549; Roman (Finance), IX, a b 125; (Greece), XI, b 97, a 99, *b* 101, a b 102; (Rome), XX, a 793; Smith on (Political Economy), XIX, b 382; Turkish (Greece), XI, a b 110
TAXATION in United States, XXIII, 923–7
    bibliography, a 927
    customs duties, b 923–4
    growth of, a b 926
    internal national, a 924–5
    local, a 925
    Massachusetts, a 925–6
    national system, b 923–5
    Pennsylvania, a 926
    public debts, b 926–7
    State systems, a 925–6
—— (Connecticut), VI, b 256; (Franklin, B.), IX, b 628–9; (Homestead), XII, b 126; (Illinois), a b 744; (Matches), XV, b 633; (New York), XVII, b 476; (United States), XXIII, b 882–3
——, colonial (America), I, b 621; (Henry, P.), XI, a 603; (United States), XXIII, b 784, a b 785, a 787
——, Continental Congress and (United States), XXIII, b 790, b 791, b 793–4, a b 795
——, representatives and (United States), XXIII, a 788
—— on imports, colonial (United States), XXIII, a b 786
Taxation no Tyranny (Johnson, S.), XIII, a 739
——, war (United States), XXIII, b 824, b 827, a 829
Taxidea, genus (Mammalia), XV, b 446
TAXIDERMY, XXIII, a 95–7
Taxila, town (India), XII, a b 826 note, a 827, a 830; (Punjab), XX, a b 116; (Rawál Pindí), a 311; inscription (Bactria), III, a 192
Taxis (Hernia), XI, b 673
Tax on judicial salaries (Taney), XXIII, a 922
Taxonomy, biological classification (Amphibia), I, b 676–7; (Animal Kingdom), II, a b 45, b 49; (Biology), III, b 589, a b 591; (Lamarck), XIV, a 232–3; (Mammalia), XV, b 357; (Morphology), XVI, b 864–5, a 872; (Ornithology), XVIII, b 22–3; (Parasitism), b 264; influence of Darwinism on (Zoology), XXIV, a 849
Taxus, genus of trees (Arboriculture), II, b 277; (Yew), XXIV, a 781
Tay, Loch (Lake), XIV, a 218, a 222
TAY, river, XXIII, a 97; (Perth), XVIII, a b 678, b 680; (Scotland), XXI, *b* 545, *b* 546, *b* 549, b 553; bridge (Bridges), IV, b 306–7
Ta-yang river (China), V, a b 557; (Manchuria), XV, a *b* 473
Taygetus mountains (Greece) XI, a 74, a 75, b 79, a 85; (Laconia), XIV, *a* 194; (Messene), XVI, b 57; (Sparta), XXII, a 384
Taylor, Arthur, antiquarian (London), XIV, *a* 851
TAYLOR, Bayard, author, XXIII, a 97–8
TAYLOR, Brook, mathematician, XXIII, a b 98; (Magnetism), XV, a 238; his theorem (Infinitesimal Calculus), XIII, a 20–1
——, E. C., naturalist (Ibis), XII, *b* 641, note
——, English consul (Kurdistan), XIV, b 156, b 157, a 159, *a* 160
——, Frederick, colonel, XXIII, a 98
——, Helen, author (Buckle), IV, a 378; (Mill, John Stuart), XVI, a 325, b 326
TAYLOR, Sir Henry, poet, XXIII, b 98–9; (Drama), VII, a 379
TAYLOR, Isaac, theologian, XXIII, b 99–100
TAYLOR, Jeremy, bishop, XXIII, a 100–1; (Casuistry), V, b 178; (England), VIII, b 315; (English Literature), a 376; (Hymns), XII, a 627; (Ireland), XIII, b 273, a 274
——, John (Algebra), I, a 456
——, John, cabinetmaker (Button), IV, a 532
——, John, economist (Junius), XIII, b 785
TAYLOR, John, poet, XXIII, b 101–2; (Carriage), V, b 119; (Jonson), XIII, b 753
——, John, president (Mormons), XVI, a 854
TAYLOR, John, statesman and agriculturist, XXIII, a b 927
——, John, theologian (Hutcheson), XII, a 427
TAYLOR, Joseph P., army officer, XXIII, b 928
——, Michael, mathematician (Tables), XXIII, a 13, a 15
TAYLOR, Nathaniel William, theologian, XXIII, b 927; (Tyler), b 949
TAYLOR, Richard, general, XXIII, b 928–9; (Hood), b 838; (Protection), XIX, b 935; (Taylor, Z.), XXIII, b 102, note, a 928
——, Rowland, martyr, XXIII, a 100
——, Samuel, stenographer (Shorthand), XXI, a 877
TAYLOR, Tom, dramatist, XXIII, a b 102
——, Thomas, scholar (Mythology), XVII, a 144
——, William, inventor (Block Machinery), III, a 724
TAYLOR, William Rogers, rear-admiral, XXIII, b 927
TAYLOR, William Vignerou, naval officer, XXIII, b 927
TAYLOR, Zachary, president, XXIII, b 102, note, a b 928; (United States), a b 816, b 818; (Whig Party), XXIV, a 895
—— Institution (Libraries), XIV, b 518, a 546; (Oxford), XVIII, a b 99
Taylor's circulating Kier (Bleaching) (Ill.), III, b 707, a 708
—— drum-dressing machine (Metallurgy) (Ill.), XVI, a 64
—— tables (Logarithms), XIV, a 783
—— theorem (Infinitesimal Calculus), XIII, a 20–2, a b 45; (Taylor, B.), XXIII, b 98
Tayronas, Indians (Colombia), VI, a 140
Taytao, peninsula (Patagonia), XVIII, a 357
Tâyumânavan, poet (Tamils), XXIII, b 48
Taz, bay (Tobolsk), XXIII, a 457; (Yeniseisk), XXIV, a 779
Tázéná, king, Aksúm (Semitic Languages), XXI, b 686
TAZEWELL, Henry, senator, XXIII, a 929
TAZEWELL, Littleton Waller, governor of Virginia, XXIII, a 929
T-budding (Horticulture) (Ill.), XII, a b 243

Tchad Lake (Africa), I, b 220, a 222, *a* 223, *a* b 224, b 228, a b 229; (Kuka), XIV, a 154, note; (Niger), XVII, *b* 510, note; (Soudan), XXII, *b* 290, a *b* 291, a b 292
Tchadyr-dagh, mountain (Crimea), VI, a b 518, b 519
Tchany, lake (Siberia), XXII, a 10; (Tobolsk), XXIII, b 457; (Tomsk), a 467
Tchao-Chi-Cu-Eul (Drama), VII, b 346
Tchara, river and mountains (Transbaikalia), XXIII, b 541
Tchardjui, town (Transcaspian), XXIII, *a* 545
Tcharkey, measure (Weights and Measures), XXIV, b 518
Tchatyr-kul, lake (Semiryetchensk), XXI, b 672
Tchaudors, tribe (Turks), XXIII, a 703
Tchaunskaya, bay (Yakutsk), XXIV, *a* 762
Tchebycheff's formulæ (Numbers), XVII, *b* 639
Tchegen, river (Caucasus), V, b 221
Tchelabinsk, town (Orenberg), XVII, b 850
Tcheluskin, cape (Siberia), XXII, a 10
Tchelyuskin, T., explorer (Polar Regions), XIX, b 330
Tcherek, river (Caucasus), V, b 221, a 223; (Terek), XXIII, a 203
Tcheremisses, race (Russia), XXI, a 87, b 88, b 89. See Cheremissian Language
TCHERKASY, town, XXIII, b 102–3
Tcherkesses, tribes (Caucasus), V, a 224; (Circassia), a 688
TCHERNIGOFF, government, XXIII, a 103; (Russia), XXI, a 98, b 104: statistical features (Russia), XXI, a 76, a 87, a 88
TCHERNIGOFF, town, XXIII, *a* b 103
TCHERNOMORSK, government, XXIII, b 103; (Russia), XXI, b 76, note; (Transcaucasia), XXIII, *b* 545, b 546
Tchersky, I., geologist (Transbaikalia), XXIII, b 542, note
Tchetchens or Tchetchenians, tribes (Caucasus), V, b 224; (Lesghians), XIV, a 475
Tchhouen-Khi (Drama), VII, a 346
Tchi-gu, town (Issik-Kul), XIII, a 442
Tchihatcheff, Petr, traveller (Asia Minor), II, b 615, b 623; (Turks), XXIII, b 703
Tchikishlyar, town (Transcaspian), XXIII, b 545
Tchikoi, river (Transbaikalia), XXIII, a 542, a 543
Tchilehon, island (Caspian Sea), V, b 156
Tchinaz, town (Syr-Daria), XXII, a 858
Tchinghianés, tribe (Gipsies), X, *b* 549
Tchirtchik, river (Syr-Daria), XXII, b 857, a 858
TCHISTOPOL, town, XXIII, b 103
Tchistoye Pole, village (Tchistopol), XXIII, b 103
TCHITA, city, XXIII, b 103–4; (Nertchinsk), XVII, a 361; (Siberia), XXII, a b 16; river and city (Transbaikalia), XXIII, a b 542, *a* 543
Tchitrea, family (Flycatcher), IX, a 308
Tchitschakoff, Vassili, explorer (Geography), X, b 170
Tchoang-Yuen (Drama), VII, a 347
Tcholym Tartars or Tchulym, XXIII, b 76
Tchornaya, river (Sebastopol), XXI, a 647
Tchorokh, mountains and river (Transcaucasia), XXIII, b 545, a 547
Tchotkal, mountains (Syr-Daria), XXII, b 857, a b 858
Tchu, river (Semiryetchensk), XXI, b 672; (Syr-Daria), XXII, a 858
Tchud or Tchudis, race (Livonia), XIV, a 731; (Olonetz), XVII, b 786
Tchudskoye. See Peipus
Tchuktchis, race (Indians), XII, b 862, b 865; (Maritime Province), XV, b 554, a 555; (Polar Regions), XIX, a 341; (Siberia), XXII, b 13; (Walrus), XXIV, b 358, a 359
Tchulym, river (Yeniseisk), XXIV, *b* 779
Tchuvashes, race (Russia), XXI, a 87, a b 88, b 89
TEA, plant (Ill.), XXIII, a 104–10
  adulteration, b 107–8
  bibliography, a 110
  botany (Ill.), a b 104
  chemistry, b 107
  China industry, b 105–6
  commercial statistics, b 108–10
  cultivation, b 104–5, a 106
  history, a b 105
  India industry, b 106–7
  physiology, a b 108
  varieties, a b 106, a b 107
—— (Assam), II, b 629, a b 630; (Bengal), III, b 490; (Burmah), IV, b 492; (Camellia), *b* 652–3; (China), V, a *b* 552, a 553, a 554, b 555, a 557; (Coffee), VI, a b 101; (Dárjíling), a 728; (Drunkenness), VII, a 416; (Fuh-Chow), IX, a 713; (Hankow), XI, a 394; (Himalaya), b 743–4; (Hiogo), b 760; (Hong-Kong), XII, a 146; (India), a 771, b 788–9, a 796, b 797; (Japan), XIII, b 584; (Jasmine), b 605, a 606; (Java), b 614; (Kangra), a 851; (Kumaun), XIV, a 156; (Lhasa), a 497; (Linnæus), b 680; (Madras), XV, a 187; (Nijni-Novgorod), XVII, a *b* 515; Adulteration of, I, a 154–5, a 158; (Olive), XVII, b 784; bricks of (Urga), XXIV, b 15; celestial (Hainan), XI, a 335; colonial tax (United States), XXIII, a 787; destruction of, at Boston, IV, a 66; (Hutchinson), XII, a 428; Paraguay, XVIII, b 248; (Brazil) IV, a 204. See Maté; seed Oil, XVII, a 765, a 768; tax on (England), VIII, b 320, a 321
——, river (Galicia), X, a 25
Teachers, education of (Schools), XXI, b 910
Teachers' Association, National (Schools), XXI, a 912
Teaching, methods of (Analysis), I, a b 699; Jewish (Priest), XIX, b 747, a *b* 748; Monitorial system (Lancaster, J.), XIV, a 258–9. See EDUCATION, Schools, TECHNICAL SCHOOLS, UNIVERSITIES
Teaching of Simon Cephas at Rome (Peter), XVIII, b 710
—— *of the Twelve Apostles* (Sacrifice), XXI, *a* 147; (Sunday), XXII, a 688
TEAK, tree (Ill.), XXIII, a 110–2
  Burmah production, b 111–2
  description (Ill.), a b 110
  India production, a b 112
  life-history, b 110–1
  timber, qualities of, a b 111
—— (Forests), IX, *b* 355, *a* 356, b 358, a 359; (Java), XIII, a 613; (Kolába), XIV, a 137; (Oak), XVII, b 710
TEAL, bird, XXIII, b 112–3; blue-winged (Shoveler), XXI, b 882; summer (Garganey), X, b 72
Teapi, island. See Rapanui
Tears (Nutrition), XVII, a 702. See Lachrymal
——, Hill of (Philippine Islands), XVIII, a 766
—— of strong wine (Capillary Action), V, a 59
Tears of the Muses, poems (Spenser), XXII, a b 410
Teaser, bird (Skua), XXII, a 133
——, ewe- (Agriculture), I, b 349
Teasing Wool, XXIV, a 692
Teasling cloth (Wool), XXIV, b 696–7
Tea-Table Miscellany (Ramsy), XX, a 279
Teate, city (Chieti), V, *b* 534
Tea-tree (India), XII, a 778
Tebenna, dress (Costume), VI, a 403
Tebessa, plateau (Tunis), XXIII, b 659, a 660
Tebruk, harbor (Tripoli), XXIII, b 611
Tebur river (Borneo), IV, b 50, a 51
Técali quarries (Marble), XV, b 536
Tech river (Pyrénées), XX, *a* b 134
TECHNICAL EDUCATION, XXIII, a 113–7
  apprenticeship schools, b 115
  classification, b 113–4
TECHNICAL EDUCATION, *continued*
  foremen, b 115–6
  functions of, a b 114
  masters, b 116–7
  necessity for, a b 113
  schools, b 114–7
  workmen, b 114–5
—— (Austria), III, b 103; (Bavaria), b 391; (Belgium), b 448, *a* b 449; (Dyce, W.), VII, a 492; (Edinburgh), b 574; (Genoa), X, b 140; (Germany), b 423, a 424; (Italy), XIII, a b 471; (Paris), XVIII, b 286; (Prussia), XX, a 22. See Design, schools of, Industrial Education
—— German Periodicals, XVIII, b 552
Technics of painting (Baldovinetti), III, b 237; (Glass), X, a b 599, a 600; (Painting), XVIII, b 143, b 144; (Projection), XIX, b 826
—— of Sculpture, XXI, b 585–6, a 598–9
Technology, Institute of, Boston (Woman), XXIV, 912
Tecosc na Righ (Ireland), XIII, b 251
Tectæus, sculptor (Archæology), II, b 305
Tectology (Morphology), XVI, b 868, a 872
Tectona, genus (Teak) (Ill.), XXIII, b 110
Tectosages, tribe (Galatia), X, a b 18
TECUMSEH, chief, XXIII, a b 929
Teda, race (Soudan), XXII, b 291 note; (Tibbus), XXIII, *a b* 355, note
Tedder, hay machine (Agriculture), I, a 337
Teddington weir (River Engineering), XX, a 589
Te Deum, anthem (Handel), XI, b 388; (Hymns), XII, a 616, a b 624; (Plain Song), XIX, b 180; (Purcell), XX, a 120
Tedjeñ, province (Russia), XXI, b 76
Teen, god (China), V, a 558
Teen-che, lake (China), V, a 550
Teen-ning, Manchoo emperor (China), V, b 563, a 564
Teen-shan, mountains (China), V, a 554
Teen Wang, Tai-ping emperor (China), V, a b 566
Tees, river (River Engineering), XX, b 592, b 593, a b 594; (Stockton-on-Tees), XXII, a b 589; (Westmorland), XXIV, a 542; (York), XXIV, *a* 784, a b 786
Teeswater cattle (Agriculture), I, b 343; sheep (Agriculture), a 348
Teeth, animal (Amphibia), I, a 667, b 668,* b 674; (Antelope), II, a 90; (Ape), a 134, *a* 136, b 144–5; (Bear), III, b 398; (Beaver), b 410; (Camel), IV, b 650; (Crocodile), VI, a b 524; (Crustacea) (Ill.), b 564–5; (Dentistry), VII, b 83–7; (Digestive Organs) (Ill.), a 202–7;

Teeth, *continued*
  (Dog), b 282; (Echinodermata), b 545; (Goat), X, a b 633; (Hare), XI, b 425; (Hedgehog), a 545; (Ichthyology), XII, b 691, a b 692, a b 702, a b 705, a 706; (Iron, Therapeutics of), XIII, b 370; (Kangaroo) (Ill.), b 848, a b 849, a b 850; (Leech), XIV, b 401; (Lion), a 687; (Mammalia) (Ill.), XV, b 351-7; (Mammalia), *a* 392, *b* 393; (Mouse) (Ill.), XVII, a b 11, *a b* 12; (Narwhal), a b 241; (Opossum), a b 819; (Peccary), XVIII, a 460; (Phalanger), a b 741, a b 742, a 743; (Porbeagle) (Ill.), XIX, b 532; (Porpoise) (Ill.), b 536, a 537; (Reptiles) (Ill.), XX, a b 470, a b 471; (Rhinoceros) (Ill.), b 535-6; (Squirrel), XXII, a 455; (Tapirs), XXIII, b 61
——, artificial (Ivory), XIII, b 533-4; cement for stuffing (Zinc), XXIV, a 826: cheiroptera (Mammalia), XV, a 411; classification of (Mammalia), b 355; destruction of (Schizomycetes), XXI, a 416, b 424; development of (Mammalia), XV, b 352-3; double row (Monster), XVI, a 789; fossil (Mammalia) (Ill.), XV, b 377-9; (Ornithology), XVIII, a 47; origin of (Skeleton), XXII, a b 115, a 117, b 124; permanent (Mammalia) (Ill.), XV, b 354, a b 356; proboscidia (Mammalia) (Ill.), a 429; rooted (Mammalia), b 353; rootless (Mammalia) (Ill.), a b 353; succession of (Mammalia), a b 354; structure of (Mammalia), a b 352. See Dentition, Milk Teeth
——, mechanical, backs of (Mechanics), XV, b 768; friction of (Mechanics), a 777; spaces of (Mechanics), b 768; of wheels (Clocks) (Ill.), VI, b 31-3; rules for (Mechanics), XV, a 766-9
Teething (Dentistry), VII, b 85; (Dietetics), b 174-5
"Teetotal," origin of term (Temperance), XXIII, b 174
Teff, grain (Abyssinia), I, b 62
Tefnet, goddess (Egypt), VII, b 619, a b 620
TEGEA, city, XXIII, a b 117; (Greece), XI, a 85; (Mantineia), XV, a b 510; (Numismatics), XVII, a b 660
Tegel, Erik Gōrannson, historian (Sweden), XXII, b 792
Tegethoff, Wilhelm von, admiral (War), XXIV, b 386
Teggiano, town (Diano), VII, a 145
Tegh Badádur, gurú or chief (Punjab), XX, a 117
Teginjir, volcano (Sahara), XXI, b 157
Tegmen or endopleura (Botany) (Ill.), IV, b 139, a 140
Tegmenta or perulæ (Botany), IV, a 106
Tegmentum (Anatomy), I, *b* 771, *a* 772
TEGNÉR, Esaias, poet, XXIII, b 117-8; (Hammarsköld), XI, *b* 379; (Lund), XV, a 67; (Sweden), XXII, b 795
Tegua or Tehua, tribes (Indians), XII, a 865, b 866, a 867; (Pueblo Indians), XX, b 888
Tegucigalpa, department (Honduras), XII, b 135
Teguise, town (Canary Islands), IV, a 706
Tegumentary structure (Mammalia), XV, b 350-1
Tegyra, battle of, 373 B. C.? (Pelopidas), XVIII, a 490
Tehamah, district (Arabia), II, b 206, a 207, a 214, a 221
TEHERAN or Tehran, city, XXIII, b 118-9; (Persia), XVIII, b 633, a 636, a 639, b 640, a 643; treaty of, 1814 (Persia), b 660; treaty of, 1881 (Persia), b 628
Teheulche, tribes (Indians), XII, b 869-70
Tehri, town. See ORCHHÁ
Tehua, tribe. See Tegua
TEHUANTEPEC, isthmus, XXIII, a b 119; (Mexico), XVI, a 905, b 906; town, XXIII, b 119
Teias, chief (Narses), XVII, *b* 239-40
Teichonellidæ, family (Sponges), XXII, a 439
Teifi river (Cardigan), V, *a* b 84; (Pembroke), XVIII, a 492
TEIGNMOUTH, town, XXIII, b 119
——, John Shore, lord (Bengal), III, a b 492; (India), XII, a 843
Teinds or Tithes, XXIII, b 440
Teispes, king (Persia), XVIII, b 576, a 577
Teixeira, Pedro, historian, (Ormus), XVII, a 881
Tejeñ or Tejend, oasis and river (Transcaspian), XXIII, a *b* 544, a 545; (Herat), XI, b 637; (Khorásán), XIV, a b 68; (Merv), XVI, b 46, b 47
Tejidæ, family (Lizard), XIV, a 739
Tejo Novo, estuary (Tagus), XXIII, b 26
Tejuco, town (Diamantina), VII, b 140
Tekeen El-Gezeree, governor (Egypt), VII, *b* 650
Tekes, stream (Ili), XII, a 741
Tekir, city (Cnidus), VI, a 43
Tekke, princes of (Turkey), XXIII, a 681
——, tribes (Merv), XVI, b 46, a 47, a b 48, a 49; (Transcaspian), XXIII, *a* 545; (Turks), a 703
Telaga, lakes (Borneo), IV, b 50
Telav, town (Transcaucasia), XXIII, b 547
Tel Basta, town (Bubastis), IV, b 366
Telde, town (Canary Islands), IV, a 706
Telegoneia (Homer), XII, a 118
Telegonus, founder (Tusculum), XXIII, b 713
TELEGRAPH (Ill.), XXIII, a 119-36
  automatic systems, a 129-31
  cable manufacture, a b 122
  capacity tests, b 126
  chemical systems, b 128-9
  circuit working, a 131-2
  curb-sender, a b 135
  duplex system, a 132-3
  faults, tests for, b 127-8
  historical sketch, a 120-1
  insulator resistance, b 125-6
  land lines (Ill.), a b 121
  Morse system (Ill.), a b 128
  multiple system, b 133-4
  printing systems (Ill.), b 129-31
  quadruplex system, a b 133
  qualities, b 123-4
  recorders, submarine (Ill.), b 134-5
  relay working (Ill.), a 132
  signalling, modes of, b 119-20
  speed of signalling, b 135-6
  stock lines, b 130-1
  submarine cables (Ill.), b 121-3
  submarine working (Ill.), a 134-5
  submerging cables, b 122-3
  submerged cables tests, b 126-7
  testing, a 124-8
  translation, a 132
  units of measure, a b 124
  Wheatstone system (Ill.) a b 129
  wire resistance, b 124-5
  writing systems, a 131
—— (Amontons), I, b 654; (American Journalism), XVII, b 884, b 886; (Ampère), b 656; (Aurora), III, a 84; (Canada), IV, a 688; (Chappe), V, a 345; (China), b 583; (Colombia), VI, b 139; (Dupuis), VII, b 475; (Edgeworth, R. L.), b 568, a 569; (England), VIII, b 217-8; (Europe), a b 623; (Fire), IX, b 206; (Gutta Percha), XI, a 303; (Henry), b 601-2; (Mexico), XVI, b 903, a 905; (Morse), b 874: (Paris), XVIII, a b 292; (Patents), a 883; (Persia), a 665 note; (Post-Office), XIX, a 590-3, note, a 596; (Reporting), XX, a b 417, a 419; (United States), XXIII, b 879; (War), XXIV, b 367, a 368; (Wheatstone), XXIV, b 568
TELEGRAPH, American contributions to the, XXIII, b 929-30; Austrian (Post-Office), XIX, a 599; cable, equations of (Heat), XI, b 525; circuit interference (Telephone), XXIII, a 144; French, IX, b 455; (Post-Office), XIX, b 598; German, X, a 414; (Post-Office), XIX, a 600; Indian (Bussorah), IV, a 515; introduction of (United States), XXIII, b 813, a 817; Russian, XXI, a 96; (Press Laws), XIX, b 733
Telegraphic determination of longitude (Survey), XXII, a 939; (Time), XXIII, a 422
—— signals (Earth), VII, b 525-6
Telegraph, London Daily (Newspapers), XVII, b 429
Telegraph-plant, movements of (Physiology), XIX, b 69, a b 70
—— troop of British engineers (Army), II, *b* 507
Teleki, Joseph, count, historian (Hungary), XII, *a* 395
Telemachus, hero (Homer), XII, *b* 122
——, monk (Games), X, a 60
Télémaque (Fénelon), IX, a b 65; (France), b 514
TELEMETER (Ill.), XXIII, a 136-7
Teleology (Atoms), III, a 44; (Butler, Bishop, IV, a 520, a 522; (Evolution), VIII, a b 660; (Kant), XIII, a b 864; new development of (Zoology), XXIV, a b 841, b 856
Teleosaurus, Jurassic, fossil (Geology), X, a b 315
Teleostei, sub-class (Ichthyology) (Ill.), XII, a 677-80, a 683, a b 688, *a b* 689, *a* b 690-1, a b 692, a b 693, a b 694, a 695, b 696, b 697, *a b* 698, a 699, b 700, a 701, a b 702, a b 703, b 706, a 713, a 714, a b 718, a 723, b 726-33; (Skeleton), XXII, b 116, a b 122, *b* 126, *a* b 127
Telephanes of Sicyon, painter (Archæology), II, b 308
TELEPHONE (Ill.), XXIII, a 137-46
  annunciator (Ill.), b 145
  Bell's system (Ill.), b 138-9, a 141-2
  Blake transmitter (Ill.), a 140, a 143
  circuits, a 143-6
  condenser system, a b 139
  Edison's transmitter (Ill.), a 139, a b 140, b 142
  exchanges, b 144-5
  induction, b 143-4
  instruments (Ill.), a 141-4
  microphone (Ill.), b 139-40, b 142-3, b 144
  phonograph (Ill.), b 140, a b 146
  precursive experiments, b 137-8
  radiophone (Ill.), b 140, b 145
  Reis's system (Ill.), a b 138, a 141
  Rysselberg's system, a b 144
  sound characteristics, a 137
  transmitters (Ill.), a 139-40, a b 142
  working circuits, b 144-5
——(Magnetism), XV, a 273, a 276; (Paris), XVIII, b 292; (Patents), b 883; (Post-Office), XIX, a b 592; (Reporting), XX, a b 418

Telephones in United States, XXIII, a 930-2
  Bell's instrument, b 930-1
  Dolbear, a 932
  Edison, a b 931-2
  literature, a b 932
  litigation, a 932
  origin, a b 930
  phonograph, a 931 note
  principles, b 930

Telephus, king (Pergamum), XVIII, a 538
Telescope (Ill.), XXIII, a 146-70
  History, a 146-50
    achromatic glasses, a 149-50
    aerial instruments, a b 148
    Bacon, Roger, a b 146
    Della Porta, b 147
    Digges, a 147
    Dollond, b 149-50
    Dutch, early, a b 147
    Galileo and contemporaries, b 147-8
    Herschel to Fraunhofer, a b 150
    Newton and contemporaries, b 148-9
  Instruments (Ill.), b 150-70
    achromatic object-glasses, b 151-3
    adjustment, equatorial a 168-9
    clock mechanism, driving (Ill.), b 169-70
    computation methods, objectives, a 152-3
    Cook's equatorial (Ill.), b 162, a 163-4
    corrections, aberration, a 153-4
    Dorpat refractor (Ill.), b 161-2
    equatorial coudé (Ill.), a 168
    equatorial mounting (Ill.), a 159-66
    eye-pieces (Ill.), a 156-7
    facilities for using large instruments, b 166
    fluid objectives, b 155
    Greenwich equatorials (Ill.), b 160, a b 161
    Grubb's Lick observatory mounting (Ill.), b 165-6
    magnifying power, a b 151
    Melbourne reflector (Ill.), a 160-1
    micrometer research refractors (Ill.), a b 163, a 164
    mounting (Ill.), a 159-68
    object-glass construction, a b 158
    Oxford heliometer, b 162-3
    Paris photographic instrument, b 161
    phosphatic glasses, a b 155
    photographic objectives, a 154, b 155
Telescope, *continued*
  Instruments
    Pulkowa refractor (Ill.), a b 165
    reflector mountings (Ill.), b 166-7
    reflectors (Ill.), b 157-8
    refractors (Ill.), a 151-5
    Schröder's eye-pieces, a b 157
    separate lens color correction, a 155
    siderostatic instrument (Ill.), b 167-8
    small instruments for general uses, a 164-5
    specula construction, b 158-9
    triple object-glasses, a 154-5
    types, equatorial, b 159-69
    Vienna observatory (Ill.), a 163, a 164

—— (Amici), I, a 647; (Astronomy), II, b 659; (Campani-Alimenis), IV, b 665; (Fraunhofer), IX, *b* 640; (Gregory), XI, a 163; (Hamburg), b 362; (Harriot), b 440; (Herschel), a b 684, a b 686; (Huygens), XII, b 431, a 432; (Kater), XIV, b 16; (Light) (Ill.), b 587, a b 599; (Micrometer), XVI, a 250, b 251, b 256, b 258, b 260, a 266; (Microscope), b 272; (Mirror), a 524; (Newton), XVII, a b 451; (Optics), a 824, a 826, b 829-31; (Rosse), XX, b 878-9; (Transit Circle) (Ill.), XXIII, a 548-9; aerial, a b 148; (Huygens), XII, a 432; graphic (Camera Lucida), IV, a 655; marine (Gyroscope) (Ill.), XI, a 316; resolving power of (Optics), XVII, b 830; (Wave Theory), XXIV, b 455, a 456-8, a *b* 459, b 462; Talbot's bands in (Wave Theory), b 466; zenith (Earth), VII, b 518; (Geodesy) (Ill.), X, b 149-50
—— driving Clocks, VI, a 15
—— of Galileo, XXIII, b 147-8; X, b 29, note; (Astronomy), II, b 658
—— -Sights, XXII, a 54
—— surveyors (Surveying), XXII, a b 755
Telescopic Work in the United States, XXIII, b 932-6
  almucantar, b 935
  Brashear's reflectors, b 933
  celestial discoveries, a b 936
  Clark's instruments, b 934-5
  Draper's work and memorial, a b 933
  early opticians, b 923
  micrometers, a 935
  mountings, a b 935
  optical glass, a 934
  photography, b 932-3
  practical astronomy, b 935-6
  transit circles, b 935
  various opticians, a b 934
Telesinus, Caius Pontius, chief (Samnites), XXI, a 261
Telesius or Telesio, Bernardino, philosopher (Campanella), IV, *b* 664, a 665; (Evolution), VIII, a 681; (Renaissance), XX, a 398
Telesphorus of Rome, bishop, XXIII, a 170
Telestereoscope (Stereoscope) (Ill.), XXII, b 568
Telethrius, mountain (Eubœa), VIII, b 568
Teletskoye, lake (Siberia), XXII, a 10; (Tomsk), XXIII, b 166
Teleutospores, organs (Fungus) (Ill.), IX, *a* *b* 730
Telford, Thomas, engineer, XXIII, a 170-1; (Aqueduct), II, *a* b 200; (Bridges), IV, b 300, b 301; (Canal), a 691, *a* 692, b 695, a 696; (Roads and Streets), XX, b 597, *a* *b* 598, a 600
Telingana, kingdom (Deccan), VII, *b* 18
Telini fly (Cantharides), V, b 29
Tell, district (Algeria), I, b 496
Tell, William, archer, XXIII, a 171-2; (Altdorf), I, b 564; (Winkelried), XXIV, b 644
Tell, William, play (Germany), X, a 482; (Schiller), XXI, b 414; opera (Rossini), XX, a 884
Tell-El-'Amárineh, district (Egypt), VII, b 672
—— el Kády (Jordan), XIII, b 756, *a* 757
Teller, Wilhelm Abraham, theologian, XXIII, a b 172
Tellers or Talliers of the exchequer (Tallage), XXIII, b 34
Tell-es-Sâfi, village (Gath), X, a 98
Tellez, Gabriel, dramatist, XXIII, b 172-3; (Don Juan), VII, b 309; (Drama), b 364; (Spain), XXII, a 373
Tell-Hum, ruins (Capernaum), V, b 49; (Galilee, Sea of), X, b 27-8
Tellicherri, town, XXIII, a 173; (Malabar), XV, *a* *b* 315
Tellier, François Michael le, chancellor. See Louvois
Tellier's machine (Ice), XII, a 649
Tell Jezer, ruins (Gezer), X, a 499
Tell-pöss mountain (Tobolsk), XXIII, a 457; (Vologda), XXIV, a 303
Tell-tale Clocks, VI, b 24-5
Telluric acid (Chemistry), V, b 434, a 435, b 438, b 440
—— bismuth (Mineralogy), XVI, a 396
—— intoxication (Malaria), XV, b 322, a 323
Tellurides (Chemistry), V, a 434
Tellurite (Mineralogy), XVI, b 404
Tellurium and Selenium, XXI, b 663-4; (Electricity), VIII, a 43; (Mineralogy), XVI, b 395, b 407, b 408, b 409, b 419; alcohols and ethers (Chemistry), V, b 491-2; and its compounds (Chemistry), b 431-41; dioxide, *b* 434
Tellurous acid (Chemistry), V, a b 435, *a* 436, b 440
Telok Betong, district (Sumatra), XXII, a 673
Telo Martius, town Toulon), XXIII, b 514
Telpherage (Traction), XXIII, b 527-8
Telson, organ (Crustacea), VI, a 560, note, b 561, note, b 564
Telugu tribes (Missions), XVI, a 541; language (Dictionaries), VII, a 166; (Tamil), XXIII, *b* 46
Tema, weight (Weights and Measures), XXIV, *b* 513
Tema of Cephallenia, province (Ionian Islands), XIII, a 212
Têmbâyani, epic (Tamils), XXIII, a 49
Tembi, river (Niger), XVII, *a* 510
Teme, river (Radnor), XX, a 224
——, river (Shropshire), XXI, a 887; (Worcester), XXIV, b 700
Temenidæ, family (Macedonia), XV, b 137
Temenites, quarter (Syracuse), XXII, b 854
"Téméraire," ship (Gunnery), XI, a 279; (Navy), XVII, b 294, 296
Téméraire, The, by Turner (Schools of Painting) (Ill.), XXI, b 461
Temesvár, city, XXIII, a 173; battle of, 1849 (Hungary), XII, b 387
Temimi, Ismael ben Muhammed (Druses), VII, a 418
Temirsk, town (Uralsk), XXIV, a 71
Temiscamingue lake (Quebec), XX, a 171, a 172
Temkanmardi, town (Belgam), III, b 443
Temminck, Konrad Jakob, ornithologist, XXIII, a 173; (Ornithology), XVIII, a 15, note, b 16, a 18, b 21, a 25, a 26, b 48 note; (Orthonyx), a 56; (Quezal), XX, a b 186
Temmu, emperor (Japan), XIII, b 596
Temnikoff, town (Tamboff), XXIII, a 46
Temnocephala, genus (Leech), XIV, b 405
Temnotrogon, genus (Birds), III, b 650
Temnus, mountains (Mysia), XVII, b 129
Tempe, lake (Celebes), V, b 249, a 251
——, Vale of (Thessaly), XXIII, b 319
Tempel's Comets, VI, a b 172, a 173
Tempera, painting, XXIII, a 173-4. See Fresco
Temperament, tuning (Music), XVII, a b 98
——, growth of (Psychology), XX, b 88
Temperance Societies, XXIII, b 174-5
Temperance Tales (Sargent, L. M.), XXI, a 906
Temperate zone, northern (Ichthyology), XII, b 716-8; southern (Ichthyology), a 719-20; flora of (Distribution), VII, b 250-1

Temperature (Acoustics), I, a 97; (Aeronautics , b 184, a 186; (Africa), b 229; (Asia), II, a b 602; (Atmosphere), III, a b 30; (Australia), b 95; (Barometer), a b 331; (Baths), b 380-1; (Bridges), IV, b 257, a 265; (California), a 620; (Drunkenness), VII, b 416; (Elasticity), b 705-7; (Flame), IX, a 248; (Heat), XI, a 495; (Himalaya), b 740-1; (Hospital), XII, b 318; (Hydromechanics), a b 458, b 479-80; (Hydropathy), *b* 576, note; (Hygrometry), b 603-5; (India), a 777; (Iron), XIII, a b 365; (Lake), XIV, b 218-21; (Lighting), a 637; (Metallurgy), XVI, b 64-6; (Meteorology), a b 120, b 121-3, b 139-43; (Norway), XVII, a 593; (Polar Regions), XIX, b 339-40; (Strength of Materials), XXII, a 634; (Sweden) (Map), b 776-7; (United States), XXIII, a 854-6; (Weights and Measures), XXIV, b 505-7. See Climate, Heat

——, absolute (Heat), XI, a b 505, a 508, b 509, a b 511; (Steam-Engine), XXII, a 498; (Thermodynamics), XXIII, b 303, a b 305; measurement of (Steam-Engine), XXII, a 501

——, adjustments (Watch), XXIV, b 416-7

——, atomic (Molecule), XVI, a 641

——, Bee's perception of, III, a 421

—— blast in furnace (Iron), XIII, b 311-2, b 323-4, b 325

—— bodily, errors in regulating (Pathology), XVIII, b 402-7

—— charcoal burning (Gunpowder), XI, b 285

—— -charts (Typhus), XXIII, a b 719, b 721, b 723

——, conductivity effects of (Heat), XI, a b 518

—— critical mean (Climate), VI, b 4

——, daily change (Meteorology), XVI, b 122-5, a 189

——, death from extremes of (Atmosphere), III, b 32-3; (Medical Jurisprudence), XV, b 791

——, degradation of (Steam-Engine), XXII, a 497; distribution of population (United States), XXIII, b 875; disturbance in telescope (Wave Theory), XXIV, a b 459

——, earth's interior (Geology), X, b 199-202; energy of gases (Steam-Engine), XXII, b 498; forcing (Horticulture), XII, a b 253

——, glacial conditions of (Geology), X, a 195-6; gradient (Meteorology). XVI, a 139; house (Hygiene), XII, a 602

——, land (Meteorology), XVI, a 139-42; lava (Geology), X, a 220, b 221-2

——, life limits of (Biology), III, b 588-9, b 595-6; (Schizomycetes), XXI, a 424

——, limits in perfect engine of (Steam-Engine), XXII, b 504

——, liquefaction (Hydrogen), XII, b 449, b 550

——, Magnetic effects of, XV, b 273-5

——, man's (Pathology), XVIII, b 402-3

——, metal arch under (Bridges), IV, a 282

——, pitch dependent on (Tuning-Fork), XXIII, a 659

——, pulse effects of (Vascular System), XXIV, a 114

——, refractive effects of (Optics), XVII, *b* 824

——, saturated steam Steam-Engine), XXII, a b 502

——, Sea, XXI, a 606; (Atlantic Ocean), III, b 19-24; (Fisheries), IX, b 225; (Geography), X, a 189; (Geology), a b 251; (Ichthyology), XII, b 721; (Indian Ocean), a 861; (Meteorology) (Ill.), XVI, b 121, a 137-40; North Sea), XVII, b 577; (Norway), b 594; (Norwegian Sea), a 608; (Pacific Ocean) (Plate II.) XVIII, a b 122-3; (Red Sea), XX, b 329

——, sense of (Heat), XI, a 499; (Touch), XXIII, b 512-3

—— of soil (Agriculture), I, b 293-4; of springs (Geology), X, b 239-40

—— of stables (Horse), XII, b 196-7

——, sun-spot (Meteorology), XVI, b 187

——, surface-tensions and (Capillary Action), V, a 64

——, underground (Heat), XI, a b 517, b 519, *a* 523; (Meteorology), XVI, a b 137

—— Waves, XXIV, a b 443

Tempering (Alloy), I, a 518; (Annealing), II, a 58; blades (Sword), XXII, a 842; iron by stress (Elasticity), VII, b 709; steel (Iron), XIII, b 362-3; (Strength of Materials), XXII, a 631; effect on elasticity of (Iron), XIII, a b 364

Tempest, play (Shakespeare), XXI, a 786, b 792, a 801, b 805

Tempesta, Peter, painter (Janssens, V. H.), XIII, b 577

Tempier, Stephen, bishop (Arabian Philosophy), II, b 236

TEMPLARS, Knights, XXIII, b 175-81
- Acre period, b 177-8
- constitution, a b 179
- crusading period, b 176-8
- errors of, a b 181
- grandeur of, b 178-9
- Khárizmian and Beybar invasions, a b 178
- Latin kingdom, fall of, a b 177
- origin, b 175-6
- Saladin period, b 176-7
- spread of the order, a b 176

TEMPLARS, *continued*
- suppression of, b 179-80
- trial, evidence on the, a 180-1

—— (Baphomet), III, a 300; (Carnac), V, b 104; (Clement V.), a 718; (Crusades), VI, b 554, a 555, a b 557; (France), IX, a b 480; (Freemasonry), b 660; (Honorius), XII, b 146; (Inns of Court), XIII, a 96; (London), XIV, b 854, a 855, a 856; (Monachism), XVI, b 735, a 742: (Palestine), XVIII, b 182; (Popedom), XIX, b 513, a 516; (Saint John of Jerusalem), XXI, *a* 183; (Spain), XXII, a 331

Templates (Building), IV, a 416

Temple (Augurs), III, a 64; of Bellona, a 474; (Buto), IV, b 525; (Ellora), VIII, a 140; (Thera), XXIII, b 300; (Tivoli), a 449

——, Ædes Cereris (Liber and Libera), XIV, b 507

——, Amen-ra, Thebes (Egypt), VII, a b 639, b 675

—— of Antoninus and Faustina (Architecture) (Plate XIV, XVI), II, a *b* 365; (Rome), XX, a b 839

—— of Apollo (Antioch), II, a b 116; (Delphi), VII, a *b* 47; Miletus (Architecture), II, b 356; Palatinus (Rome)(Ill.), XX, b 841-2; Phigalia (Archæology), II, a 302, a 312, a b 314

——, Arsinoë (Dinocrates), VII, b 212

—— of Athene, Ægina (Archæology), II, b 307-8, b 309; Alea (Archæology), b 318; (Tegea), XXIII, b 117, Chalkioikos (Archæology), II, b 305; (Bronze), IV, a 332; Nike (Archæology), II, a 312, a b 314; (Athens), III, a 6, a 8, a 11; (Glass), X, b 577; (Platæa), XIX, b 188-9; at Sunium, III, b 53

—— of Athor at Denderah, VII, b 68-9; (Egypt), b 633, a 673; at Philæ (Egypt), b 679

—— of Augustus (Angora), II, b 41

—— at Bassæ (Architecture), II, a b 360

——, bronze Spartan (Metal-Work), XVI, b 79

——, Castor (Roman) (Plate VII) (Ill.), XX, a b 837, notes

—— of Chunsu (Circumcision), V, b 690

—— of Concord, VI, a 216; (Architecture), II, b 363, a 366; (Ring) (Ill.), XX, b 575; (Rome), b 839, note

—— of Confucius (Mencius), XVI, a 7; (Peking), XVIII, a 481

—— at Cora (Architecture), II, b 363, b 366

——, Cuzco (Pilgrimage), XIX, b 100

—— of Diana, Ephesus (Archæology), II, a 305, *b* 309, a 317; (Architecture), b 356; (Asylum), b 722; (Ephesus) (Plan), VIII, a b 414, b 415-6

—— of Dionysus, Teos (Greece), XI, a 119

—— of the Dioscuri, Athens (Archæology), II, b 313, a 314

——, Divus Julius (Rome) (Plate VII) (Ill.), XX, a 838

—— of Eleusis, VIII, a 121; (Archæology), II, b 314

——, El-Karnak, Thebes (Egypt), VII, a 643, b 673, a 674-5. See Karnak

——, El-Uksur, Thebes (Egypt), VII, a 640, *b* 673, a 674

—— at Elymais (Persia), XVIII, b 600, a 601, b 602

—— of Fortuna virilis (Architecture) (Plate XVI), II, b 363, a 364, *a* 366, a 367; (Rome) (Ill.), XX, b 847

—— of Fortune (Præneste), XIX, *b*.674, *a* 675

—— of Heaven, Peking, XVIII, a 481; (Architecture) (Ill.), II, b 392-3

TEMPLE, Hebrew (Ill.), XXIII, b 181-7
- Herod's house, a 184-5
- Josephus's topography, a b 185
- literature, a 187
- meaning, b 181-2
- Mishnah's topography, b 185-6
- reconstructed topography, a b 186
- Solomon's structure (Ill.), a 182-3
- west-wall, b 186-7
- Zerubbabel's edifice, b 183-4

—— (Adytum), I, b 162; (Architecture), II, a b 344; (Altar), I, *a* 563; (Haggai), XI, *a b* 331, note, *a* 332; (Hebrews), a 540, a 541; (Herod), a 675; (Isaiah), XIII, *a* b 391; (Israel), a 416, b 422, a 423, a 428, b 430, *a b* 431, a 432, *b* 434, *a b* 436, a b 437, a 438; (Jerusalem), a b 648-50, *b* 652-3; (Kings, Books of), XIV, *b* 86, a 87; (Pentateuch), XVIII, a b 521, a b 524; (Phœnicia), b 820; (Priest), XIX, a 747; Ezekiel's, VIII, a b 726; prediction concerning (Gospels), X, a b 739; service of (Levites), XIV, a 488, a 489; (Psalms), XX, a b 34, b 37

—— of Hera (Archæology), II, a 304, b 305; (Architecture), a 353; (Olympia), XVII, b 790; (Platæa), XIX, b 188-9; (Samos), XXI, a b 262

—— of Hercules (Brescia), IV, a 231

—— of Hierapolis, Hebrew (Temple), XXIII, *a* 182

—— of Ho-nang (Architecture), II, b 392

—— of Isis, Mansoorah (Egypt), VII, b 635, a 667; at Philæ (Egypt), b 679

—— of Juno (Gabii), X, a 4; Lacinian (Crotona), VI, a b 544

—— of Jupiter (Baalbec), III, a b 153; (Paris), XVIII, b 292; Ægina, I, b 163-4;

Temple, *continued* (Architecture), II, b 354, a 355, *a* 360; Ammon (Cambyses), IV, b 648; Capitolinus (Domitian), VII, a 308; (Inscriptions), XIII, a 135; (Rome), XX, b 844-5; (Terra-Cotta), XXIII, b 210; Latialis (Italy), XIII, a 452; Olympian (Agrigentum), I, a 370; Stator (Architecture) (Plate XIV), II, b 363, b 364, *a b* 365; (Rome), XX, a 841, note, 842; Tonans (Rome), a 845, note; Victor (Rome) (Ill.), b 840, 842
—— of Kamakhya (Gauháti), X, a 100; (Nowgong), XVII, a 624
—— of Kneph, Latopolis (Egypt), VII, b 678
—— of Krishna (Dwaraka), VII, b 489
——, Kwannon (Tokio), XXIII, b 461
—— of Lama (Jehol), XIII, a 630
——, Lindus (Mysteries), XVII, b 132
——, London (Inns of Court), XIII, b 95, a 96; (Libraries), XIV, a 516; (Templars), XXIII, a 179; middle (Inns of Court), XIII, b 93, *a* 94, a b 95-6. See Temple Bar, *infra*
—— of Mahaden (Somnáth), XXII, a 275
—— of Mars Ultor (Architecture), II, b 365
—— of Martund (Architecture) (Ill.), II, b 347
—— of Medeenet-Haboo (Egypt), VII, b 673, b 676-7
—— of Mencius, XVI, a 7
—— of Minerva, Medica, Rome (Architecture), II, a 367, b 380. See Temple of Athene
——, Moon-god, at Ur (Babylonia), III, b 160
—— of Nágarkot (Káugra), XIII, a 851
——, Na Khon Wat (Cambodia), IV, a 642
——, Neptune (Rome), XX, a 848
—— of Ombos (Egypt), VII, a 679
——, Osiris at Abydos (Egypt), VII, b 672-3
—— of Paestum (Archæology), II, b 309; (Architecture), *a* 355, b 359, a 360; (Pæstum) (Ill.), XVIII, b 137-8
——, Pái Kúli fire (Kurdistan), XIV, a 160
——, Paphos (Temple) (Ill.), XXIII, *a* 183; of peace (Basilica) (Ill.), III, a 357
—— of Ptah, Memphis (Egypt), VII, b 670
—— at Sadree (Architecture), II, b 347
——, Samaritan (Gerizim), X, b 399; (Israel), XIII, b 417, a b 429
——, Saturn (Rome), XX, a b 836
—— at Selinus, XXI, a b 665; (Architecture), II, a 355, a 356, *b* 359
—— of seven spheres, Borsippa (Architecture), II, b 349
—— of Somnáth (India), XII, b 831
——, Sun (Baalbec) (Ill.), III, a 154; (Hems), XI, *b* 579; (Palmyra), XVIII, b 203, a 204, b 206, note
—— of the Saviour (Moscow), XVI, b 884, a 885
—— of Theseus (Archæology), II, a 312, a b 313, a 314; (Architecture), a 355, b 362; (Athena), III, a 6
—— of a thousand columns (Trincomalee), XXIII, a 610
—— of Venus (Monte San Giuliano), XVI, b 808; (Pompeii), XIX, b 461-2
——, Venus and Rome (Rome) (Ill.), XX, a b 848, note
——, Vespasian (Rome), XX, b 827, b 839-40
——, Vesta (Fire), IX, b 199, *a* 200; (Rome) (Plate VII) (Ill.), XX, a b 838, notes; at Tivoli (Architecture) (Plate XVI), II, b 363, b 365, a 367
——, Victory (Rome) (Ill.), XX, a 842
—— of Vishrín (Amritsar), I, b 682; (Badrinath), III, b 197; (Srirangam), XXII, a 456
——, Zeus (Dodona), VII, a 280; (Olympia), XVII, b 790
Temple, The, poem (Herbert, George), XI, b 644-5
——, family (Palmerston), XVIII, b 197
——, George, earl (Junius), XIII, a b 787; (Pitt), XIX, *a* 149, note
——, Sir John, master of rolls, XXIII, *a* b 187
TEMPLE, Sir William, statesman, XXIII, a 187-8; (Atterbury), III, b 47; (Political Economy), XIX, a 370; (Swift), XXII, a *b* 800-1
—— Bar (London), XIV, b 849, b 855; market, a 837. See Temple, London
Temple de Gnide, allegory (Montesquieu), XVI, a 809
—— *du Goût* (Voltaire), XXIV, b 307
Temple of Glory, painting (Mengs), XVI, b 14
Temples (Ava), III, a 125; (Baalbec), b 153-4; (Babylon), b 158; (Babylonia), b 163, a 164; (Canton), V, b 34; (Central America), I, a b 609; (Hermon), XI, a 672; (Inscriptions), XIII, b 125, a b 127; (Japan), a 583, b 590; (Java), a b 619-20; (Kashmír), XIV, b 13; (Lhasa) (Ill.), b 498-9, a b 500; (Nara), XVII, b 235-6; (New Guinea), a 398; (Nikko), a b 516; (Penates), XVIII, b 499; (Phigalia) (Ill.), b 748, a b 749, a 750; (Phœnicia), a 823; (Pompeii), XIX, a b 461, a 462; (Poros), b 535; (Rome) (Ill.), XX, b 826, note, a 835, a 838, b 844, note, a 845, a 847-8; (Siam), XXI, b 893; (Tribunes), XXIII, b 591-2
—— of Agrigentum (Architecture), II, a 355, a b 356, *b* 359, a b 360, a 361, a 367
——, Aztec (Mexico), XVI, b 219, b 222
——, Egyptian (Architecture) (Plate VII), II, a 340-2, a 360; (Libraries), XIV, b 509. See specific names, especially under Temple
——, Etruscan primitive (Astrology), II, b 646
——, Greek (Architecture) (Plates VIII-XI), II, b 353, b 358-60, *b* 362; (Asylum), b 722; (Ionia), XIII, b 211; (Lamp), XIV, b 248-9; (Slavery), XXII, b 138, a 139. See Temples, by specific names
——, Hindu (Amritsar), I, b 682; (Amapura), b 574; (Architecture) (Ill.), II, b 345-8; (Badrinath), III, b 197; (Brambanan), IV, a 93; (Ceylon), V, b 318-9; (Chanda), a 339; (Gwalior), XI, a 309; (Himalaya), b 745; (Kandy), XIII, b 846; (Lahore), XIV, b 214; (Nepāl), XVII, a 351; (Ozaka), XVIII, a b 115; (Srirangam), XXII, a 456; (Tanjore), XXIII, b 51
——, Jain, XIII, a 553, a 554; (Abu), I, b 59; (Ahmadabad), b 375; (Ajmir), b 384-5; (Cambay), IV, b 639
——, Roman (Architecture), (Plate XVI), II, b 366-7; (Inscriptions), XIII, a 153; (Nimes), XVII, *b* 523, *a* 524. See Temples, specific names
——, roofs of (Tiles) (Ill.), XXIII, a 414-5
Templetogher, battle of (Ireland), XIII, b 266
Templeton, James, inventor (Carpet), V, a b 115
Templeton's *Millwright's and Engineer's Companion* (Tables), XXIII, a 18
Temporal bone (Anatomy) (Ill.), I, a 723
—— signs in representation (Psychology), XX, a 66, note, a 68, b 69
Temporalities, ecclesiastical (Investiture), XIII, b 207; (France), IX, b 469; abolition of (Popedom), XIX, a 523; papal acquisition of (Rome), XX, b 820-1, b 822, b 823-4. See Church and State, Papal Supremacy, Supremacy
Temporary Acts (Statute), XXII, b 486; Annuities, II, b 71; teeth (Dentistry), VII, a b 84
Temporis Partus Masculus (Bacon), III, a 182
Temporo-sphenoidal lobe (Anatomy), I, b 766, b 767, a 772
Temptation, the (Jesus Christ), XIII, b 673
Temptation of Adam and Eve (Masaccio), XV, b 612
Temuchin, emperor (Jenghiz Khan), XIII, b 631
Temurah (Hermeneutics), XI, a 665
Tenacity (Mineralogy), XVI, b 393
Tenaille (Fortification) (Ill.), IX, a 384, b 385, *a* b 386, a 389, b 392
Tenailled heads (Fortification) (Ill.), IX, b 382, a 383
Tenampua, ruins of (Honduras), XII, a 135 note
Tenancies-at-will (Agrarian Laws), I, b 257; (Agriculture), b 361, b 364, b 368; (Land), XIV, b 261, b 264, a 265; (Landlord and Tenant), a 274
Tenancy (Agriculture), I, a *b* 361, a 365; (Copyhold), VI, *b* 315; (Distress), VII, b 231-2; (Fixtures), IX, b 239, a 240; (Game Laws), X, b 56, b 57; (Ireland), XIII, a 225-8, b 233-4; (Italy), b 461-2; (Joint), b 741; (Landlord and Tenant), XIV, a 273-8; (Littleton), b 710-1; (Waste), XXIV, b 414-5; in Ulster (Ireland), XIII, b 225, b 233, a 272
Tenant by curtesy (Husband and Wife), XII, b 416
Tenant of Wildfell Hall (Bronte), IV, a b 329, a 330
TENASSERIM, district, XXIII, b 188-9; (Burmah), IV, *a* b 497; (Burmah, British), b 499, b 500; (India), XII, a 773
—— mountain range (Malay Peninsula), XV, b 323
—— river (Burmah, British), IV, a b 500; (Mergui), XVI, b 40, a 41; (Tavoy), XXIII, a 91
Ten Brink, Jan, poet (Chaucer), V, b 391; (Holland), XII, a *b* 100
TENBY, watering place, XXIII, a 189; (Pembroke), XVIII, b 492, a b 493
TENCH, fish (Ill.), XXIII, a b 189; (Angling) (Ill.), II, a 40
Tencin, Claudine Alexandrine de, courtesan (Marivaux), XV, a 558
Ten Commandments (Buddhism), IV, b 390; (Decalogue), VII, b 15-7; (Philo), XVIII, a 777
Tenda, Col di (Alps), I, a 545, a 548
Tender Husband, The (Steele), XXII, a 555
Tender of Payment, XVIII, b 451
Tendon (Anatomy), I, b 731, *a* b 746, *a* 747; (Horse), XII, b 181-2; cutting (Hunter, J.), b 401; granulation (Pathology) (Ill.), XVIII, b 369
Tendre, mont (France), IX, a 446; (Jura), XIII, a 791
Tendrils (Botany), IV, b 86, b 102-3; twining of (Physiology), XIX, a 68
Tenebrio molitor, species (Coleoptera) (Ill.), VI, a 116, b 120
Tenebrosi school, painters (Ribera), XX, a 547
Tenein, Cardinal (Charles Edward), V, b 369
Tenement valuation act (Ireland), XIII, b 241
Teneriffe, island (Canary Islands), IV, *b* 702, *a b* 703, a b 704-5; (Ice), XII, a 646; (Wine), XXIV, *a* 640; bombardment in (Blake), III, b 698

Teneriffe, Peak of (Map), XV, b 528
Tengha river (Sultánpur), XXII, a 671
Tengir-To, prince (Tibet), XXIII, b 367, a 368
Tengri-nur, lake (Tibet), XXIII, b 362
Teniers, David, 1st, painter, XXIII, *b* 189, a 190
TENIERS, David, 2d, painter, XXIII, b 189-91; (Ostade), XVIII, b 61
Tenimber, islands. See TIMOR LAUT
TENISON, Thomas, archbishop, XXIII, a b 191; (Talbot), a 919
Tenkasi, town (Tinnevelli), XXIII, b 431
Tennant, Col. (Astronomy), II, b 689, b 690-1
——, Charles, inventor (Bleaching), III, *a* b 705, a 713; (Glasgow), X, b 575, a 576
TENNANT, William, poet, XXIII, b 191-2
Tennantite (Mineralogy), XVI a 412
Tennant's grubber (Agriculture) (Ill.), I, b 278-9, b 286
—— tillage system (Agriculture), I, a b 301
Tennent, Gilbert, preacher, XXIII, b 936; (Presbyterianism), XIX, *a* 718
TENNENT, Sir James Emerson, traveller, XXIII, a b 192; (Butterflies), IV, a 529; (Cocoa-nut Palm), VI, b 94
——, John, preacher, XXIII, *b* 936
TENNENT, William, 1st, preacher, XXIII, b 936
TENNENT, William, 2d, the entranced, XXIII, *b* 936
Tennes II., Sidon (Phœnicia), XVIII, b 822
TENNESSEE, state (Plate II), XXIII, b 192-5
  bibliography, a 195
  boundaries, b 192
  geology, b 192-3
  history, b 194-5
  industrial features, b 193-4
  political features, a b 194
  rivers, b 192
—— (Houston, S.), XII, b 332; (Reformatories), XX, b 898, a 899, a 902; (Slavery), XXII, b 907; (Thomas), XXIII, *a* 939; (Universities), a 913, a b 957; history of (United States), b 795, *b* 801, b 803, b 805, b 821, a 823, note, a 825, b 826, a 827, a 828, *b* 829, b 831; statistics (United States), b 853, b 855, b 857, b 859, *a* b 860, *b* 864, a 866, b 867, a *b* 878; settlement of (Robertson), XX, a 910; territory (United States), XXIII, a 787; topography (United States), *a* 843, b 845
—— pass (United States), XXIII, a 846
—— river, XXIII, *a b* 193
Tenniel, John, satirist (Caricature), V, a 93
TENNIS, game, XXIII, a 195-9. See Lawn Tennis
Tennyson, Alfred, Baron, poet, (Drama), VII, b 379; (Duel), a 444; (Lincoln), XIV, b 660; (Louth), XV, b 27; (Lytton), *a* 124, note; his *In Memoriam* (Hallam), XI, a 351
Tenochtitlan, city (Mexico), XVI, a 214, b 217, b 230
Tenons (Building) (Plate XXIII, XXIV), IV, b 428-9, b 430-1, a b 439
Tenor, part in song (Music), XVII, b 89 note
Tenorite (Mineralogy), XVI, a 401
Tenos, island (Pilgrimage), XIX, a 104
Tenotomy, surgical operation (Club-Foot), VI, b 41
"Ten-pins," game of (Bowls), IV, a 164
Tenrec, animal (Hedgehog), XI, a 545; (Hibernation), a 704
Tenses (Grammar), XI, b 37, a 38, a 39; (Hindūstānī), b 752-3; Græco-Italic (Greece), *b* 116; primitive (Greece), a b 114
Tenshô daijin, goddess (Japan), XIII, a 591
Tensile strength (Iron), XIII, a 289, b 363-5; of materials (Bridges), IV, b 254-5; of steel (Iron), XIII, b 363-5
Tension (Diagrams), VII, a b 130 (Joints), XIII, a b 742-3; (Magnetism), XV, a 271; (Mechanics), b 755; of flexible surfaces (Hydromechanics), XII, b 461; fracture by (Strength of Materials), XXII, a 632; impulsive (Mechanics), XV, b 750; of liquid films (Capillary Action), V, *b* 52, b 53-6, b 59-62
——, doctrine (Stoics), XXII, b 590, b 591, b 592, *a* 593
—— bars (Building), IV, a 405
—— of strings (Acoustics), I, a 105; (Pianoforte), XIX, *b* 82, b 85, a 86
Tensions (Sewing-Machines), XXI, b 920
Tenson, song (Provençal Literature), XIX, b 900
Tensor tympani, muscle (Ear), VII, b 511
TENT, shelter, XXIII, b 199 200; (Kirghiz), XIV, b 97; (Paul), XVIII, a 426, b 430; for worship (Tabernacle), XXIII, a 10
Tentacles (Actinozoa), I, a *b* 120; (Corals), VI, b 327-8, a 341, a *b* 342; (Cuttle-Fish), *b* 649; (Hydrozoa) (Ill.), XII, a 581, note, *a b* 582, *a* b 583, a b 584, *b* 585, b 586, b 587, *a b* 589, b 590-1, *a* b 592, a b 595, b 596; (Tunicata), XXIII, a 650, b 657; of crinoids (Echinodermata), VII, b 551-2; of Drosera (Insectivorous Plants), XIII, *b* 140, *a b* 141, *a b* 142; of holothuroids (Echinodermata), VII, b 554, a 555; Lamellibranchia (Mollusca), XVI, a 714; of Nautilus (Mollusca), a 692, a b 693, a 699-700
Tentaculitidæ, fossil (Mollusca), XVI, b 690
Tentaculocyst of medusæ (Hydrozoa) (Ill.), XII, b 584, a 585, b 588, *a b* 589, a b 590, a 592, a 593, a b 594, b 596
Tente d'abri (Tent), XXIII, a 200
—— en el Ayre (Negro), XVII, a 329
Tenth century, events in B.C. (Chronology), V, b 625; A.D. (Chronology), a b 630
Ten Thousand, retreat of the (Macedonian Empire), XV, a 141; (Persia), XVIII, b 588. See *Anabasis*
Ten Thousand a Year (Warren), XXIV, *a* 394
—— *Martyrs of Nicomedia*, painting (Durer), VII, b 481
Tenthredinidæ, family (Hymenoptera) (Ill.), XII, a *b* 606, *a b* 607, a *b* 608, *b* 610; (Saw-Flies) (Ill.), XXI, a b 358
"Tent of tryst" (Tabernacle), XXIII, b 9, a 10
Ten tribes, revolt of the (Israel), XIII, a b 416
Tent or Tinto Wine, XXIV, b 639
Tent Work in Palestine (Sepulchre), XXI, a 705
Tentyra, town. See DENDERAH
Tenure. See Land Tenure
—— (Peerage), XVIII, a 474-5; in chivalry (Knighthood), XIV, a 114-7; of office bill (United States), XXIII, a 830
Tenures (Littleton), XIV, *b* 709-11
"Ten Years' Conflict," ecclesiastical (Scotland), XXI, a b 564. See FREE CHURCH OF SCOTLAND
Teocalli, mountain (Colorado), VI, b 145
Teocallis, pyramids (America), I, b 610; (Architecture) (Ill.), II, a 394; (Mexico), XVI, b 219, b 222, b 229
Teos, island (Numismatics), XVII, a 664
Teoscopoli, Domenico, engraver (Titian), XXIII, b 443
Tepanecs, tribe (Mexico), XVI, a b 217
Tepehuan Dictionary VII, a 168
Tepelini, beylik, (Ali Pasha), I, a 505
Tephroite (Mineralogy), XVI b 427
Tepidarium (Baths), III, b 375, *a* b 376
Teplos-iz, peak (Ural Mountains), XXIV, a 8
TEPLITZ or Toplitz, town, XXIII, a b 200; (Mineral Waters), XVI, a 452; treaty of, 1813 (Aberdeen), I, b 48
Teppukulam, tank (Medura), XV, b 194
Tepters, race (Russia), XXI, *a* 87, b 88
Tequila, town (Mexico), XVI, a 910
Teragai, chief (Timur), XXIII, b 425-6
Terai, districts (Malaria), XV, a 320; (Nepāl), XVII, a b 349
TERAMO, town, XXIII, b 200; (Abruzzo), I, a 57
TERAPHIM, idols, XXIII, b 200-1; (Image Worship), XII, b 749; (Israel), XIII, b 419
Teratology (Botany) (Ill.), IV, a 116-8; (Monster), XVI, b 788; works on (Geoffroy-Saint-Hilaire, I.), X, b 156
Terbelis, king, Bulgaria (Justinian II.), XIII, b 807; (Philippicus), XVIII, a 762
Terbium (Lanthanum), XIV, b 292; spectrum (Spectroscopy), XXII, b 390-1
Terborate of lead glasses (Telescope), XXIII, a b 155
TERBURG, Gerard, painter, XXIII, a 201; (Metsu), XVI, a 207; (Mieris), a 301; (Schools of Painting), XXI, b 459, a 464
Terce (Husband and Wife), XII, b 417
Terceira (Azores), III, b 147, *a* 148, a 149; (Brazil), IV, a 216; battle of, 1582 (Cervantes), V, a 305
——, Villa Flor, duke of (Portugal), XIX, *a* b 568, a 569
Terchloride of formyl (Chloroform), V, b 590
Terebella, genus (Worm), XXIV, a 714, *a* 715
Terebellidæ, family (Annelida) (Ill.), II, b 58, a 59, a b 60, *a* 61
Terebinth tree (Turpentine), XXIII, a 711
Terebrantia, group (Hymenoptera), XII, a 610, a 611; (Insects), XIII, b 154
Terebratella, genus (Brachiopoda) (Ill.), IV, a 171, a 172, b 173, b 176
Terebratula, genus (Brachiopoda) (Ill.), IV, b 170, *a b* 171, *a* 172, a 173, *a* 174, b 176
Terebratulidæ, family (Brachiopoda), IV, b 176
Terebratulina, sub-family (Brachiopoda) (Ill.), IV, b 170, a 171, *a b* 172, a b 173, a b 176; (Polyzoa) (Ill.), XIX, b 455-6
TEREDO, ship-worm, XXIII, a 201-2; (Black Sea), III, a 694; (Harbors and Docks), XI, a 414; (Mollusca), XVI, a 711, b 713; (Teak), XXIII, a 111
TEREK, government, XXIII, b 202-3; (Russia), XXI, b 76, note; battle of, 1395 (Mongols), XVI, b 774
——, river (Caucasus), V, *a* b 221, *a* 222, *a* 223, b 224; (Russia), XXI, a 81; (Terek), XXIII, a 203
Terektinsk mountains (Tomsk), XXIII, a 466
Terella, spherical magnet (Magnetism) (Ill.), XV, b 223-4
TERENCE, Publius T. Afer, dramatist, XXIII, a 203-5; (Drama), VII, b 355; (Horace), XII, a 168; (Menander), XVI, *a b* 6, note; (Mendelssohn), a 13; (Paulus), XVIII, b 446; (Plautus), XIX, b 227, *a b* 228; (Roman Literature), XX, b 737-8; *Codex Bembinus* (Palæography), XVIII, b 156, b 157
Terentilian Law (Roman Law), XX, b 696, a 697

Terentilius, Caius Arsa, tribune (Roman Law), XX, a 697; (Rome), b 756
Terephthalic acid (Phthalic Acid), XVIII, a 869
Teresa. See THERESA
Tereus, king (Nightingale), XVII, b 512
Terfezia leonis, species (Truffle), XXIII, a 629
Terga, genus (Myriapoda) (Ill.), XVII, b 125, a *b* 126, a 127
Tergeste, town. See TRIESTE
Terglou, mountain (Alps), I, a 547, *a* b 555; (Carniola), V, b 106; (Gorz), X, a 700
Ter Gonwae, town. See GONDA
Tertillus, tyrant (Himera), XI, a 746
Terina, town (Numismatics), XVII, a 654
Teri Toi, river (Kohát), XIV, b 136
TERLIZZI, town, XXIII, a 205
TERM, law-word, XXIII, a b 205
T'erma cloth (Tibet), XXIII, a 364
Termagant, bird (Grouse), XI, b 197, note
Termera, city (Numismatics), XVII, b 664
Termessus, city (Pisidia), XIX, a 139
Termeyer, R. M. de, inventor (Arachnida), II, b 259–60
Termez or Termedh, town (Hissar), XII, b 5
Terminalia, plant (Leather), XIV, a 382
Terminer. See OYER AND TERMINER
TERMINI or Termini Imerese, town, XXIII, b 205; (Himera), XI, a 746
Terminillo, monte (Italy), XIII, a 447
Terminists, schools (Scholasticism), XXI, a 448
Terminus, god (Numa Pompilius), XVII, b 628
Termitarium, genus (Ant), II, b 88
Termites, group (Ant) (Ill.), II, a 84, a 88–9; (Ceylon), V, a 316; (Insect), XIII, *b* 152, a 159; (Teak), XXIII, a 111. See White Ants
Termonde, town. See DENDERMONDE
TERN, bird, XXIII, a b 206
——, river (Shropshire), XXI, b 886
Ternan, Pictish missionary (Scotland), XXI, b 496
Ternary quadratics (Curve), VI, b 637; (Numbers), XVII, b 636
TERNATE, island and town, XXIII, b 206; (Indian Archipelago), XII, a 855 note, a 857, a 858, *b* 859; (Jilolo), XIII, b 703, a 704; (Moluccas), XVI, a 723; residency (Celebes), V, a 250, a b 251, *a* 252
Terne-plate (Iron), XIII, b 367
TERNI, town, XXIII, b 206–7; waterfall (Italy), XIII, a 448
Ternstræmia, plants (Distribution), VII, a 252
TERPANDER, poet, XXIII, a 207; (Greece), XI, b 124; (Music), XVII, a 86, note
Terpenes (Chemistry), V, b 476, b 485; (Lemon), XIV, b 439; (Oils), XVII, a b 769
Terpsichore, myth (Muses), XVII, a 81
Terra Australis Incognita (Polar Regions), XIX, b 341
Terraces, alluvial (Geology), X, a b 327, a b 328; fluvial (Geology), a 246; (Gold), b 661; garden (Horticulture), XII, b 253; lacustrine (St. Lawrence), XXI, b 186, b 187; marine (Geology), X, b 326, b 328
TERRACINA or Tarracina, town, XXIII, a b 207; city (Latium), XIV, b 345
TERRA-COTTA (Ill.), XXIII, b 207–12
  African, a 210
  Asia-Minor (Ill.), a 209–10
  Architecture, Greek (Ill.), a b 210
  collections, a b 212
  Etruscan, b 210
  Greek, b 207–10
  literature, b 212
  Magna-Græcia (Ill.), a b 210
  meaning, b 207
  mediæval (Ill.), a 211–2
  modern, a 212
  Roman (Ill.), a 211
  Tanagra (Ill.), a 208–9
—— (Archæology) (Ill.), II, a b 308; (Architecture) (Ill.), a 350; (Babylonia), III, a 164; (Brick), IV, a 253; (Caltagirone), a 631; (Etruria) (Plate VIII), VIII, b 565–6; (Gaur), X, *a* 104; (Japan), XIII, b 600–1; (Robbia), XX, *b* 605, note, b 607, a 608; (Sculpture) (Ill.), XXI, a 590, b 596; (Sicyon), XXII, b 37
—— da Sienna, color (Pigments), XIX, b 95
—— di Lavoro, district (Italy), XIII, b 452
Terra Japonica. See CATECHU
TERRANOVA or Terranuova, town, XXIII, b 212; (Thurii), b 352
Terra Pilata, town (Caltanisetta), IV, a 631
Terrapin, edible reptile (Reptiles), XX, b 459; (Tortoise), XXIII, a 484, note; vertebræ of (Skeleton), XXII, a 119
Terra sigillata or medicinal earth (Lemnos), XIV, a 437
TERRE HAUTE, Indiana, city, XXIII, b 212
—— Noire works (Iron), XIII, b 289
Terrestrial eye-piece (Telescope), XXIII, b 156
—— magnetism (Meteorology), XVI, a 164, b 192
Terrestrial Magnetism, Walker's, XVI, a 171 note, a 179, a 184, a 186
Tericolæ, group (Worm), XXIV, b 712, *b* 718
Terricole Lichens, XIV, b 565, b 566
Terrier or survey, Hapsburg (Switzerland), XXII, b 821
Terriers (Dog) (Ill.), VII, b 287
Territelariæ (Arachnida), II, b 259, b 260
Territorial cessions (Treaties), XXIII, b 564; claims, State (United States), XXIII, a 794–5; division of labor (Commerce), VI, a 176; government (United States), XXIII, b 794–5, a 799, b 801–2; slavery (United States), a 824
Terror, Mount (Polar Regions), XIX, b 342
——, Reign of (Carrier), V, b 122; (France), IX, a b 534; (Robespierre), XX, a b 619–20; (Tallien), XXIII, a 38
Terry, Eli, manufacturer (Patents), XVIII, b 880
Tersatica, town. See FIUME
Terschelling, island (Holland), XII, b 62, a 65
Terskei, mountains (Syr-Daria), XXII, *b* 857
TERSTEEGEN, Gerhard, hymnodist, XXIII, b 212–3; (Hymns), XII, b 622
Tertiaries, associates (Francis, St.), IX, a 611; (Franciscans), a b 616; (Monachism), XVI, b 737, a 742
Tertiary age (Archæology), II, b 291, a 294; (Australia), III, *a* b 94; (Geology), X, b 319–24; (Lyell), XV, a 102; (Mammalia), a 350; (Reptiles), XX, b 479; (Russia), XXI, a 82; (Spain), XXII, a 310; Coals, VI, b 46, b 52–3, a 55; (Corals), VI, a b 340, a 341; fauna (Distribution), VII, b 239–40, b 245, 246, a 248; (Zoology, American), XXIV, b 925; flora (Distribution), VII, b 249, a b 250, a b 252
TERTULLIAN, Quintus Septimius Florens, Montanist, XXIII, a 213–5
  age of, a b 214
  bibliographical, a b 215
  intellectual and moral force of, a b 213
  personal development, b 213–4
  rise of Christian literature, a 213
  works of, b 214–5
—— (Anthropomorphism), II, a 109; (Canon), V, a 3, b 7, a 8, a b 9, b 10, b 13; (Canonization), a 22; (Christianity), a b 603; (Creeds), VI, *a* b 495; (Ebionites), VII, a b 535; (Ephesians, Epistle to the), VIII, b 408; (Episcopacy), b 431, a b 432; (Eschatology), a 475; (Hebrews), XI, a 538; (Heresy), *b* 655; (Hermeneutics), a 667; (Incense), XII, b 759; (Latin Language), XIV, b 339; (Mary), XV, b 596; (Millennium), XVI, a 329; (Minucius Felix), b 515; (Monachism), a b 725; (Montanism), a b 802–3; (Penance), XVIII, a b 496; (Popedom), XIX, a 504, note; (Purgatory), XX, a 121; (Scepticism), XXI, b 398; (Valentinus and Valentinians), XXIV, *b* 43, *a* 44, a 45, a 46
Tertullian senatus consultum (Roman Law), XX, *a* 726
TERUEL, province, XXIII, b 215; (Spain), XXII, b 312, b 314, a b 315; city, XXIII, a 216
TESCHEN, town, XXIII, a 216
Teseide, epic (Boccaccio), III, a 733; (Italy), XIII, b 514
Tesora or Tossora, town (Celebes), V, a 251
Tesoretto (Italy), XIII, b 511
Tessellated Mosaics, XVI, b 877, b 878
Tesseraconteres, vessels (Ships), XXI, b 843, b 844, a 845
Tesseræ, tablets (Brick), IV, a 253; (Gladiators), X, a 564; (Mosaic), XVI, a b 878, a b 879, a 881; (Plate), XIX, a 189
Tessié du Motay generator (Iron), XIII, a 302
Tessin, canton. See TICINO
——, Karl Gustav, count, statesman (Sweden), XXII, b 794
Test, river (Hampshire), XI, b 384
——, shell (Histology), XII, a 6; (Foraminifera), IX, *b* 325, b 326, a 327, *a b* 328, *a b* 329, a 339; Tunicata (Ill.), XXIII, b 648, a 649
Testa or episperm (Botany) (Ill.), IV, b 139, *a* 140
Testaccio, Monte (Rome), XX, b 852 note; games at (Carnival), V, *a* b 108
Testacea, order (Protozoa), XIX, b 864–5
Testacella, genus (Mollusca) (Ill.), XVI, b 684, a 685
TEST ACTS, XXIII, a 216–7; (Abernethy), I, b 49; (Argyll), II, b 438; (England), VIII, b 313, b 314, b 315, a b 317; (Independents), XII, a 766; (James II., England), XIII, *b* 569–70; (Scotland), XXI, b 538, *a* 539; (Stair), XXII, a 462; repeal of (Pitt), XIX, b 153, b 158. See Religious Tests, Toleration
"Testa di porco," musical instrument (Pianoforte), XIX, *b* 73, b 77
Testament. See *New* and *Old-Testament*
—— *of Cresseid* (Henryson), XI, a 604
—— *of Ephraem* (Syriac Literature), XXII, *a* 868. See EPHRAEM SYRUS
—— *of Love* (Chaucer), V, b 390
—— *Politique* (Mirabeau, V. R.), XVI, a 521
Testaments or Wills, XXIV, b 601–6; (Corporation), VI, a b 384; Greek (Isæus), XIII, b 387–8; jus civile (Roman Law), XX, b 708–9; jus naturale (Roman Law), b 725–6; Justinian code (Roman Law), a b 733; military (Roman Law), b 724–5; (Will), XXIV, b 604–5; prætorian (Roman Law), XX, *b* 720–1; Quiritian Law (Roman Law), *a* b 691, a 692, b 694; Roman (Slavery), XXII, b 142. See WILL

Testaments, poems (Villon), XXIV, b 249, a b 250, a 251
—— *of the Twelve Patriarchs* (Gospels), X, b 720 note, b 723 note
Testatum, Breve, deed (Writ), XXIV, b 72–8
Test coil (Magnetism), XV, b 241–2
Testes, organs (Insects), XIII, b 152; (Mammalia), XV, b 370; (Reproduction), XX, b 420, *a* b 421; (Reptiles), a b 476; (Worm), XXIV, *a* 716; cerebric (Anatomy), I, a 770; of infusoria (Animal Kingdom), II, a 46
Testimony (Probability), XIX, b 797–800; (Women), XXIV, b 908, b 909; its relation to Belief, III, b 460, a 462. See EVIDENCE, WITNESS
Testing (Gunpowder), XI, b 294–5; (Magnesium), XV, b 219; (Oils), XVII, b 765–6; (Strength of Materials) (Ill.), XXII, b 625–32; (Sulphur), a 671; essential Oils, XVII, a 770; gas (Gas-Lighting), X, b 90; glucose (Sugar), XXII, b 656–7; light in carbon-tissue (Photography), XVIII, a 845; lines (Telegraph), XXIII, a 124–8; oil for inflammability (Paraffin), XVIII, b 243; Petroleum, a b 733, a b 892; rifle barrels (Gunmaking), XI, b 251, a 252; Steam-Engines (Ill.), XXII, a 510–4; steel (Iron), XIII, b 287, a 289
—— establishment for Watches, XXIV, a 420
Testry, battle, 687 (France), IX, a 469
Testudinata, sub-order (Tortoise), XXIII, b 485–6
Testudinidæ, family (Tortoise), XXIII, a b 486, a 487
Testudo, genus (Reptiles) (Ill.), XX, a *b* 459, b 464, *a* 465, *a b* 468, a 469, a 472, b 479, *b* 480, a b 481, *b* 483, *a* b 485; (Tortoise) (Ill.), XXIII, b 484
Tet, river (Pyrénées), XX, *a b* 134
TETANUS or Lock-jaw, disease, XXIII, a b 217; (Chloral), V, b 588, a 589; (Pathology), XVIII, b 399–400; (Physiology), XIX, a 41; (Poisons), a 288, a 291; production of (Physiology), XIX, a 29
Tete, district (Mozambique), XVII, *b* 13; (Zambesi), XXIV, *a* b 804
Tête-de-pont (Fortification) (Ill.), IX, a b 384
Tetens, John Nicholas (Annuities), II, b 72, a 73
Tethya, genus (Sponges), XXII, b 439, a 440
Tethyidæ, family (Sponges), XXII, b 437, b 439, a 440
Tethys, genus (Mollusca) (Ill.), XVI, a 680, b 681
Tethyum, ascidian (Tunicata), XXIII, a 647
Tetiaroa, island. See Tetuara
Tetillidæ, family (Sponges), XXII, *a* b 440, b 442, a 443
Tetnuld, mountain (Caucasus), V, b 220
Tetouan, town. See TETUAN
Tetrabiblos Syntaxis (Propertius), XIX, a 835
Tetrablemma, genus (Arachnida), II, a 255, *b* 256
Tetrabranchiata, order (Cuttle-Fish), VI, a 649; (Mollusca), XVI, b 693–4
Tetrachloride of Vanadium, XXIV, a 61
Tetrachord, musical instrument (Pianoforte), XIX, a 73
Tetrachords, Greek scale (Music), XVII, b 85, a b 86
Tetracladidæ, family (Sponges), XXII, b 440
Tetracladina, group (Sponges), XXII, *b* 438, a b 440
Tetractinellida, tribe (Sponges), XXII, b 432, *b* 435, a 437, a b 438, a b 440, a 444
Tetrad elements (Chemistry) V, b 409, a 410
Tetradrachms of Athens (Archæology), II, a 307 (Weights and Measures), XXIV, b 508
Tetradymite (Bismuth), III, b 686; (Mineralogy), XVI, a 396
Tetragonon, gymnasium (Elis), VIII, a 131
Tetragonopterina, group (Ichthyology), XII, b 731
Tetragrammaton (Kabbalah) XIII, b 821
Tetrahedral man (Goodsir), X, b 690
Tetrahedrite, ore (Copper), VI, b 308; (Mineralogy) (Ill.), XVI, b 367, a 368, b 411–2, note
Tetrahedron, solid (Geometry), X, *a* 346, b 353; equilibrium of (Hydromechanics), XII, a 455
—— crystals (Mineralogy) (Ill.), XVI, b 367, a 368
Tetrakishexahedron (Mineralogy) (Ill.), XVI, b 363, a 365
Tetralogy, the (Drama), VII, b 351; (Greece), XI, b 125; (Sophocles), XXII, a 285
Tetramera, group (Coleoptera), VI, b 120–1; (Insects), XIII, b 155–6
Tetramitina, family (Protozoa), XIX, b 882–3
Tetramitus, genus (Protozoa) (Ill.), XIX, a b 882
Tetrane, hydrocarbon (Chemistry), V, b 483, b 484
Tetranychus, family (Arachnida), II, a 241, b 242
Tetrao, genus (Capercally), V, a b 49; (Grouse), XI, a b 197, note, a b 198
Tetraodion (Hymns), XII, a 615
Tetraogallus, genus (Partridge), XVIII, b 338, note, a 339
Tetraonida, family (Birds), III, a 641 note, *a* 651, a b 655
Tetraphis, genus (Muscineæ), XVII, a 79, a b 80
Tetraphyllidæ, family (Tape-Worms), XXIII, b 59
Tetrapneumona, group (Echinodermata), VII, a 555
Tetrapturus, genus (Sword-Fish), XXII, *a* 843
TETRARCH, ruler, XXIII, b 217–8
Tetrarhynchidæ, family (Tape-Worms) (Ill.), XXIII, b 59, b 60
Tetrastoön of house (Architecture), II, b 367
Tetratheca, plant (Botany), IV, b 123, b 124
Tetrathionic acid (Chemistry), V, a b 440, a 441
Tetraxon, quadriradiate spicules (Sponges) (Ill.), XXII, *a* b 432, a 433
Tetrethylorthosilicate (Chemistry), V, b 453
Tetricus, Caius Pesuvius, tyrant (Rome), XX, *b* 794
Tetrodon, genus (Globe Fish), X, a b 611
Tetroxides (Chemistry), V, b 413
Tettovo, plain (Macedonia), XV, b 137
TETUAN or Tettáwin, town, XXIII, a 218; treaty of, 1860 (Morocco), XVI, b 861
Tetuara or Tetiaroa, island (Tahiti), XXIII, a b 27, b 29
Tetzel, John, monk (Albert, Cardinal), I, a 400; (Luther), XV, b 73, b 74; (Reformation), XX, b 338, a 339
Teucer, myth (Troad), XXIII, b 619
Teucri, people (Egypt), VII, b 642, b 676, a 677
Teuffel, Wilhelm Sigismund, critic (Tibullus), XXIII, *a* 373
Teukcham or Teuxham, town (Formosa), IX, a 367
Teulada, cape (Sardinia), XXI, *b* 322
Teulet, editor (Eginhard), VII, a 605, a 606
Teumman, king (Elam), VII, a 690
Teuta, queen (Illyria), XII, b 748
Teuthididæ, family (Ichthyology), XII, a 716, b 727
Teutoberg forest (Germany), X, a 403, b 426, a 427; (Lippe), XIV, *b* 689, a 690
TEUTONES or Teutoni, tribe XXIII, a 218; (Cimbri), V, a 682; (Drunkenness), VII, b 416; (England), VIII, b 240–1; (Finance), IX, a 150; (Germany), X, a 425, b 426; (Goths), b 752; (Helmet), XI, a 569; (Iceland), XII, a b 655; (Knighthood), XIV, b 113; (Marcantonio), XV, b 538; (Nobility), XVII, b 542–3; (Primogeniture), XIX, *b* 755; (Sicily), XXII, a 28
Teutonic languages (Alphabet), I, b 534, a 538–9; (Dictionaries), VII, b 161–3; (English Language), VIII, a 350; (Europe), b 614–5; (France), IX, a 555; (Goths), X, a 758–9; (Iceland), XII, b 663; (Philology), XVIII, b 798; (Ural-Altaic), XXIV, b 6. See GOTHIC, GERMAN, DUTCH, ENGLISH, SAXON, SCANDINAVIAN
—— law (Real Estate), XX, *b* 317. See SALIC LAW
—— mediæval fictions (Romance), XX, a 674, a 678
TEUTONIC ORDER, knights, XXIII, a 218–9; (Albert, Duke), I, b 399; (Courland), VI, b 457; (Crusades), b 556, b 557; (Dantzic), b 720; (Germany), X, a 441, a 451; (Hanseatic League), XI, b 403; (Insterburg), XIII, a 164; (Königsberg), XIV, b 140; (Missions), XVI, a 536; (Monachism), b 735, a 742; (Poland), XIX, b 299, a b 301, b 302; (Popedom), b 513; (Prussia), XX, b 8, b 9, a b 10; (Russia), XXI, a 99, a b 100–1; (Thorn), XXIII, *a* 335; (Tilsit), a 418
—— Pottery, XIX, b 642–3
—— Religions, XX, 372, b 373; (Theism), XXIII, b 254
Teverone, river (Anio), II, a 52; (Italy), XIII, a 448; (Latium), XIV, b 345
Teviot river (Roxburgh), XXI, a *b* 39
Tewanga, lake (Chatham Islands), V, a 385
Tewaran, river (Borneo), IV, b 50
TEWKESBURY, town, XXIII, a b 219; (Gloucester), X, *a* b 613, b 615, b 616
TEXAS, state (Plate III), XXIII, b 219–23
  bibliography, b 223
  boundaries, b 219
  climate, b 221–2
  geology, b 220–1
  history, b 223
  minerals, b 221
  mountains, b 221
  natural history, a b 222
  people, b 222–3
  physical divisions, b 219–20
  rivers, a b 220
—— (Homestead), XII, b 127; (Houston, S.), b 332; (Railway), XX, a 266, note; (Rusk), XXI, a 898; (Santa Ana), a b 905; (Slavs), XXII, b 163; (Taylor), XXIII, b 102, note, a 928; (Universities), a 913, a b 957; annexation of (United States), b 815–6; history of (United States), *a* b 816, *a* 818, *b* 821, a b 830; statistics (United States), b 853, a b 855, a 856, a *b* 857, *b* 859, *a b* 860, b 862, b 864, a b 873, *a* 878
—— Pacific Co. (Pacific Railroads), XIX, *b* 919, a 920, 921
Texel, island (Holland), XII, b 62, a 65; battle of, 1797 (De Winter), VII, a 125
Texte du Sacre (Slavs), XXII, a 159, b 160
Textile Fibres. See FIBRES
—— industries (Dundee), VII, a b 461, a 462; (Germany), X, a b 412, a 416; (Glasgow), X, b 575–6; (Hanover), XI, b 399; (Lawrence, Massachusetts), XIV, b 370; (Leeds), a b 408; (Lille), b 648; (Lodz), b 775; (Loire) b 816; (Madras), XV, a 187; (Manchester), a b 471, b 472; (Prussia), XX, b 19; (Rhode Island), b 538; (Russia), XXI, a b 94; (Saxony), b 373, b 374; (Seine Inférieure), a 767; (Somme), XXII, b 274;

Textile industries, *continued* (Tarare), XXIII, b 66; (Tibet), a 364; (Tourcoing), a 509; American (Patents), XVIII, b 880-1
TEXTILES (Ill.), XXIII, b 223-32
  carpets (Ill.), a 229-30
  collections, b 231-2
  English, a b 228, a b 231
  Italian (Ill.), b 227-8, b 231
  literature, a 232
  looms, old (Ill.), b 224
  miscellaneous mediæval, b 228-9
  Oriental (Ill.), a b 226
  pre-Christian, a b 225
  prehistoric work, b 224-5
  Roman, b 225-6
  Sicilian (Ill.), b 226-7
  tapestry (Ill.), a 230-1
  weaving, b 223-4
——(Adulteration), I, b 159; (Cos), VI, b 393; (Gold and Silver Lace), X, a b 671; (Japan), XIII, b 598, a b 602; (Java), a 615; (Venice), XXIV, b 169. See WEAVING
Textor, species (Weaver-Bird), XXIV, a 489
"Texts, pricking for" (Divination), VII, b 254
Textularia, group (Foraminifera) (Ill.), IX, a 325, b 332, b 333, b 339, b 340
Textularidea, order (Protozoa), XIX, b 870
Texture or tissues (Anatomy) (Ill.), I, b 707, a 739-53
  adipose, a 747
  blood, b 741-2
  cartilaginous, b 747
  cells, b 739-40
  connective, a 745-6
  endothelium, b 744, a 788
  epithelium, b 743-4
  lymph, a 743
  muscular, a 752-3
  nervous, a 754-7
  osseous, a 749
  pigmentary, b 747. See Tissue
Têy, tribe (Arabia), II, b 221
Teyde, Pico de, mountain (Canary Islands), IV, b 704, a 705
Teyler's stitching (Haarlem), XI, a 318
Teyma, oasis (Arabia), II, a 208, a 218, b 221
Teza, city (Morocco), XVI, b 860
Tezcatlipoca, deity (Mexico), XVI, b 219
Tezcuco, city (Mexico), XVI, b 217, a b 218, b 226; lake (Mexico), b 224, a b 230, b 909; palace of (Mexico), b 218
Th, digraph (T), XXIII, a b 5
Tha'álibí, historian (Tabarí), XXIII, b 8
Thaarup, Thomas, poet (Denmark), VII, a 80
Thaba-Nchu, village (Orange River Free State), XVII, b 837
Thackeray, archdeacon (Rennell), XX, b 411
——, Francis, biographer (Chatham), V, a 382, b 383
THACKERAY, William Makepeace, novelist, XXIII, a 232-5
  boyhood and education, a b 232
  Fraser and Punch period, a b 233
  lecturing and editorial period, b 234-5
  Paris to Fraser's, b 232-3
  Pendennis to *Newcomes*, a b 234
  summary of, b 235
  Vanity Fair, b 233-4
—— (Duel), VII, *a* 444; (Swift), XXII, a 804, *a* 806; (Taglioni), XXIII, b 26; (Thiers), a 324; (Wycherley), XXIV, a 743
Thaddeus, Apostle (Armenian Ch.), II, a 481
Thaddeus of Warsaw, tale (Porter), XIX, a 542
Thai, race (Dictionary), VII, *a* 166; (Siam), XXI, b 893-4
Thakafites, people (Mohammedanism), XVI, a b 582, b 583, a 584
Thakombau, king (Fiji Islands), IX, *a* 139
Thal, districts (Punjab), XX, b 112
Tha'labí, historian (Tabarí), XXIII, b 8
Thalamites, rowers (Ship), XXI, a b 843
Thalamium, organ (Lichens), XIV, *b* 557, b 559
Thalamophora, group (Protozoa), XIX, b 871
Thalamus or torus (Botany), IV, a 109, b 113, a 122
Thalassarctos, genus (Bear), III, b 398-9; (Mammalia), XV, b 448
Thalassicolla, genus (Protozoa) (Ill.), XIX, a 860, b 871, a 872
Thalassicollida, family (Protozoa), XIX, b 871, a 872, a b 873
Thalassinidæ, family (Crustacea), VI, a b 581, a 590
Thalassophryne, genus (Ichthyology) (Ill.), XII, b 704, a 705, b 728
THALBERG, Sigismond, pianist, XXIII, a b 235
Thaleichthys, genus (Salmonidæ), XXI, a 232, b 234
Thaler, German coin (Joachimsthal), XIII, a 706; (Numismatics), XVII, a 673
THALES of Miletus, philosopher, XXIII, b 235-7; (Amber), I, b 579; (Astronomy), II, a 652; (Geography), X, a 158; (Ionia), XIII, b 210; (Moon), XVI, b 828
Thalestris, queen (Amazons), I, a 576
Thalia, muse (Graces), XI, b 24
Thalia of Arius, II, *b* 471
——, periodicals (Schiller), XXI, a *b* 413, a 414
Thaliacea, family (Tunicata), XXIII, a 648, a 654-6
Thalictrum, plants (Horticulture), XII, a 260
Thall Ghát, pass (India), XII, a 772
THALLIUM, metal, XXIII, b 237-8; (Chemistry), V, b 459-60, *a* 461; (Mineralogy), XVI, a 408; diethylchloride (Chemistry), V, b 460; hydroxide (Chemistry), b 420; spectrum (Spectroscopy), XXII, b 390
Thallogens. See THALLOPHYTA
Thallome, structure (Botany), IV, b 96
Thallophyta, division of plants (Biology), III, a 599-600, a 602; (Botany) (Ill.), IV, b 81, b 83, b 84, a 85, b 95-6, *b* 126, a 127, a b 144, a b 145; (Fungus), IX, b 726; (Reproduction), XX, a 443-4; (Vegetable Kingdom), XXIV, a 136-40
Thallus, organ (Fungus), IX, b 726, a b 727; (Lichens) (Ill.), XIV, a 555-7, a b 558, a *b* 559, a *b* 560, a b 561, a b 562; (Muscineæ) (Ill.), XVII, *b* 71, a *b* 73, *a b* 74, *a* 75, b 76
Thalsahuate, parasite (Harvest-Bug), XI, b 447
Tham, Rabbenu (Tam), XXIII, a 44-5
Thamar, queen (Georgia), X, b 388
Thame, river (Thames), XXIII, b 238, a 239
Thames, battle of the, 1813 (Tecumseh), XXIII, b 929
THAMES, river, XXIII, b 238-9 (Angling), II, b 30, a 32, a 33, b 38, a b 39; (England), VIII, a 196; (Geology), X, a b 242, *a* 243; (Gloucester), a 614, a 615; (Kent), XIV, *b* 38, *a* 39; (London), *a* 827, a *b* 832, *b* 833, *a b* 834, b 835, a 837, a 841, a *b* 850, note, *a b* 851, a b 852, *a* 853, note, a 858, *b* 859, *a* 860, *a* b 861; (Middlesex), XVI, b 291, a 293; (Oxford), XVIII, b 96, a 97; (River Engineering), XX, b 588, a 589; (Salmonidæ), XXI, b 235; (Whitebait), XXIV, *b* 581, a 582; conservancy of the (London), XIV, a 836, a 841, a 855; embankment (Coffer-dam) (Ill.), VI, b 104-5; (London), XIV, *a* 832, b 833, a 862
——, river of Auckland, III, *b* 59
——, river of Connecticut, VI, *a* 255
—— Tunnels, XXIII, b 663, a 664; (Brunel), IV, b 356, a b 358
Thammuz, deity (Adonis), I, *b* 148; (Hadad), XI, b 322
Thamood, tribe (Arabia), II, b 222
Thamudic inscriptions (Semitic Languages), XXI, b 682, note; (Yemen), XXIV, *a* 777
Thamus, pilot (Pan), XVIII, b 211
THÁNA or TANNAH, district, XXIII, a b 239; (India), XII, b 808; town, XXIII, b 239
Thanan, measure (Weights and Measures), XXIV, b 518
Thanatopsis, poem (American Literature), I, a b 642
Thane of Fife, poem (Tennant), XXIII, a 192
Thanes, nobles. See Thegn
Thanet, Isle of (England), VIII, b 195; (Kent), XIV, *b* 38, a *b* 39
—— sand (Geology), X, b 320; (London), XIV, a 827
Thangsat, measure Weights and Measures), XXIV, b 518
Tangye engine (Steam-Engine) (Ill.), XXII, a 538
Thanh Noi, palace (Hué), XII, b 347
—— Phuoc, village (Hué), XII, b 347
Thankmar, insurgent (Germany), X, b 433
Thank offerings (Sacrifice), XXI, b 146-7
THANKSGIVING DAY, XXIII, b 937
Thanksgiving Ode (Wordsworth), XXIV, b 710
Thapsacus, city (Mesopotamia), XVI, b 53
Thapsus, battle of, 46 B.C. (Afranius), I, b 219; (Cæsar), IV, b 566
Tharandite (Mineralogy), XVI, a 414
THAR AND PÁRKAR, district, XXIII, b 239
Tharendus, town (Prisrend), XIX, a 784
Thargamos, patriarch (Georgia), X, a 388, b 389
Thargelia, festival (Adoption), I, a 149
THARRAWADDY, district, XXIII, b 239-40
Tharsis ore (Iron), XIII, b 294
Thárus, tribe (Oudh), XVIII, b 76
THASOS, island, XXIII, a b 240; (Greece), XI, b 90; (Numismatics), XVII, b 656; (Paros), XVIII, b 325
Thassilo, duke of Bavaria (Arno), II, a 546; (Charlemagne), V, b 349; (Germany), X, a 430
THATCHER, George, jurist, XXIII, a b 937
THATCHER, James, physician, XXIII, a 937
THATCHER, Oxenbridge, revolutionary patriot, XXIII, a 937
THATCHER, Peter, name of 1st, 2d, 3d and 4th descendants of Thomas, XXIII, a 937
THATCHER, Peter, son of Oxenbridge, divine, XXIII, *a* 937
THATCHER, Peter Oxenbridge, jurist, XXIII, a 937
THATCHER, Samuel Cooper, Unitarian divine, XXIII, a 937
THATCHER, Thomas, preacher and physician, XXIII, b 936-7
THATCHER, Thomas Anthony, linguist, XXIII, a 937
——, Thomas Cushing, preacher, XXIII, a 937
THATCHER, Thomas (1756-1812), son of Oxenbridge, preacher, XXIII, a 937
Thatching (Building), IV, a b 449
Thaumatrope, toy (Light), XIV, a 583; (Plateau), XIX, b 200

Thaumaturgus. See GREGORY Thaumaturgus
Thaun, Philippe de, author (Ornithology), XVIII, b 7, note
Thausing, Moritz, biographer (Dürer), VII, b 482, a 483
Thaire's Inn (Inns of Court), XIII, b 93, b 96
THAYER, Simeon, revolutionary soldier, XXIII, b 937–8
THAYER, Sylvanus, engineer, XXIII, a 938
THAYETMYO, district, XXIII, b 240; town, b 240
Thea, genus (Camellia), IV, a 653. See TEA
Theætetus, mathematician (Euclid), VIII, b 576, b 577
Theætetus, dialogue (Metaphysic), XVI, b 95; (Plato), XIX, b 208, a 214, a 217, b 218, b 220, a 223; (Socrates), XXII, b 248
Theagenes, tyrant (Megara), XV, b 837
—— of Rhegium, grammarian (Homer), XII, a 118; (Mythology), XVII, b 143, a 144, a 145
"Theam," right of (Theft), XXIII, a 251; (Warranty), XXIV, b 393
Theanthropology (Greek Church), XI, b 138, b 139
Theatines, religious order (Chieti), V, b 534; (Monachism), XVI, b 737; (Paul IV.), XVIII, b 441
THEATRE (Ill.), XXIII, b 240–8
    Athenian relics, b 241–2
    Dionysiac festivals, b 240–1
    existing types, b 243–4
    Italy, modern, b 243
    LAW, a 245–8
        ancient, a 245–6
        buildings, a 247
        censorship, a b 246
        existing status, b 246–8
        United Kingdom, a 248
        United States, a 248
        music halls, b 247
        performances, a b 247
        Restoration period, a 246
    modern, a 243–5
    Roman, a 242–3
    stage effects, a 244–5

—— (Celtic Literature), V, a b 281–2; (Copenhagen), VI, b 306; (Genoa), X, b 140; (Hamburg), XI, a 363; (Holberg), XII, a 59; (Holland), b 94–5, b 97–8; (Munich), XVII, b 301; (Naples), a 197; (New York), a 473; (Parma), XVIII, a 320; (Russia), XXI, b 114; (Siena), XXII, b 44; (Urbino), XXIV, a 15; (Warsaw), b 396; Weimar (Goethe), X, a 649, a 651, b 652
——, Chinese, V, a 579; (Drama), VII, a 348
——, English, XXIII, a b 243, b 344–5; (Drama), VII, b 374, a b 375; (English Literature), VIII, a b 371, b 373–5; (Vanbrugh), XXIV, a 62; Sheldonian (Oxford), XVIII, b 540. See Theatres, London
——, French (Drama), VII, a 369; (Favart), IX, a b 50; (Molière), XVI, b 647, a b 648; (Paris), XVIII, b 281–2; (Piron), XIX, a 127; (Talma), XXIII, a 40
——, Greek, XI, a b 125; XXIII, b 241–2; (Aspendus), II, a 625; (Architecture), a 362; (Epidaurus), VIII, b 423; Dionysiac (Athens), III, a 5, a 8; free passes to (Pericles), XVIII, b 540
——, Japanese (Drama), VII, b 348
——, Kirk view of (Robertson), XX, a 615
——, London, XIV, b 845–6, a 858, b 862; XXIII, a 243 note, b 244; (Alleyn), I, a 514; (Jerrold), XIII, a b 643; (Kemble), XIV, a 33; (Robertson), XX, b 614; (Sheridan), XXI, a 835, b 836; (Shakespeare), a 796–7
——, Roman, XX, b 850–1, notes; XXIII, a 242–5; (Architecture), II, a 367; (Augustine), III, b 66; (Drama), VII, a b 356; (Music), XVII, a 87; (Orange), a 836; (Pompeii), XIX, a b 462; (Taormina), XXIII, b 53; (Tusculum), a 714
—— -fires (Pyrotechny), XX, a 142
Theatrum Anonymorum et Pseudonymorum (Bibliography), III, a 569
—— *Mulierum* (Hollar), XII, b 104
—— *Orbis Terrarum* (Ortelius), XVIII, a 56
Thebaid of Antimachus, poem (Homer), XII, a 118
Thébaide, La, play (Racine), XX, a 212
Thebaïs, district (Egypt), VII, a b 608, a 617; monks of (Monachism), XVI, b 725, a 741
Thebais, poem (Statius), XXII, *a* 484, *b* 485
Theban ordóm-palm (Egypt), VII, b 615
—— legion, martyrdom of (Maurice), XV, *a* 644
—— Mummies, XVII, *a* b 37
—— phalanx (Army), II, b 491
Thebe of Pheræ, heroine (Isocrates), XIII, b 403, note
Thebes or Diospolis Magna, city of Egypt (Ammon), I, a b 649; (Architecture), II, b 336, a 337, b 338, *a b* 340, a 342, *a* 343; (Egypt), VII, *b* 609, a 610, b 619, *a* 620, a 622, *a* 623, b 647, b 673–8; (Pyramids), XX, b 130; (Sacrifice), XXI, b 145; tombs of (Costume) (Ill.), VI, a b 406; (Tunnelling), XXIII, b 662
THEBES, city of Greece, XXIII, a 248–50; (Alexander the Great), I, *b* 425; (Amphictyony), b 678, a 679; (Cadmus), IV, a 559; (Creon), VI, b 502; (Demosthenes), VII, b 62; (Epaminondas), VIII, b 405–6; (Greece), XI, b 74, a 83, a 88, a *b* 90, a 91, b 92, a 93, a 94; (Numismatics), XVII, *b* 658; (Pelopidos), XVIII, b 489–90; (Phryne), a 868; (Pindar), XIX, *a b* 107, a 108, b 109; (Sparta), XXII, a 385; (Thrasybulus), XXIII, *a* 340; (Tiresias), a 434
Thebes, Roman de (Romance), XX, a 655
——, *Seven against* (Adrastus), I, a 150; (Amphiaraus), a 657
——, *story of* (Lydgate), XV, a 99
Theca, cone wall (Corals), VI, a *b* 330, *b* 337
Thecæ, organs (Lichens) (Ill.), XIV, *b* 557–8, b 562
Thecaphore or Gynophore (Botany) (Ill.), IV, b 114, a 129; (Passion-Flower), XVIII, b 347, a 348
Theceurybia, genus (Mollusca) (Ill.), XVI, b 690, a 691
Thecidæ, family (Corals), VI, a 334, a b 337; (Mollusca), XVI, a 691
Thecidædæ, family (Brachiopoda), IV, b 176
Thecidium, genus (Brachiopoda) (Ill.), IV, a b 170, b 171, a *b* 172, a 173, b 174, b 176
Thecium, organ (Lichens), XIV, b 557–8
THECLA, St., virgin, XXIII, a 250; (Alexandrian MS.), I, *a* 439
Thecosomata, order (Mollusca), XVI, b 690, a 691
Theen-sun, king (Lew-chew Islands), XIV, a 490
THEFT, crime, XXIII, a 250–3
    ancient view of, a b 250
    cheating, a 252
    English view of, b 250–5
    larceny, b 251–2
    robbery, a 252
    Scotland, b 252–3
    stolen goods, a b 252
    United States, b 253

—— (Circassians), V, a 689; casuist doctrine of (Liguori), XIV, b 645–6
Theftbote (Theft), XXIII, b 252, a 253
Thegn, noble (Knighthood), XIV, b 112–3, a b 115; (England), VIII, b 248; (Nobility), XVII, b 542–3; (Peerage), XVIII, b 472
Theine, alkaloid (Cocoa), VI, a 93–4; (Nut), XVII, a 684; (Tea), XXIII, *b* 107, note, a 108
Theiner, Augustin, theologian (Clement), V, a b 719
THEISM, XXIII, a 253–69
    absolute, philosophy of the, a 266–9
    agnostic struggles, b 269
    antitrinitarianism, a b 263, a 268
    Asiatic religions, a 256
    contemporary theology, b 267
    cosmological argument, a b 267
    definition of terms, a b 253
    deism, relation to, b 253–4, b 263
THEISM, *continued*
    early religions, polytheism of, a 256–7
    Egyptian religion, b 255–6
    Genesis, a 255
    Greek religion, b 257–8
    Judaism, late, a 262
    Kantian agnosticism, a 265–6
    language, evidence of, b 254–5
    man's interest in, a b 268
    mediævalism, a 260–1
    modern philosophy, b 263–9
    Mohammedanism, b 259–60, a b 261
    moral experience, b 268–9
    mysticism, a 264
    New Testament, b 258–9
    Old Testament, a 258
    origin of idea, a 264–6
    patristic writers, b 259
    primeval religion, b 254–5
    proofs of, a 267
    Reformation, b 262–6
    renaissance, a b 262
    speculative thought, b 268
    Trinity, doctrine of, a b 259, a 268
    unitarianism, a 268

—— (Bráhma Samáj), IV, b 181–2, b 188–9; (Deism), VII, a 31
Theism (Tulloch), XXIII, a 644
Theiss river (Austria), III, a 101; (Hungary), XII, *a b* 376, b 377, a 378, a 388, a b 389; (River Engineering), XX, a 588
Thelphusa, genus (Crustacea), VI, b 567, b 579
Thelussons, financiers (Necker), XVII, a 321
Thelwall, John, poet (Poetry), XIX, b 285
Thelyphonidea, order (Arachnida) (Ill.), II, *a* 238, note, a b 239, a 240, b 243, b 251–5, b 258
Themes, divisions (Greece), XI, a 102
THEMIS, myth, XXIII, a 269
Themiscyra, town (Amazons), I, b 575
Themison, Roman physician (Medicine), XV, a 812
Themistes, traditions (Greece), XI, a 84
THEMISTIUS, rhetorician, XXIII, a b 269; (Axiom), III, b 137; (Hardouin), XI, b 424
THEMISTOCLES, statesman, XXIII, b 269–71; (Aristides), II, a *b* 444; (Epirus), VIII, b 429; (Greece), XI, b 89, *a* b 90, a 91; (Lampsacus), XIV, b 250; (Magnesia), XV, a 218; (Persia), XVIII, b 585; (Pericles), a b 540; (Phrynichus), a 868; walls of (Athens), III, *a b* 5, a 6
THÉNARD, Louis Jacques, chemist, XXIII, a b 271; (Chemistry), V, a 424; (Chlorine), a 589; (Gay Lussac), X, *b* 110, note, a 111

Thenardite, mineral (Glauber Salts), X, b 602; (Mineralogy), XVI, b 416; (Sodium), XXII, a 253
Thenard's blue (Cobalt), VI, b 76
Thenea, genus (Sponges) (Ill.), XXII, b 430, *a* 435, a 438, a b 440, a 444
Theneidæ, family (Sponges), XXII, a 440
Theobald of Canterbury, archbishop (England), VIII, b 274; (John of Salisbury), XIII, a 729
——, count of Chartres (Normandy), XVII, *a* 558
—— I., king (Navarra), XVII b 256; (Templars), XXIII, *a* 178
THEOBALD, Lewis, playwright, XXIII, b 271–2; (Drama), VII, b 377, note; (Pantomime), XVIII, a 220
Theobaldus, monk (Physiologus), XIX, b 11
Theoc, monk (Tewkesbury), XXIII, a 219
Theocracies, Oriental (Political Economy), XIX, b 360–1
Theocracy (Israel), XIII, b 408–9, b 413, a 424, b 425–6, a 428, b 433
—— in Peru (America), I, b 612–3
THEOCRITUS of Syracuse, poet, XXIII, a b 272; (Greece), XI, b 96, b 117, a 122, a 128; (Magic), XV, a 203; (Sicily), XXII, b 26–7; (Virgil), XXIV, a b 270, a 271
Theoctistus, grammarian (Priscian), XIX, a 763
Theodaisia, festival (Ariadne), II, a 441
Theodelinda, queen (Lombards), XIV, b 823, *a* 824; (Monza), XVI, b 824
Théodicée, essays (Leibnitz), XIV, a b 423; (Pessimism), XVIII, b 698, b 700
Theodolite (Geodesy) (Ill.), X, b 147–8; (Surveying), XXII, b 732–4, a b 756; Ramsden's (Earth), VII, a b 517, a 518; for reconnaissance (Surveying), XXII, b 748, note
Theodomir, bishop of Iria (Santiago), XXI. a 314
——, king. See Theudemir
THEODORA, empress, Byzantium, XXIII, b 272–4; (Image Worship), XII, a 732; (John X., Pope), XIII, b 721; (Justinian I.), *a* 805, a b 807; (Photius), XVIII, b 832, a 833; (Procopius), XIX, a 812; (Vigilius), XXIV, a 243.
——, queen of king Baldwin (Andronicus I.), II, a 22
——, senatrix (Rome), XX, a 805
THEODORE I. and II., popes, XXIII, a 275
——, emperor of Abyssinia, I, *b* 63, a 64, a 65–6; (Magdala), XV, b 197
—— I., king of Corsica (Neuhof), XVII, a 371
—— I., Lascaris, emperor of Nicæa (Greece), XI, a 107
Théodore (Corneille), VI, b 370, b 372
Theodore bar Khōnī, bishop (Syriac Literature), XXII, a 892
—— bar Wahbon, antipatriarch (Syriac Literature), XXII, a b 896
—— of Bēth Garmai, bishop (Syriac Literature), XXII, a 893
—— of Bostra, bishop (Syriac Literature), XXII, b 874
—— of Merv, bishop (Syriac Literature), XXII, b 878–9
THEODORE of Mopsuestia, exegete, XXIII, a 274–5; (Canon), V, b 11; (Canticles), b 30; (Justinian I.), XIII, a *b* 805; (Nestorius), XVII, a b 364; (Syriac Literature), XXII, b 863, b 868, *b* 869, *b* 871, b 878, note, *b* 879
—— of Tarsus, archbishop of Canterbury (England), VIII, b 332, b 340; (London), XIV, a 853; (Parish), XVIII, b 301; (Penance), a 497; (Wilfred), XXIV, b 597; (Worcester), a b 701
THEODORET of Cyrrhus, bishop, XXIII, a 275–6; (Arius), II, a 471; (Church History), V, *a* 668; (Colossians), VI, *b* 148; (Justinian I.), XIII, a *b* 805; (Hermeneutics), XI, b 667; (Socrates), XXII, b 251; (Syriac Literature), b 864, b 870, b 871, note
Theodoric or Thierry, king of Franks (Germany), X, a b 428; (Salic Law), XXI, a 225
—— II., king of Burgundy (Columbanus), VI, b 150
THEODORIC, king of Ostrogoths, XXIII, a 276–7; (Felix IV.), IX, b 58; (Germany), X, b 427, a 428, b 467; (Goths), b 755, *a* b 756; (Greece), XI, b 100; (Italy), XIII, a 478; (Jordanes), a b 758; (Justin I.), a 801; (Odoacer), XVII, b 747, a 748; (Ravenna), XX, b 309–10; (Rome), *b* 800; (Sicily), XXII, a 28; court of (Boetius), III, b 743, *a* 744
—— I., Visigothic king (Attila), III, b 54; (Goths), X, b 755; (John I., Pope), XIII, b 720
—— II., Visigothic king (Spain), XXII, a 323
—— of Alsace, count of (Flanders), IX, a 254
Theodorici Edictum (Roman Law), XX, b 731, b 734; (Salic Law), XXI, a 227
Theodoric Strabo, Ostrogothic chief, XXIII, a 276; (Goths), X, b 755
Theodorus, rebel (Valens), XXIV, b 41
—— Angelus, prince (Ætolia), I, b 202
—— Meliteniota, astronomer (Ptolemy), XX, a 92
—— of Samos, sculptor (Archæology), II, b 303, a 305, *b* 309; (Gems), X, a 124; (Labyrinth), XIV, a 181
—— Prodromus, monk (Greece), XI, b 106, b 121, b 129–30, a 132; (Romance), XX, a 652
THEODOSIA or Kaffa, seaport, XXIII, a 277; (Black Sea), III, b 691, b 692; (Crimea), VI, a b 519; (Taurida), XXIII, a 90
Theodosian Code, VI, a 96; (Alaric II.), I, a 393; (Breviarium Alaricanum), IV, *a* 235; (Divorce), VII, *a* 261; (Gothofred), X, b 752; (Justinian I.), XIII, *a* 802; (Roman Law), XX, a 729, a *b* 731; (Salic Law), XXI, b 226–8; (Theatre), XXIII, a b 245; (Theodosius II.), a 279
Theodosio, prince of Brazil (Portugal), XIX, b 563
THEODOSIUS I. the Great, emperor, XXIII, a 277–8; (Ambrose), I, b 582, *a* b 583; (Festivals), IX, b 102; (Games), X, a 58; (Goths), a b 754, a 755; (Greece), XI, a b 100; (Inquisition), XIII, b 98; (Libraries), XIV, b 510; (Milan), XVI, b 304; (Roman Law), XX, b 729; (Rome), a *b* 797, *a* 798; (Rutilius), XXI, a 122; (Sepulchre, Holy), b 704
THEODOSIUS II., emperor, XXIII, a 279; (Attila), III, b 54; (Greece), XI, b 100, a 101; (Huns), XII, a 397; (Nestorius), XVII, a b 364, a 365; (Roman Law), XX, b 729, b 730, *a* 731; (Festivals), IX, b 102; walls of (Constantinople), VI, a b 270
THEODOSIUS III., emperor, XXIII, a 279; (Anastasius II.), I, b 700
——, general, XXIII, a 277; (Britannia), IV, a 319; (Caledonia), a 589
—— the Physician, patriarch (Syriac Literature), XXII, a 890
—— of Alexandria, patriarch (Syriac Literature), XXII, *b* 874
—— of Antioch, patriarch (Syriac Literature), XXII, a 873
—— of Crete, historian (Greece), XI, b 129
—— of Edessa, bishop (Syriac Literature), XXII, b 889
—— of Pestcherski, monk (Russia), XXI, b 111–2
THEODOSIUS of Tripolis, geometer, XXIII, a b 279
Theodotos, soldier (Sicily), XXII, *a* 29
Theodotus, engraver (Numismatics), XVII, b 663
——, Gnostic teacher (Valentinus and Valentinians), XXIV, *b* 44, b 46
—— of Byzantium (Monarchianism), XVI, a 745
Theodulph of Orleans, bishop (Hymns), XII, a 617
THEOGNIS of Megara, poet, XXIII, b 279–80; (Greece), XI, a 122, *a* 124
Theogony of Hesiod (Astrology), II, b 647; (Greece), XI, a *b* 123; (Hesiod), *b* 694, *a* 696
Theokritos. See THEOCRITUS
Theologia Moralis (Liguori), XIV, b 641, a 642, a b 643–6
—— *Naturalis* (Raymond of Sabunde), XX, *b* 314
Theological Commonplaces (Luther), XV, *a* 86
—— *Essays* (Maurice), XV, a 645
—— German Periodicals, XVIII, b 552
—— schools (Andover), II, a 19; (Methodism), XVI, *a* 198, a 202; (Paris), XVIII, a b 286; (Princeton), XIX, a 762; (Sorbonne), XXII, b 228; (Sunnites), a 695–6; (Trent, Council of), XXIII, a 585, b 586; American (Universities), a *b* 961, a b 963; rise of (Universities), *b* 889, *a b* 891, a 892, *b* 893, *a* 894, *b*. 895
—— society (Comte), VI, b 210
Theologicis Dogmatibus, De (Petau), XVIII, a 707
Theologische Ethik, Rothe's, XXI, a 6; XXIII, *b* 289–90
THEOLOGY, XXIII, a 280–96
    apologetics, b 294
    biblical, b 284, b 295, a 296
    Christian doctrine, b 295–6
    comparative, a b 281, b 284, b 294
    comprehension of data, b 285–6
    deductive method, b 286–7
    encyclopædic forms, b 291–2
    ethics, a 295, b 296
    exegetical, a b 294
    historic method, a b 286
    historical use of term, a 280–1
    history of philosophy, a b 293
    Hofmann, a b 290
    inductive method, a 285–6, a 291
    natural, a 281, a b 284, a 295
    patristic, a 280
    philosophy, a 292–3
    psychology, b 293, b 294–5, a b 296
    reason, relation of, a b 283
    religious bearing of, b 282
    requisites, systematic, b 287–8
    Rothe, b 289–90
    scientific method, b 282–3
    scientific nature of, b 281–2
    sources of, b 283–4
    speculative method, b 288–9
    systematization, a 287–8, b 290–1, a 294
    treatment of data, b 284–7
    unity of, a 291
—— (Alain de Lille), I, b 390; (Alger), a 496; (Andrewes), II, b 20–1; (Apologetics), b 166; (Bull), IV, b 463; (Bushnell), b 513; (Calvin), a b 637; (Candish), b 710; (Cocceius), VI, b 84; (Comte), b 208–9; (Damascenus), b 695–6; (Decalogue), VII, a b 17; (Dogmatic), VII, b 288–97; (Ethics), VIII, a 506, b 507; (France), IX, b 588–9; (Gerhard), X, a b 398;

Theology, *continued* (Greek Church), XI, a b 131, b 138, b 139; (Gregory Nyssa), a 162; (Herbart), a 644; (Guzmics), a 308; (Hodge), XII, a b 43; (Hofmann), b 49; (Hugh of St. Victor), a 351; (Hume), a 369; (Irenæus), XIII, b 279-80; (Jesuits), b 660-1, b 662; (Liguori), XIV, a 641-6; (Limbus), b 652-3; (Metaphysic), XVI, a 85, a b 86-7, a 98; (Neoplatonism), XVII, b 347-8; (Origen), b 863-4, a 866-7; (Paul, St.), XVIII, a 434-9; (Rationalism), XX, b 301-3; (Rothe), XXI, a 5-6; (Schleiermacher), b 430-1; (Valentinus), XXIV, b 44-6; (Zwingli), a b 872; contemporary (Theism), XXIII, b 267; Eastern Christian (Arabian Philosophy), II, b 233; function of (Schleiermacher), XXI, a b 431; German mediation (Haggenbach), XI, a b 330 modern Christian (Theism), XXIII, b 262-3; philosophical relations of, a 292-3; (Hamilton, Sir W.), XI, b 374; (Scholasticism), XXI, b 435-6, a 439, a 446, a 447, a b 448

Theology of Aristotle, *Apocryphal* (Arabian Philosophy), II, b 235

——, Bar Hebræus's works on (Syriac Literature), XXII, a b 899

——, Mohammedan, XVI, b 614-6; (Arabia), II, b 231; (Arabian Philosophy), II, a b 233, b 234-5; (Sunnites), XXII, a 695-6; (Theism), XXIII, a 261

Theology, System of (Hopkins), XII, b 162

Theomnestus, Against (Lysias), XV, b 120

Theon, of Alexandria, mathematician (Euclid), VIII, a 576; (Geometry), X, *b* 340; (Hypatia), XII, a b 631, note; (Pappus), XVIII, b 233, a 234; (Ptolemy), XX, b 92, b 93, a b 94, a 96

—— of Samos, painter (Archæology), II, b 318

—— of Smyrna, astronomer (Ptolemy), XX, b 95, note

Theonella, genus (Sponges), XXII, a 435, *a* 438, b 440

Theophanes Isaurus, chronicler (Byzantine Historians), IV, *b* 545; (Huns), XII, b 397

Theophania or Theophano of Byzantium, wife of Otho II. (Germany), X, b 435, *a* 436; (John XIII., XV. and XVI., Popes), XIII, *a* 722

Theophano, empress, wife of (Nicephorus II.), XVII, *b* 495

Theophany, divine manifestation (Erigena), VIII, a b 463; (Isaiah), XIII, a 390, a 391

Théophile, poet. See VIAU, Théophile de

Theophilus, Byzantine emperor (Greece), XI, a b 104; (Mohammedanism), XVI, a 607

——, protospatharius and medical writer (Anatomy), I, *b* 705

——, jurist (Justinian I.), XIII, a 803; (Roman Law), XX, a 734

——, monkish artist (Enamel), VIII, a 168; (Glass), X, b 579, a 596, *a* 599; (Niello), XVII, a 507; (Organ), b 860; (Plate), XIX, a 194

—— of Alexandria, patriarch (Chrysostom), V, a 661; (Origen), XVII, a 867

—— of Antioch, bishop (Canon), V, a 3, a 9; (Gospels), X, a 728, a 730

THEOPHILUS Abbas, historian, XXIII, a 296-7

—— bar Thomas of Edessa (Syriac Literature), XXII, b 884

THEOPHRASTUS of Eresus, philosopher, XXIII, a b 297; (Aristotle), II, b 450, b 451; (Astronomy), b 653; (Botany), IV, a 70, a 72; (Electricity), VIII, b 4, b 8 (Greece), XI, b 127; (Medicine), XV, a 811; (Menander), XVI, *a* 6; (Morphology), a 868; (Papyrus), XVIII, b 235; (Peripatetics), b 556; (Psalms), XX, a 39; (Xenophanes), XXIV, *b* 755

THEOPHYLACT, commentator, XXIII, b 297

——, exarch of Ravenna (John VI., Pope), XIII, a 721

——, patricius Romanum (Rome), XX, a 805

—— of Simocatta (Byzantine Historians), IV, b 544; (Romance), XX, a 652

Théopneustie ou Pleine Inspiration (Gaussen), X, b 105

THEOPOMPUS of Chios, historian, XXIII, b 297-8; (Isocrates), XIII, b 339, a 402; (Persia), XVIII, a 586, b 595

Theorbo, musical instrument (Lute), XV, *a b* 72-3

Theorem defined (Analysis), I, b 696; of four dimensional space (Measurement), XV, a b 671

Theoria Motus Corporum Cœlestium (Comet), VI, a 171

Theoricon, fund (Greece), XI, b 91; (Pericles), XVIII, b 540

Théorie Analytique (Laplace), XIV, a b 304

—— *der Algebraischen Curven* (Plücker), XIX, a 241

—— *des débouches* (Political Economy), XIX, a 396; (Say), XXI, *a* 377

—— *des fonctions analytiques* (Lagrange), XIV, b 209-10

—— *Nouvelle de la Rotation des Corps* (Poinsot), XIX, a 287

Theories in Theology, XXIII, b 286

Theory of the Earth (Hutton), XII, b 430, a 431

—— *of Heat* (Maxwell, J. C.), XV, b 653

—— *of Numbers* (Legendre), XIV, a b 414

—— *of the Intelligible World* (Norris), XVII, b 566

Theosophia Practica (Gichtel), X, b 525

THEOSOPHY, XXIII, a 298-9; (Baader), III, a 151; (Kabbalah), XIII, a 820-3; (Mysticism), XVII, b 141, b 142; (Swedenborg), XXII, b 797-8; Hindu (Brahmanism), IV, a 186-9

Theotocopuli, Domenico, painter (Greco, El), XI, a 73

Theotokion (Hymns), XII, a 615

Theotokis, Nikephoros, scientist (Greece), XI, b 134

Theotokos, title (Greek Church), XI, b 138; (Nestorius), XVII, b 364-5

THERA OR SANTORIN, island, XXIII, b 299-301; (Greece), XI, b 74, a 79, a 80; (Phœnicia), XVIII, b 818, a 819; language of (Greece), XI, b 118; legends of (Battus), III, b 385; town, XXIII, a b 300

THERAMENES, politician, XXIII, a 301; (Isocrates), XIII, a 399, note; (Socrates), XXII, *a* 248

Therapeutæ, sect (Alexandrian School), I, b 441-2; (Hymns), XII, a 613; (Monachism), XVI, a 725; (Philo), XVIII, b 777

Therapeutics (Abortion), I, b 53; (Acupuncture), b 123; (Ammoniacum), a 651; (Angina Pectoris), II, a 28; (Apoplexy), b 169; (Asthma), b 644; (Avenzoar), III, b 126; (Baths), *a* 380-1; (Bright's Disease), IV, b 312; (Bronchitis), b 327, a 328; (Buchu), a 373; (Cadmium), b 558; (Cajeput Oil), a 576; (Calabar Bean), a 577; (Calomel), a 630; (Camphor), b 672; (Cancer), b 707; (Cantharides), V, b 29; (Carbuncle), b 79-80; (Caries), b 92; (Catarrh), a 191; (Cayenne Pepper), a 244; (Chamomile), a 334; (Chloral), b 588-9; (Cholera), b 592-3, b 594-5; (Cod-Liver Oil), VI, a b 95; (Coffee), a 104; (Colic), a 127; (Creasote), a 493; (Croton Oil), a 544; (Croup), a b 545; (Delirium), VII, b 45; (Diabetes), a 128; (Diaphoretics), a b 145; (Digitalis), b 207-8; (Diphtheria), b 218; (Diuretics), a b 253; (Dropsy), a 408; (Dulcamara), a 449; (Dysentery), a b 506; (Dyspepsia), a b 507; (Ear), *a* 514; (Elaterium), b 716; (Elder), b 719; (Elecampane), VIII, a 4; (Elliotson), a b 138; (Emetics), b 157; (Epilepsy), a b 427; (Erysipelas), b 470; (Eucalyptus), a 571; (Euphorbium), b 586

——(Fig), IX, b 135; (Frankincense), a 626; (Fumitory), b 717; (Galbanum), X, b 21; (Gallic Acid), a b 38; (Galls), b 41; (Gamboge), b 55-6; (Garlic), b 73; (Gelsemium), b 121; (Gentian), b 143, a 144; (Geranium), a 395; (Ghee), b 502; (Ginger), a 539; (Glanders), a 566; (Glycerin), b 622; (Goa-Powder), b 630; (Goitre), b 658, a 659; (Gourd), XI, a 6; (Gout), b 8-9; (Gram), b 33; (Guaco), a b 202; (Guaiacum), a b 205; (Guarana), a 209; (Gumbo), *a* 245; (Gymnasium, Greek), XI, b 310-1; (Hackberry), a 322; (Hæmorrhoids), a 328; (Hall, Marshall), *b* 348; (Harvest-Bug), b 447; (Hay-Fever), b 484; (Heart), a b 494; (Hellebore), b 567-8; (Hemlock), b 577; (Hemp), a 579; (Henbane), a 581; (Hernia), a b 673-4; (Holly), XII, b 105; (Homœopathy), a b 130, a b 131, a 132; (Honey), b 140-1; (Hooping-Cough), a 158; (Hops), b 161; (Horehound), a 170; (Horseradish), b 211; (Houseleek), *b* 331; (Hydrocephalus), a *b* 448, a 449; (Hydropathy), a 575-8; (Hydrophobia) b 579-80; (Hypochondriasis), a 633; (Hyssop), b 634; (Hysteria), b 635-6; (Insanity), XIII, a b 104, a b 116; (Ipecacuanha), b 216-7; (Iron), a 369-70; (Jaborandi), a b 540; (Jalap), b 556; (Jasmine), b 605, a 606; (Jaundice), b 609; (Juniper), b 784

—— (Kava), XIV, a b 20; (Kermes), b 51-2; (Kino), b 93; (Kissingen), b 104; (Kousso), a b 146; (Larch), a 312; (Lavender), a 353; (Leech), a b 403; (Lemon), a b 439; (Lichens), b 563; (Liquorice), a 694; (Magnesia), XV, b 219; (Mandrake), a 484; (Measles), a 665; (Medicine), b 806; (Meningitis), XVI, a 15; (Mercury), b 37, b 38, a b 39; (Mineral Waters), b 450-5; (Murrain), XVII, a b 65, a b 66, a 67; (Mushroom), a 83; (Myelitis), b 122; (Myrrh), a 129; (Nævus), a 170; (Narcotics), b 237, b 238; (Nettle-rash), b 369; (Neuralgia), b 373; (Nitroglycerin), a 534; (Nut), *a* 684; (Oak), a 711; (Ophthalmology), a *b* 802, *a b* 803, *a* b 804, b 805, *a* 806, *a b* 807, *a b* 808; (Opium), b 815-6; (Paralysis), XVIII, a 262; (Parasitism), a b 274; (Pellagra), b 487; (Peppermint), a 529; (Peritonitis), b 558-9; (Petroleum), b 733; (Phthisis), b 871; (Poisons), XIX, a 288

—— (Purpura), XX, b 122; (Quassia), a 167; (Quinine), b 192; (Rheumatism), a b 532, a 533; (Rhubarb), b 544; (Rickets), a b 563; (Saffron), XXI, b 153; St. Vitus's Dance), b 212-3; (Salep), b 221; (Salicin), b 222; (Salicylic Acid), *a* 228; (Sandalwood), *b* 268, a 269; (Sarsaparilla), b 328; (Scarlet Fever), a 394-5;

Therapeutics, *continued* (Scurvy), b 599-600; (Sea-Sickness), a 641; (Skin Diseases), XXII, b 128–32; (Small-Pox), a 174; (Snake-Root), a 199; (Snakes), a b 202; (Squill), a 454; (Stomach Diseases), *b* 603, a b 604; (Sumbal), b 674; (Sunstroke), b 701; (Tetanus), XXIII, b 217; (Throat Diseases), b 340, *a b* 341, a 342; (Turmeric), b 704; (Typhus and Typhoid), b 719-20, a b 722; (Valerian), XXIV, a 47; (Vesical Diseases), b 204, b 205, *b* 206, *a* 207; (Veterinary Science), a b 219, a *b* 220, *b* 221; (Wart), a 398; (Whitlow), a b 586; (Yellow Fever), a 771. See Healing, Health, Repair, processes of
Theraphosides (Arachnida), II, a 256, a b 258, b 261
Therasia, ascetic (Paulinus), XVIII, a b 445
——, island (Thera), XXIII, b 299, a 300
THERESA, St., nun, XXIII, a 301-3; (Carmelites), V, a 103; (Cruz), VI, a 590; (Longueville), XIV, a 878; (Mysticism), XVII, a 142; (Spain), XXII, b 373
——, countess (Alphonso), I, b 541, b 543; (Portugal), XIX, a *b* 555
Theresienstadt or Theresiopel, town. See SZABADKA
Theriaca, poem (Nicander), XVII, a 490
Theriaka, drug (Opium), XVII, a 810
Therianthropic polytheism (Religions), XX, a b 380, a 382
Theridion, genus (Arachnida), II, b 262
Thermæ, Roman Baths, III, b 375, a 376-7; (Pompeii), XIX, b 462-3; Agrippa's (Rome) (Ill.), XX, b 849–50, note; Herculis (Banat), III, a 266; Himerenses (Himera), XI, a 746
Thermaic gulf (Macedonia), XV, *a b* 138
Thermal capacity of bodies (Heat), XI, b 514; conductivity (Magnetism), XV, b 275; motivity of a system (Radiation), XX, b 221; transpiration (Pneumatics), XIX, b 261; units (Heat), XI, b 496; (Steam-Engine), XXII, a 497, b 509. See HEAT
Thermal springs (Brazil), IV, a 201; (Ecuador), VII, b 560; (Gadames), X, a 6; (Galilee, Sea of), b 27; (Gastein), a 97; (Geology), b 199, *a* b 240; (Geysers), a 498; (Hierapolis), XI, a 707; (Iceland), XII, b 652; (Mineral Waters), XVI, a b 452; (Palestine), XVIII, b 177; (Philippine Islands), a 763; (Puy de Dôme), XX, a 126; (Teplitz), XXIII, *b* 200; (Wildbad), XXIV, a 597. See GEYSERS, Hot and Mineral Springs
Thermic curves of blast furnaces (Iron), XIII, b 322; properties of Metals, XVI, b 71, b 74
—— fever (Pathology), XVIII, a b 403; (Sunstroke), XXII, a 701
Thermidorians, political party (Pichegru), XIX, b 88
Thermochemistry of acids (Chemistry), V, a 422–3; of alkaline metals (Chemistry), b 454, a 455; of arsenic (Chemistry), b 468; of gold, silver, copper (Chemistry), a b 459; of halogens (Chemistry), b 426–7, a 428, b 429, b 430–1; of iron group (Chemistry), a b 464; of lead and thallium (Chemistry), a b 461; of magnesium group and mercury (Chemistry), b 457–8; of nitrogen compounds (Chemistry), a 442, a 443, a 446; of phosphorus (Chemistry), b 446, b 449; of sulphur group (Chemistry), a b 433, b 437, a b 440
Thermodon, river (Pontus), XIX, b 473
THERMODYNAMICS, XXIII, a 303-8
  absolute temperature, a 305–6
  biographical notes, a b 303
  Carnot's reasoning, a 304–5
  dissipation of energy, a b 306, a 308
  elementary relations, b 306
  entropy, a 306, a 308
  general notions, a 304
  history of, a b 303
  ideal substance, a b 307
  increase of energy, b 306–7
  laws of, b 304–5
  pressure effects, b 307–8
  specific heat of fluid, a 307
  Watt's diagram, a 304
—— (Diffusion), VII, a b 191; (Elasticity), b 705–7; (Electricity) (Ill.), VIII, a 90–2; (Mayer, J. R.), XV, a 656; (Molecule), XVI, a 638; (Oxyhydrogen), XVIII, b 108–9; (Ozone), a b 117; (Pneumatics), XIX, a 261; (Steam-Engine), XXII, b 496–7, *b* 500–1; definition of temperature (Heat), XI, a 505, b 508–9; theory of (Physical Sciences), XIX, b 6
Thermodynamic scale (Heat) XI, a b 505, b 507–8, b 509, b 512–4; (Pyrometer), XX, b 135–6
—— unit (Heat), XI, *a* 498
Thermo-electric currents (Meteorology), XVI, a 189; inversion (Electricity), VIII, a 90
Thermo-Electricity, VIII, a 11, a 88–92; (Electro-Metallurgy), a 109; (Magnetism), XV, b 275; (Peltier), XVIII, b 491; (Pyrometer), XX, a b 140
Thermo-electric pile (Nobili), XVII, a 538
Thermo-electrometer, Kinnersley's (Electricity), VIII, a 52; Riess's (Electricity) (Ill.), a b 52, b 53
Thermo-electro-motive force (Electricity), VIII, a 89–92
Thermograph (Thermometer), XXIII, b 313–4
THERMOMETER (Ill.), XXIII, a 308-14
  air instruments, b 309
  alcohol instruments, b 309
  clinics, b 313
  comparison of, a 310
  deep-sea instruments (Ill.), a 312-3
  earth instruments, a 312
  history (Ill.), b 308-9
  hypsometer, a b 313
  mercury in glass, b 309–10
  metallic instruments, b 313
  meteorological (Ill.), b 310–1
  physical and chemical work, a b 310
  radiation instruments, b 311–2
  registering instruments (Ill.), a b 311
  scales, a b 309
  thermographs, b 313–4
—— (Actinometer), I, b 119; (Aëronautics), b 177, a 186; (Alcohol), b 415; (Brewing), IV, b 237; (Fahrenheit), VIII, b 741; (Galileo), X, b 29; (Heat) (Ill.), XI, a 499-514; (Hydrometer), XII, a 570, b 571; (Hygrometry), b 604, a 605; (Pyrometer), XX, a 136; (Réaumur), b 321; gas- (Pyrometer), b 135, a 136–8; German-bath (Heat) (Ill.), XI, b 503–4, note; Poggendorff's galvano- (Electricity), VIII, b 53; reversing (Mediterranean Sea), XV, b 832; wet bulb (Diffusion), VII, a b 189–90
—— -box (Meteorology) (Ill.), XVI, b 120
—— -tube bore (Light), XIV, a 600
Thermomètre inscripteur (Electricity), VIII, b 52
Thermometrical measures of altitude (Barometer), III, a 334
Thermometric calorimetry (Heat), XI, b 496; scale (Steam-Engine), XXII, a 498, a 501
Thermometry (Heat), XI, b 498–515; (Saussure), XXI, a 339; *Medical* (Seguin), *a* 916
Thermo-multiplier (Melloni), XV, b 849
Thermonatrite (Mineralogy) (Ill.), XVI, b 415
Thermophone (Telephone), XXIII, b 140
Thermopile, Clamond's (Electro-Metallurgy), VIII, a b 109
Thermopylæ, pass and battle of, 480 B.C. (Greece), XI, a *b* 74, a 90; (Leonidas), XIV, a 463; (Persia), XVIII, b 583
—— battle of, 280 B.C. (Brennus), IV, b 230
Thermoscopes (Heat) (Ill.), XI, b 499-500; (Pyrometer), XX, b 135, a b 138, a 139 40. See THERMOMETER
Thermo-therapeutics (Hydropathy), XII, a 575
THÉROIGNE DE MÉRICOURT, Anne Joseph, revolutionist, XXIII, a b 314
Theron, tyrant (Agrigentum), I, a 370; (Sicily), XXII, *b* 21
Theron and Aspasio (Hervey, James), XI, a 692
Theropoda, order (Reptiles), XX, b 456 note; (Zoology), XXIV, b 925
Thesaurus Antiquitatum Græcarum (Gronovius), XI, b 184
—— *Hymnologicus* (Hymns), XII, a 614, b 615, *a* 618, a 619, a 620
—— *Mathematicus*, Rheticus (Tables), XXIII, a b 13
—— *Temporum* (Scaliger), XXI, b 379
Therusia, island. See Vulcano
Theses Salmurienses (Amyraut), I, a 687
Theseum, temple (Athens), III, a 6; (Theseus), XXIII, a 316
THESEUS, hero, XXIII, b 314-6; (Ægeus), I, a b 163; (Amazons), b 576; (Antiope), II, b 117; (Ariadne), a 441; (Attica), III, a 53; (Greece), XI, *b* 86; (Helena), *a* 562; (Minos), XVI, a 501; consolidation under (Athens), III, b 3; wall of (Athens), a 5
Theseus and the Minotaur (Canova), V, b 23
THESMOPHORIA, festival XXIII, a 316–17; (Ceres), V, *a* 300; (Demetria), VII, b 51
Thesmophoriazusæ, play, Aristophanes, II, a 448
Thesmothetæ, magistrates (Archon), II, a 420; (Greece), XI, a 87
The spacious firmament on high (Hymns), XII, b 627, note
THESPIÆ, city, XXIII, b 317; (Greece), XI, a 90
Thespis, dramatist (Drama), VII, b 349–50, b 351; (Greece), XI, a 125
Thesproti, tribe (Epirus), VIII, *a* b 429
Thessalian dialect (Greece), XI, a 118; migration (Greece), a 83
Thessalica (Hellanicus), XI, a 566
THESSALONIANS, Epistles to the, XXIII, a 318-9; (Paul), XVIII, a b 430
Thessalonica, town (Ambrose, St.), I, b 583; (Greece), XI, a 103, a 106, *a* b 107; (Numismatics), XVII, a 657; (Paul), XVIII, a b 430, a 439; (Salonica), XXI, a 238–9; (Thessalonians), XXIII, a 318
Thessalus of Tralles, physician (Medicine), XV, b 812
THESSALY, district, XXIII, a 319-20; (Greece), XI, b 74, a 83, a 84, a 90, a 94, b 103, a 106; (Numismatics), XVII, b 657–8; (Turkey), XXIII, b 693, a b 694; allied to Attica, III, b 51

Theta function (Infinitesimal Calculus), XIII, a 78; (Jacobi), a 548
Thetes, class (Greece), XI, b 87, a 91
THETFORD, town, XXIII, b 320; (Norfolk), XVII, *a* b 550
Thetical induction (Theology), XXIII, a 286
Thetis, myth (Achilles), I, *b* 89; (Nereus), XVII, b 355; in Round Table stories (Romance), XX, *a* b 659
Theudas, prophet (Acts of the Apostles), I, a 117
Theudemir or Theodemir, king of Ostrogoths (Theodoric), XXIII, a b 276
Theudibert, Alemannic king (Narses), XVII, a 240
Theuerdank, allegory (Germany), X, a 472
Theurgic Magic, XV, b 203–4
THEVENOT, Jean de, traveller, XXIII, b 320–1
——, Melchisedech de, author, XXIII, b 320 note
Thevet, André, traveller (Humming-Bird), XII, a 371; (Toucan), XXIII, *a* 507
Thiaki, island. See ITHACA
Thian-shan or Tian-shan, mountains (Asia), II, a 600; (Hindú Kúsh), XI, b 747; (Hissar), XII, b 4; (Issik-Kul), XIII, a 442; (Oxus), XVIII, b 104, b 105, a 106, a 107; (Semiryetchensk), XXI, *b* 672; (Syr-Daria), XXII, *b* 859; (Turkestan), XXIII, a b 673, a 679, b 681
Thian-shan-pe-lu, province (Dzungaria), VII, b 508
Thiasoi, societies (Guild), XI, b 230
Thibaut IV. de Champagne, king of Navarre (France), IX, b 565
THIBAUT, Anton Friedrich Justus, jurist, XXIII, a 321–2; (Savigny), XXI, a b 341
——, G., philologist (Sanskrit), XXI, a 288
Thibet, country. See TIBET
Thibodi, Rami, king (Siam), XXI, a 894
Thich'ung, king (Tibet), XXIII, b 367
Thickeners (Calico-Printing) IV, b 607–8
Thicknesse, Philip, governor (Gainsborough), X, a 16
Thide, king (Tibet), XXIII, b 367
Thi-de-srong-tsan or Thisrong-de-tsan, king, Tibet (Lhasa), XIV, b 498, b 501
Thide-tsanpo, king (Tibet), XXIII, a 366
Thièle, river (Bern), III, b 518; (Neuchatel, Lake), XVII, a b 370, a 371
——, physician (Vaccination), XXIV, b 29, a 30
Thielmann, Max, baron von philologist (Georgia), X, b 389, *a* 390; (Persia), XVIII, a 628
THIELT, town, XXIII, b 322
Thierry, kings. See Theodoric
THIERRY, Amédée Simon Dominique, historian, XXIII, a 323; (Chrysostom), V, a 662; (Druidism), VII, b 413; (France), IX, a 598
THIERRY, Jacques Nicholas Augustin, historian, XXIII, b 322–3; (France), IX, a 598
Thierry and Theodoret, tragedy (Beaumont and Fletcher), III, a 406
THIERS, town, XXIII, a 323; (Puy de Dôme), XX, a 126
THIERS, Louis Adolphe, president and historian, XXIII, b 323–6
  birth and first literary period, b 323–4
  critical view, b 325–6
  empire, period of the, a b 324
  last years, a b 325
  Louis Philippe period, a 324
  republic, period of the, b 324–5
—— (France), IX, b 545, *a b* 546, *b* 552, *a* b 553, b 598; (Guizot), XI, *a b* 239–a 241; (Napoleon I.), XVII, b 232; (Paris), XVIII, b 300; (Railway), XX, b 261; (Turkey), XXIII, a 692
Thiersch, F. W., philologist (Archæology), II, a 302
Thietberga, queen (Hincmar), XI, a 747; (Nicholas I.), XVII, b 496, a 497
Thietgand, archbishop of Treves (Nicholas I.), XVII, b 496, a 497
Thigh (Anatomy), I, a 727, b 737, a 738; (Mammalia), XV, a 363
Thi Kyida Nyimagon, king (Tibet), XXIII, b 367
Thimonier, Barthélemy, inventor (Sewing-Machines), XXI, a b 754, b 918
Thingeyársysla, district (Iceland), XII, a 652
Things or assemblies (Sweden), XXII, *a* 783
Thinis, city (Egypt), VII, *a* 620, a 623, a b 634, b 672
Thinmaw mountains (Tavoy), XXIII, a 91
Thinocoridæ, family (Birds), III, a *b* 646 note; (Sheathbill), XXI, b 819 note
Thio-alcohols (Chemistry), V, *a* 492
Thiocyanates (Prussic Acid), XX, a 30
Thiodulf of Hvin, poet (Iceland), XII, *b* 657
Thio-salts (Chemistry), V, a 421
Thiosulphates (Sulphur), XXII, b 668, b 669
Thiosulphuric acid (Chemistry), V, a 439, b 440, a 441
Third century, events in, B.C. (Chronology), V, b 626–7; A.D., a 628
Third Estate. See Tiers État
"Third motion" (Galileo), X, a 32
Thirlby, Thomas, bishop (England), VIII, a 305
Thirlmere, lake (Water-Supply), XXIV, a *b* 427, a 430
THIRLWALL, Connon, bishop and historian, XXIII, a 326–7; (Pericles), XVIII, a 514; (Tieck), XXIII, b 407, *a* b 408
THIRSK, town, XXIII, a b 327
Thirst (Nutrition), XVII, a 687
Thirteenth century, events in, B.C. (Chronology), V, b 625; A.D. a 633–4
Thirty-nine Articles, II, b 571, a 572; (England), VIII, b 303–4, a 306, a 338, a 340; (Parker), XVIII, b 305
Thirty Tyrants of Athens (Isocrates), XIII, b 398–9; (Socrates), XXII, a b 244, *a* 248; (Theramenes), XXIII, a 301; (Thrasybulus), a 340
—— Years' War, 1618–1648 (Arnim), II, a 545; (Army), a b 528; (Austria), III, a 109–10; (Christina), V, b 610; (Denmark), VII, b 75; (Empire), VIII, b 166; (England), a 309; (France), IX, a b 502; (Ferdinand II.), a b 68; (Free Trade), a 666; (Germany), X, b 448–9, a 450, a 474, b 475; (Glogau), b 611; (Gustavus II.), XI, b 298–9; (Harvey), b 448; (Holland), XII, b 81; (Hymns), a b 621; (Jesuits), XIII, a 660; (Magdeburg), XV, b 198; (Mansfeld), b 505; (Mazarin), a 659; (Mecklenburg), b 786; (Monachism), XVI, b 739; (Montecuculi), b 804–5; (Nördlingen), XVII, a 549; (Saxony), XXI, a 370; (Spain), XXII, a 345–6; (Sweden), b 787; (Switzerland), a 830; (Universities), XXIII, b 902, a 904; (Urban VIII.), XXIV, b 13; (Wallenstein), *a* 348; (Würtemberg), a 738
This-rong-de-tsan, Khri-Srong-Ideu-btsan or Kir Song de Tsan, king (Lamaism), XIV, b 229; (Lhasa), b 501; (Tibet), XXIII, a 367
THISTLE, plant, XXIII, b 327; (Botany), IV, b 102, a 108, a 111; torch- (Chili), V, b 541
—— in Heraldry, XI, a 627
"Thistle," cutter (Yachting), XXIV, a 760
——, Order of the (Knighthood), XIV, a 125
THISTLEWOOD CONSPIRACY, XXIII, b 327–8
Thlinkeet Indians, XII, a 865, *a* 866; (Caste), V, b 163; (Mythology), XVII, b 152, b 155; (Totemism), XXIII, a 499, *b* 504
Thnetopsychitæ, sect (Arabici), II, a 237
Thochu, district (Tibet), XXIII, b 363
Thok Daurakpa, town (Tibet), XXIII, b 362
Tholicthys, genus (Ichthyology) (Ill.), XII, b 700, a 701
Tholobate (Architecture), II, a 418
THOLUCK, Friedrich August Gottreu, theologian, XXIII, a b 328; (Molinos), XVI, a 654; (Rationalism), XX, *b* 303
Thom, James, sculptor (Ayr), III, a 143
——, Robert, engineer (Bute), IV, a 517
——, William, poet (Dundee), VII, a 463
Thomander, Johan Hendrik, orator (Sweden), XXII, b 796
Thomar, Antonio Bermudo de Costa Cabral, count of (Portugal), XIX, b 568, a 569
THOMAS, St., apostle, XXIII, b 328–9; (Ass), II, b 626; (India), XII, b 784–5; (Kodungalur), XIV, a 136; (Persia), XVIII, b 613; (Prester John), XIX, a *b* 734, b 736; *Liturgy of*, XIV, a 713
Thomas I., Count of Savoy, XXI, a 356; (Piedmont), XIX, a 90
—— II. of Savoy, count (Piedmont), XIX, a 90
—— III. of Savoy and Achaia (Piedmont), XIX, a 90
THOMAS of Celano, biographer, XXIII, b 329; (Hymns), XII, b 618
THOMAS of Erceldoune, the Rhymer, poet, XXIII, b 329; (Berwickshire), III, b 529; (Gaelic), X, b 11; (Scotland), XXI, a 566
—— of Heraclea or Harkel (Syriac Literature), XXII, a 865, a 874, b 880, note, b 882 note
—— of Mārg, bishop (Syriac Literature), XXII, a 890, b 891–2
—— of Stitny, author (Slavs), XXII, a 161
Thomas, Antoine Léonard, writer (France), IX, a b 589
THOMAS, Benjamin Franklin, jurist, XXIII, b 939
THOMAS, Ebenezer Smith, journalist, XXIII, b 939
——, Edward, orientalist (Gaur), X, a b 103, b 104; (India), XII, a 828, note, a 829 note
THOMAS, Frederick William, novelist, XXIII, b 939
——, George, rájá (Bhatniar), III, a b 544; (Hissar), XII, b 4; (Ludhiána), XV, a 60; (Punjab), XX, b 117
THOMAS, George Henry, general, XXIII, a b 840, a 938–9; (United States), b 826, a 828
——, H. Leigh, physician (Hunter, J.), XII, *a* 405
THOMAS, Isaiah, printer, XXIII, b 939; (Newspapers), XVII, a 445
——, John, revolutionary general (Sullivan), XXII, b 932
——, Moy, author (Savage), XXI, b 339
——, Philip Evan, capitalist (Quakers in United States) XX, b 892
—— a Kempis. See KEMPIS
—— Aquinas. See AQUINAS
—— Becket. See BECKET
—— Christians, XXIII, a 329; (Greek Church), XI, a b 138, a 142
——-Gilchrist process (Iron), XIII, b 355, b 356, note
THOMASIUS or Thomasen, Christian, jurist, XXIII, b 329–30; (Germany), X, a 476; (Periodicals), XVIII, b 551; (Universities), XXIII, b 902–3

Thomasius, Gottfried, theologian (Theology), XXIII, b 288

——, Jacob, philosopher (Leibnitz), XIV, a 418

Thomason, Sir Edward, manufacturer (Brass), IV, a 197

——, James, lieut-governor, *d.* 1853 (India), XII, b 814

—— collection of Pamphlets, XVIII, a 209; (Libraries), XIV, *b* 514

Thomasset's testing machine (Strength of Materials) (Ill.), XXII, a 627

Thomassin, Louis, theologian (Canon Law), V, a 21; (Popedom), XIX, a 525

Thomists, school (Scholasticism), XXI, b 447

Thomond, district (Clare), V, a b 702; clans of (Celtic Literature), V, a b 268

Thompson, Allen, physician (Embryology), VIII, b 153, b 154, a b 155; (Monster), XVI, a 792, a 793; (Physiology), XIX, *b* 38, note, b 50; (Reproduction), XX, a 430, a 435. See List of Contributors

THOMPSON, Sir Benjamin, Count Rumford, scientist, XXIII, a 330–1; (Davy), VI, *a* 744; (Energy), VIII, b 188–9; (Gunnery), XI, b 264; (Gunpowder), b 287, a 295; (Heat), *a* b 497; (Photography), XVIII, a 834; his photometer (Light), XIV, b 587–8

THOMPSON, Cephas, artist, XXIII, b 939

——, Cephas Giovanni, artist, XXIII, b 939–40

——, Daniel, novelist, XXIII, a 940

THOMPSON, Daniel Pierce, novelist, XXIII, a 940

——, George, abolitionist (Garrison), X, *a* 78

——, Sir Henry, surgeon (Cremation), VI, *b* 501, a 502; (Vesical Diseases), XXIV, a 206

——, Jerome, artist, XXIII, b 939–40

THOMPSON, John R., editor, XXIII, a 940

THOMPSON, Joseph Parrish, clergyman, XXIII, a 940

——, John Vaughan, naturalist (Crustacea), VI, b 558, b 568 note, b 588; (Mollusca), XVI, *a* 655; (Polyzoa), XIX, a b 443, b 456; (Zoology), XXIV, b 847, b 849

——, J. W., inventor (Steam-Engine), XXII, a 922

——, Robert, horticulturalist (Horticulture), XII, b 230, a 232, a 250 note, a 251, b 301

——, Thomas, chemist (Alchemy), I, b 412, b 413

THOMPSON, Thomas Peronnet, mathematician, XXIII, a b 331

——, W. B., engineer (Steam-Engine), XXII, b 533

——, William Hepworth (Butler, William Archer), IV, *b* 525; (Parmenides), XVIII, a b 322, a 323; (Socrates), XXII, b 245, a 251

THOMPSON, Zadoc, naturalist, XXIII, b 940

Thompson's calorimeter (Coal), VI, a 75

Thomsen, Hans P. J. Julius, chemist (Chemistry), V, *a* 419, a 422, *b* 423, b 426, a 428, b 429, *a* b 430, a b 431, b 433, b 437, a b 440, a 442, a 446, b 449, b 454, a 455, b 457, b 458, b 466, a 469, b 470; (Sodium), XXII, a 258

——, Wilhelm Ludwig Peter, philologist (Scandinavian Literature), XXI, *a* 382 notes, b 386 note

Thomsenolite (Mineralogy) (Ill.), XVI, b 399

THOMSON, Charles, secretary, XXIII, b 940

THOMSON, Sir Charles Wyville, naturalist, XXIII, b 331; (Aristotle), II, b 458 note; (Atlantic Ocean), III, a 17, a 21, a 24, *a* b 25; (Distribution), VII, *b* 243; (Echinodermata), a 544, a 547, b 550, b 555; (Foraminifera), IX, b 325–6, note; (Protozoa), XIX, a 861; (Zoology), XXIV, b 853. See List of Contributors

——, George, physician (Guyton de Morveau), XI, a 307 note; (Plague), XIX, a 176, note

——, James, physicist (Capillary Action), V, a 59; (Elasticity), VII, b 692–4, a 695; (Glacier), X, a b 562; (Harmonic Analysis), XI, b 431; (Hydromechanics), XII, b 494, *b* 523, b 525, a 558, a 561, a 562, a 566, b 567; (Ice), a 647; (Thermodynamics), XXIII, b 303, a 305, b 307; (Whirlpool), XXIV, *b* 571

THOMSON, James, author of the *Seasons*, XXIII, b 331–2; (Drama), VII, b 377–8; (Johnson, S.), XIII, b 731–2; (Lyttelton), XV, b 122

THOMSON, James, poet, *d.* 1882, XXIII, b 332–3

THOMSON, John, landscapist, XXIII, a b 333

——, Joseph, traveller (Sokoto), XXII, *a* 262

——, R. D., chemist (Brewing), IV, b 240

——, R. W., engineer, *b.* 1822, *d.* 1873 (Steam-Engine), XXII, b 549

——, Thomas, antiquarian, XXIII, b 333

——, Sir William, physicist, (Atom), III, a 35, a 36, b 37, a 38, *b* 40, *a* 41, a 42; (Attraction), b 56, *a* 57; (Calculating Machines), IV, a 582; (Capillary Action), V, a 53, a 63, a 64; (Elasticity), VII, b 695–6, b 707–9; (Electricity), VIII, b 11, a 12, *a b* 13, *a* b 14, *a* 15, b 16, b 22, a b 25, b 28, b 30, a b 32, a 34, b 35, b 39, a 43, a 44, a 49, b 50, b 54, a b 57, a 65, *b* 71–2, a 77, a 80, a 84, a b 86, a b 88, a b 89, note, a b 90, *a* b 91, a b 92, a 93, a 96, a 97, a b 98; (Electrometer), b 110, a 111, a b 112–3, a b 114–5, a 116; (Energy), b 188, *b* 190, b 191; (Galvanometer) (Ill.), X, b 45, b 46, a 47, *b* 48; (Geology), *b* 193, b 199, *a b* 201, a b 202, a 222; (Glacier), a 562; (Gyroscope), XI, *b* 315, a b 316; (Harmonic Analysis), b 430, a b 431; (Hydromechanics), XII, b 467, b 477; (Magnetism), XV, b 227, b 232, a b 234, note, a 236 note, b 245, a b 246, a 249, *b* 251, a 254, note, b 266, a b 268, b 271, a 272, note, b 273 note, a b 275; (Meteorology), XVI, a 180, b 188; (Peltier), XVIII, b 491; (Pyrometer), XX, b 135, a 137; (Radiation), b 222; (Seismometer), XXI, b 661; (Sounding), XXII, a 295; (Steam-Engine), a 496, a 497, b 500, a 501; (Telegraph), XXIII, a 120, b 121, b 123, a *b* 124, note, a b 133, *b* 134, a b 135; (Telephone), a 139, b 141; (Thermodynamics), *b* 303, note, a b 305, *a* 306, a 308; (Tides), a 375, a 378, *b* 380, note, a 382, a 383, note, b 384, b 386, b 395, *a* 396, b 398, b 406; his accumulator (Electricity) (Ill.), VIII, b 32; his capacity test (Telegraph), XXIII, b 125; his compass (Ill.), VI, a b 203; his gauge (Tides), XXIII, *a* 395; his replenisher (Electricity), VIII, a 96; his theorem of motion (Hydromechanics), XII, b 467; his tray-cell (Electricity), VIII, a 88. See List of Contributors

Thomson and Tait's Natural Philosophy (Tides), XXIII, a b 402

Thomsonite (Mineralogy) (Ill.), XVI, a 442

Thonegwa, district. See THUNKHWA

Thonomys, genus (Mammalia), XV, b 424

Thooid or lupine series (Mammalia), XV, a 445

Thor, god (Æsir), I, a b 189, a 190; (Edda), VII, b 564; (Fire), IX, b 201; (Freya), b 682; (Germany), X, a 426, b 429; (Mythology), XVII, b 162

Thoracentesis, operation (Pleurisy), XIX, *a* 235

Thoracica, division (Crustacea), VI, *b* 588–9

Thoracic arteries (Anatomy), I, b 792–3, a 794

—— duct (Anatomy), I, *b* 796; (Mammalia), XV, b 367; (Nutrition), XVII, b 688

—— ganglia (Anatomy), I, b 775, a 776

—— operations (Pleurisy), XIX, *a* 235; (Surgery), XXII, a 725

Thoracipoda, sub-class (Crustacea), VI, b 578–85

Thorax (Anatomy), I, b 704, a 705, b 720–1, b 728, a 733; (Ape), II, a 141; (Butterflies and Moths), IV, b 527; (Coleoptera) (Ill.), VI, a b 115; (Crustacea), b 559, a b 560, b 564; (Dragon-Fly), VII, a 334, b 335; (Hymenoptera), XII, a 607; (Insects), XIII, b 150; (Mammalia), XV, b 368; (Respiration), XX, b 489–90, a b 492, b 493

THOREAU, Henry David, author, XXIII, b 333–4; (American Literature), I, b 638, b 640, b 642; (Poetry), XIX, a 270

Thorell, Dr. T. naturalist (Arachnida), II, a 259, a 260, a 261 note, b 262

Thoresen, Anna Magdalene, novelist (Norway), XVII, a 606

Thorfinn, son of Sigurd, earl (Orkney), XVII, a 873; (Scotland), XXI, *a* b 502, a 503

—— Hausakliuf, earl (Orkney), XVII, a 873

Thorgils Saga (Iceland), XII, *b* 661

Thorild, Tomas, critic (Kellgren), XIV, a 31; (Sweden), XXII, a 795

Thorismund, king of the Visigoths (Attila), III, b 54–5

Thorite (Mineralogy) (Ill.), XVI, a 443

THORIUM, metal, XXIII, b 334; (Chemistry), V, a b 470

Thorlak, St., bishop (Iceland), XII, a *b* 662

Thorlaksson, John, poet (Iceland), XII, *b* 658

Thormod, poet (Iceland), XII, b 657

Thormod and Thorgeir Saga (Iceland), XII, a 660

Thorn, plant (Botany) (Ill.), IV, b 86; (Glastonbury), X, a 602; hedge of (Agriculture), I, a 276

THORN, town, XXIII, b 334–5

——, Frank M., superintendent (Surveys), XXII, b 939

THORNBACK, fish, XXIII, a 335; (Ichthyology) (Ill.), XII, b 576

Thorndale, treatise (Smith), XXII, b 188–9

Thorney Island (London), XIV, b 853

——, town (Cambridge, County), IV, b 644

Thornhill, James, painter, XXIII, b 335

THORNHILL, Sir James, painter, XXIII, a b 335; (Hogarth), XII, *a b* 50

Thornton, town (Abbey), I, b 25

——, Sir Edward, diplomatist (Canada), IV, *a* 677

——, Gilbert de, judge (Bracton), IV, a 178

THORNTON, John Wingate, antiquary, XXIII, b 940–1

THORNTON, Matthew, signer of the Declaration, XXIII, a 941

——, William Thomas, economist (Agriculture), I, a 367, b 369; (Political Economy), XIX, b 390, a 395. See List of Contributors

THORNWELL, James Henley, clergyman, XXIII, a 941

Thornycroft's boiler (Steam-Engine), XXII, a 522

Thorodd, grammarian (Iceland), XII, a 664

"Thorough," political system (Milton), XVI, a 339, b 340. See STRAFFORD

Thoroughbred hunters (Horse), XII, a b 191; race horses (Horse), a b 186–91; in United States (Horse), a b 207

Thorp, Thomas Edward, chemist (Titanium), XXIII, b 437
Thorpe, Benjamin, philologist (Pauli), XVIII, b 443
THORPE, Thomas Bangs, author, XXIII, a b 941
Thorsbjerg, inscription (Scandinavian Languages), XXI, b 382
Thor's Cave, V, b 234, a b 235; (Cross), VI, a 542
Thorshavn, town (Denmark), VII, b 73; (Faroe Islands), IX, a 36
Thorstein, mountain (Saizkammergut), XXI, a 253
Thorsten the Red, viking (Scotland), XXI, b 500
THORWALDSEN, Bertel, sculptor, XXIII, b 335-6; (Copenhagen), VI, a *b* 305, a b 306; (Denmark), VII, a b 82; (Hope), XII, a 162; (Lucerne), XV, b 42; (Sculpture), XXI, b 597
Thoth, god (Cosmogony), VI, b 395, a 396; (Egypt), VII, a 621, a b 622; (Hermes Trismegistus), XI, a 671; literature (Libraries), XIV, b 509
Thothmes I., king (Egypt), VII, a 639
—— II., king (Egypt), VII, a 639
—— III., king (Canaanites), IV, a 675; (Egypt), VII, a b 639, *a* 675, b 677
—— IV., king (Egypt), VII, a 640; (Incense), XII, b 757
Thott, Brigitta, translator (Denmark), VII, b 79
Thou, Adrien de, bishop, XXIII, a 336
——, Christophe de, judge, XXIII, a 336
THOU, Jacques Auguste de, historian, XXIII, a b 336; (Bookbinding), IV, *b* 37; (France), IX, *b* 580
Thouar, Arthur, explorer (Plate), XIX, b 199, note
Thouet, river (France), IX, a 446, b 457
Thought (Descartes), VII, b 106; (Eleatic School), VIII, a b 3; (Hegel), XI, *a b* 552; (Logic), XIV, a b 793, a b 794, b 803-4, a b 805, b 806-7, a b 808-9, a b 810; (Metaphysic), XVI, a 93, a 99, a 105, a 107; defined (Psychology), XX, b 79-88; limits of (Theism), XXIII, b 265, a 266; (Theology), a 283; Spinoza on extension and (Cartesianism), V, b 136, a 138; as the universal (Categories), b 196
Thoughts on Present Discontents (Burke), IV, a b 485
THOUSAND AND ONE NIGHTS, tales, XXIII, b 336-7; (Arabia), II, a 231; (Illumination), XII, a 747; (Mohammedanism), XVI, b 603
THRACE, country, XXIII, b 338-9; (Ares), II, a 427; (Illyria), XII, a 748; (Numismatics), XVII, a b 656, a 657; (Thucydides), XXIII, b 343, a b 345
Thraces, fighters (Gladiators), X, b 563
Thracian Sea (Thrace), XXIII, a 339
—— tribes (Troad), XXIII, b 615
Thraco-Illyrians, people (Illyria), XII, b 747
Thrale, Henry, brewer (Piozzi), XIX, *a* 119
——, Hester Lynch, authoress. See PIOZZI
Thralls or dwarfs (Edda), VII, b 564
Thrall, slave (England), VIII, a 248
Thranites, rowers (Ship), XXI, a *b* 843
Thrasamund, Vandal king (Vandals), XXIV, b 65
Thrasea Pætus, senator (Helvidius), XI, a 574; (Nero), XVII, b 359; (Persius), XVIII, b 675; (Stoics), XXII, a 601
Thrashing-machines. See Threshing-machine
THRASYBULUS, statesman, XXIII, b 339-40; (Greece), XI, a b 92
—— of Miletus, tyrant (Periander), XVIII, a 539
——, king of (Syracuse), XXII, b 853
Thrasyllus, monument of (Athens), III, b 8
Thraulite (Mineralogy), XVI, b 443
Thrax, Dionysius (Grammar), XI, b 34, a 39
Thread (Cotton), VI, a 446; (Linen Manufactures), XIV, a b 673; (Paisley), XVIII, b 145; Bleaching, III, b 711-2
—— cells (Cœlentera), VI, a 99; (Corals), b 327; (Mollusca), XVI, a 684
Thread-worms. See NEMATOIDEA
Three Ages, painting (Titian), XXIII, a 444
Three bodies, problem of. See Problem of three bodies
"Three Chapters," controversy of (Justinian I.), XIII, b 805; (Pelagius I. and II.), XVIII, a *b* 484; (Theodore), XXIII, b 274
Three cylinder engines (Steam-Engine) (Ill.), XXII, a b 540; locomotive, b 544-6; marine engines, b 544-6
Three high train rollers (Iron), XIII, b 337-8
Three Hours after Marriage (Gay), X, b 107
Three kings, The (Cologne), VI, b 136
Three Musketeers, novel (Dumas, A.), VII, b 450
Three-point problem in geometry (Mechanics), XV, b 711
Three-Points, cape (Gold Coast), X, b 672
THREE RIVERS, city, XXIII, a b 340; (Quebec), XX, b 171, a 174; (St. Lawrence), XXI, b 190
Three Sisters, mountains (Oregon), XVII, a 846; (United States), XXIII, a 851
"Three Towns" (Plymouth), XIX, b 247
Thremmatology (Zoology), XXIV, b 840-1, b 856-7
Thresher, bird (Mocking-Bird), XVI, b 564
——, fish (Shark), XXI, b 813-4; (Sword-Fish), XXII, a 843
Threshing machines (Agriculture) (Ill.), I, a 269, a 270, b 288, b 289-90, a 290; (Patents), XVIII, a 878; protection of (Riot), XX, a 580
Threshing-mill (Haddington), XI, b 323
Thriasian plain (Attica), III, b 52; (Eleusis), VIII, b 120
Thrie Preistis of Peblis (Scotland), XXI, b 566
Thrift, flower (Horticulture), XII, b 257
——, encouragement of (Savings Banks), XXI, b 343, a 344
Thrinax, palm (Horticulture), XII, b 276
Thrips, group (Insects), XIII, a 159; (Wheat) (Ill.), XXIV, b 564-5
Thrissil and the Rois (Dunbar), VII, b 459, *a* 460
Throat, coping (Building), IV, a 422
——, seizing (Seamanship), XXI, b 620
THROAT DISEASES, XXIII, b 340-2; clearing (Respiration), XX, b 493. See Glottis, Larynx, VOICE
Thrombidæ, family (Sponges), XXII, a 440
Thrombolite (Mineralogy), XVI, b 446
Thrombosis, disease (Pathology), XVIII, a b 411
Thrombus, genus (Sponges), XXII, a 434, a 440
——, clot (Surgery), XXII, a 719
THRONDHJEM or Trondhjem or Drontheim, town, XXIII, a b 342; (Libraries), XIV, b 551; (Norway), XVII, *b* 591, *a* b 592, *a* 595, a *b* 596, *b* 597, b 599, a 600, a 601
Throne (Furniture), IX, a b 745; (Persia), XVIII, a 661; of Jamshíd (Persepolis), b 569, a 571
—— of Solomon, peak (India), XII, a 770. See Takht-i-Suleiman
Thrones, Greek (Theatre), XXIII, b 241, note; marble church (Rome), XX, a 856, note
Throstle (Cotton) (Ill.), VI, a 435, a b 440, a b 441; spinning (Wool), XXIV, b 695-6
——, bird (Thrush), XXIII, b 342, note
Throttle-valve (Steam-Engine), XXII, a 529, b 530, a 531, b 920-1
Throwing operations (Silk), XXII, a b 68
Throw of fault defined (Geology), X, b 267-8, a b 269
Thrum-eyed flowers (Horticulture), XII, b 219
THRUSH or Turdus, bird, XXIII, b 342-3; (Birds), III, b 633; a 644 note, *a* 649, a 650, a 651, a 655; (Fieldfare), IX, b 124; (Juan Fernandez), XIII, a 768; (Mistletoe), XVI, a 551; (Mocking-Bird), a 564; (Ornithology), XVIII, a b 34, note, b 42, b 51-2; (Redwing), XX, b 331; song of (Birds), III, b 663-4, a 668
——, disease (Horse), XII, b 198, b 199; (Parasitism), XVIII, b 274
—— Nightingale, XVII, a b 512
Thrust (Joints), XIII, a 742, b 743; horizontal of metal arch (Bridges), IV, b 279-81, a 282; on piers and abutments (Bridges), IV, b 291-2
Thrymskvida (Edda), VII, b 564
Thsin dynasty (China), V, b 544, *a b* 559
Thuana, history (Ana), I, b 688. See THOU
THUCYDIDES, historian, XXIII, a 343-8
  Antiphon, relation to, b 344
  Athens, development of, b 343-4
  birth and parentage, b 343
  critical estimate, a 346-7
  division into books, a b 347
  editions, b 347-8
  History, a 344-5
  last years, b 345-6
  speeches, the, b 346-7
  Thracian war and exile, a b 345
  time reckoning, b 347
  travels, b 345
—— (Chronology), V, a 616, a 618; (Cleon), *b* 721; (Games), X, a 59; (Greece), XI, a *b* 91, a 119, b 120, b 126, b 127; (Hellanicus), *a* b 566; (Herodotus), a b 677; (History), XII, a b 22, a 23; (Hobbes), b 34, note; (Homer), b 112, a 113, b 119; (Pericles), XVIII, a b 541 notes, b 542, b 543, a b 544, note; (Syracuse), XXII, b 854, a 855
——, son of Melesias, party-leader (Pericles), XVIII, a b 542
Thuggee Dictionary, VII, a 166
THUGS, assassins, XXIII, a b 348; (Dictionary), VII, a 166; (India), XII, b 845-6; (Lahore), XIV, b 213
THUGUT, Franz Maria von, statesman, XXIII, b 348-9
Thuja or Thuya, tree (Arbor vitæ), II, *a* 275; meristem zones of (Histology), XII, b 17
THULE, land, XXIII, b 349-50; (Polar Regions), XIX, a 328; (Ptolemy), XX, a b 98, *b* 99; (Pytheas), *b* 149-50; southern (Polar Regions), XIX, a 342
Thulite (Mineralogy), XVI, a 427
Thulium, metal (Spectroscopy), XXII, a 391
Thumb (Anatomy), I, a 726, *a* 737; of mystacina (Mammalia) (Ill.), XV, b 418. See Pollex
Thumb-Ring, XX, *b* 576
Thumbscrew (Torture), XXIII, a 495 note, b 496
Thumi Sambhota, minister (Lāmāism), XIV, a b 229

THUM-KHWA or Thonegwa, district, XXIII, b 351
THUMMEL, Moritz August von, poet, XXIII, a 350
Thun, Lake, XIV, *a* 219, a 221; (Switzerland), XXII, a 815; lake and town (Bern), III, *b* 518; military school (Army), II, b 539
THUNBERG, Carl Peter, botanist, XXIII, a 350
Thunder (Acoustics), I, a b 100; stage (Theatre), XXIII, a 245
—— bay and river (St. Lawrence), XXI, a b 187
THUNDERSTORM, XXIII, a 350–1; (Aurora), III, b 80–1; (Fisheries), IX, b 225; (Meteorology), XVI, a 133–4, a 137; (Norway), XVII, b 594; (Sweden), XXII, b 777
Thünen, von, Johann Heinrich, economist (Political Economy), XIX, b 401
Thur, desert (Rajputána), XX, b 271–2. See THAR AND PÁRKAR
——, valley (Switzerland), XXII, a b 814, a 815
Thurammina (Protozoa) (Ill.), XIX, a 869, b 870
THURGAU or Thurgovia, canton, XXIII, b 351–2; (Switzerland), XXII, a b 816, a b 818, a 819, a 825, a 828, a 829, a 831, b 832, a 833
Thuricola, genus (Protozoa) (Ill.), XIX, b 885, a 888
THURII or Thurium, city, XXIII, b 352; (Charondas), V, a 373; (Greece), XI, a 91; (Heredotus), *b* 677; (Numismatics), XVII, *b* 653, a 654; (Pericles), XVIII, a 542
THURINGIA, district, XXIII, b 352–3; (Saxony), XXI, a 372; history of (Germany), X, a b 428, a 429, b 432, *a* 433, a 436, a 437, b 442; statistics of (Germany), a 403, *b* 404, a b 405, b 408, a 410, b 411, a 413, *a* 423
Thuringian Forest mountains (Saxe-Coburg-Gotha), XXI, a 363; (Saxe Weimar), a 365
Thuringians, tribes (Germany), X, *b* 427, b 429
Thuringite (Mineralogy), XVI, b 431
Thuringorum, Lex (Salic Law), XXI, b 225
THURLES, town, XXIII, b 353
Thurloe, John, postmaster (Post-Office), XIX, b 579; (Milton), XVI, a b 345; (Records), XX, a 327
THURLOW, Edward Thurlow, baron, XXIII, b 353–4; (Cowper), VI, a b 473, b 474; (Pitt), XIX, b 146, b 147, a 149
Thurmberg, mountain (Germany), X, b 403; (Prussia), XX, b 24
Thurn, count, general (Ferdinand II.), IX, a 68
Thurneysser, Leonard, alchemist (Chemistry), V, a 398
Thurot, Jean François, philosopher (Universities), XXIII, a 890 note
Thursday (Æsir), I, a 190
—— island (Queensland), XX, a 178, a 181
THURSO, town, XXIII, b 354; (Caithness), IV, b 574, *a* b 575
Thurston, Robert Henry, engineer (Lubricants), XV, a *b* 37, a 38; (Steam-Engine), XXII, a 491 note, a 496 note; (Strength of Materials), a 629, note, b 630, note; his oil testing machine (Lubricants), XV, a 37
Thus, gum (Frankincense), IX, a 626
Thuya, plant. See Thuja
Thyatira. See Akhissar
Thyborön canal (Denmark), VII, a 73
Thyestes, legend (Atreus), III, b 44
Thyestes at Sicyon, play (Sophocles), XXII, b 285
Thylacinus, genus (Mammalia), XV, b 357, a 381, b 382–3
Thylacium, genus (Tunicata), XXIII, a 657
Thylacoleo, fossils (Mammalia) (Ill.), XV, b 385–6, note
Thymallus, genus (Grayling), XI, a 71; (Salmonidæ), XXI, a 232, b 234, a 236
Thymbra, town (Troad), XXIII, a 616
THYME, plant, XXIII, a 355; (Horticulture), XII, b 302; (Hyssop), a 635
Thymelaceæ, plants (Laurel), XIV, b 349
Thymiaterium, colony (Phœnicia), XVIII, a 820
Thymol, chemical (Thyme), XXIII, a 355
Thymus gland (Amphibia), I, b 672; (Anatomy) a b 797; (Mammalia), XV, a 368
Thyni, tribe (Bithynia), III, b 688
Thynnus, genus of fish (Tunny), XXIII, a 665, a 666 note
Thyre Danebod, tomb of (Barrows), III, b 343
Thyroid arterial system (Anatomy), I, a b 794; bodies (Mammalia), XV, b 367; foramen (Mammalia), a 363; gland (Anatomy), I, a b 797; (Goitre), X, a b 658; diseases of (Pathology), XVIII, b 391, b 392, a b 393; function of (Pathology), b 392, a 393
Thyroptera, classification (Mammalia), XV, b 411, b 414, a 415, a 416
Thyrsus (Botany), IV, a 113
Thyrza (Byron), IV, b 539, *a* 540
Thysanopoda, species (Crustacea), VI, b 568, b 582 note
Thysanoptera, group (Insects), XIII, a 159
Thysanoteuthidæ, family (Mollusca), XVI, b 695
Thysanoteuthis, genus (Mollusca), XVI, b 694, b 695
Thysanura, order (Insects), XIII, a 153, a 154, a b 160; (Myriapoda), XVII, b 126, b 127
Thysdrus, town (Amphitheatre), I, *a* 681
Tiällman, N., grammarian (Scandinavian Languages), XXI, a 389
Tian Shan, mountains. See Thian-Shan
Tiara. See Papal Crown
Tibagy, river (Brazil), IV, a 200, b 201
Tibaldi Maria Felice, painter (Subleyras), XXII, a 649
Tibbington, town. See TIPTON
TIBBUS or Tubus, race, XXIII, a 355–6; (Africa), I, a b 233–4, a 240; (Negro), XVII, *b* 327, a 328; (Soudan), XXII, b 291, note, *a* 292
Tiber, fable of (Rome), XX, a 853
——, island (Roman Law), XX, a 700 note
—— river (Geology), X, a 247; (Italy), XIII, a b 447, a 448; (Pilate), XIX, b 98
TIBERIAS, city, XXIII, a 356; (Galilee), X, b 27, *a* 28; (Herod Antipas), XI, a 675
——, battle of, 1187 (Crusades), VI, a 554; (Egypt), VII, b 653–4
——, lake (Palestine), XVIII, b 175, b 180, b 181. See GALILEE, Sea of
Tiberine republic (Italy), XIII, *b* 495
TIBERIUS, Claudius Nero, emperor, XXIII, a 356–9
  authorities, b 358–9
  character of, a b 358
  Eastern campaigns, b 356
  German campaigns, a b 357
  Julian family, relations of the, a b 356
  reign of, b 357–8
  retirement of, a 357
—— (Agrippina I.), I, a 372; (Agrippa, Herod I.), b 370; (Capri), V, b 69; (Germanicus), X, a 400–1; (Germany), b 426; (Government), XI, a 12; (Laurel), XIV, b 349; (Law), b 363; (Libraries), a 511; (Persia), XVIII, b 611, a 612, a b 624; (Pilate), XIX, a b 98; (Romans), XX, b 746; (Rome), a 788, note, a 789, b 790, a b 792, a 793; (Sumptuary Laws), XXII, a 678; (Veronica), XXIV, a 189; literary age of (Latin), XIV, a 337
—— II., emperor (Greece), XI, b 100, a 101, a 102; (Justinian II.), XIII, b 807
Tiberius and Vipsania (Landor), XIV, b 280
Tibesti, country (Africa), I, a 223, b 224, b 228, b 233; (Oases), XVII, a 715; (Tibbus), XXIII, *a* b 355
TIBET, Thibet or Tübet, country (Plate IV), XXIII, a 359–70
  bibliography, b 370
  boundaries, b 359
  climate, b 363–4
  Eastern plateaus, b 362
  geographical divisions, a 360
TIBET, *continued*
  government, b 364–5
  grammar, b 369–70
  Himalayan region, b 360–1
  history, b 366–8
  industry and trade, a b 364
  inhabitants, a b 365
  language, b 368–70
  literature, a b 366, a b 368 notes, a b 370
  maps, a 360
  name, a 359
  philology, a 369–70
  religion, b 365–6
  rivers, b 360
  roads, a b 363
  South basins, a b 362
  travellers, b 359–60
  Western Hor country, b 362–3
  Yarotsanpo basin, b 361–2
—— (Asia), II, a 598; (Bhután), III, b 546; (Buddhism), IV, a 389, a 392; (Cannibalism), a 713; (China), V, b 547, *a* 561, a 565; (Distribution), VII, b 232, a 235; (Dog), a 287; (Himalaya), XI, a b 734, a b 735, b 737–8, b 739; (Horse-Chestnut), XII, a 210; (Huc), b 342; (Kuen-Lun), XIV, b 133–40; (Lhasa), a 496–503; (Mongols), XVI, b 770; Buddhism in (Lamaism), XIV, a 229–30; explorations (Geography), X, a 168, a 171; fauna and flora (Asia), II, a 605, a 606, *a* 607, b 608; (Himalaya), XI, *a* b 743, a 744; geology of (Himalaya), b 739; meteorology (Himalaya), b 740, *a b* 741, *a* 742; temperature (Himalaya), b 740–1
——, Little, country (Ládak and Balti), XIV, a b 199
Tibetan language (Csoma De Koros), VI, a 599; XXIII, b 368–70; (Dictionary), VII, a 167; (Mongols), XVI, a 778; (Philology), XVIII, b 792
Tibeto-Burman languages (India), XII, b 816–8; (Tibet), XXIII, b 368
Tibi, springs (Philippine Islands), XVIII, a 763
Tibia, bone (Anatomy) (Ill.), I, b 727; (Ape), II, b 142–3; (Birds), III, b 626; (Horse), XII, b 181; (Mammalia), XV, a 363; (Skeleton), XXII, a 126
——, musical instrument (Tournebout), XXIII, a 521
Tibial artery (Anatomy), I, b 794; nerve (Anatomy), b 763; veins (Anatomy), a 796
Tibio-fibular joints (Anatomy), I, a 738
Tibisire (Fibres, Textile), IX, a 116
Tibu, race. See TIBBUS
TIBULLUS, Albius, poet, XXIII, a 370–3
  biographical account, a 370–1
  poems of, a b 371
  spurious books, b 372–3
  text and editions, a 373
  Vita Tibulli, b 371–2

Tibullus (Ovid), XVIII, *a* 82, a 83; (Roman Literature), XX, *a* 743
Tibur, city (Libraries), XIV, a 511; (Tivoli), XXIII, b 448-9
Tiburtinus lapis (Rome), XX, b 825
Tical or bat, weight (Weights and Measures), XXIV, b 518
Tic douloureux, neuralgia (Malaria), XV, b 320; (Neuralgia), XVII, a 373
Tichodroma, genus (Tree-Creeper), XXIII, a 568
TICINO or Tessin, canton, XXIII, a 373-4; (Switzerland), XXII, a b 814, b 815, 816, a 818, a 819, b 828, *b* 832, a b 833, *b* 834
—— river (Alps), I, a 547; (Italy), XIII, a 445; (Maggiore), XV, a b 199; (Switzerland), XXII, a b 815, a 816
—— or Ticinum, city (Pavia), XVIII, a 450
Tickell, naturalist (Hornbill), XII, a b 173
TICKELL, Thomas, poet, XXIII, a 374; (Addison), I, a b 137; (Pope), XIX, *a* 500
Ticket of leave men (Prison Discipline), XIX, a 772, b 775; Australia (Prison Discipline), b 770, b 771
Ticknor, Elisha, educator, XXIII, a b 374
TICKNOR, George, historian, XXIII, a 374-5; (American Literature), I, b 635; (Mendoza), XVI, a 14; (Montalvan), b 798
Ticks, parasites (Arachnida) (Ill.), II, a 242; (Mite), XVI, a 553
TICONDEROGA, village, XXIII, a b 375; (New York), XVII, b 467; (St. Clair), XXI, b 898; (United States), XXIII, a 783, b 788
Tic-prolonga, serpent (Snake), XXII, a 210
Tidal cosmogonic theory (Tides), XXIII, a 404-6; influence on solar system (Tides), b 405-6
—— currents (Meteorology), XVI, b 192
—— friction (Tides), XXIII, b 399-402
—— Harbors, XI, b 411-6, a 417
—— rivers (Navigation Laws), XVII, a b 286; (River Engineering), XX, b 590, *a* 591-5, b 596
—— waves (Earthquake), VII, b 528; (Tides), XXIII, a 375; (Wave), XXIV, a 438. See Bore
Tide basins (Harbors and Docks), XI, a 417, a 419
—— dams (Coffer Dams), VI, a b 104-5
—— gauge (Tides), XXIII, a 390, b 394-5
TIDES (Ill.), XXIII, a 375-406
  British Seas, cotidal lines (Map), a 397-8
  cause of, a 376-7
  compound tides, a b 386, b 389
  continued fraction method, a b 383, a b 384

TIDES, *continued*
  cosmogonic speculations, a 404-6
  cotidal lines (Map), b 396-8
  datum levels, b 393-4
  definitions, a 375, b 393
  deformation of the earth, b 398-9
  description of, general, a 375-6
  development of tide generating potential, b 379-80
  diurnal tide, synthesis of, a b 393
  dynamical theory, b 380-6
  earth and moon's history, a 404-5
  earth's rotation, retardation of, a 402-4
  elastic tides, b 398-9
  equations of motion, a b 381
  equatorial canal theory, b 376-7
  equilibrium, form of, a b 379
  equilibrium theory in elements of orbits, a 387-9
  forced oscillations, adaptation to, b 381
  friction, tidal, b 399-404
  gauges, b 394-5
  harmonic analysis, b 386-91
  harmonic analyzer (Ill.), a 395-6
  historical sketch, a 377-8
  instruments (Ill.), b 394-6
  land effects in equilibrium theory, b 380-1
  Laplace's friction argument, b 383
  long-period tides, b 383-4, a 391
  lunar deflection of gravity, a b 380
  meteorological tides, a b 389
  momentum analysis, b 400-1
  moon's orbit, effects of tidal friction on, b 402-4
  numerical harmonic analysis, a 390-1
  observations, reduction of, a b 394
  oceanic stability, b 384
  over-tides, b 385, b 389
  planetary sub-systems, history of, a b 405
  precession and nutation, b 384-5
  prediction instrument (Ill.), a b 396
  preparation for solution, b 381-2
  presentation form, harmonic analysis, b 389-90
  rigidity, earth's, a 399
  river tides, a 385-6
  schedules, a 388-9
  secular effects of tidal friction, a 400-2
  semi-diurnal tides, b 382-3; synthesis of, b 391-3
  solar and lunar-portions of semi-diurnal tides, a 392-3
  solar system, evolution of, b 405-6

TIDES, *continued*
  synthetic method, a 391-4
  table of contents, a b 407
  theory, methods of applying harmonic, b 386-7
  tide generating forces, analysis of, b 378-80
  viscous tides, b 399

—— (Adriatic Sea), I, b 151; (Amazon), b 575; (Astronomy), II, b 665-6; (Baltic), III, a 256; (Cambay), IV, b 639, a 640; (Channel Islands), V, a 340; (Cochin China), VI, a 86; (Earth), VII, a 519; (Eubœa), VIII, a 569; (Forth), IX, b 370; (Galileo), X, a 31, a 32; (Galveston), a b 49; (Geology), a 237, b 250-1; (Holland), XII, a 62, b 63, b 65; (Hooghly River), a 151; (Kepler), XIV, b 48; (Lake), b 222; (Manche), XV, *b* 466; (Mechanics), a b 694; (Mediterranean Sea), a 831; (Meghná), b 839; (Navigation), XVII, b. 282; (New Brunswick), b 382; (North Sea), *a* b 577; (Norway), b 594; (Pytheas), XX, b 150; (Red Sea), a 329; (St. Malo), XXI, b 195; (Southampton), XXII, b 296; Batsha (Light), XIV, a 611; Egripo (Greece), XI, b 74; relation to a fluid interior of earth (Geology), X, *b* 201; retardation of (Geology), b 202. See Lagging of high-water; Suez canal (Canal), IV, a 699
——, atmospheric (Meteorology), XVI, b 127-9
Tide tables (Navigation), XVII, b 259, a 263, b 269; (Tides), XXIII, b 392-3; United States (Surveys), XXII, b 939
Tidewater Virginia, XXIV, a 275, *a* 276, a b 277, *a* 278
Tideways (Harbors and Docks), XI, b 410
TIDOR or Tidore, island, XXIII, a 407; (Jilolo), XIII, b 703, a 704; sultanate of (New Guinea), XVII, a b 399
Tieck, Dorothea, translator, XXIII, b 408
——, Friedrich, sculptor (Sculpture), XXI, a 593
TIECK, Ludwig, romancist, XXIII, a 407-8; (Drama), VII, b 362, *a* 383; (Germany), X, *b* 484-5
Tiedemann, Dietrich, philosopher, XXIII, b 408
TIEDEMANN, Friedrich, anatomist, XXIII, b 408-9
——, H., naturalist (Ornithology), XVIII, a 23, b 51
Tieftrunk, Karl, historian (Slavs), XXII, a 160
Tieghem, van, biologist (Schizomycetes), XXI, b 416, a 417, a 418, a 425 note
Tiele, C. P., ethnologist (Religions), XX, b 379, a 380, *b* 383. See List of Contributors
Tiemannite (Mineralogy), XVI, a 410
Tien-chwang-tai, city (New Chang), XVII, a 391
T'IENTSIN, city, XXIII, a 409; (China), V, b 548, a *b* 549, a *b* 550, b 551, a 556; treaty of, 1858, XXIII, a 409
Tiepolo, Bajamonte, conspirator (Venice), XXIV, b 155
Tiercel, falcon (Falconry), IX, a 11
TIERNEY, George, politician, XXIII, a b 409
Tierra Bomba, island (Cartagena), V, a 124
TIERRA DEL FUEGO, archipelago (Map), XXIII, b 409-10; (Cannibalism), IV, a 713; (Patagonia), XVIII, b 356, note; flora (America), I, a 602; races (America), a 603
Tiers-argent, small money (Nickel), XVII, a 502
"Tiers État" (Bailly), III, a 211; (France), IX, *a b* 526
Ties or sleepers (Railway), XX, b 251, a 253, a b 254, b 264
TIFFIN, city, XXIII, a 411
TIFLIS, city, XXIII, a b 411; (Caucasus), V, a *b* 222; (Georgia, Kingdom), X, b 387, *a b* 388, a b 389; (Observatory), XVII, a 735; (Persia), XVIII, b 657, note; provincial statistics (Russia), XXI, b 76; (Transcaucasia), XXIII, b 545, *a* 546, a b 547
Tigellinus, courtier (Nero), XVII, b 358, *b* 359
TIGER, mammal (Ill.), XXIII, b 411-2; (Assam), II, a 630; (Cochin China), VI, a 87; (Fur), IX, a 736, a 737; (Hunting), XII, a 412; (India), a b 779; (Java), XIII, a 613, note; (Malay Peninsula), XV, b 325; (Mimicry), XVI, b 355; (Sumatra), XXII, b 673; fossil (Zoology, American), XXIV, b 926
—— in the Zodiac, XXIV, b 831, a 832
—— Cat. See OCELOT
Tigeritsk mountains (Tomsk), XXIII, a 466
Tiger moth (Butterflies), IV, b 528
Tiger Shark, XXI, b 811
—— -wolf (Hyæna), XII, a 437
Tighearnmas, king (Ireland), XIII, a 224
Tighernach O'Braoin, abbot (Celtic Literature), V, *a* 267; (Ireland), XIII, b 259
——, *Annals of* (Ireland), XIII, b 251
Tiglath-Adar, king of Assyria (Babylonia), III, a 161
Tiglath-Pileser I., king (Babylonia), III, b 161; (Hosea), XII, a b 309; (Phœnicia), XVIII, a 821, note; (Theism), XXIII, b 256
—— II., king (Ahaz), I, b 374; (Inscriptions), XIII, b 122; (Israel), b 421, note, a 422; (Yemen), XXIV, a 776
—— IV., king (Babylonia), III, b 161-2

Tiglic acid (Croton Oil), VI, b 543
Tignish, town (Prince Edward Island), XIX, *a* 760
TIGRANES or Dikran, kings, XXIII, b 412-3
—— I. of Armenia, XXIII, b 412; (Cappadocia), V, b 68; (Persia), XVIII, b 606
—— II., king, XXIII, b 412-3; (Armenia), II, a 480
—— IV., king, Armenia (Tiberius), XXIII, b 356
—— V., king, Armenia, XXIII, a 413; (Persia), XVIII, a b 613
Tigranocerta, city (Kúrdistán), XIV, a 160; (Tigranes), XXIII, b 412; battle of, 69 B.C.(Lucullus), XV, a 58
Tigré or Tigriña, province (Abyssinia), I, a 62, *a b* 63, *a* 64, *a b* 65, a 66; (Africa), *a* 235; (Ethiopia), VIII, b 538; (Semitic Languages), XXI, a b 687
——, island(Honduras),XII, b 133, a 134
TIGRIS, river (Map),XXIII, a b 413; (Kúrdistán), XIV, b 156, *a* 157; (Mesopotamia), XVI, a 52, *b* 55, b 56; (Tobit), XXIII, a 456; navigation of (Baghdad), III, b 201; Roman operations on (Persia), XVIII, b 614
Tih, tomb of (Mural Decoration), XVII, b 40
——, Jebel el, mountain (Sinai), XXII, b 95
Tihuanca, town (Huaraz), XII, b 341
Tíjará, town (Alwar), I, *a* 571
Tikal, coin (Siam), XXI, b 891
Tikhvinsk canal (Volga), XXIV, a 229, a 301
Tikul, ruined city (Yucatan), XXIV, b 796, a 797
Til, oil (Sesame), XXI, b 725
——, tree (Canary Islands), IV, b 706
Tilborgh, Giles van, painter (Teniers), XXIII, a 191
TILBURG or Tilborg, town, XXIII, b 413
Tilbury Nogo, novel (Melville, G. J. W.), XV, a 853
TILDEN, Samuel Jones, statesman, XXIII, b 413-4; (Tammany Society), b 920, note; his cipher dispatches (Newspapers), XVII, a 446
—— campaign (Republican Party), XX, b 907; (United States), XXIII, a 833
Tile-fish (Smithsonian), XXII, a 916
TILES (Ill.), XXIII, a 414-6; (Brick), IV, b 252-3; (Kashi), XIV, b 10-1; (Mural Decoration),XVII, b 41-2; (Robbia), XX, a b 605, a 607; Assyrian glazed (Architecture), II, b 349; drain (Agriculture), I, b 295, b 296; flooring (Building), IV, b 407; garden edging (Horticulture) (Ill.), XII, a 224; paving (Building), IV, b 417; Persian (Mosque), XVI, a 893; ridging (Building) (Ill.), IV, a 449; roof (Building), a b 414
Tilestones (Geology), X, b 297-8
Tilghman, B. C., inventor (Glass), X, b 594; (Sand-Blast), XXI, b 269
TILGHMAN, Edward, lawyer, XXIII, b 941
TILGHMAN, James, lawyer, XXIII, b 941
TILGHMAN, Lloyd, Confederate general, XXIII, b 941-2
TILGHMAN, Tench, 1st, officer of the Revolution, XXIII, b 941
TILGHMAN, Tench, 2d, Confederate general, XXIII, b 941
TILGHMAN, William, jurist, XXIII, b 941
Tilghman's process (Glycerin), X, a 623
Tilhar, town (Sháhjahánpur), XXI, b 771
Tilia, plant (Lime), XIV, a 655; Americana, tree (United States), XXIII, a 860
Tilimsán, town. See TLEMCEN
Tilkerodite (Mineralogy), XVI, b 407
Till, glacial drift (Geology), X, a b 326; (Finland), IX, b 188
——, river (Northumberland), XVII, b 578, a 581
TILLEMONT, Sébastien le Nain de, historian,XXIII, b 416; (Church History), V, a 669; (France), IX, a 584; (Ireland), XIII, b 253
Tillering propagation (Agriculture), I, a b 316, b 317; (Wheat), XXIV, b 561, a 562, a 563
Tillicoultry, town (Clackman), V, a b 697
Tillodontia, fossils (Mammalia), XV, b 438
TILLOTSON, John, archbishop, XXIII, b 416-7; (Penn), XVIII, b 506
TILLY, Johann Tserclaes, count of, general, XXIII, b 417; (Artillery), II, a 574; (Austria), III, *b* 109; (Germany), X, *b* 448, *a* 449; (Gustavus II.), XI, *b* 298, *a* 299; (Ingolstadt), XIII, b 81; (Pappenheim), XVIII, b 233; (Wallenstein), XXIV, a b 348
Tilmadoche(Protozoa),XIX, a 863
Tilphusian spring (Tiresias), XXIII, *a* 434
Tilpin, archbishop. See TURPIN
Tilsby, John, manufacturer (Pin), XIX, b 106
TILSIT, town, XXIII, a 418
——, treaty of, 1807 (Metternich), XVI, a 208; (Persia), XVIII, a 659; (Russia), XXI, a 109; effect on Prussian Army, II, a 496, b 519
Tilt-Hammer (Ill.), XI, a b 380
Timæus or Timaios, historian (Chronology), V, b 616, a 617; (Sicily), XXII, b 25
Timæus of Plato (Atlantis), III, b 25; (Caste), V, b 167; (Plato), XIX, b 207, a b 211. b 214, a 217, b 219, b 220-1, *a* 223
Timaios or Timaos, king (Egypt), VII, b 637
Timanskiy hills (Russia), XXI, a 80; (Vologda), XXIV, a b 303
Timanthes, painter (Archæology), II, b 317; (Iphigeneia), XIII, b 217
Timarchus, satrap (Persia), XVIII, a 601
——, sculptor (Archæology), II, a 319
Timaru, town (Canterbury), V, a 29
Timavus or Timavo, river (Görz), X, b 700; (Italy), XIII, a 444
Timber (Arboriculture), II, *a b* 276-9, b 281; (Asia), a 606; (Building), IV, b 426; (Ceylon), V, a 315; (Chili), b 541; (Copyhold), VI, b 315-6; (Dry-Rot), VII, a 426; (Gran Chaco), XI, b 42; (Greece), a 74, *b* 79, b 80; (Guiana), b 222, a 224, b 225; (Himalaya), b 743; (Jamaica), XIII, a 559; (Japan), a 584; (Java), a 613; (Kansas), b 852; (Kentucky), XIV, a b 45; (Larch), a b 310, b 311, a b 312; (Memel), XV, b 853-4; (Nebraska), XVII, a 318; (Nevada), b 376; (New Hampshire), b 400; (New Mexico), b 411; (New Zealand), a b 482; (North Carolina), a b 574; (Ohio), *b* 756-7; (Olonetz), a b 786; (Oregon), b 845, b 847-8; (Paraguay),XVIII, b 248; (Pennsylvania), a 513; (Pine), XIX, a 112, *a b* 113, *a b* 114; (Quebec), XX, b 175; (Shipbuilding), XXI, a 857; (Teak), XXIII, a b 111; introduction of (Architecture), II, a 335; stability of (Building), IV, b 400-1, a 404, b 405-6, b 407, *a* 408; structures in Harbors and Docks (Plate VIII), XI, a 414. See Lumber
—— culture act (Homestead), XII, b 126, a 127
—— hitch (Seamanship) (Ill.), XXI, *b* 618
Timbering (Mining) (Ill.), XVI, b 469, a 471
Timbre (Acoustics), I, b 100, *b* 110-1; (Ear), VII, b 512
Timbrel, musical instrument (Drum), VII, a 414
Timbú, Indians (Argentine Republic), II, *b* 430
TIMBUKTU, Timbuctoo or Jennie, city and country, XXIII, a b 418; (Africa), I, b 242; (Caillie), IV, a b 570; (Soudan), XXII, b 290, *a* b 292
Timbuctoo, poem (Thackeray), XXIII, b 232
TIME, MEASUREMENT OF, XXIII, b 418-23
  ancient astronomers, a b 419
  astronomical character of the process, b 418-9
  chronometer transportation, b 421-2
  equal altitudes, b 419-20
TIME, MEASUREMENT OF, *continued*
  literature, a 423
  longitude, b 420-3
  moon culminations, b 421
  sidereal time, a b 420
  signals, b 421
  telegraphic determination, a 422-3
—— (Astronomy), II, a 675; (Etruria), VIII, b 559; (Hamilton, Sir W.), XI, a 373, a 374; (Herbart), a 643; (Hume, D.), XII, a *b* 366-7; (Kant), XIII, b 861-2; (Magnetism), XV, a 276; (Map), a 523; (Ptolemy), XX, a b 94; algebraic science of (Quaternions), b 168; consciousness (Psychology), b 68-71; determination of (Geodesy), X, a 149; (Navigation), XVII, a b 276, a b 278, a b 281-2; (Surveying), XXII, b 749; discrete impressions of (Psychology), XX, a 71; judgments (Psychology), b 85-6; measurement of (Dialling), VII, a 133-4; (Dynamics), b 502-3, a b 504; (Mechanics), XV, b 708; relations (Psychology), XX, a b 61; sidereal (Geography), X, a *b* 177
——, Geological, X, a b 202, b 288-9
——, organ of (Phrenology), XVIII, a 860
Time-keepers (Mechanics), XV, b 781; (Navigation), XVII, b 265-6
Timeliidæ, family(Warbler), XXIV, *a* 387, b 388; (Wren), b 724
Time Lock, Yale, XIV, a 758
—— in Music (Metronome), XVI, b 206
Timesithens, statesman (Calpurnius), IV, a 631
Times, London (Newspapers), XVII, a b 428-9, a 431, a b 883; (Reporting), XX, a 417, a 418; type setting of (Typography), XXIII, a b 746, a 747, b 757
——, *New York* (Newspapers), XVII, a b 446
Timocharis of Alexandria (Astronomy), II, a 654
Timocrates, Speech Against (Demosthenes), VII, a 61
TIMOLEON, general, XXIII, a 423-4; (Carthage), V, a 141; (Gelon), X, a 121; (Greece), XI, *a* 94; (Numismatics), XVII, a 655; (Sicily), XXII, b 24-5; (Syracuse), XXII, b 855
Timon (Lucian), XV, a 47
TIMON of Athens, misanthrope, XXIII, a 424
—— *of Athens*, play (Shakespeare), XXI, a 778, *b* 800, b 805
TIMON of Phlius, philosopher, XXIII, a 424; (Scepticism), XXI, b 396
Timoneda, Juan, poet (Drama), VII, b 363
TIMOR, island, XXIII, a b 424; (Birds), III, b 641; (Indian Archipelago),XII, a *b* 855, note, *a b* 856, b 857, a 858

TIMOR LAUT, island group, XXIII, b 424-5
—— of Nalbritz, pasha (Smith), XXII, b 184
Timosthenes, geographer (Ptolemy), XX, a 101
TIMOTHEUS, general, XXIII, a b 425; (Persia), XVIII, a 590
—— of Campania, governor (Januarius), XIII, *b* 577
TIMOTHEUS, poet, XXIII, b 425
TIMOTHY or Timotheus, bishop, XXIII, b 425; (Corinthians), VI, a b 355; (Pastoral Epistles), XVIII, b 353, b 354; (Paul), a b 430, b 431
—— of Hazza, catholicus (Syriac Literature), XXII, a b 883, b 891
—— II. of Irbil, catholicus (Syriac Literature), XXII, b 901
Timothy, St., mosaic (Glass), X, a 596
TIMROD, Henry, poet, XXIII, a 942
Timsah, lake (Canal), IV, b 698, a 699; (Ismailia), XIII, *a* 398
Timucua Indians, XII, *a* 865, a 868
TIMUR BEY, TIMUR LANG, or TAMERLANE, conqueror, XXIII, b 425-7; (Afghânistân), I, b 214; (Asia), II, b 611, a 612; (Damascus), VI, b 697; (Egypt), VII, *a* 657; (Georgia, Kingdom), X, b 388; (Ghúr), b 509; (Greece), XI, b 107; (Gunpowder), b 283; (Háfiz), a b 328; (Hindustani), a 750; (Hindustani Literature), a 756; (Ispahan), XIII, a 406; (Kafiristan), b 830; (Mongols), XVI, b 773-5; (Persia), XVIII, a 643, a 645; (Samarkand), XXI, b 258, a *b* 259; invasion of (India), XII, b 832; *History of* (Petis de la Croix), XVIII, a 717
Timur Khan, Mongolian chief. See Toghon Timur Khan
Timuride and Túrkman dynasties (Herat), XI, a 639; (Persia), XVIII, a 643-5; (Shi'ites), XXII, a 698
Timur Sháh (Afghânistân), I, a 215, a 219; (Peshawar), XVIII, a 698
TIN, metal, XXIII, a 427-9
  analysis, a b 429
  compounds, b 428-9
  earliest use of, a 427
  industrial uses, a b 428
  ores, a b 427
  properties of, a 428
  reduction of metal, b 427-8

—— (Alloy), I, *b* 517, a 518; (Australia), III, a 95; (Banca), a 266; (Bronze), IV, a *b* 330, a b 331; (Burmah, British), b 500; (California), b 622; (Chemistry), V, b 466-7; (China), a 557; (Cornwall), VI, a *b* 377; (Devonshire), VII, b 121; (England), VIII, *b* 201, a b 207; (Gold), X, b 668; (India), XII, b 804; (Ireland), XIII, b 224; (Lead), XIV, b 378; (Malay Peninsula), XV, a 324; (Metal-Work), XVI, b 78; (Mexico), a b 908; (Mineralogy), a 397, b 402-3, a 409; (Mining), b 472, b 487, a b 489, b 490, b 491, a 493-4; (Mirror), b 523; (New South Wales), XVII, *b* 419; (Phœnicia), XVIII, a b 819; (Poland), XIX, b 319, b 322; (Queensland), XX, a b 179; (Tasmania), XXIII, b 79, a 80; (United States), a 869; action of light on (Photography), XVIII, a 853; coins (Money), XVI, b 749
Tinajas (Pottery and Porcelain), XIX, b 648
Tinamotis, genus (Tinamou), XXIII, a 430
TINAMOU, bird, XXIII, b 429-30; (Birds), III, a 610
Tinamus, genus (Birds), III, a 616, note, b 621, a 626, *b* 644, *b* 674
Tin-ash (Tin), XXIII, a 429
Tinavelly. See TINNEVELLI
Tin-bounding (Toll), XXIII, a 465
Tincal, mineral (Borax), IV, a 45; (Mineralogy), XVI, a 413
Tinchebrai, battle of, 1106 (England), VIII, a b 271
Tinctor, Jan, musician (Music), XVII, b 89, b 90; (Palestrina), XVIII, a 184
Tinctures (Alcohol), I, b 415
—— in Heraldry (Ill.), XI, b 615-6
TINDAL, Matthew, deist, XXIII, b 430-1; (Budgell), IV, b 392-3; (Butler), b 519-20, b 521; (Deism), VII, a 31, b 32
——, Sir Nicholas Conyngham, judge (Chelmsford), V, b 396
Tindall, philologist (Hottentots), XII, b 325, a 326
Tinder, German (Matches), XV, b 631
—— ore (Mineralogy), XVI, b 404
Tin-drifts (Topaz), XXIII, a 475
Tinea, skin-disease (Parasitism), XVIII, b 274; (Skin Diseases), XXII, a 132; (Veterinary Science), XXIV, b 223
—— granella, insect (Wheat), XXIV, a 566
Tineidæ, family (Insects), XIII, a 158
Tineina, group (Butterflies and Moths) (Plate XXXI), IV, a b 531
Tin enamel (Pottery and Porcelain), XIX, a 650
—— foil (Tin), XXIII, a 428
Ting-hai, city (China), V, b 552; (Chusan), b 670, a 671
Tingis, town (Tangiers), XXIII, a 51
Tings, Chinese pavilions (Architecture), II, b 392
Tingvalla, island (Carlstad), V, a 100
Tin islands (Britannia), IV, a 318; (Cornwall), VI, a 378; (Pytheas), XX, a 150
Tinkal, mineral. See Tincal
Tinkers (Bunyan), IV, b 470
Tinkler, appellation (Gipsies), X, a 546, a 550
Tin mordants (Dyeing), VII, b 495-6, *b* 500
TINNÉ, Alexandrine, traveller, XXIII, a b 431
Tinnehs, people. See Tinney
TINNEVELLI, district, XXIII, b 431-2; (India), XII, b 784, a 785; (Missions), XVI, a 541; fisheries (Pearl), XVIII, b 457; town, XXIII, a 432
Tinney family (Indians), XII, a b 867; (Mythology), XVII, b 163
Tinning (Tin), XXIII, a b 428
Tinnunculus, genus (Kestrel), XIV, b 55-6
Tinódi, poet (Hungary), XII, a 391
Tinodon, fossil (Zoology), XXIV, a 925
Tinoporina, family (Protozoa) (Ill.), XIX, a 871
Tin plates (Iron), XIII, b 327, a b 367; (Patents), XVIII, b 881
—— salts (Silk), XXII, b 70
Tinstone (Tin), XXIII, a b 427, a 429
Tinta Wine, XXIV, b 641, a 642
Tintern Abbey (Monmouth), XVI, b 781
Tintern Abbey, poem (Wordsworth), XXIV, b 708
Tintinnus, genus (Protozoa), XIX, a 885, a 888
Tinto or Black river (Honduras), XII, b 133
——, river (Huelva), XII, b 347, a 348
Tintoretto, painter. See ROBUSTI
Tiphsah. See Thapsacus
Tippecanoe, battle of, 1811 (La Fayette), XIV, b 201; (Tecumseh), XXIII, b 929; (United States), a 808
TIPPERAH, district, XXIII, a 432; (Hill Tipperah), XI, b 732-3
TIPPERARY, county, XXIII, b 432-3; town, b 433
TIPPOO SAHIB, sultan, XXIII, b 433; (Bednor), III, b 417; (Calicut), IV, a 615; (Hyder Ali), XII, a b 443; (Hyderabad), b 444; (India), b 842, a *b* 843; (Libraries), XIV, a 533; (Numismatics), XVII, b 679-80; (Wellesley), XXIV, a 520
Tipsy Key (Watch), XXIV, b 419
Tiptoft, earl of Worcester (England), VIII, b 296, a 297; (Ireland), XIII, b 267
TIPTON, town, XXIII, b 433
Tipuani gold washings (Bolivia), IV, b 13
Tipula oleracea, insect (Wheat) (Ill.), XXIV, b 565
TIRABOSCHI, Girolamo, historian, XXIII, b 433-4
Tirano, town (Valtellina), XXIV, *b* 51
Tirant lo Blanche (Romance), XX, b 675
Tiraqueau, André, jurist (Rabelais), XX, *b* 200, a 201
Tirapatúr, town (Salem), XXI, b 220
Tirauri, battle of, 1191 (Hindustani Literature), XI, b 753
Tiravalur temple (Architecture) (Ill.), II, b 347
Tirazia, suburb (Belgrade), III, a 459
Tir Conaill, principality (Ireland), XIII, b 251
Tiree, island (Marble), XV, b 536
Tir Eogan, principality (Ireland), XIII, b 251
Tirer, French verb (Drawing), VII, b 385
Tires, breadth of (Roads and Streets), XX, a 599; rolling (Iron), XIII, a 338; rubber traction (Steam-Engine), XXII, b 549
TIRESIAS, seer, XXIII, a b 434
TIRHUT or Tirhoot, district, XXIII, b 434; (Muzaffarpur), XVII, b 121
Tiribazus, satrap (Antalcidas), II, a 89; (Persia), XVIII, a b 589, a 590
Tirich Mir, mountain (Hindú Kúsh), XI, a 748
Tiridates, king (Armenia), II, a 480; (Gregory, Illuminator), XI, a 160
——, king of Parthia (Nero), XVII, b 359; (Persia), XVIII, a 600, notes. See Arsaces
—— II., king, Parthia (Persia), XVIII, b 609, a 611
—— III., king of Parthia (Persia), XVIII, a 612
TIRLEMONT, town, XXIII, b 434
Tiro, M. Tullius, freedman (Palæography), XVIII, b 168, a 169, b 170
Tirso de Molina, dramatist. See TELLEZ, Gabriel
Tirsuli Gandak, basin (Tibet), XXIII, a 362
Tir Tairngire's land (Celtic Literature), V, a *b* 282
Tīrthankaras, prophets (Jains), XIII, a b 553
Tirumala Náyak, emperor (Madura), XV, *a* 194
Tirupatur, town (Salem), XXI, b 220
Tiruvalluvan, poet (Tamils), XXIII, b 48
TIRYNS, city (Plan), XXIII, b 434-6; (Archæology), II, *b* 302; (Architecture) (Ill.), b 352; (Mycenæ), XVII, a 122; (Selinus), XXI, b 665
Tisbe (Sweden), XXII, b 792
Tisbury, town (Wilts), XXIV, *b* 625, b 626
TISCHENDORF, Lobegott Friedrich Konstantin von, Biblical critic, XXIII, a 436-7; (Acts of the Apostles), I, a 119; (Apocalyptic Literature), II, b 155, a 156, *b* 157, *a* 158; (Apocrypha), a 162; (Apostolic Fathers), a 173; (Bible), III, b 560; (Thecla), XXIII, a 250
Tisias, philosopher (Rhetoric), XX, b 523; (Sophists), XXII, a 278, b 280
——, poet. See Stesichorus
Tisicrates, sculptor (Archæology), II, a 319
TISIO or TISI, Benvenuto, painter, XXIII, a 437

- *Tis Pity She's a Whore*, tragedy (Ford, J.), IX, a b 347–8
- Tissandier, G. (Aëronautics), I, b 180, a 187
- Tissaphernes, satrap (Alcibiades), I, b 414; (Persia), XVIII. a 587–9; (Xenophon), XXIV, *b* 756
- Tisserand, François Felix, astronomer (Parallax), XVIII, a b 251
- Tissot, Simon André, physician (Morgagni), XVI, b 848
- Tissue (Morphology), XVI, a b 867; Bichat's doctrine (Physiology), XIX, a 16; nature of, a 20
- ——, animal (Gelatin), X, a b 117 (Histology), XII, a 6–12; (Mollusca), XVI, a b 656; adipose (Pathology), XVIII, b 397; capillary action in (Vascular System), XXIV, b 115; connective, in cancer (Pathology) (Ill.), XVIII, a b 389, a b 390, a 391; connective in inflammations (Pathology), a b 408, a 409, a 410; cornea (Anatomy), I, b 778; metabolism in (Nutrition), XVII, a b 698, a 699–701; reversion in (Pathology), XVIII, b 367–8. See Texture
- ——, fabric (Textiles), XXIII, a 228
- ——, vegetable (Histology), XII, a 16-21; annular (Botany) (Ill.), IV, *b* 75; cellular (Botany) (Ill.), a 74; glandular (Botany) (Ill.), b 76; phleboidal (Botany), b 76; pitted (Botany) (Ill.), b 76; primary (Botany), a 82; reticulated (Botany) (Ill.), *b* 75; spiral (Botany) (Ill.) (Plate XVI) *b* 75; vascular (Botany), a 75–6
- —— paper (Gold and Silver Lace), X, a 671
- Tistá, river (Dárjíling), VI, b 727; (Jálpáiguri), XIII, a 558
- ——, river (Norway), XVII, b 589
- Tisza, Kolomon von, statesman (Hungary), XII, a 389
- Titan, moon (Telescopic Work), XXIII, a 936; (Tides), b 405
- Titania, fairy (Oberon), XVII, a 724
- Titanic acid (Blowpipe), III, a 729; (Mineralogy), XVI, a 366, b 394, b 402
- —— oxide (Iron), XIII, b 295; (Mineralogy), XVI, b 401
- Titaniferous ore (Iron), XIII, b 292, b 293, a 303, b 345; pig Iron, XIII, a b 361
- TITANIUM, chemical element, XXIII, a 437–8; (Chemistry), V, b 466–7; (Wöhler), XXIV, b 660
- Titano, Monte (San Marino), XXI, b 279
- Titanomorphite (Mineralogy), XVI, a 445
- TITANS, mythical beings, XXIII, a 438; (Giant), X, b 510; war of the (Briareus), IV, b 247
- Tite, Sir William, architect (London), XIV, a *b* 851, note, *a* 852
- Tithe commutation act (Agriculture), I, a 271, a b 368; (England), VIII, b 327
- TITHES, XXIII, a 438–40
  - commutation acts, b 439–40
  - English law, a 439–40
  - Ireland, b 440
  - mediæval, a 439
  - Scotland, b 440
  - Semitic customs, a 438–9
- —— (Agistment), I, a 253; (Agriculture), b 266; (Curate), (Arundel), II, a 586; VI, b 626; (Mohammedanism), XVI, b 611; collecting (Barri), III, a 339; resumption of (Scotland), XXI, a b 533
- *Tithes, History of* (Selden), XXI, b 662
- Tithe war (Ireland), XIII, a 277
- Tithings, communities (Valais), XXIV, *b* 37
- TITHONUS, myth, XXIII, b 440–1
- TITIAN or Tiziano Vecellio, painter, XXIII, a 441–4
  - authorities, b 444
  - birthplace and training, a b 441
  - family relations, b 443
  - financial condition, a b 442
  - last days, b 442
  - personal qualities, b 442–3
  - portraits, b 444
  - technical criticism, a b 443
  - Venetian and imperial patronage period, b 441–2
  - works of, b 443–4
- —— (Bellini), III, a *b* 472; (Cort), VI, a 390; (Giorgione), X, *b* 542; (Moroni), XVI, b 862; (Painting), XVIII, a b 143; (Peruzzi), b 696; (Robusti), XX, *b* 624; (Schools of Painting), XXI, b 466, a *b* 467; (Van Dyck), XXIV, b 67, a 68
- Titi Bansa, range (Malay Peninsula), XV, b 323
- Titicaca, lake (Andes), II, *a* 17; (Bolivia), IV, b 11–2, a 14, b 16; (Grebe), XI, b 72; (Lake), XIV, b 217, *a* 218; (Peru), XVIII, b 685, a 686
- Tities, tribe (Rome), XX, a 751, note
- Titinius, dramatist (Drama), VII, a 356
- Titius, law of (Astronomy), II, a 705
- Titlark, bird (Pipit), XIX, *b* 121
- Title (Coal), VI, a 73; (Landlord and Tenant), XIV, b 274; (Notice), XVII, b 611; (Real Estate), XX, a 320; (Registration), *a* b 355–6; (Sale), XXI, b 216, a 217, a b 219. See Land Tenures
- ——, book-(Copyright), VI, a 320, b 324
- ——, ecclesiastical, English (Roman Catholic Church), XX, a 648; parochial, b 644
- TITLES OF HONOR, XXIII, b 444–6; (Abbreviation), I, a b 33; (China), V, a 567; (Duke), VII, a 449; (Gipsies), X, a 547 note; (Italy), XIII, b 477; (Navy), XVII, a 307; (Nobility), b 538, a 543; (Peerage), XVIII, a b 478; (Precedence), XIX, b 685
- *Titles of Honor* (Selden), XXI, a b 662
- Titlis, mountain (Unterwalden), XXIII, a 915
- TITMOUSE, bird, XXIII, b 446–7; (Birds), III, b 654–5, a 657, a 660, a b 664, note, b 668, *a* 669; (Galls), X, b 42; (Kinglet), XIV, b 84–5
- Titterie, province (Algeria), I, b 497, a 500
- *Titurel*, poem (Wolfram von Eschenbach), XXIV, a b 666
- TITUS, bishop, XXIII, a 448; (Corinthians), VI, b 355, a 356; (Crete), b 504; (Pastoral Epistles), XVIII, b 353, a 355; (Paul), b 431, a 432
- TITUS Flavius Sabinus Vespasianus, Roman emperor, XXIII, a 447–8; (Amphitheatre), I, b 679, a 680; (Israel), XIII, b 437–8; (Vespasian), XXIV, *a* 208
- —— of Bostra, polemic (Syriac Literature), XXII, *a* 871
- *Titus Andronicus*, play (Shakespeare), XXI, a 791, a *b* 799, b 805
- Titus Tatius, king, Sabines (Romulus), XX, b 862
- TITUSVILLE, city, XXIII, a b 448; (Natural Gas), XVIII, a 895; (Petroleum), b 726, a b 889
- Tiumen, city. See TYUMEN
- Tiupriia, town (Servia), XXI, *a* 719
- Tiupullo, mountains (Ecuador), VII, b 558–9
- TIVERTON, borough, XXIII, b 448
- TIVOLI, town, XXIII, b 448–9; revolt of (Rome), XX, b 809, a 811, a 812
- Tixtla, town (Guerrero), XI, a 220
- Tiyâri, district (Nestorians), XVII, a 366, a 367
- Tiziano or Tizianello, painter. See TITIAN
- ——, Girolamo di, painter, XXIII, b 443
- ——, Marco di, painter, XXIII, b 443
- Tjempi bay (Sumbawa), XXII, *a* 675
- Tjeribon, town. See CHERIBON
- Tjilatjap, town, (Java), XIII, b 617
- Tjitjalengka, town (Java), XIII, b 616
- Tkvibula coal (Transcaucasia), XXIII, a 547
- Tlacatecolotl, deity (Mexico), XVI, b 219
- Tlachtga, town (Ireland), XIII, b 250, and note
- Tlalocs, deities (Mexico), XVI, a 220
- TLAXCALA or Tlascala, city, XXIII, a b 449; (Cortes), VI, *a* 391; (Mexico), XVI, *a* 218, a 223, a 225, b 899, b 901
- Tlazolteotl, goddess (Mexico), XVI, b 219
- TLEMCEN or Tilimsán, town, XXIII, a b 449-50; province (Algeria), I, b 497, b 500
- Tleps, god (Circassia), V, b 688
- Tloquenahuaque, deity (Mexico), XVI, b 219
- Tmesis (Homer), XII, a 117
- Tmetotrogon, genus (Trogon), XXIII, b 621
- Tmolus, mountain (Asia Minor), II, a 617
- Tnephachthos or Tafnekht, king (Egypt), VII, a b 643
- Tnoohs or Tanuchs, clan (Druses), VII, *b* 419
- TOAD, animal, XXIII, a 450; (Amphibia), I, a 658, a b 668; (Reptiles), XX, b 446, note; Surinam (Tortoise), XXIII, a 489
- ——, flax plant (Horticulture), XII, a 259
- *To Althæa from Prison* (Lovelace), XV, b 30
- Toba, lake (Sumatra), XXII, *a* 674
- TOBACCO, plant (Ill.), XXIII, a 451–5
  - botany (Ill.), b 451
  - chemistry, b 452–3
  - cigars, a b 454
  - commerce, b 453, b 455
  - cultivation, b 451–2
  - curing, b 452
  - fiscal regulations, a 455
  - history of plant, a b 451
  - literature, b 455
  - manufactures of, b 453–5
  - physiology, a b 455
  - snuff, b 454–5
- —— (Adulteration), I, a 158; (Arabia), II, b 219, a 228; (Austria), III, b 103, b 105; (Botany) (Ill.), IV, a 114, b 120; (Brazil), a 204; (Burmah, British), a 500; (Canada), *b* 685; (China), V, a b 555; (Contraband), VI, a 285; (Cuba), a b 602; (Egypt), VII, b 628; (Fiume), IX, *b* 238; (France), a 459, a 465; (Germany), X, b 405; (Gibraltar), *b* 522; (Glasgow), a b 570; (Havana), XI, *a* 469; (Hungary), XII, b 377; (India), a 788, a 789, a 796, b 811; (Italy), XIII, b 463–4; (Jamaica), b 559; (Java), b 614; (Latakia), XIV, a b 323; (Louisville), XV, a b 25; (Lynchburg), b 105; (Menin), XVI, b 14; (New Guinea), XVII, a 397; (North Carolina), *b* 574; (Ophthalmology), b 806; (Paraguay), XVIII, b 248; (Pennsylvania), a 514; (Philippine Islands), b 764; (Prussia), XX, a 18, b 19; (Turkey), XXIII, b 696 note; (United States), b 878, a 880; (West Indies), XXIV, a 538, *a* 540; Manchu leaf (Kirin), XIV, a b 98; mountain (Arnica), II, a 545
- —— duty (Finance), IX, b 161, a 166; penalty (Russia), XXI, b 112

Tobacco-Pipes, XIX, b 119-20; (Meerschaum), XV, b 834
TOBAGO, island, XXIII, b 455-6; (Picton), XIX, a 90
Tobba-dynasty (Arabia), II, a 223
Tobercurry, town (Sligo), XXII, a b 169
Tobermorite (Mineralogy), XVI, a 439
Tobermory, village (Mull), XVII, b 22
Tobias, hero (Tobit), XXIII, a 456
——, family of (Israel), XIII, b 430, a 431
Tobin air tube (Ventilation) (Ill.), XXIV, a 173
TOBIT, *Book of*, XXIII, a b 456; (Apocrypha), II, *b* 159, b 160; (Asmodeus), a 624; (Midrash), XVI, a 299 note
Tobol, river (Perm), XVIII, b 560; (Tobolsk), XXIII, b 457
TOBOLSK, government, XXIII, b 456-8; (Russia), XXI, b 76, a 87; (Siberia), XXII, a 6, *b* 14, a 15, *a* 16; town, XXIII, a b 458; (Siberia), XXII, *a* 11, a *b* 16
Toby, machine (Calico-Printing), IV, a 607
Tocantins, river (Brazil), IV, b 199, *b* 200, a 204, *b* 215
Toccia or Tosa, river (Italy), XIII, a 445
Tocco, family (Ionian Islands), XIII, a 212
Toccus, genus (Hornbill), XII, *a* 173
Tochari, people (Persia), XVIII, b 603, a 605, a 611, a b 614, a b 617
Tocornaclite (Mineralogy), XVI, a 400
TOCQUEVILLE, Alexis Henri Charles Chérel, comte de, publicist, XXIII, b 458-9; (America), I, a 629; (American Literature), b 631, a 642
Tocussa, grain (Abyssinia), I, b 62
Tod, James, orientalist (India), XII, b 828, b 830 notes, b 851
Todas, tribe (Madras), XV, b 186; (Nilgiri), XVII, *a* 522
TODD, Charles Scott, minister to Russia, XXIII, b 942
——, Daniel Peck, astronomer (Parallax), XVIII, a 256; (Telescopic Work), XXIII, b 933 note. See List of Contributors
——, James Henthorne, archæologist (Ireland), XIII, a 257
TODD, John, pioneer, XXIII, b 942
TODD, John, preacher, XXIII, a 942; (Pittsfield), XIX, a 162
TODD, John Blair Smith, general, XXIII, b 942
TODD, Thomas, jurist, XXIII, b 942
Toddy, liquor (Arrack), II, b 549
Tode, Johan Clemens, medical writer (Denmark), VII, a 80
Todeschini. See Pope PIUS III.
Todhunter, Isaac, mathematician (Legendre), XIV, *b* 414; (Probability), XIX, b 789, b 790, a 792, a 793, b 794, b 799
Tōdi, mountain (Glarus), X, b 566
Todidæ, family (Birds), III, a 645, b 649, b 650
TODLEBEN or TOTLEBEN, Edward Ivanovitch, general, XXIII, a b 459; (Russia), XXI, a 110
TODMORDEN, town, XXIII, b 459-60
Todos los Santos, lake (Chili), V, b 535
Tod's density tables (Hydrometer), XII, 574
Todt, R., divine (Socialism), XXII, a 227
Todte Gebirge, mountain (Salzkammergut), XXI, a 253
Todus, genus (Birds), III, b 650; (Tody), XXIII, a 460, note
TODY, bird (Ill.), XXIII, a b 460; (Motmot), XVII, *b* 9
Toepffer, Rodolphe, novelist (Geneva), X, a 133
Toes (Anatomy), I, a 728, b 738; (Cochin China), VI, b 87-8, a 89; (Mammalia) (Ill.), XV, a b 363; (Trogon), XXIII, b 620. See Hallux
Toft, Thomas and Ralph, potters (Pottery and Porcelain), XIX, b 651
Tofua, island (Friendly Islands), IX, a 684
Toga, garment (Costume) (Ill.), VI, *a b* 403, a 404; (Gabii), X, a 4
Togarmah, hero (Gomer), X, a 685
Togata, Comedia (Drama), VII, b 355, a 356
Toggenburg, counts of (Grisons), XI, b 182; (St. Gall), XXI, b 177, b 188
——, Frederick, count of (Switzerland), XXII, *b* 824
Toghon Khan (Mongols), XVI, a 772
—— Timur Khan, ruler (Kublai Khan), XIV, b 152; (Mongols), XVI, b 769-70
Toghrai, poet (Arabia), II, a 231
Toghrul Beg, sultan (Merv), XVI, a 49; (Mohammedanism), b 610; (Seljuks), XXI, a *b* 666
—— ben Arsian, sultan (Seljuks), XXI, b 667
Togo, lagoon, XXIII, b 460; town, b 460
TOGO-LAND, XXIII, b 460
Toguz-Davan mountains (Tibet), XXIII, a 363
Tohoroth (Mishnah), XVI, a 529
Toilet. See Hair-dressing
—— Soaps, XXII, b 215; powders (Perfumery), XVIII, b 537
Toilé work (Lace) (Ill.), XIV, a b 186, b 189
Toise, measure (Earth), VII, a 524
Tôkaidô, circuit (Japan), XIII, a b 579, b 585, b 589
TOKAT, town, XXIII, b 460
TOKAY or Tokaj, town, XXIII, b 460-1; district (Nyiregyháza), XVII, a 707
—— wine (Hungary), XII, b 377; (Wines), XXIV, a 643
To Keang, river (China), V, b 554
Token (Hawthorne), XI, a 480
Tokenhouse Yard (London), XIV, b 841
Token money (Money), XVI, b 756, a 759 note; (Numismatics), XVII, b 674
Tokewanna, mountain (United States), XXIII, a 847
Tokharistan or Tukhara, province (Afghânistân), I, b 218-9
TOKIO, city (Map), XXIII, a 461-2; (Japan), XIII, b 579, *a b* 583, *b* 585, *a* b 586, *a* 587, a *b* 589, b 592, b 593, a 598; (Libraries), XIV, b 533, a 552; (Tong-King), XXIII, b 467
—— bay (Yokohama), XXIV, a b 782
Tokrooris tribe (Galabat), X, b 16
Toktamish, khan (Mongols), XVI, b 773, a b 774; (Moscow), a 887; tribe (Merv), a 48
Toktu khan (Mongols), XVI, *a* 773
Tokugawa, dynasty (Japan), XIII, 590, *b* 591, b 592-3
Tol, school (Nadiyá), XVII, a 168
Tola-lá, town (Tibet), XXIII, b 363
TOLAND, John, deist, XXIII, a 462-3; (Deism), VII, a 32; (Druidism), a b 413, a 414
Toldi, trilogy (Hungary), XII, b 393
Toldoth Jeshu (Jesus Christ), XIII, b 669
TOLEDO, Ohio, city, XXIII, b 464
TOLEDO, city, Spain, XXIII, b 463-4; (Spain), XXII, *a* 343; council of, 400 (Concubinage), VI, a 217; council of, 589 (Creeds), b 496. See Council of Toledo; Saracen massacre in 807 (Spain), XXII, b 325, a 327
TOLEDO, province, XXIII, b 463; (Spain), XXII, b 312, b 314, b 316, b 318
——, Montes de, XXIII, b 463; (Spain), XXII, b 308
——, Don Francisco de, viceroy (Peru), XVIII, a 691
——, Juan Baptista de, architect (Escorial), VIII, a *b* 477
Toleration (Akbar), I, b 385; (Baptists), III, a 306; (Baxter), *a* 394; (Bengel), b 493; (England), VIII, a b 315; (Europe), b 631-2; (Geddes), X, a b 114; (Germany), a b 449; (Grotius), XI, b 194; (Independents), XII, a 764, note, a b 765, a b 766-7; (Joseph II.), XIII, b 760; (Luther), XV, b 81-2; (Maryland), a 611; (Milton, John), XVI, b 342-3; (Palermo), XVIII, a 174; (Pascal), b 339; (Penn), a 503, a b 504, b 505, b 506; (Persia), a b 621, a 622. a b 623, b 624, a 625; (Plato), XIX, a 222; (Presbyterianism), b 704, b 709, a b 710; (Prussia), XX, a 12, b 13, b 14-5; (Quakers), *b* 155-6; (Roman Catholic Church), b 647; (Taylor), XXIII, a 101; (Turgot), b 668; (Trent, Council of), b 580, a b 581, a 582; (Turkestan), XXIII, b 680; pagan Roman (Christianity), V, 602-3; Saracenic (Spain), XXII, b 324, b 332. See Religious Tests and TEST ACTS
Toleration, Letters on (Locke), XIV, a *b* 760, b 761, b 762-3
Tolfa stone (Alum), I, a b 567, a 568
Toliekona, empress (China), V, b 562
Tolima, mountain (Colombia), VI, b 137
——, state (Colombia), VI, b 138, a 139
Toli Monastir, town. See MONASTIR
Tolistobogii, tribe (Galatia), X, a b 18, a 19
TOLL, XXIII, b 464-5; (Agriculture), I, a 266, b 269; (Fair), VIII, b 743; (Harbors and Docks), XI, b 421-2; (Highways), b 724, b 725; Navigation, XVII, a 287; (Elbe), VII, b 717. See Sound dues
—— and Theam, right (Cinque Ports), V, b 687
Tollendal, Thomas Arthur, Baron de. See LALLY, Count de
Tollens, Hendrik, poet (Holland), XII, a 101
Tollin, H., biographer (Servetus), XXI, *a* 718
Tolly, general. See BARCLAY DE TOLLY
Tolo or Tomaiki bay (Celebes), V, *b* 249, a 250
——, mountain (Jilolo), XIII, b 703
Toloccan, town. See TOLUCA
Tolosa, town (Guipuycoa), XI, a 235
——, town (Toulouse), XXIII, b 516
——, Juan de, miner (Zacatecas), XXIV, b 799
Tolstoï, Alexis, dramatist (Russia), XXI, a 116, b 117
——, Léon or Lyof, novelist (Russia), XXI, a 116
Toltec race (America), I, a 603, a b 607, a 610, a 611, a b 619; (Mexico), XVI, a b 216, a 217; (Yucatan), XXIV, *b* 797
Tolts, hills (Newfoundland), XVII, b 391
Tolu, gum. See Balsam of Tolu
TOLUCA or Toloccan, city, XXIII, a 465
Toluene (Chemistry), V, 486, a 487, b 490; (Sainte-Claire Deville), XXI, a 174; (Sugar), XXII, a 656; (Tar), XXIII, a 65
Toluidines (Chemistry), V, b 499, a 500; (Coal Tar Colors), XVIII, b 901, a 902, a 904
Toluol (Coal Tar Colors), XVIII, b 901, a 902; (Tar), XXIII, a 65
Tolypeutes, genus (Mammalia), XV, b 390

Tom, mining cradle (Gold), X, b 663
——, Mount (Massachusetts), XV, a 618
——, river (Tomsk), XXIII, a 467
Toma, lake (Rhine), XX, a 533
Tomahoe, peak (Buru), IV, b 510
Tomaiki bay. See Tolo
Tomal tribe (Somali), XXII, a 269
Tomar, ring or chain (Ireland), XIII, a 259
Tomara, dynasty (Delhi), VII, a 43
Tomas of Strängnäs, bishop, poet (Sweden), XXII, a 792
Tomassi's hydraulic balance system (Lifts), XIV, b 578-9
Tomato, vegetable (Horticulture), XII, a 301; (Mexico), XVI, b 221; (Potato), XIX, b 613
Tomb of Ahmed Shah (Kandahar), XIII, b 845
—— of Ali (Meshed Ali), XVI, b 51, note; (Mesopotamia), b 56
—— of Alyattes (Archæology), II, b 303-4; (Architecture), b 351; (Lydia), XV, a 100, a 102
—— of Augustine, St. (Pavia), XVIII, b 449
—— of Benedict XI. (Pisano) (Ill.), XIX, a 132
—— of Beni Hassen (Architecture), II, *a* b 340, b 342, a 343; (Egypt), VII, b 636, a 672; (Glass), X, a 577; (Plate), XIX, b 189
—— of Benozzo Federighi (Robbia), XX, a 605
—— of Brago (Orvieto), XVIII, b 57
—— of Can Signorio, Verona (Architecture), II, b 399
—— Christian lady, Algeria (Architecture), II, a 356 note
—— of Cyrus, VI, b 664; (Architecture), II, b 350; (Persia), XVIII, a 579
—— of Darius, VI, a 727; (Persepolis), XVIII, a 570
—— of Forteguerra (Pistoia), XIX, a 141, note
—— of Galla Placidia (Mosaic), XVI, b 879
—— of Guido (Agostino), I, b 254
——, Harcourt (Pigalle), XIX, a 93
—— of Henry VIII., England (Architecture), II, a 382; (Metal-Work) (Ill.), XVI, b 82; (Torrigiano), XXIII, a 482
—— of Hermias, Cyprus (Glass), X, a 578 note
—— of Hosi (Wood-Carving), XXIV, a 679
—— of Husain Sháh (Gaur), X, a 104
—— of Julius II. (Michel Angelo), XVI, b 239, a 241, a 242, a 243
—— of Kásim Mahmúd (Ghazni), X, a b 501, *a* 502
—— of Mayud-ud-din (Ajmír), I, b 384
—— of the Medici (Michel Angelo), XVI, a b 242
—— of Mohammed (Medina), XV, b 827, a 828
—— of Nahum, XVII, *a* 172
—— of Napoleon I. (Paris), XVIII, a b 288
—— of Rameses III. (Plate), XIX, b 189
—— of Riza (Meshed), XVI, a 51, note
—— of Sanjar (Merv), XVI, b 47
—— of Sardanapalus (Architecture), II, a 349
—— of Shah Jehan. See Taj Mahal
—— of Súfí (Persia), XVIII, b 645
—— of Zobeide (Baghdad), III, b 199
Tombigbee river (Alabama), I, b 388
Tombo, tribe (Soudan), XXII, a 292
Tom Bowling, song (Dibdin), VII, b 148, a 149
Tombs (Babylonia), III, a 164; (Barrows), b 342-3; (Bijapur), a 579; (Cære), IV, b 561; (Corneto), VI, a 375; (Cyrene), b 662; (Delhi), VII, b 42; (Druses), a b 419; (Hamadan), XI, b 358; (Herat), a b 638; (Hyderabad), XII, b 446; (Jewellery), XIII, a b 686, a 687; (Kashi), XIV, a 11; (Kertch), a 55; (Lahore), b 213, b 214, *a b* 215, b 216; (Metal-Work), XVI, a 81, b 82-3; (Mino di Giovanni), b 500; (Monreale), b 786; (Palmyra), XVIII, b 204; (Paris), b 281, b 293; (Perugia), b 693, a 694; (Phœnicia), b 823; (Phrygia), b 864, b 865; (Poitiers), XIX, b 293; (Pompeii), a 465; (Pontus), a 474; (Sculpture) (Ill.), XXI, b 584, a b 585, note, *a b* 586, *a* 587, b 589, *b* 593, *a* 595, a 596; (Terra-Cotta) (Ill.), XXIII, b 207, note, a 208-9, b 210, b 212; (Venice), XXIV, a 166, a 169, notes; (Verona), b 186-7; (Verrocchio), a b 190
——, Chinese (Architecture), II, b 393
——, Egyptian, VII, b 613, b 616, b 617, b 621, b 622, a *b* 623, a b 635, a 639, b 668, a 670, a 674, a b 677-8, a 679; (Architecture) (Ill.), II, b 339-40; (Costume), VI, a b 406; (Mural Decoration), XVII, a b 40; (Pyramid), XX, b 128-30; (Tunnelling), XXIII, b 662
——, Etruscan, VIII, *a* b 558, a 559, a b 560, a 566; (Architecture), II, a b 363; (Glass), X, b 577; (Mural Decoration), XVII, a b 46
——, giants' (Sardinia), XXI, b 324
——, Grecian (Architecture) (Ill.), II, a 361-2; (Lydia), XV, a 100. See Mausoleum
—— Jewish (Architecture), II, b 344-5
——, Lycian, XV, b 95; (Architecture) (Ill.), II, b 350, a b 361
——, Magna Græcia (Mural Decoration) (Ill.), XVII, b 42-3
——, Mughal or Mogul (India), XII, *a* b 834
—— of the Caliphs (Cairo), IV, a 573; (Mosque), XVI, a 893
—— of patriarchs (Hebron), XI, a 543
—— Peruvian (Archæology), II, b 297; (Architecture) (Ill.), b 395-6
—— of the queens (Egypt), VII, b 677-8
——, rock-cut (Archæology), II, b 303; (Architecture) (Ill.), a 340, a 345, b 351, a 352, a b 361; (Catacombs) (Ill.), V, a 188-9; (Persepolis), XVIII, a 570, a 571
——, Roman, XX, a 830 note, a 852; (Architecture), II, a b 367
——, royal (Escorial), VIII, b 477; (Golconda), X, a 659; (St. Denis), XXI, b 169-70; (Windsor), XXIV, a b 633
——, Saracenic (Architecture), II, *b* 390
——, sculptured (Rome), XX, b 857-8; (Rossellino), b 879
——, Tanagra (Terra-Cotta) (Ill.), XXIII, b 207, note, a 208-9, note, *b* 212
Tombs, the, prison (New York), XVII, a b 896
Tombstones, American Civil War (Sand-Blast), XXI, b 269 note; Greek (Inscriptions), XIII, b 127, note
Tombuku, district (Celebes), V, a 251
Tomek, Vaclaff Vladivoj, historian (Slavs), XXII, b 162
Tomi, town (Kustendje), XIV, b 162; (Ovid), XVIII, a 84
Tomich, Pere, historian (Spain), XXII, a 378
Tomicus typographicus, species (Coleoptera), VI, a 121
Tomie, mountains (Kerry), XIV, b 52, b 54
Tomillares, districts (Spain), XXII, a 311
Tomin, weight (Humming-Bird), XII, a 371
Tomini or Gorontals bay (Celebes), V, b 249, b 251
Tom Jones, novel (English Literature), VIII, b 383; (Fielding, H.), IX, a*b* 128; (Government), XI, a 16
Tomline, George, bishop (Pitt), XIX, a 144, note, a 145, a 158
Tomline's Observatory, XVII, b 731
Tomlinson, Charles, author (Capillary Action), V, a 57
Tommaseo, Nicolò, critic (Catherine of Siena), V, a 201, *b* 202
Tommasi, Giugurta, historian (Siena), XXII, a 49
Tommaso di San Giovanni, painter. See MASACCIO
Tomme, -measure (Weights and Measures), XXIV, a 518
"Tommyshops" (Labor), XIV, a 173
Tomopteris, worm (Reproduction) (Ill.), XX, a 421, a 426
Tomore or Tomaiki, district (Celebes), V, a 251
Tömösch, pass (Cronstadt), VI, b 537
TOMPA, Mihály or Michael, poet, XXIII, b 465; (Hungary), XII, b 393
TOMPKINS, Daniel D., vice-president, XXIII, b 942
——, Daniel D., 2d, quartermaster, XXIII, b 942
TOMSK, city, XXIII, b 467; (Siberia), XXII, *a* 11, b 16
TOMSK, government, XXIII, b 465-7; (Siberia), XXII, a 6, a *b* 9, *b* 14, *a* 16; (Russia), XXI, b 76, a 87
Tomson, Lawrence, translator (Chertsey), V, b 509
"Tom Thumb" (Dwarf), VII, b 490-1
Tom-tom or Tam-tam (Drum), VII, a 414
Tomus, document (Papyrus), XVIII, b 237
Tonale, pass (Alps), I, b 551, *a* 552
Tonbridge, town. See TUNBRIDGE
Tõnde, weight (Denmark), VII, a 72; (Weights and Measures), XXIV, a 518
Tondini, plaques (Pottery and Porcelain) (Ill.), XIX, b 646, *a* 647
Tone, Theobald Wolfe, patriot (Ireland), XIII, a 277
—— in coloring (Constable), VI, a 264
——, language (China), V, b 569-70, a 571; (Cochin China), VI, a 88; (Siam), XXI, *a* 895; (Philology), XVIII, b 792
——, musical (Pianoforte), XIX, *a* 73, b 74
Tone-blocks, production of (Typography), XXIII, a 750
Tonégawa, river (Japan), XIII, *b* 581, a 582, a 584, b 585
Tonga Dictionary, VII, b 167
——, island (Caste), V, a 163, (Friendly Islands), IX, *a b* 684-5; (Polynesia), XIX, b 437, *a* b 442; (Taboo); XXIII, a 20, a b 21
Tongans, people (Fiji Islands), IX, *b* 138, a 139
Tongariro, mountain (New Zealand), XVII, a 479
Tonga-tabu, island (Polynesia), XIX, b 442
TONG-KING or Tonquin, province, XXIII, b 467-70
    Chinese records, b 468-9
    French conquests, a 469-70
    geography, b 467-8
    minerals, b 468
    political features, a b 468
—— (Cochin China), VI, b 85-6, a b 87, a b 88, a 89; (Mongols), XVI, a 769. See Song Coi
Tongres, town (Limburg), XIV, a 652
Tongue (Amphibia), I, b 668*; (Anatomy), a 724, b 786-7; (Ape), II, a 145; (Arachnida), b 256; (Chameleon), V, *b* 331; (Giraffe), X, *b* 552; (Horse), XII, a b 183; (House-Fly), b 330; (Humming-Bird), a 372; (Ichthyology), a 691;

Tongue, *continued* (Lion), XIV, a 687; (Mammalia), XV, a b 364; (Nutrition), XVII, *a* 689; (Snakes), XXII, a 201, *a* 209; (Taste) (Ill.), XXIII, b 85, a 86; bloodvessels of (Anatomy), I, b 794; cancer of (Pathology), XVIII, a b 390; cornified (Skeleton), XXII, a 116; development of (Vertebrata), XXIV, a 197; nerves of (Anatomy), I, a b 774, a 775
—— evil, disease (Murrain), XVII, b 64
—— grafting (Horticulture) (Ill.), XII, a 242
——, Kyle of, bay (Sutherland), XXII, b 763, a 764
Tonguing (Horticulture), (Ill.), XII, a 241
Tonic, medicinal (Gentian), X, b 143, a 144
—— action (Psychology), XX, b 48
—— sol-fa (Music), XVII, a b 107
To Night, sonnet (White), XXIV, a 581
Toning processes (Photography), XVIII, a b 843
Tonite (Gun-Cotton), XI, a 246
Tonka bean. See Tonqua Bean
Tonkoko, mountain (Celebes), V, b 251
Tonks's shelf-fittings (Libraries), XIV, a 537
Tonle-sap, lake (Siam), XXI, a 890, a 891
TONNAGE, of ships, XXIII, b 470–2; of British marine (Navy), XVII, a b 299, note
TONNAGE and POUNDAGE, duties, XXIII, a 472; (Finance), IX, a b 156, b 157
Tonnay-Charente, town (Rochefort), XX, a 628
TONQUA or TONQUIN BEAN, XXIII, a 472; (Bean), III, a 398
Tonquin, province. See Tong-King
Tons, river (Sirmúr), XXII, *b* 105
Tonsillitis (Throat Diseases), XXIII, b 341
Tonsils (Anatomy), I, a 735; (Digestive Organs) (Ill.), VII, b 192–3; (Nutrition), XVII, b 688; diseases of (Throat Diseases), XXIII, b 341
Tonson, Jacob, publisher (Rymer), XXI, *b* 127, a b 128
Tonstall, Cuthbert, bishop (English Bible), VIII, a 344; (Gilpin, B.), X, *a* 537
TONSURE, ceremony of, XXIII, a b 472; (Celtic Literature), V, a b 263, a 264
Tonti, Lorenzo, banker (Lotteries), XV, b 12–3; (Tontine), XXIII, b 472
TONTINE, life insurance, XXIII, b 472–3; (Finance), IX, b 158; (Lotteries), XV, b 12–3; (Insurance), XIII, a 190; (National Debt), XVII, b 250
Tonto Apaches, tribes (Indians), XII, a 867
Tontoli, district (Celebes), V, *a* 252
Tonus peregrinus (Plain Song), XIX, a 180
TOOKE, John Horne, politician, XXIII, a 473–4; (England), VIII, a 324; (Junius), XIII, a b 785; (Surrey), XXII, a 730; (Thurlow), XXIII, a b 354
——, Thomas, publicist (Finance), IX, b 164, b 165; (Political Economy), XIX, a 411
Too-le, brother of Ogdai Khan (China), V, a 562
Tooloon, Benee, dynasty (Egypt), VII, a 650; Mosque of. See Mosque, Touloun
Too-loo-tsze Hoo, lake (China), V, b 550
Tools, bricklayer's (Building), IV, a 409; carpenter's (Building), b 426; early use of (Ethnography), VIII, a b 542; edge (Hand Tools) (Ill.), XI, b 390-3; gardening (Horticulture) (Ill.), XII, a 239–40; glazier's (Building), IV, b 455; Hand (Ill.), XI, a 390-3; joiner's (Building), IV, b 434; Machine, XV, a 153–8; mason's (Building), IV, a 419; Mining (Ill.), XVI, a b 464; painter's (Building), IV, a 457; plasterer's (Building), a b 451; plumber's (Building), b 449; slater's (Building), a 448; tempering (Iron), XIII, a 363; turner's (Lathe) (Ill.), XIV, a b 325
Tool steel (Iron), XIII, b 350, *a* 362
Toomán Bey, sultan (Egypt), VII, b 657-8
TOOMBS, Robert, senator, XXIII, b 942–3; (Wade), XXIV, a 879
Toomkoor, district. See Tumkur
Toon-gyeeṅ river (Siam), XXI, *a* 890
Toorán-Sháh, sultan (Egypt), VII, a b 655
Toorgai, district. See Turgai
Toosoon, pasha (Egypt), VII, *a* b 663
Tooth. See Teeth
Tooth coast (Ivory Coast), XIII, a 535
Toothed wheels (Mechanics), XV, b 765–9
Toothpicks (Feathers), IX, a 54; (Funeral Rites), b 724
Tooth powders and pastes (Perfumery), XVIII, b 537
Tooting, village (London), XIV, 831, b 833
Toov Tang, ancestral halls (Architecture), II, a 393
Toowomba, town (Queensland), XX, a b 178
Top-and-butt strakes (Shipbuilding) (Ill.), XXI, b 857–8
TOPAZ, gem, XXIII, b 474–5; (Cairngorm), IV, a 572; (Geissler), X, b 116; (Mineralogy) (Ill.), XVI, a 367, a 374, a 389, b 390–1, a 393, a 394, a 401, a 405, a 426
Topazion, gem (Peridote), XVIII, a 545
Topazolite, mineral (Garnet), X, *a* 74
Top-blocks (Seamanship), XXI, a 622, note
Top dressing (Horticulture), XII, a 239
Tope, fish (Shark), XXI, a 811
TOPEKA, city, XXIII, a 475; (Kansas), XIII, *a* b 853
Topelius, Zakris, poet (Sweden), XXII, b 796
Topes, Buddhist (Architecture) (Ill.), II, a b 345; (Punjab), XX, a b 116
Töpffer, Rudolph, novelist (Switzerland), XXII, a 838
Top-gallant rigging (Seamanship), XXI, a b 625
Tophet, ravine (Moloch), XVI, b 722, note
Tophi or chalk stones (Gout), XI, b 7
Topics of Aristotle, II, a b 453, *a* 454
Topics (Rhetoric), XX, b 525, a 526
Toplady, Augustus Montague, poet (Hymns), XII, a b 629
Töpler's pump (Mercurial Air-Pump), XVI, b 35
Topley, W., geologist (India), XII, a 776
Töplitz, town. See TEPLITZ
Top-masts, setting of (Seamanship), XXI, b 624–5
Topo, river, (Ecuador), VII, b 560
Topographical drawing (Surveying), XXII, a 746–8; Maps, XV, a b 527, b 529–30
Topography, influence of (Scotland), XXI, a 550
"Topping" in cultivating Tobacco, XXIII, a 452
Töppler's method (Optics), XVII, b 828–9
Tops, getting up (Seamanship), XXI, b 623–4
Topsails, setting and taking in (Seamanship), XXI, b 629-30
Toradja, district (Celebes), V, a 252
Torah or *Law* (Israel), XIII, a b 408, b 409, b 417, b 419, b 428, a b 429 note, a 430, b 431; (Jeremiah), *b* 637, b 638; origin of (Pentateuch), XVIII, b 523–4
Tor'án, plain (Palestine), XVIII, b 175
Torano, village (Carrara), V, a 118
Torazzo, tower (Cremona), VI, a 502
Torbanite (Mineralogy), XVI, a 448
Torbay, harbor (Torquay), XXIII, b 480, a 481
Torc lake (Killarney), XIV, a 78
TORCELLO, island, XXIII, a b 475; cathedral (Basilica) (Ill.), III, b 360–1
Torch (Lamp), XIV, a 248, a 249
Torchon Lace, XIV, a 190
Torch thistle (Cactus), IV, a 556
Torcular Herophili (Anatomy), I, a b 759
Tordelbach, king (Ireland), XIII, b 260
Torell, Otto, geologist (Spitzbergen), XXII, *b* 425
——, William, goldsmith (Sculpture) (Ill.), XXI, a 585
Torfæus, Thormod, antiquary (Iceland), XII, b 662–3
TORGAU, town, XXIII, b 475–6; battle of, 1760 (Austria), III, b 112
Torghatten, island (Norway), XVII, b 590
Torghud, Turkish admiral. See Dragut
Torgoch, fish (Salmonidæ), XXI, a 234
Torgod, tribe (Mongols), XVI, b 771–2, a b 776
Toribio, Alfonso Mongrovejo, St., archbishop (Peru), XVIII, b 688 note, b 689
Tories (Ireland), XIII, b 273, a 274. See Tory Party
Torigny marble (St. Lô), XXI, b 191
Torii, archways (Japan), XIII, b 590
Torillas, mountain (Balearic Islands), III, a 239
Torjok, town. See TORSHOK
Torkel Knutsson, statesman (Sweden), XXII, b 784
Tormes, river (Salamanca), XXI, a 213; (Spain), XXII, b 308, a 309
Tornadoes (Meteorology), XVI, a b 134, a b 135, a b 136, a 137, b 155; (Navigation), XVII, a 284; (United States), XXIII, a b 858–9
Torna Eigeas, poet (Celtic Literature), V, b 267
Tornatella, genus (Mollusca) (Ill.), XVI, a b 679
Tornatellidæ, family (Mollusca), XVI, b 679
Tornea, Elf or river (Finland), IX, b 188; (Sweden), XXII, a 774
——, town (Haparanda), XI, a 405
Tornöe, chemist (Sea Water), XXI, a 641 note, a b 642, a 645
Toro, city (Zamora), XXIV, a 805
—— mountain (Balearic Islands), III, a 240
Torola river (San Salvador), XXI, a 281
Toron or Tibnîn, fortress (Galilee), X, a 27
TORONTO, city (Plan), XXIII, a 476–7; (Canada), IV, 680–1, *a* 688, b 689, a 690; (Libraries), XIV, b 552; Observatory (Meteorology), XVI, b 168, 172, b 176–7, b 178–9, b 180–2, a 186; University, XXIII, a 913
Toropets, district and town (Pskoff), XX, a b 40, a 41
Torpedinidæ, fishes (Ichthyology), XII, a 716, a 724
TORPEDO, explosive (Ill.), XXIII, b 477–80
    boats and nets, a 480
    locomotive torpedoes (Ill.), a 479–80
    mines (Ill.), a 478–9
    submarine mines, b 477–8
—— (Accumulator), I, b 87; (Navy), XVII, a 293, b 294; in oil-wells (Petroleum), XVIII, a b 893
—— fish (Electricity), VIII, b 4–5, a 9; (Ichthyology), XII, *a* 687, a 717, a 724; (Ray) (Ill.), XX, a b 312; (Touch), XXIII, b 508
—— boats, boilers for (Steam-Engine), XXII, a 522, a 523; (Steam-Engine), a 539, b 540, a 547

Torphichen, town (Linlithgow), XIV, b 676, a 677
Torquatella (Protozoa) (Ill.), XIX, a 885, b 887
Torquatus, Roman general. See Manlius
TORQUAY, watering-place (Map), XXIII, b 480-1; Cave, V, a 231, b 232
TORQUEMADA, Juan de, cardinal, XXIII, a 481
TORQUEMADA, Tomas de, inquisitor, XXIII, a 481; (Ferdinand V.), IX, a 72; (Innocent VIII.), XIII, a 92; (Inquisition), a b 100; (Torture), XXIII, b 492-3
——, historian (India-Rubber), XII, a 876
Torques, bracelet (Costume), VI, a 412
Torr, C., archæologist (Rhodes), XX, b 541
Torre, Giovanni Maria di, physicist (Microscope), XVI, a 269
——, della, cape (New Guinea), XVII, a 396
—— abbey (Torquay), XXIII, b 480, a 481
TORRE ANNUNZIATA, town, XXIII, a 481
TORRE DEL GRECO, town, XXIII, a 481; (Geology), X, a 220, a 221, a b 222
—— di Milo (Cassano), V, a 159
—— d'Orlando (Gaeta), X, a 14
Torrens, lake and river (South Australia), XXII, b 297
——, Robert, publicist (Political Economy), XIX, b 390, a 392, a 394
Torrens, Les (Guyon), XI, a 306
Torrent duck, bird (Merganser), XVI, b 40
Torres, Luis Vaez de, explorer (Australia), III, a 90; (Geography), X, a 166
—— straits (New Guinea), XVII, a *b* 396, a 398, b 399; (Queensland), XX, b 177, *a* b 181
Torresano, Andre, printer (Manutius), XV, b 520
Torres Vedras, mountains (Estremadura), VIII, b 497; lines of (Fortification), IX, b 380-1; (France), b 542-3; (Wellington), XXIV, *b* 523
Torretto, sculptor (Canova), V, a 23
TORREY, Charles Turner, abolitionist, XXIII, a 943
TORREY, John, botanist, XXIII, b 481; (New York), XVII, a 464; (Surveys), XXII, b 935, *a* 936
TORREY, Joseph, educator, XXIII, a 943
——, Mary Ida, author, XXIII, a 943
Torriani, family (Milan), XVI, a 305
TORRICELLI, Evangelista, physicist, XXIII, b 481-2; (Alchemy), I, b 406; (Barometer), III, a 329; (Hydromechanics), XII, b 451-2, a 482; (Pneumatics), XIX, *a* 253, a 254; his theorem (Hydromechanics), XII, a 452, a 465
Torricellian vacuum (Electricity), VIII, b 5
Torridon sandstone (Scotland), XXI, a 543
Torrid Zone (Geography), X, a 178
TORRIGIANO, Pietro, sculptor, XXIII, a b 482; (Sculpture), XXI, b 586, b 593
Torrijos, Jose Maria, general (Malaga), XV, b 318
Torrington, George Byng, viscount (Byng, George), IV, a 537
Torrismondo (Italy), XIII, a 520
Torrysany, Peter, artist (Torrigiano), XXIII, b 482
Tors (Devonshire), VII, b 120, b 122
Torses, developables (Surface), XXII, *b* 702-4, b 706
TORSHOK or Torjok, town, XXIII, b 482; (Tver), a 715
Torsion (Constitution of Bodies), VI, a 278; (Elasticity) (Ill.), VII, *b* 692-3, a b 694, b 702-4, a 705; (Magnetism), XV, a b 272, a b 273; correction of (Galvanometer), X, b 48
—— Balance, III, b 296; (Electricity) (Ill.), VIII, b 9, b 17-8, b 19, *a* b 21; (Magnetism), XV, b 238; (Michell), XVI, a 246
—— of shafts (Strength of Materials) (Ill.), XXII, b 637-8
—— of visceral hump (Mollusca) (Ill.), XVI, a 667-8, b 671-2, b 678-9, b 690
—— of wire (Mechanics), XV, a 751-2
TORT, civil wrong, XXIII, b 482-4; (Brehon Law), IV, a 227; (Costs), VI, a 400; (Criminal Law), a 520; (Damages), a 695; liability from (Partnership), XVIII, b 336
Tortilla, cake (Maize), XV, b 312
TORTOISE, reptile (Ill.), XXIII, a 484-9
  Chelydridæ, a 486, b 487
  classification, b 485-6
  general characters, b 484-5
  life history, a b 485
  marine turtles (Ill.), b 487-9
  names, a b 484
  sphargidæ, b 485, b 486
  testudinata, b 485, a b 486-7
  trionychoidea (Ill.), b 486, a 489
—— (Galapagos Islands), X, b 17; (Hibernation), XI, b 704; (Mauritius), XV, b 647; (Reptiles), XX, b 446, note, b 453, b 457, b 458, a b 459, b 461-2, a b 465, b 468, a b 469, b 471, *a b* 478, b 479, b 481; limbs of (Skeleton), XXII, a 125, a 126; manus of (Mammalia) (Ill.), XV, a 362; axial Skeleton of, XXII, b 118, a *b* 119
—— plant or Testudinaria (Botany), IV, b 84, 86, b 92
TORTOISE-SHELL, XXIII, a b 489; (Comb), VI, a 160; (Skeleton), XXII, b 116
TORTONA, town, XXIII, b 489
TORTOSA, city, XXIII, b 489-90
Tortricidæ, family (Insects), XIII, a 158
——, family (Snakes), XXII, b 202
Tortricina, group (Butterflies and Moths) (Plate XXXI), IV, a 531
Tortrix pilleriana, insect (Vine), XXIV, b 256
Tortuga, island (Buccaneers), IV, *b* 367; (Hayti), XI, b 485, b 486
Tortugas, islands (Florida), IX, a 296
Tortuosity (Mechanics), XV, *b* 686
TORTURE, judicial, XXIII, a 490-6
  British colonies, b 495
  Church, b 492-3
  Continental Europe, b 495-6
  England, b 493-5
  Greece, a 491
  Inquisition, Spanish, b 492-3
  Ireland, b 495
  opinions of jurists, b 490-1
  peine forte et dure, b 494
  purpose of, a b 490
  Roman law, a 491-2
  Scotland, a b 495
  United States, b 495
  works of reference, b 496
—— (Burmah), IV, a b 494; (Cenci), V, b 289-90; (China), a b 581; (Corea), VI, b 348; (England), VIII, b 296; (Rhetoric), XX, a b 526; (Scotland), XXI, a *b* 538, a 539; (Sunday), XXII, a 689; (Witchcraft), XXIV, a b 655, *a* b 656; classical (Slavery), XXII, a 139, b 142
Torus, moulding (Architecture) (Plates VII, XIII), II, a 343, a b 358, b 366, a 418
Tory, island (Donegal), VII, a 313; (Ireland), XIII, a 249
—— party (Bolingbroke), IV, b 6-8; (Derby), VII, a 96; (England), VIII, b 313-4, a b 316-7, b 320, b 321, b 325, b 327; (Finance), IX, a 165; (George I.), X, *a* 379; (George III.), a 381; (Hume), XII, a b 363; (Ireland), XIII, b 273; (Mansfield), XV, b 506; (Whig and Tory), XXIV, a *b* 570, a 571
Tosaphoth (Tam), XXIII, b 44-5
Toscanelli, Paolo, cosmographer (Columbus), VI, a 154
Toscolano, town (Gardia), X, b 68
Tosephto (Mishnah), XVI, b 529-30
Tosorthros, king (Egypt), VII, b 634
Tostig, earl (England), VIII, a b 262; (Harold II.), XI, *b* 434, *a* b 435; (Harold III., Norway), b 433-4; (Northumberland), XVII, a 585
Tota, Atot, Athothis, king (Egypt), VII, a 634
—— of Navarre, queen (Spain), XXII, a 328
Totā Kahāni (Hindustani Literature), XI, a 757, a 758
Total abstinence (Mathew), XV, b 638; (Temperance Societies), XXIII, b 174-5
Totaninæ, group of birds (Sandpiper), XXI, *b* 272, note, *a* 273
Totanus, genus (Greenshank), XI, *a* 155; (Red Shank), XX, a b 330
Totapelakanda, mount (Ceylon), V, a 312
Totara, tree (Forests), IX, b 358
TOTEMISM, religion, XXIII, b 496-506
  American phratries, b 502
  assimilation to totem, a b 499
  Australian phratries, b 502-3
  blood feud, b 501-2
  ceremonies at life periods, b 499-501
  clan totem, b 496-7, b 498-9
  dead totem, a 498, b 500
  definition, b 496
  descent, rules of, b 503-5
  diffusion of, a 505-6
  exogamy, a 502-3
  individual totems, a b 501
  initiation ceremonies, a b 500
  literature, a 506
  man's relation to totem, a 497-9
  penalties of disrespect, a b 498
  phratries, a 502-5
  sex totems, a 501
  sub-totems, a 505
—— (Caste), V, b 163; (Ethnography), VIII, b 547; (Family), IX, b 19, a *b* 20; (Lycanthropy), XV, a 92-3; (M'Lennan), b 163; (Mythology), XVII, b 151, b 157; (Names), b 175, a 176; (Sacrifice), XXI, b 143-4, a b 145; (Troglodytes), XXIII, b 620
Toth, Coloman, poet (Hungary), XII, b 393
——, Edward, dramatist (Hungary), XII, a 394
Totila or Baduila, king, Goths (Justinian I.), XIII, b 806; (Narses), XVII, *b* 239
Totleben, general. See TODLEBEN
Toto, duke of Nepi (Rome), XX, b 803
Totonacs, tribe (America), I, b 618
Tott, François, baron de, soldier (Canal), IV, a b 697
Tottel's Miscellany (Surrey), XXII, a b 731
Totten, George Muirson, engineer (Panamá), XVIII, b 213
TOTTEN, Joseph Gilbert, engineer, XXIII, a b 943; (Geology), X, b 235
TOTTENHAM or Tottenham High Cross, suburb, XXIII, a b 506
TOUCAN, bird, XXIII, b 506-7; (Birds), III, a 618, b 619, *b* 627, a 645
TOUCH, sense (Ill.), XXIII, a 508-13
  absolute sensitiveness, a b 511
  comparative anatomy (Ill.), a 508-9
  end-organs, man's, b 509-10

TOUCH, *continued*
  information from touch, b 511-2
  invertebrates, a b 508
  mammalia, a b 509
  man, b 509–13
  muscular sense, b 513
  nature of, a 508
  pain, a b 513
  physiology, b 510–1
  temperature sensations, b 512-3
  theories, a b 512
  vertebrates, b 508-9

—— (Anatomy), I, b 788; (Ant), II, b 85; (Crustacea), VI, b 562; (Ichthyology), XII, a b 691; (Mammalia), XV, b 369, b 411; (Nemertines), XVII, a 338, a 339; (Psychology), XX, b 55-6
Touching and turning (Swimming), XXII, b 808
Touch of minerals (Mineralogy), XVI, b 394
"Touchstone" (Horse), XII, a 188, *a* 189, a 190
Toucouleurs, tribe (Senegambia), XXI, *a* 695
Toughened glass (Glass), X, a b 595
Toughening brittle gold, X, b 667-8
TOUL, town, XXIII, b 513-4; (Meurthe-et-Moselle), XVI, *b* 212, a 213; bishopric (Germany), X, a 448, b 449
TOULMIN, Harry, judge, XXIII, b 934
Toulmon, Bottee de, musician (Cherubini), V, a 511
TOULON, city (Sketch), XXIII, a 514–5; (France), IX, b 535; (Hood), XII, a 150; (Plague), XIX, b 176; siege of (Napoleon), XVII, b 201
TOULOUSE, city (Plan), XXIII, a 515–7; (Abbey), I, a 27; (Academy), a 68; (Filter), IX, a 149; (Garonne), X, *a* 75; (Observatory), XVII, a b 732; University, XXIII, a 894; (Montaigne), XVI, a 794; (Veterinary Science), XXIV, b 214
——, Council of (Inquisition), XIII, b 98, a 99
——, county of (Finance), IX, a 154
——, kingdom (Goths), X, a *b* 755; (Jourdain), XIII, a 765; war of (À Becket), I, a b 36; (Languedoc), XIV, *b* 287, *a b* 288
——, Louis Alexandre de Bourbon, comte de, bastard (Louis-Philippe), XV, a 21
TOUNG-NGU, district and town, XXIII, b 517
Toungya, cultivation (Burmah, British), IV, a 500
Toupii Emendationes in Suidam (Porson), XIX, a 538, a 540
Tour, Cagnard de la, his syren (Acoustics), I, a 102
TOUR, Maurice Quentin de la, artist, XXIII, b 517–8
TOURACO, bird (Ill.), XXIII, a 518-9
Tourane, town (Cochin China), VI, a 86, a 89
Tourbillon (Pyrotechny), XX, b 141, b 142
Tourbillion escapements (Watch), XXIV, a 419
TOURCOING, town, XXIII, a 519; (Nord), XVII, *b* 548
Tour de Marboré, mountain (France), IX, b 445
Tour de Nesle (Paris), XVIII, b 295
Tour du Trone, refuge (Saumur), XXI, b 337
TOURGUENIEFF, Ivan Sergevitch, novelist, XXIII, a b 519; (Russia), XXI, a b 116, b 118
Tourinho, Pedro de Campo, navigator (Brazil), IV, b 205
Tour in Ireland (Young), XXIV, a b 793
Tour-la-ville, town (Glass), X, a 583
Tourmagne, A., historian (Slavery), XXII, b 153
Tour Magne, tower (Nîmes), XVII, b 523
Tourmaline, mineral (Electricity), VIII, b 4, *b* 8, *a* 9, a 93; (Geology), X, a 203; (Granite), XI, a 44: (Haüy), b 467; (Mineralogy) (Ill.), XVI, a b 367, *b* 383, b 387, b 389, *a* b 390, *a* b 391, b 392, b 426; (Polarity) (Ill.), XIX, b 324-5; (Radiation), XX, a 223; (Wave Theory), XXIV, b 475
TOURNAI, town, XXIII, b 519–20; battle of, 1745 (Saxe), XXI, a 362
TOURNAMENTS, XXIII, a b 520; (Eglinton), VII, a 606; (Heraldry), XI, b 610
Tournay, town. See TOURNAI
TOURNEBOUT, musical instrument (Ill.), XXIII, b 520-1
TOURNEFORT, Joseph Pitton de, botanist, XXIII, b 521; (Botany), IV, a b 70; (Jussieu), XIII, b 797
Tournehem, Le Normant de, banker (Pompadour), XIX, a 458
TOURNEUR, Cyril, poet, XXIII, b 521–2
Tourniquet, Electric, VIII, a 60
——, invention of (Surgery), XXII, b 710
TOURO, Judah, philanthropist, XXIII, b 943–4
—— park (Newport, R. I.), XVII, *a* 417
TOURS, city (Plan), XXIII, a 522-3; battle of, 732 (Charles Martel), V, b 370; Council of (Inquisition), XIII, b 98
Tourville, Anne Hilarion de Costentin, admiral (France), IX, b 510, *a* 511
Tous-les-mois or Tulema Arrowroot, II, a 552
Tousoon Beg, general (Arabia), II, *b* 228; (Egypt), VII, a b 663
Toussaint (Murrain), XVII, b 65
TOUSSAINT LOUVERTURE, Pierre Dominique, liberator, XXIII, a b 523; (Hayti), XI, *a* 487; (Slavery), XXII, a 149
Toutin, Jean, inventor (Enamel), VIII, a 169
Touyou, bird (Rhea), XX, b 519 note
Touzla, river (Troad), XXIII, a b 615, a 617
Tovi or Tofi, Danish thane (Waltham Abbey), XXIV, *b* 360, a 361
Tow, fibre (Flax), IX, a b 260; (Linen), XIV, a 671, a b 672
—— or Great Bear city (Wan-Chow-Fu), XXIV, b 363
Tower, Clifford's (York), XXIV, b 787
—— creek (Yellowstone Park), XXIV, b 773
—— Grove Park (St. Louis), XXI, *b* 193
—— Hamlets, borough (London), XIV, b 829, a b 830
—— Hill (London), XIV, b 832, a b 841, a 851; (Mint) (Ill.), XVI, a 505, a 508 *sq.*
—— liquor (Copper), VI, a 311
—— of Babel, III, a 155
—— Comares (Alhambra), I, *b* 503
—— Hercules (Corunna), VI, a b 392
—— of London, XIV, b 829, a b 849, a 850, *a b* 854, a b 856, a 857, b 858, *b* 859; (Flambard), IX, *a* 246; (Mint), XVI, b 503, a 505
—— Pisa, XIX, a 131; (Architecture), II, b 418; (Round Towers), XXI, a 28
—— of Silence (Parsis), XVIII, a b 332
—— Solidor (St. Servan), XXI, a 207
——, Stone, Pamir (Ptolemy), XX, b 98
—— of the winds, Athens (Andronicus), II, b 22; (Architecture), a 357; (Athens), III, a 9, a 52; (Dialling), VII, b 132
—— of Vesunna (Périgueux), XVIII, a 545
—— pound of 5400 grains (Weights and Measures), XXIV, a 515, a 517
Towers (Architecture), II, a 418; (Bell), III, a 464; (Clackmannan), V, a b 697; (Constantinople), VI, *b* 270 note, a *b* 271, *b* 273; (Copenhagen), VI, a 306
——, construction of (Lighthouse) (Plate VII) (Ill.), XIV, a 620-2
——, Jain (Architecture), II, b 347
——, Leaning (Bologna), IV, b 18; (Bridgenorth), b 253; (Bristol), a 317; (Campanile), a 666; (Zaragoza), XXIV, b 808. See Tower of Pisa
——, multangular (York), XXIV, b 787
TOWERS, ROUND, Ireland, XXI, b 27-8; (Abernethy), I, a 49; (Brechin), IV, b 217; (Celtic Literature), V, a 264; (Kerry), XIV, a b 54; (Kildare), a 75; (Kilkenny), a b 77; (Meath), XV, b 675
——, scaffolding for (Building), IV, a 419
——, watch- (Arabia), II, a 219; (Ghent), X, a 503
Tower's spherical engine (Steam-Engine), XXII, b 542
Toweyk mountains (Arabia), II, b 208, a *b* 209, a 212, b 221
Towing Torpedo, XXIII, a 480
Town and Country Mouse (Halifax, Earl), XI, b 344, a 345
—— and Gown (Oxford), XVIII, b 102
—— Hall (Birmingham), III, b 680; (Leeds), XIV, b 409; (Liverpool), b 719-20; (Louvain), XV, a 28; (Manchester), a 468; (Nimeguen), XVII, a 523
Townley, Captain, pirate (Buccaneers), IV, b 368, a 369
—— marbles (Ellis), VIII, b 139
Townley Plays (Drama), VII, b 358–9
Town-meeting (Boston), IV, a 66
—— -moots (Parliament), XVIII, a b 308
—— organization, mediæval (Guild), XI, a 231, a 232; (Poland), XIX, b 323
—— representatives (Parliament), XVIII, b 310, a 312, b 313, b 314
—— reservation (Homestead), XII, *a* b 127
Towns (Arabia), II, b 218–9; (Climate), VI, a 7; (Filter), IX, b 146, a 149; (France), a 476; atmosphere of (Geology), X, *a* 197, note; Brandenburg, rise of (Prussia), XX, b 7, *a* 8, a 9, b 11; concentration in (Prussia), XX, b 20–1; defence of (Fortification) (Ill.), IX, a b 384; English, population of, VIII, a b 200; rise of, b 249–50; Fulah (Sokoto), XXII, b 261-2; German, rise of (Germany), X, a b 433; Roman (Municipality), XVII, b 34. See Cities, Municipality, Township
Townsend, Joseph, divine (Political Economy), XIX, a b 385
——, M., inventor (Hosiery), XII, b 313
TOWNSHEND, Charles, politician, XXIII, b 524-5; (Chatham), V, a 384; (George I.), X, *a* 379; (Pitt), XIX, *a* b 150; (United States), XXIII, a 785, a 786; (Walpole), XXIV, a *b* 356
TOWNSHEND, Charles Townshend, 2d viscount, XXIII, b 523-4
Township, old English (Parish), XVIII, b 301
—— organization (United States), XXIII, b 778-9, a b 882, a 883
Town suburbs (Commons), VI, a b 187, a 188
Tow-path (Canal), IV, b 693
Towson's tables (Navigation), XVII, *a* 277
Towton, battle of, 1461 (Edward IV.), VII, a 497; (Warwick), XXIV, b 402; (York), b 786
Towy river (Carmarthen), V, b 101, a 102

Toxandria, town (Salic Law), XXI, a b 223
Toxic agents (Insanity), XIII, a 109, b 115; diseases (Pathology), XVIII, a 417
Toxicologie Générale, Traité de (Orfila), XVII, a 852
Toxicology (Hunter, J.), XII, a 402; (Medicine), XV, b 806; (Molybdenum), XVI, b 723; (Poisons), XIX, b 287-91
Toxodon, fossil (Mammalia), XV, a 375, a b 432
Toxoglossa (Mollusca), XVI, b 663, a 673
Toxophilite Society (Archery), II, a 325, b 328
Toxophilus (Ascham), II, b 592, a 593
Toynbee, Arnold, economist (Political Economy), XIX, b 412
Toys (Nuremberg), XVII, a 682; (Serghievskiy), XXI, a 708; Greek (Terra-Cotta), XXIII, a 210
Tôzandô. circuit (Japan), XIII, a b 579
Trabea, cloak (Costume), VI, a 404
Trabecula in skull (Amphibia), I, a 663, a 664, a *b* 666, b 674; (Birds), III, a b 609, a 610, *b* 611, a 614
Trace (Angling), II, b 31
——, ridge line (Fortification), IX, b 371
Tracery (Architecture), II, b 418; (Mural Decoration), XVII, a 41; (Venice), XXIV, a 161, b 167; English (Architecture), II, *b* 374, a 375, a 381, a 399; iron (Metal-Work), XVI, b 82; window (Building) (Ill.), IV, b 424, a b 425
Trachea, wind-pipe (Crane), VI, a b 484; (Mammalia), XV, a 368; (Respiration), XX, b 488, *a* 489; (Throat Diseases), XXIII, b 341; (Trumpeter), XXIII, b 632; (Voice), XXIV, a b 293
Tracheæ (Arachnida), II, a 239, a 241, a 244, b 246, *b* 247, b 248, *a* 258; (Hymenoptera), XII, a 610; (Insects), XIII, a b 151, a 152; (Myriapoda), XVII, b 123, b 124, *a b* 125; (Reptiles), XX, b 471, *a* 472
Tracheal tissue (Histology), XII, b 18
Tracheata, class (Myriapoda), XVII, b 122-8
Tracheides, cells (Histology), XII, b 18, b 20, a 21
Trachelia or Trachelida, group (Coleoptera), VI, a 120; (Insects), XIII, b 155
Trachelius (Protozoa) (Ill.), XIX, a b 886
Trachelocerca (Protozoa), XIX, a b 889
Trachenchyma (Botany) (Ill.), IV, b 75
Tracheophonæ, group of Birds, III, b 644, note; (Ornithology), XVIII, b 44, a 45, a 51
Tracheotis, district (Cilicia), V, *b* 678, b 679
Tracheotomy (Croup), VI, a 545; (Diphtheria), VII, b 218; (Throat Diseases), XXIII, b 340, a 341, note; history of (Surgery), XXII, a b 709
Trachiniæ, play (Sophocles), XXII, a 285, a b 286, a 287
Trachinidæ, family (Ichthyology), XII, a 716, b 719, a 720, b 728
Trachinus, genus of fishes (Weever), XXIV, b 503
TRACHIS, city, XXIII, a 525
Trachomedusæ (Hydrozoa) (Ill.), XII, b 580, b 584, b 586, a b 596, a b 597
Trachonitis, district (Bashan), III, a b 354
Trachydermi (Lizard), XIV, a b 739
Trachylite, rock (Geology), X, a 210
Trachypteridæ, family (Ichthyology), XII, *a* b, 722, a 723, b 729; (Oar-Fish), XVII, a 714
Trachypterus, genus (Ribbon-Fishes) (Ill.), XX, a b 546
Trachystomata, genus (Amphibia), I, b 676; (Siren), XXII, a 105
Trachyte, rock (Geology), X, b 209
Tractarianism (England, Church of), VIII, a 339; (Keble), XIV, a 27; (Methodism), XVI, a 193; (Pusey), XX, a 123-4; (Stanley), XXII, a b 468
Tractarian travesty (Bunyan), IV, a 474
Tractatus de Legibus (Suarez), XXII, b 648
——*Theologico-Politicus*, Spinoza's (Israel), XIII, a 441; (Spinoza), XXII, a b 417, b 418
—— *Theologicus* (Hildebert), XI, b 727
TRACTION, Electric, XXIII, a 526-8
  boat propulsion and aërial navigation, a 528
  classified systems, a b 527
  electro-motors, early, a 526
  practical railways, a b 526
  storage batteries, a 527
  telpherage, b 527-8
  theory of motors, a b 528
—— (Magnetism), XV, b 271-2; (Tramway), XXIII, b 539-41
——engines (Steam-Engine), XXII, a b 549, b 924
Tractory curve (Arch), II, b 290, b 291
Tracts, English (Richmond, Legh), XX, b 561
Tracts for the Times (Keble), XIV, a 27. See Tractarianism
TRACT SOCIETIES, XXIII, a b 525
TRACY, Antoine Louis Claude Destutt, comte de, metaphysician, XXIII, b 528-9
Trade (Commerce), VI, a 175-85; (Crusades), VI, a 551; (Finance), IX, b 164; (France), a 462-5, a b 481; (Free Trade), a 661-70; (Furs), a b 735; (Ispahán), XIII, a 405; (Japan), b 589; (Longevity), XIV, b 869; (Macedonian Empire), XV, a b 145; ancient oriental (Palmyra), XVIII, a b 203, note, a 204
TRADE, BOARD OF, XXIII, a 529-30
Trade, Discourses upon (North, Sir D.), XVII, a 568
Trade, early English (Russia), XXI, a 101, b 104; (Wool), XXIV, b 688; foreign (Ireland), XIII, b 235, a b 239, a 240; internal (India), XII, a b 799; international (Value), XXIV, a b 58; law of (Women), b 674; prohibition of American (United States), XXIII, b 807; ratio of people in (United States), *a* 876; restraint of (Contract), VI, b 287-8; Roman taxes on (Finance), IX, a 152; Russian (St. Petersburg), XXI, a b 204
—— acts, British (Statute), XXII, b 487
—— currents' return (Meteorology), XVI, a 189
—— Guilds, XI, a 232; (Political Economy), XIX, a 366
—— interdictions (Sunday), XXII, a 690-1; (United States), XXIII, a b 786, b 787-8
TRADE-MARKS, XXIII, a b 530; (Cutlery), VI, a 647; (Drawing), VII, a b 386; (Forgery), IX, b 364; (Homeyer), XII, b 127; (Patents), XVIII, b 874; (Sale), XXI, a 218
—— monopoly (Greenland), XI, b 151-2, b 153
Trade of Ireland, Essay on (Ireland), XIII, b 235, b 248
Trade organizations (Macedonian Empire), XV, b 144; Hindu (Caste), V, b 166. See TRADE UNIONS
—— papers (American Journalism), XVII, b 887
—— restrictions (Ireland), XIII, b 235, a 237, b 238, a 239, a b 275; colonial (America), I, b 621, a 622; Irish (Grattan), XI, a 56; (Ireland), XIII, b 235, a 237, b 238, a 239, a b 275
—— routes (Afghânistân), I, a 210; (Khiva), XIV, b 67; (Sahara), XXI, b 159; (Salt), a 246; (Siam), a 891; (Siberia), XXII, b 6-7; Asia Minor (Smyrna), b 195-6; Central Asia (Scythia), XXI, a b 602, b 605; Euphrates (Laodicea), XIV, b 293; transcontinental (America), I, b 627
Traders in Bankruptcy, III, b 294, *a* b 295, b 296
Trades, building (Building), IV, a 408; mediæval (Company), VI, b 198-200
—— and agriculture (Societies), XXII, a b 239
Tradescantia, plant (Botany), IV, b 74, *a* 123, b 125; cell division of (Histology), XII, *b* 15, a 16
Tradescantianum, Museum. See *Museum Tradescantianum*
Trade school (Technical Education), XXIII, a *b* 115-6
TRADE UNIONS, XXIII, b 530-4
  Amalgamated Society of engineers, b 532-3
  central authorities, a 535
  existing statutes, a 532
  objects of, a b 533
  organization, a 532-3
  relaxation of the law, a b 531
  restraint of trade conspiracies, b 530-1
  statistics, b 533-4
—— (Apprentice), II, b 186; (Combinations), VI, b 162; (Communism), a 194; (Conspiracy), a b 262; (Free Trade), IX, b 663, b 666-7; (Labor), XIV, a 168; (Political Economy), XIX, a 395; (Russia), XXI, b 92; (Sheffield), a 824; (Wages), XXIV, a b 332; (Workingmen, United States), a 919-20
Trade winds (America), I, a 593; (Atlantic Ocean), III, *a* 18; (Costa Rica), VI, a 398; (Geography), X, b 188; (Geology), b 195-6; (Meteorology), XVI, a 134, b 148-9, b 155, a 188; (Navigation), XVII, *a* 283; (Peru), XVIII, a 683; (Sea Water), XXI, a 645
Trading Colonies, VI, b 143
—— Companies, VI, b 198; (Finance), IX, b 156; (London), XIV, a 838; (Shipping), XXI, b 865-6, a 867
—— -companies' players (Drama), VII, b 358, a 359
—— justices (Police), XIX, a 352
Tradition (Celtic Literature), V, a b 266; (Folk-Lore), IX, b 312-4; (Hermeneutics), XI, a b 667; (History), XII, b 21-2; (Homer), b 116; (Israel), XIII, b 409, b 412, b 413-4, b 415, b 438; (Japan), a b 581, note; (Kashmir), XIV, a 14-5; (Mythology), XVII, b 148; church (Canon), V, b 8, a 9, *a* 10, b 11; (Inspiration), XIII, b 162; (Trent, Council of), XXIII, a 580; mediæval (Judas Iscariot), XIII, a 771; Rabbinic (Talmud), XXIII, a 42; triple (Gospels), X, *a* 702-7; language of (Gospels), a 721-2
Traditional law, Jewish (Jesus Christ), XIII, a b 676
Traditions, ecclesiastical (James), XIII, a 563; Hebrew (Canaanites), IV, a 675; Mahometan (Hasan and Husein), XI, a b 454
—— of Fourth Gospel, X, a b 728
Traditio solemnis, conveyance (Roman Law), XX, a 733
Traditores (Donatists), VII, a b 311; (Penance), XVIII, a 497
Trafalgar, battle of, 1805 (Collingwood), VI, b 131; (England), VIII, b 325; (France), IX, a 542; (Nelson), XVII, a 333; (War), XXIV, b 384
—— Square (London), XIV, a b 831, b 849, *a* 850, a 861

Traffic (Canals) IV, a 694; (Railway), XX, a 236-40, a 265-7; (Red Sea), a b 329
Tragacanth, Gum, XI, a 244
Tragedy (Æsthetics), I, a 196; (Aristotle), II, b 456; (Drama), VII, a b 342; (Heine), XI, b 558; (Poetry), XIX, a 278
Tragedy, The (Ochino), XVII, b 740
——, English (Beaumont and Fletcher), III, a b 407, b 408; (Drama), VII, a 370, a b 371, a 372, b 373-4, b 375-6, b 377-8; (Dryden), a b 422, b 423; (Jonson), XIII, b 752, a 753, a 755; (Kean), XIV, a 24; (Kemble, J. P.), b 32-3; (Macready), XV, b 167-8; (Marlowe), a 563-5; (Pitt), XIX, b 143; (Tourneur), XXIII, b 521-2; (Webster, J.), XXIV, a 500-1; rise of (Shakespeare), XXI, a 798, b 799, a b 800
——, fate- (Grillparzer), XI, a 175
——, French, IX, a 568, b 573, a 579, b 585, a 591, b 594; (Corneille), VI, a 370-3; (Drama), VII, a b 366, *a* b 367-8
——, Greek (Drama), VII, a b 349-52, a 354; (Æschylus), I, a 188-9; (Euripides), VIII, b 590-2; (Greece), XI, a b 125; (Phrynichus), XVIII, a 868; (Sophocles), XXII, a 286-7
——, Italian (Alfieri), I, b 443-4; (Drama), VII, a b 360
——, Roman (Accius), I, a 80; (Drama), VII, b 354-5; (Pacuvius), XVIII, a b 134; (Roman Literature), XX, a 737
——, Spanish (Drama), VII, a b 363, b 365; (Calderon de la Barca), IV, a 586
Tragi-comedy (Drama), VII, a 350
Tragitis, lake (Isauria), XIII, a 395
Tragopan, bird (Hornbill), XII, b 172
Tragulus, genus (Mammalia), XV, a 436
Trahaearn, poet (Celtic Literature), V, *a* 278
Trail, persistency of (Smell), XXII, a 178
Trailing (Angling), II, b 32
Traill, Thomas Stewart, physician (Encyclopædia), VIII, a 184
Trail of gun carriage (Gunnery), XI, b 277-8
Train, early English Artillery, II, b 573
—— George Francis, conversationalist (Tramway), XXIII, a 538
Traini, Francesco, painter (Orcagna), XVII, b 839
Training (Navy), XVII, b 305-6; athletic (Gymnastics), XI, a 311-3; diet for (Dietetics), VII, b 176-7
——, hunters (Horse), XII, a b 192; racers, b 206-7; troopers, a b 195
—— peach trees (Horticulture) (Ill.), XII, b 283-4; plants (Horticulture), b 218, b 250-3
—— walls (River Engineering), XX, b 592-3, b 594-5
Train of Thought (Hamilton, Sir W.), XI, b 372, a 373
—— Oils, XVII, b 765; (Whale Oils), XXIV, a b 558
—— remontoires (Clocks) (Ill.), VI, b 27-9
Trains of Mechanism, XV, b 771-2
—— of Meteors, XVI, b 117
—— of waves (Wave Theory), XXIV, a b 444
Traité de l'Homme (Malebranche), XV, a 335
—— *de Médecine Légale* (Medical Jurisprudence), XV, b 793
—— *des Fluides* (Hydromechanics), XII, a 453
—— *des Sensations* (Condillac), VI, b 221, a 223, a b 224
—— *des Vérités premières* (Buffier), IV, *b* 397
—— *du Mouvement des Eaux* (Hydromechanics), XII, a 452
TRAJAN, Marcus Ulpius, emperor, XXIII, a 534-7
    administration at Rome, b 535-6
    army, policy of, b 534-5
    authorities, b 537
    boundaries surveyed, a b 535
    civil government of, b 536-7
    Dacian war, a b 536
    Oriental wars, a b 537
    succeeds Nerva, a b 534
    training of, a 534
—— (Antioch), II, a 116; (Civita Vecchia), V, b 696; (Hadrian), XI, b 324, *a* 325; (Libraries), XIV, a 511; (Mérida), XVI, a 41; (Ostia), XVIII, b 64; (Persia), XVIII, b 613, note, b 614; (Pliny the Younger), XIX, *b* 237; (Roman Literature), XX, b 745-6; (Rome), b 790, *a* b 791, *b* 793, *a* 794; (Tacitus), XXIII, b 24
Trajanopolis, town (Cilicia), V, b 678
Trajan's Arch (Benevento), III, a 485; Basilica (Ill.), a b 356, a 357; bridge (Bridges) (Ill.), IV, b 296, a 297; column (Apollodorus Ill.), II, b 163; (Rome), XX, b 846-7 notes; wall (Bessarabia), III, b 531
Trajectory, curve (Gunnery), XI, b 268-70
Trajectum ad Rhenum, city (Utrecht), XXIV, a 27
TRALEE, town, XXIII, b 537; (Kerry), XIV, b 53, *a* 54; bay, *a* 53
Tralle's Hydrometer, XII, a b 572
Trallum, town (Welshpool), XXIV, b 528
Tramontane wind (Pyrénées), XX, a 134
Tramore, town (Waterford), XXIV, b 422, a 423; Bay, a 422
TRAMWAY (Ill.), XXIII, b 537-41
    cable motor, b 540-1
    cars, b 539
    compressed air traction, b 540
TRAMWAY, *continued*
    electric motors, a 541
    fireless engines, b 540
    legislation, a b 538
    introduction of, b 537-8
    roadway construction (Ill.), b 538-9
    traction, b 539-41
—— (Coal), VI, *b* 64, a b 65; (England), VIII, a 216; (Glasgow), X, a 572, a 573; (Highways), XI, a 725; (Mexico), XVI, a 905; (New York), XVII, a 478; (Philadelphia), XVIII, a 751; (Railway), XX, a b 230-1; (Traction), XXIII, b 526-7; granite (Roads and Streets), XX, a 601
—— locomotive (Steam-Engine), XXII, *a* 549
Trances, memorable (Tennent), XXIII, b 936; (Theresa), b 301-2
TRANI, town, XXIII, a 541
TRANQUEBAR, town, XXIII, a b 541
Trans-Alai, mountains (Turkestan), XXIII, b 673
TRANSBAIKALIA, province, XXIII, b 541-3; (Siberia), XXII, *a* 6, a 7, a 9, *a b* 11, a *b* 12, a 13, *a b* 14, a 15 note, *a* 16; (Yakutsk), XXIV, *a* 763; statistics (Russia), XXI, b 76
TRANSCASPIAN REGION, XXIII, b 543-5
    Caspian littoral, b 545
    Kelif-Uzboi district, b 544-5
    population, a 545
    surface, b 543-4
    Turcomania, a 545
    Uzboi district, a b 544
    vegetation, a 544
TRANSCAUCASIA, region, XXIII, b 545-7; (Tiflis), b 411
Transcendental Æsthetics, I, a 191, a 196
—— functions (Infinitesimal Calculus), XIII, b 41-3, a b 53
Transcendentalism (Hume), XII, b 368; (Kant), XIII, b 863, a b 864; (Schelling), XXI, a 407, b 409-10
——, New England (American Literature), I, b 631, a 639-41, a 643; (Ripley), XX, a b 582
Transcendental Logic, XIV, a 805
Transfer printing (Pottery and Porcelain), XIX, a 662, b 663
Transferring paper (Lithography), XIV, b 704, a b 705
Transfiguration, paintings (Perugino), XVIII, a 695; (Raphael), XX, a 293
Transformation of coördinates (Geometry), X, a 370-1, b 375-6; of equations (Algebra), I, a 481, b 485
—— of work (Mechanics), XV, a 708
—— theorem, Neumann's (Magnetism), XV, b 250
Transfusion of blood (Surgery), XXII, a 711, b 715
TRANSIT CIRCLE (Ill.), XXIII, b 547-9; (Astronomy), II, a b 669; (Observatory), XVII, b 729; (Ramsden), XX, a 280; (Reichenbach, G. von), a 362; (Rittenhouse), a 585; (Roemer), a 636; (Telescopic Work), XXIII, b 935; (Time), b 419; (Troughton), a b 626; portable (Geodesy), X, b 148-50
"Transitional area" (Pacific Ocean), XVIII, b 126, a 132
Transition dialects (Philology), XVIII, b 799-800; periods (English Language), VIII, b 350, 359, 360
Transitions, sudden (Magnetism), XV, a 262
Transit of Mercury, 1631 (Kepler), XIV, b 49
—— of Venus, 1639 (Horrocks), XII, b 175
—— of Venus, 1761 (Maskelyne), XV, b 615
—— of Venus and Mercury (Ptolemy), XX, b 95, note
—— theodolite (Surveying), XXII, a b 756
Transitus Mariæ (Mary), XV, b 597, a 598
Transkei, territory (Kaffraria), XIII, *b* 825, a b 826
Translation, circular (Mechanics), XV, b 779-80
——, force of (Magnetism), XV, a b 235, b 248, a 249
——, method of (Telephone), XXIII, b 144
—— in ethics (Tucker), XXIII, b 641
—— of men (Asgill), II, a 594
—— of the Scriptures (Luther), XV, a b 77, b 84; (Bible), III, a 559-60
—— relay (Telegraph), XXIII, a 132
Translations (Copyright), VI, a b 322
——, German (Freiligrath), IX, a b 673
Transliteration of Persian names (Persia), XVIII, b 647 note, b 665
Transmarina, Historia (William of Tyre), XXIV, b 615, a 616
Transmigration of souls (Brahmanism), IV, b 184-5, a 189; (Buddhism), b 381, a 384, a b 388; (Empedocles), VIII, b 164; (Jains), XIII, a 554; (Kabbalah), a 822; (Metempsychosis), XVI, b 111-3; (Mythology), XVII, b 152; (Pythagoras), XX, b 144, b 145; (Sanskrit), XXI, a b 303; (Vedanta), XXIV, a 128-31. See METEMPSYCHOSIS, Pre-existence
Transmission, electrical (Wheatstone), XXIV, a b 568
—— of characters (Zoology), XXIV, b 857; of instincts (Zoology), a b 858
Transmitters (Telephone) (Ill.), XXIII, b 139-40, a 142-3, b 144, b 930, *a* b 931
Transoxiana, region (Mohammedanism), XVI, a 596, b 598; (Oxus), XVIII, b 104
Transparency (Optics), XVII, a 829, note
Transparent Enamels, VIII, b 168; Soap, XXII, b 215
Transplantation (Arboriculture), II, b 282, a 283; (Horticulture), XII, a b 218, a b 245

Transplantingskin (Touch), XXIII, a 512
Transpiration in plants (Botany), IV, a 107; (Horticulture), XII, b 216; (Physiology), XIX, b 53-4
—— of gases (Graham, T.), XI, b 30
Transportation (Famines), IX, a b 24; (Fisheries, a 212; (Poor Laws), XIX, a 481; (Prison Discipline), a *b* 767-8, b 769, b 770-1, *a* 772, a 774, b 781-2
——, army (United States), XXIII, b 827; (War), XXIV, b 369-70, *a* b 370, *b* 373; British (Army), II, a b 510; corps (Volunteers), XXIV, a 316; Russian (Army), II, b 532
——, cost of (Corn Trade), VI, b 369; effect of (Commerce), VI, b 184
——, underground (Mining), XVI, a b 476
—— by glaciers (Geology), X, b 249-50; of fluvial detritus (Geology), a b 243-4; of marine detritus, b 254-5
—— of Petroleum, XVIII, b 731, b 893
Transubstantiation, dogma (Berengarius), III, b 505-6; (Collier), VI, a 130; (Cranmer), b 487: (England), VIII, b 298; (Eucharist), *b* 573; (Hildebert), XI, b 727; (Huss), XII, b 421; (Hymns), b 618; (Scholasticism), XXI, a 439; (Trent, Council of), XXIII, b 581; (Wycliffe), XXIV, b 746, a 747
Transudation (Crayon), VI, a 492
TRANSVAAL, republic, XXIII, b 549-52
    boundaries, b 549
    climate, a b 550
    history, b 551-2
    inhabitants, a 551
    natural products, b 550-1
    political features, a b 551
    surface, b 549-50
—— (Africa), I, b 224-5, *a* 226, a 237, a 242; (Tsetse Fly), XXIII, b 639; (Zululand), XXIV, a 866, a b 868; British annexation of (International Law), XIII, a 199; language of (Holland), XII, a 88
Transversal vibrations (Acoustics) (Ill.), I, a 95, a b 98, b 104
Transverse axis (Conic Sections), VI, b 247, b 248, a 249, a 250
TRANSVERSE FLUTE (Ill.), XXIII, a 552-4
—— division of cells (Morphology), XVI, a b 867; process (Mammalia) (Ill.), XV, b 359, a b 360; vibrations, luminous (Wave Theory), XXIV, b 470, a b 471, b 472; wire undulations (Wave), a 438-9
TRANSYLVANIA, principality, XXIII, b 554-5; (Austria), III, b 100; (Gold), X, a b 660, a 661; (Hungary), XII, *a b* 375, a 376, *a b* 377, *a b* 378, *a b* 379, *a b* 380, *a b* 381, a b 382, *b* 383, a b 384, a 385, *a* b 386, *a b* 387, b 388, a b 389; (Jósika), XIII, b 763; (Salt), XXI, b 241; (Socinus), XXII, *b* 242; (Unitarianism), XXIII, a b 773
Trap, star (Theatre), XXIII, a 244
TRAPANI, town, XXIII, b 555-6
Trapassi, Pietro, poet (Metastasio), XVI, b 108
Trap-door spiders (Arachnida), II, b 259, b 260, *a* b 261
Trapeze, musical instrument (Pianoforte), XIX, b 73
Trapezium, bone (Anatomy), I, a 765; (Ape), II, a 142
——, figure (Mensuration), XVI, b 19
Trapezuntios, Georgios, teacher (Greece), XI, *a* b 133
Trapezus, city. See Trebizond
——, mountain (Crimea), VI, a 518
Trapiche, mill (Gold), X, b 664
Trapping, hunting (Glutton), X, a 621; (Hippopotamus), XI, b 764
TRAPPISTS, monks, XXIII, a 556-8: (Monachism), XVI, b 739, a b 742
Traprain Law, hill (Haddington), XI, b 322
Trap rock, Deccan (India), XII, b 775
Traps in drains (Building) (Plate XXI), IV, a b 418; (Sewerage) (Ill.), XXI, a 749-50
Trasimene, lake (Italy), XIII, b 449, a 461; battle of, 217 B.C. (Flaminius), IX, a 252; (Hannibal), XI, b 395
TRAS-OS-MONTES, province, XXIII, a b 558; (Portugal), XIX, *a* 551, a b 552, b 556
Traspians, people (Scythia), XXI, *b* 603
Trass, mortar (Building), IV, b 410
—— rock (Geology), X, a 214
Trastamara, house of (Spain), XXII, b 334-5, b 338
——, Enrique or Henry of. See Henry, count of Trastamara
Trasuntino, Vito or Guido, musical instrument maker (Pianoforte), XIX, b 77
Trataditos (Valdes), XXIV, *b* 38
Trattinick, botanist (Parasitism), XVIII, b 268
Traube-Herring curves (Vascular System), XXIV, a 120
Traumatic cataracts (Ophthalmology), XVII, b 804, a 805; causes of (Insanity), XIII, a 107, b 114
Traunstein, mountain (Salzkammergut), XXI, a 253
TRAVANCORE, state, XXIII, b 558: (India), XII, a 780, a b 785, b 788; (Veddahs), XXIV, a 132; (Xavier), a 753
Traveller, poem (Goldsmith), X, a *b* 678
Traveller frame (Cotton), VI, a b 440
Travellers, mediæval (Russia), XXI, a 112
Traveller's Song (English Literature), VIII, b 360
Traveller's tree (Madagascar), XV, b 170-1
Travelling guilds (Japan), XIII, a 587
Travels, books of (American Literature), I, a 638; (Pückler-Muskau), XX, b 103; (Valle), XXIV, a *b* 50; Eastern (Herbert, Sir T.), XI, a b 645; (Niebuhr, K.), XVII, b 506-7
Travels, True (Smith), XXII, b 183-4, b 186
—— *in France* (Young), XXIV, *b* 793, a 794
—— *in North America* (Lyell), XV, b 102
Travers, Anne, mistress (Edward III., of England), VII, b 593
——, Walter, divine (Hooker, R.), XII, *b* 154
Traverse, banks of earth (Fortification), IX, a 374, a 393
Traversers (Railway), XX, a 247
Traverses, delineation by (Surveying), XXII, a b 745
Traverse table (Navigation), XVII, a 272
Traversing basis (Surveying), XXII, a 742-3
—— Crane, VI, a 485
—— slides (Gunnery), XI, b 278, b 280, a 281
Travertine, stone (Building), IV, b 419: (Geology), X, a 207; (Mineralogy), XVI, a 414; (Rome), XX, a b 825, a b 827; (Tivoli), XXIII, a 449
Travis, Archdeacon, Letters to (Porson), XIX, a b 538, *a* 540
Trawl (Dredge), VII, a 400
Trawling (Fisheries), IX, b 214-8, a 227-8, a b 230
Treading water (Swimming), XXII, b 807
Treadle of loom (Weaving), XXIV, b 490; ancient (Textiles) (Ill.), XXIII, b 224
—— platen press (Typography) (Ill.), XXIII, b 751
Treadmill or Treadwheel (Cubitt, W.), VI, b 604; (Prison Discipline), XIX, b 774
Treadwell press (American Journalism), XVII, a 883
TREASON, official vindictiveness, XXIII, b 558-63
    British colonies, a 563
    cognate offences, a 562
    English legislation, b 559-60
    existing statute, b 560-1
    Ireland, b 562-3
    misprision, a 562
    nature of, b 558-9
    procedure, a b 561
    punishment, b 561-2
    Roman law, a b 559
    Scotland, b 562
    United States, a b 563
—— (Corea), VI, a b 348; (Criminal Law), b 520, a 521: (Evidence), VIII, b 651; (Habeas Corpus), XI, *b* 320; (Heresy), a 658; (Smuggling), XXII, a 195; (United States), XXIII, a 799; penalty of (United States), a 829; trial for (Tooke), XXIII, a 474
Treasure finding (Napier, J.), XVII, a b 190, note
—— houses (Olympia), XVII, a 791
Treasure of Marvellous Matters (Persia), XVIII, b 672
Treasurer, diocesan (Cathedral), V, a 199
Treasurers, Lord High list of (England), VIII; a b 330
——, Roman (Quæstors), XX, a b 152
TREASURE-TROVE, XXIII, b 563-4
Treasuries, ancient (Rome), XX, b 836, note
Treasury, public building (London), XIV, b 849
——, civic (Athens), III, b 6
——, English bureau of (Solicitor), XXII, b 264
——, imperial (Rome), XX, b 790, a 793
—— bills (National Debt), XVII, a b 251
—— building, United States (Washington), XXIV, b 404-5
—— demand notes of United States (Banking), III, a 294
—— island (Solomon Islands), XXII, b 265, note
—— of Atreus (Archæology), II, b 302, a 303; (Architecture), a 353; (Mycenæ), XVII, a 122
—— of Olympia (Archæology), II, b 309; (Olympia), XVII, a 791
—— of Orchomenus, XVII, a 842
—— of Priam (Jewellery), XIII, a 687
Treat, Mary, naturalist (Sex), XXI, b 758
——, Robert, captain (Newark), XVII, a 380
TREATIES, XXIII, a 564-6; (Diplomacy), VII, a 220. See Peace
——, faith of (Indians), XII, b 870-1; Greek (Inscriptions), XIII, b 128, a 129; negotiators of (Board of Trade), XXIII, b 529
——, Roman (Inscriptions), XIII, a 139
——, slave-trade (Slavery), XXII, a b 149
——, trade (Japan), XIII, a 594
——, United States (Seward), XXI, a 745 note
Treating (Bribery), IV, b 248
TREATIES, List of principal
Treaty of Adrianople, 1829 (Athens), III, a 11; (Roumania), XXI, a 26; (Turkey), XXIII, a 691
——, Aix la Chapelle, 1668 (France), IX, b 507; 1748 (Austria), III, a 111; (Charles Edward), V, a 370; (Farnese), IX, b 33; (France), b 516-7; (Italy), XIII, a 495; (United States), XXIII, a b 782, a 783
——, Aix-la-Chapelle, 1818. See Congress of Aix-la-Chapelle

Treaty, Akerman, I, b 386
——, Altranstadt, 1706 (Charles XII.), V, *b* 364
——, Amiens, 1802 (England), VIII, a 325; (France), IX, b 540–1; (Napoleon I.), XVII, *b* 211–2, b 213
——, Arras, 1435 (Arras), II, a 550; (France), IX, b 485
——, Ashburton, 1842 (Palmerston), XVIII, b 199; (Slavery), XXII, b 149; (Webster), XXIV, *b* 499
——, Badajoz (Portugal), XIX, a 566
——, Bärenwald, 1631 (France), IX, b 501
——, Barrier, 1709 (George I.), X, b 378
——, Bassein, 1802 (India), XII, *b* 843, a 845; (Wellington), XXIV, b 522
——, Bayonne, 1808 (Ferdinand VII.), IX, a 73
——, Belgrade, 1739 (France), IX, a 516; (Hungary), XII, a 385; (Turkey), XXIII, a 688
——, Berlin, 1878 (Greece), XI, b 112; (Herzegovina), b 692, a 694; (Hungary), XII, a 389; (Montenegro), XVI, b 805, note; (Roumania), XXI, a 27; (Roumelia), a 27; (Thessaly), XXIII, b 320; (Thompson), a 940; (Thrace), b 339
——, Berlin, 1884–5 (Zaire), XXIV, b 803
——, Berwick, 1357 (Scotland), XXI, b 511
——, Blois, 1504 (France), IX, b 489
——, Bonga (Celebes), V, a b 252
——, Boulogne, 1550 (Scotland) XXI, a 522
——, Breda, 1667 (England), VIII, b 286; (France), IX, a 507
——, Bretigny, 1360 (France), IX, b 482
——, Brigham, 1290 (Lothian), XV, b 12; (Scotland), XXI, b 508, *a* 509, a 510
——, Bucharest, 1812 (Turkey), XXIII, a 690
——, Bulwer-Clayton, 1850 (Dalling), VI, b 689
—— of Callias, c. 449 B.C. (Persia), XVIII, b 585–6
—— of Calmar, 1397 (Calmar), IV, b 628; (Denmark), VII, b 74–5; (Gustavus I.), XI, b 297; (Hanseatic League), b 403; (Norway), XVII, a 603
——, Cambray, 1508. See Cambray, League of
——, Cambray, 1529 (Charles V.), V, b 359; (France), IX, b 490; (Francis I.), a 608
—— of Campo Formio, 1797, XIII, b 495; (Austria), III, b 114; (Foscolo), IX, b 416; (Ionian Islands), XIII, b 212; (Italy), b 495; (Napoleon I.), XVII, b 206–7
——, Cappel, 1529 (Zwingli), XXIV, a 873
——, Carlowitz, 1699 (Eugene), VIII, b 579; (Herzegovina), XI, b 693; (Leopold I., Emperor), XIV, a 467; (Turkey), XXIII, b 687; (Venice), XXIV, a b 159
——, Cateau Cambrésis, 1559 (France), IX, b 493; (Henry II., France), XI, b 597; (Philip II.), XVIII, a 758; (Savoy), XXI, a 357
——, Chaumont, 1814, V, b 393; (Chatillon-sur-Seine), a 385
——, Cherasco, 1631 (France), IX, b 501
——, Chinese-American, 1858 (Reed, W. B.), XX, a 898
——, Chunar, V, b 662
——, Cintra, 1808 (Cintra), V, b 687; (Wellington), XXIV, a 523
——, commercial, British, with Turkey, 1838 (Dalling), VI, a 689
——, commercial, French, 1786 (England), VIII, b 322
——, commercial, mediæval, English (Portugal), XIX, b 558
——, commercial, Russian-American, 1833 (Buchanan), IV, b 371
——, Conflans, 1465 (France), IX, a b 487
——, Constance, 1183 (Frederick I., Emperor), IX, b 642, (Italy), XIII, b 484; (Lombards), XIV, b 825
——, Constantinople, 1832 (Greece), XI, b 73
——, Copenhagen, 1660 (Denmark), VII, b 75; 1670 (Passport), XVIII, b 349
——, Corlear, 1617 (New York), XVII, a 466
——, Crespy, 1544 (Charles V.), V, a 360; (France), IX, b 491; (Savoy), XXI, a 357
—— of Defence, 1619 (India), XII, a 838
——, Dover, 1670 (France), IX, b 507; (Shaftesbury), XXI, b 765
——, Dresden, 1745 (France), IX, b 516; (Frederick II.), b 647
——, Edinburgh, 1560 (Scotland), XXI, b 524, a 525
——, Fontainebleau, 1762 (Choiseul), V, a 592
——, Fontainebleau, 1807 (John VI.), XIII, a 726; (Spain), XXII, a 358
——, Frankfort, 1871 (France), IX, b 552; (Germany), X, b 459; (Metz), XVI, a 212
——, Gandamak, 1879 (Herat), XI, a 639
——, Ghent, 1576 (William the Silent), XXIV, a 615
——, Ghent, 1814 (Clay), V, b 714; (Gallatin), X, a 37; (United States), XXIII, a 809
——, Granada, 1500 (France), IX, a b 489
——, Grosswardein, 1540 (Hungary), XII, a 384
——, Guadalupe Hidalgo, 1848 (Mexico), XVI, b 228, b 230; (United States), XXIII, a 816; (Utah), XXIV, a 26
——, Hague, 1673 (France), IX, b 508
——, Hodaibiya, 628 (Mohammedanism), XVI, b 580, a 581, a 582
——, Intercursus Magnus, 1493 (Finance), IX, a 155
——, Jassy, 1792 (Turkey), XXIII, a 689
——, Jay's with England, 1794 (Jay), XIII, a 623; (Monroe), XVI, a b 787; (United States), XXIII, b 803–4, b 806
——, Kadan, 1534 (France), IX, a 491; (Würtemberg), XXIV, a 738
——, Kainardschi. See Treaty, Kutshuk Kainardji
——, Karnak (Egypt), VII, a 641
——, Kloster-Zeven, 1757 (France), IX, b 518, a 519
——, Kutaya, 1833 (Turkey), XXIII, b 691
——, Kutshuk Kainardji, 1774 (Catherine II.), V, b 204; (Roumania), XXI, b 23, b 25; (Turkey), XXIII, b 688
——, Lahore, 1846 (Kashmir), XIV, b 15
——, Laibach, 1821 (Italy), XIII, b 496; (Metternich), XVI, a 210
——, Lausanne, 1564 (Switzerland), XXII, b 829
——, Lisbon, 1479 (Spain), XXII, a 340, b 341
——, London, 1720 (France), IX, a 515
——, London, 1827 (Turkey), XXIII, a b 691
——, London, 1831 (Belgium), III, a *b* 456–7
——, London, 1852 (Palmerston), XVIII, b 201
——, Lunéville, 1801 (Austria), III, *a* 115; (France), IX, b 540; (Lunéville), XV, b 67; (Palatinate), XVIII, b 171; (Würtemberg), XXIV, a 738
——, Madrid, 1526 (France), IX, b 490
——, Mentz (Calixtus II.), IV, b 626
——, Mersen, 870 (Frisians), IX, a 692; (Louis the German), XV, a 19
——, Methuen, 1703 (Portugal), XIX, *a* 553, *b* 564
——, Montpellier, 1622 (Louis XIII.), XV, b 20
——, Monzon, 1626 (France), IX, a 501
——, Nanking, 1842 (Canton), V, b 35
——, Newport, 1648 (Knighthood), XIV, b 116
——, Nikolsburg, 1621 (Hungary), XII, b 384
——, Nimeguen, 1678 (Charles II.), V, a 363; (France), IX, a 509; (Holland), XII, a 84; (Spain), XXII, b 347; (William III.), XXIV, *b* 610
——, Northampton, 1328 (Lothian), XV, b 12; (Scotland), XXI, a 511
——, Osnabrück, 1643. See Treaty of Westphalia
——, Paris, 1763 (France), IX, b 520; (United States), XXIII, a 783, a 784
——, Paris, 1783 (Jay, J.), XIII, b 622; (United States), XXIII, *a* 793
——, Paris, 1814 (Holland), XII, a 86; (Ionian Islands), XIII, b 212; (Metternich), XVI, b 208–9; (Palatinate), XVIII, b 171
——, Paris, 1856 (Blockade), III, b 725; (Cavour), V, b 239–40; (Clarendon), b 506–7; (Dardanelles), VI, b 724; (France), IX, a 549; (International Law), XIII, b 200, b 201, a 203; (Privateer), XIX, b 784; (Prize), a b 786; (Roumania), XXI, a b 26; (Treaties), XXIII, a 566; (Turkey), *b* 692, a 693. See DECLARATION OF PARIS
——, Paris, 1863 and 1878 (Post-Office), XIX, b 600–1
—— Passarowitz, 1718 (Herzegovina), XI, b 693; (Hungary), XII, a 385; (Venice), XXIV, b 159
——, Peronne, 1469 (France), IX, b 487; (Charles the Bold), V, *a* 368
——, Perth, 1268 (Norway), XVII, a 603
——, Prague, 1866 (Austria), III, b 122; (France), IX, a 551; (Germany), X, b 458; (International Law), XIII, a 199; (Treaties), XXIII, b 565
——, Presburg, 1805 (Austria), III, a 116; (France), IX, a 542; (Würtemberg), XXIV, b 738; (Würzburg), b 740
——, Pruth, 1711 (Husch), XII, a 418
——, Pyrenees, 1659 (Contraband), VI, *a* 285; (France), IX, *b* 505; (Passport), XVIII, b 349; (Spain), XXII, a 347; (Turenne), XXIII, a 667
——, Quadruple, 1834 (Clarendon), V, b 705
——, Rastadt, 1798 (Metternich), XVI, b 207
——, Ryswick, 1679 (Congress), VI, b 239; (Finance), IX, a 158; (France), a 511, (Holland), XII, b 84; (Spain), XXII, b 347; (William III.), XXIV, a 612
——, St. Germain, 1679 (Prussia), XX, a 11
——, St. Julian, 1603 (Geneva), X, b 134
——, San Ildefonso, 1777 (Peru), XVIII, a 683
——, San Ildefonso, 1796 (Spain), XXII, a 357
——, San Stefano, 1878 (Turkey), XXIII, a b 693
——, Schönbrunn, 1809 (Francis II.), IX, b 609; (Napoleon I.), XVII, b 221
——, Segauli, 1816 (India), XII, b 844
——, Senlis, 1493 (Charles VIII.), V, a 357; (Ferdinand V.), IX, a 72
—— Seville, 1729 (Spain), XXII, b 352
——, Seyssel, 1124 (Geneva), X, b 133
——, Sistova, 1791 (Leopold II., Emperor), XIV, b 467; (Turkey), XXIII, a 689
——, Sitavorok, 1606 (Turkey), XXIII, b 685
——, Southampton, 1625 (Contraband), VI, *b* 284
——, Surat, 1775 (India), XII, b 842
——, Teheran, 1814 (Persia), XVIII, b 660

Treaty, Teheran, 1881 (Persia), XVIII, b 628
——, Teplitz, 1813 (Aberdeen), I, b 48
——, Teschen, 1779 (France), IX, b 523; (Frederick II.), b 649
——, Tetuan, 1860 (Morocco), XVI, b 861
——, Tien-tsin, 1858 (Chefoo), V, a 394; (Elgin and Kincardine), VIII, a 124; (T'ientsin), XXIII, a 409
——, Tilsit, 1807 (France), IX, b 542; (Germany), X, a 452; (Ionian Islands), XIII, b 212; (Metternich), XVI, a 208; (Napoleon I.), XVII, b 217-8, a 219; (Persia), XVIII, a 659; (Prussia), XX, b 15; (Russia), XXI, a 109; (Tilsit), XXIII, a 418; effect on Prussian Army, II, a 496, b 519
——, Tolentino, 1797 (France), IX, a 537
——, Troppau, 1820. See Congress of Troppau
——, Troyes, 1420 (Charles VI.), V, a 356; (England), VIII, b 286, a 288; (France), IX, b 484; (Henry V., England), XI, a 589; (Normandy), XVII, b 559; (Troyes), XXIII, *b* 627-8
——, Tübingen, 1514 (Tübingen), XXIII, b 640; (Würtemberg), XXIV, a 738
——, Unkiar Skelessi, 1832 (Palmerston), XVIII, a 199; (Turkey), XXIII, b 691, a 692
——, Utrecht, 1713 (Austria), III, b 110; (Balance of Power), b 232; (Charles VI.), V, b 362; (Holland), XII, b 84; (Oxford, Earl of), XVIII, a 104; (Spain), XXII, b 350; (United States), XXIII, *a* 782; (Utrecht), XXIV, a 27
——, Verdun, 843 (Charles I.), V, a 355; (France), IX, b 471; (Franconia), b 619; (Frisians), a 692; (Germany), X, a 431; (Louis the German), XV, a 19
——, Verona, 1822 (Chateaubriand), V, *a* 379; (Ferdinand VII.), IX, b 73; (Metternich), XVI, a 210; (Wellington), XXIV, b 525-6
——, Versailles, 1756 and 1758 (France), IX, a 518, b 519
——, Versailles, 1783 (France), IX, a 524; (Gambia), X, a 55
——, Vervins, 1598 (France), IX, a 498; (Spain), XXII, a 344
——, Vienna, 1725 (Spain), XXII, a b 352
——, Vienna, 1735 (France), IX, a 516
——, Vienna, 1738 (Italy), XIII, b 494
——, Vienna, 1815. See Congress of Vienna
——, Villafranca, 1859 (Army), II, a 535; (Cavour), V, *a* 240; (Italy), XIII, a 500; (Napoleon III.), XVII, b 234
——, Washington, 1871 (Fisheries), IX, a 235; (International Law), XIII, a 202, a 203; (United States), XXIII, b 830
——, Wedmore, 878 (Normandy), XVII, b 552, a 553
——, Wehlau, 1657 (Frederick William), IX, b 645; (Germany), X, a 451
——, Westphalia, 1648 (Balance of Power), III, a 231, *a* 232; (Empire), VIII, b 166; (France), IX, b 503; (Frederick William), b 645; (Free Imperial Cities) b 656; (Metz), XVI, a 212; (Münster), XVII, b 37; (Osnabrück), XVIII, b 59; (Palatinate), a b 171; (Popedom), XIX, b 520; (Prussia), XX, b 10-1; (Würtemberg), XXIV, a 738
——, Wildbad-Gastein, 1865 (Gastein), X, b 97
——, Windsor (Portugal), XIX, b 559
——, Wusterhausen, 1726 (Prussia), XX, a 13
——, Xanten, 1614 (Cleves), V, b 725
——, Yandabo, 1826 (Burmah), IV, a 498; (India), XII, b 845
——, York, 1328 (Robert Bruce), XX, a 611
——, Zurawno, 1676 (Turkey), XXIII, b 686
——, Zurich, 1859 (France), IX, a 550

—— making power (United States), XXIII, b 798, *a* b 799
—— ports (Japan), XIII, b 580, a b 587, b 589, a 594; Chinese (I-Chang), XII, a 665; (Kew-Keang Foo), XIV, b 57; (New Chang), XVII, a 391; (Shanghai), XXI, a b 808, a 809
Trebbia, river (Italy), XIII, a 446; (Liguria), XIV, b 646; (Piacenza), XIX, a b 72; battle of the, 1799 (Austria), III, b 114; (Suwaroff), XXII, b 756
Trebeck, George, traveller (Moorcroft), XVI, b 829
Trebellian senatus consultum (Roman Law), XX, a 726
Trebellius Pollio (Augustan History), III, a b 65
Trebinje, town (Herzegovina), XI, *a* 693
Trebinstica, river (Herzegovina), XI, a 693
TREBIZOND, city, XXIII, b 566-7; (Greece), XI, a 107, a 108; (Pontus), XIX, a 474; (Opium), XVII, *b* 813
Trecentisti, writers (Italy), XIII, b 524
TREDEGAR, town, XXIII, b 567
Trediakovski, Vasili Kirilovitch, poet (Russia), XXI, a 114
Tree claims (Homestead), XII, b 126, a 127
TREE CREEPER, bird, XXIII, b 567-8
—— felling (Dry Rot), VII, a 426
TREE-FERN, plant, XXIII, a b 568; (Botany) (Ill.), IV, b 83, b 85, a *b* 94
—— frogs (Amphibia), I, a 674, b 675, a 677; (Frog) (Ill.), IX, b 698, a b 699, a 700
Treeless prairies, cause of (United States), XXIII, a 863
Tree onion, plant (Horticulture), XII, b 297
Tree-pipit, bird, XIX, b 121
Tree rat (India), XII, a 781
Trees (Acclimatization), I, a b 82, a 83; (Alps), a 556; (Arboriculture), II, b 275-84; (Breeds), IV, b 220, b 222, a 223; (Longevity), XIV, *a* b 868; (Oregon), XVII, b 845, b 847-8; deciduous (Horticulture), XII, b 268; evergreen (Horticulture), b 268; huge (Etna), VIII, b 552; telling age of (Botany), IV, a 90, a 91
Tree Snakes, XXII, a 200, a b 203, a 204, b 205-6, *b* 210
—— Sparrow, XXII, b 383, note
—— training (Horticulture) (Ill.), XII, b 250-2; transplanting, a b 245
—— worship (Religions), XX, a 374
Trefoil (Heraldry) (Ill.), XI, a 627
"Trefoil," poet (Norway), XVII, b 604
Tregaron mountain (Cardigan), V, b 83; town, b 83, *a* b 84
TREGELLES, Samuel Prideaux, critic, XXIII, b 568; (Alexandrian MS.), I, b 438, *a* b 439; (Bible), III, b 560, a 561; (Plymouth Brethren), XIX, a 250
Trekkers, emigrants (Transvaal), XXIII, *b* 551
Trelawny, Edward John, traveller (Shelley), XXI, *b* 829, a 831
——, Sir William, governor (Wolcot), XXIV, *b* 661
Trellis training (Horticulture), XII, b 252
Tremadoc slates (Geology), X, a 292
TREMATODA, worms (Ill.), XXIII, b 568-75.
  bibliography, a 575
  definition, b 568-9
  external appearance (Ill.), b 569-70
  fertilization, b 571
  historical sketch, a b 569
  internal structure, a 570-1
  life-history, a 571-2
  pathology, b 572-3
  phylogeny, b 574-5
  reproduction, b 570-1
  systematic arrangement, a b 573
  typical examples described (Ill.), b 573-4

—— (Animal Kingdom), II, b 46, *a* 47; (Parasitism), XVIII, b 262, a b 263, a b 264, a b 275; (Tape-Worms), XXIII, a 61
Trembecki, Stanislaus, poet (Poland), XIX, b 314
Trembles in cattle (Pathology), XVIII, b 417
Trembling palsy (Paralysis), XVIII, a 261
Tremellini, sub-order (Fungus), IX, b 730; (Vegetable Kingdom), XXIV, a *b* 139
Tremiti islands (Italy), XIII, a 450
Tremoctopus, genus (Mollusca) (Ill.), XVI, a 695, a 696
Tremolite (Mineralogy), XVI, a 385, a b 387, b 435
Tremometer, normal (Seismometer), XXI, b 660
Tremor, mercurial (Mercury), XVI, b 39
Trémouille, Catherine de la (Condé, Princes), VI, b 217
Trenant, town (Haddington), XI, b 323
TRENCH, Richard Chenevix, archbishop, XXIII, a 575-6; (Hymns), XII, a 617, a 618
Trenches (Fortification) (Ill.), IX, b 379-80
Trenching (Agriculture), I, a 299; fork (Agriculture), a 285
TRENCK, Franz von der, baron, hero, XXIII, a b 576
TRENCK, Friedrich von der, Freiherr, hero, XXIII, b 576-7
TRENDELENBURG, Friedrich Adolf, philosopher, XXIII, a 577-8; (Category), V, a 195, b 196-7
TRENT, city, XXIII, a 578; (Italy), XIII, a 444; duchy (Lombards), XIV, a b 823, b 824
TRENT, COUNCIL OF, XXIII, a 578-86
  antecedent occasion of, a b 578
  bibliography, b 586
  confirmation of decrees, b 585-6
  counter-reformation, a b 583
  disciplinary reforms, b 584-5
  Eucharistic debate, a b 584-5
  first opening at Trent, b 579-80
  freedom and influence of, a b 586
  heretical books, a 584
  imperial Interim, a 581
  location contest, b 578
  Paul IV., policy of, a b 582
  preliminaries settled, a 580, b 583-4
  Protestant attendance, b 581-2
  residence obligation, b 580, b 584, a 585
  Scripture and tradition, a b 580
  second opening at Trent, b 583-4
  sin and justification, b 580
  Spanish influence, a b 583
  ten years' intermission, a 582-3
  transference to Bologna, b 580-1

—— (Church), V, b 663, a 664; (Council), VI, a b 454; (Fathers of the Church), IX, a 45; (Holland), XII, b 77; (Mary), XV, b 598, note; (Missal), XVI, b 531; (Palestrina), XVIII, b 183, a 185; (Pallavicino), b 193; (Paul III.), b 441; (Reformation), XX, a 348; (Relics), a 370; (Sacraments), XXI, b 140

Trent, river (Burton on Trent), IV, b 509; (Derby), VII, *a* 93, a 94; (England), VIII, a 196; (Irrigation), XIII, b 377; (Leicester), XIV, a 424; (Lincoln), a 661; (Nottingham), XVII, *a b* 612, *a* 614, a 615; fishing (Angling), II, b 30
——, river (St. Lawrence), XXI, b 189
“Trent,” steamer, seizure of (Lincoln), XIV, b 667; (Palmerston), XVIII, b 201; (Search Right), XXI, b 638; (Seward), b 744 note; (United States), XXIII, b 823; (Wilkes), XXIV, a b 898
Trentham boiler (Horticulture) (Ill.), XII, b 234, a 235
TRENTON, city, XXIII, b 586–7; battle of, 1776 (United States), b 791
—— formation, rocks (Geology), X, a 301
—— limestone era (America), I, b 596, a 597
Trepang, food (Bêche-de-Mer), III, a 412; (Echinodermata) (Ill.), VII, a 554-5; (Fisheries), IX, b 234; (Queensland), XX, a 181
Trephining, history of (Surgery), XXII, b 708, a 709, b 710; operative (Surgery), b 724, a 725
Trepomonadina (Protozoa), XIX, a 883
Treron, bird (Pigeon), XIX, b 93
Trerus or Sacco, river (Latium), XIV, b 345
Tresaguet, pavement (Roads and Streets), XX, b 597
Tresca's experiments (Metals), XVI, a 70
Treschow, Niels, philosopher (Denmark), VII, a 80; (Norway), XVII, b 604
Tresco island (Scilly Islands), XXI, b 486, *a* 487
Trescoro wells (Bergamo), III, a 507
Tres Gubernatores Pacis et Libertatis (Rome), XX, *a* 820
Tresham, Francis (Fawkes), IX, *a* 52
TRESPASS, in law, XXIII, a b 587; (Game Laws), X, *b* 56–7; (Tort), XXIII, a 483; writ of (Ejectment), VII, a b 687
—— -offering (Sacrifice), XXI, a 145
Tressan, Louis Elizabeth de la Vergne, comte de, writer (France), IX, a 590
Tressure, the (Heraldry) (Ill.), XI, a 621
Trestaillon, bandit (Nîmes), XVII, a 524
Tretenterata (Brachiopoda), IV, a 171, a 172, b 174, *b* 175, a b 176
Treuer Johannes (Gipsies), X, a b 549
Treuga Dei (Truce of God), XXIII, a b 628
Treussart's Concretes, VI, b 216
Trevandrum Observatory. See Trivandrum
Trevelyan, Hannah, lady (Macaulay), XV, b 128, a 129, a 130, a 131
—— rocker (Electricity), VIII, b 55
TREVES, town, XXIII, b 587–8; (Basilica), III, a 357; (Prussia), XX, *a* 26; archbishop of (Luther), XV, b 75, b 81; electorate of (Coblentz), VI, a b 83
Treviranus, Ludolf Christian, botanist, *b.* 1779, *d.* 1864 (Botany), IV, b 72–3
TREVIRANUS, Gottfried Reinhold, naturalist, XXIII, b 588; (Evolution), VIII, b 655, a 656; (Variation and Selection), XXIV, a 84
Treviri, tribe (Treves), XXIII, a 588
Trevisa's Higdon's *Polychronicon* (English Language), VIII, a b 353, 359; (Higdon), XI, b 723
TREVISO, town, XXIII, b 588–9
TREVITHICK, Richard, inventor, XXIII, a b 589; (Steam-Engine), XXII, b 494, a 495; (Watt), XXIV, b 435
Trévoux, Journal de (Periodicals), XVIII, a 550
Trews, drawers (Costume), VI, b 411
Trezzo, bridge of (Bridges), IV, b 298, a 308
Tria Capitula. See “Three Chapters” controversy
Triacetin (Glycerin), X, a 622
Triad, Wordsworth's (Coleridge, Sara), VI, a 125
Triad elements (Chemistry), V, b 409, a 410
—— Society (China), V, b 565
—— with mistuned third (Music), XVII, a b 113
Triads, sacred (Babylonia), III, a 167; (Brahmanism), IV, b 186, *a* 187–8; (Egypt), VII, a 619, a 623
——, Welsh (Celtic Literature), V, a b 261, a 274
—— of emanations (Kabbalah), XIII, b 820–1
Triæne, spicule type (Sponges) (Ill.), XXII, b 432
Triænops, genus (Mammalia), XV, a 411, a 417
Triakisoctahedron (Mineralogy) (Ill.), XVI, b 363–4, a 365
TRIAL, in law, XXIII, b 589–90; (Criminal Law), VI, a b 521; (Witchcraft), XXIV, b 654, a b 655, *a* b 656; after death (Treason), XXIII, b 562, note; by combat (Duel), VII, b 441–2; (Perjury), XVIII, a 559; by grand assize (Writ), XXIV, b 729
—— by jury. See JURY
—— of the Pyx (Assaying), II, b 634; (Mint), XVI, a b 506
—— per sectam (Jury), XIII, *b* 794
—— plate (Mint), XVI, a b 506, b 507
Trials, peerage (State Officers), XXII, a 476
—— beyond seas (United States), XXIII, b 786, b 787; constitutional (United States), a b 799
“Trial slice” (Ordeal), XVII, a 843
Triana, Rodrigo de (Columbus), VI, a 155
Triangle of velocities (Mechanics), XV, a b 688
Triangles (Geometry), X, b 335–7, b 339–40, a 356; (Infinitesimal Calculus), XIII, b 7, b 19, a 20; (Measurement), XV, b 670–1; (Mensuration), XVI, b 18–9; (Pythagoras), XX, b 146, note; (Trigonometry), XXIII, a 596–610; calculation of sides (Surveying), XXII, a b 736; delineation by (Surveying), a 745; measurement of (Trigonometry), XXIII, a 596; polar (Geometry), X, b 357, b 358; ratio of (Geometry), b 340; similar (Geometry), b 342–3; spherical (Mensuration), XVI, a 30; (Trigonometry), XXIII, a b 601
Triangular compass (Surveying), XXII, b 758
—— numbers (Tables), XXIII, b 12
—— theory of creation (Goodsir), X, *b* 690
Triangulation (Earth), VII, b 516, b 517–8; (Geodesy), X, a b 146–8; (Map), XV, a 529–30; (Maskelyne), a 616; (Surveying), XXII, b 731–42; adjustment to traverses (Surveying), b 742; calculation of (Geodesy), X, a 150–2; geometrically corrected (Surveying), XXII, a 740-1; in India, plan of (Surveying), a 733; reduction of principal (Surveying), a 737–40; rise of (Snell), a 211
——, United States coast (Surveys), XXII, a b 939, a 940
Trianon, palaces (Versailles), XXIV, b 192
Triarii, troops (Armory), II, *b* 492, note
Triartha, animalcule (Rotifera), XXI, *a* 8, a 12
Trias, rocks (Geology), X, a 312-4; (New Zealand), XVII, a 481; (Scotland), XXI, a 544; (Spain), XXII, a 310; (Sweden), a 778; (York), XXIV, a 784
Triassic age (Reptiles), XX, b 478–9; Corals, VI, b 336, a b 337; fauna (Distribution), VII, b 245, 246, b 247, a 248; (Mammalia), XV, b 377–8; (Plesiosaurians), XIX, b 233
Triaxon triradiate scleres (Sponges) (Ill.), XXII, *a* 432, *a* 433
Tribal divisions (Totemism), XXIII, a 502–3; government (Persia), XVIII, b 638
—— Names, XVII, b 175–6; (Family), IX, b 19; organization (Land), XIV, b 260–1, a 262
—— system, primitive (Rome), XX, a 751, b 753, a 754, note, a 756, note, *a* 759, b 761, b 764, note, b 773 note, b 778, note
—— unity (Israel), XIII, b 407, a 409, b 410, b 415, note
Triban, song (Poetry), XIX, b 284
Tribasic acids (Chemistry), V, b 421, a b 422, a 423
Tribo (Chemistry), V, a 404, a 483, a 485, b 497
——, physicist (Electrolysis), VIII, a 102, b 106, b 107
Tribeni, town (Hooghly, District), XII, a 151
Tribes (Ethnography), VIII, b 544; (Germany), X, a b 425, a 426. See Tribal
TRIBONIAN, jurist, XXIII, a 590-1; (Justinian I.), XIII, *b* 802, *a b* 803, a 805
Tribonyx, bird (Moor-Hen), XVI, a 835
Triboulet, jester (Fool), IX, a 321
Tribunal of commerce (Paris), XVIII, a 292
Tribunals, mediæval (Rome), XX, a 803, a 807
——, mixed (Consul), VI, *a* 281
Tribune, official place (Architecture), II, a 380
TRIBUNE, Roman official, XXIII, a 591–4
    acquisition of legislative power, b 592
    decay of the office, b 593
    different sorts of, a b 591
    election, plebeian, a b 592
    functions and choice of, a b 593
    patrician and plebeian controversy, b 591–2
    veto power, a b 593
—— (Ædiles), I, a 163; (Augustus), III, a 71; (Comitia), VI, a 175; (Consul), b 279, a 280; (Rome), XX, b 755–7; (Veto), XXIV, b 223–4; Gracchian (Rome), XX, a b 776; imperial (Rome), *b* 788, note, b 789, a b 790, note; maritime (Venice), XXIV, a 153; mediæval (Rome), XX, a 802; military (Rome), a 757; republican (Roman Law), XX, a b 696, a 704; Syllan (Rome), b 780, b 781, note, a 782
Tribune, New York (American Journalism), XVII, a b 884, b 885; (Greeley), XI, *b* 143, *a b* 144; (Newspapers), XVII, a b 446; (Ripley), XX, *b* 582
Tribunitia potestas, mediæval (Rome), XX, a b 816, b 817, a b 818
Tribute (Darius I.), VI, *b* 726; mediæval (Ireland), XIII, a 264; Turkish (Egypt), VII, a b 680
——, levied in Pepper, XVIII, b 526
Tribute-money, paintings (Masaccio), XV, b 612; (Titian), XXIII, a 444
Tributyrin (Glycerin), X, a 622
Tricamarum, battle of, 533 (Vandals), XXIV, a 66
Trichechus, genus (Mammalia), XV, a 450; (Walrus), XXIV, a 358
Trichinaceæ, order (Protozoa), XIX, a 863
Trichinæ, genus (Medical Jurisprudence), XV, *b* 792, a 793; (Nematoidea) (Ill.), XVII, a 335; (Parasitism), XVIII, a 263, a b 264, b 266, a 268, a 275; (Veterinary Science), XXIV, a 223; cyst (Pathology), XVIII, a 399

TRICHINOPOLI, district, XXIII, a 594; town, a 594; (Madras), XV, b 186
—— chains (Filigree), IX, b 143; cheroot (India), XII, a 788
Trichinosis, disease (Parasitism), XVIII, a b 275
Trichiuridæ, family (Ichthyology), XII, a 716, a 728
Trichloracetic acid (Chemistry), V, *b* 403, a 404
Trichocephalus, genus (Nematoidea), XVII, a b 334, note; (Veterinary Science), XXIV, a 223
Trichocyst (Protozoa), XIX, b 889
Trichodectes, insect (Louse), XV, b 26
Trichodina, group (Protozoa) (Ill.), XIX, a 885, b 887
Trichogynium, organ (Botany), IV, b 144; (Fungus) (Ill.), IX, a b 733; (Reproduction), XX, *a* 438
Trichomes (Botany), IV, a b 80
Trichomycterina, group (Ichthyology), XII, a 715, a 731
Trichonis, lake (Greece), XI, a 74
Trichonympha, genus (Protozoa) (Ill.), XIX, a 886, a 888
Trichophyton, fungus (Parasitism), XVIII, b 274
Trichoptera, genus (Angling), II, a 35; (Insects), XIII, a 154, a 158
Trichosanthes (Gourd), XI, a 6
Trick valve (Steam-Engine) (Ill.), XXII, b 525
Tricladida, group (Planarians) (Ill.), XIX, a *b* 182, a b 183, *a b* 184, a b 185
Triclasite (Mineralogy), XVI, a 436
Triclinic rocks (Geology), X, a 203, b 207–8, b 209–10
Triclinius, Demetrius, scholiast (Greece), XI, *b* 130
Tricolor (Flag), IX, a 244; (France), a 527, b 547
Triconodon, fossil (Mammalia) (Ill.), XV, b 378
Tricoteur, machine (Hosiery), XII, b 313
Tricoupis, Spiridion, historian (Greece), XI, b 112, a 136
Tric-trac, game (Backgammon), III, a 173
Tricuspid valve, cardiac (Anatomy), I, a 791; (Vascular System), XXIV, a 107, a 109, b 110, a 116
TRICYCLE, vehicle, XXIII, a 594–5; (War), XXIV, a 368, b 379
Trident Curve, VI, a 639
Tridentine decrees. See TRENT, Council of
Tridentum, city (Trent), XXIII, a 578
Tridymite (Mineralogy) (Ill.), XVI, b 405; (Silica), XXII, a b 59
Triennial Act (England), VIII, b 317
—— Prescription, XIX, b 726
Trier, city. See Treves
Trierias, Sylvester, polemic (Luther), XV, b 74
Triesnecker (Micrometer), XVI, b 260
TRIESTE, city (Plan), XXIII, a 595–6; commerce of (Austria), III, a 106
Triethylcarbinol (Chemistry), V, b 453–4
Triethylsilicol (Chemistry), V, b 453–4
Triethylstibine (Chemistry), V, a 469
Triewald, Samuel von, satirist (Sweden), XXII, b 793–4
Trifacial nerve (Anatomy), I, a 774–5
—— orange (Hybridism), XII, b 441
Triforium (Architecture), II, a 419
Trigeminal nerve (Physiology), XIX, b 49
Triger's method (Coal), VI, a 59
Trigger-fish (File-Fish), IX, a b 141
Trigla, fish (Gurnard) (Ill.), XI, a b 297
Triglidæ, family (Ichthyology), XII, b 691
Triglyphs (Architecture), II, b 341, a 353, a 411
Trigno, river (Italy), XIII, b 448, b 449
Trignella, herb (Fenugreek), IX, b 67
Trigonia, genus (Mollusca), XVI, a 711, b 713
Trigoniacea, family (Mollusca), XVI, a 711
Trigonocephalus, genus (Snakes), XXII, b 210
Trigonometria artificialis, Vlacq (Logarithms), XIV, *b* 781, b 782, *a* 783; (Tables), XXIII, a 14, b 15
—— *Britannica*, Briggs (Logarithms), XIV, *b* 781; (Tables), XXII, a 14, b 15; Newton (Tables), b 14
Trigonometrical functions (Infinitesimal Calculus), XIII, a b 17; natural Tables, XXIIII, a b 13; quadratic surds (Tables), a 18; ratios (Tables), a 14–6
—— stations (Geodesy), X, a b 147–8; Survey of India (Surveying), XXII, b 731–2; surveys (Geography), X, a 171, a 173; Telemeters (Ill.), XXIII, a 136–7
TRIGONOMETRY, XXIII, a 596–610
  ANALYTICAL, 604–10
    angle expansion in sine powers, b 607
    circular functions, pure, b 609–10
    complex quantities, a 604–5
    continued factors and fractions, b 609
    exponentials, b 605
    factorization of sine and cosine, a b 608
    hyperbolic trigonometry, a b 607
    logarithmic theory, a 607
    multiple arc expansions, a 606–7
    *n*th roots of unity, a b 605
    periodicity of functions, a 604

TRIGONOMETRY, *continued*
  ANALYTICAL
    π, series for calculation of, b 607–8
    reciprocals of natural numbers, a b 609
    sines and cosines, expansion of, b 605–7
    sums of certain series, a 609
  ANCIENT HISTORY, a b 596
    applications of, a 596
    Arabian history, b 596–7
    modern history, a 597–8
  PLANE, a 598–601
    angles of any magnitude, a b 598
    formulæ for sine and cosine, b 599–600
    functions defined, b 598–9
    properties of triangles, b 600–1; straight lines, b 598
  SPHERICAL, a 601–4
    ambiguous cases, b 602–3
    definitions, a 601
    formulæ for sine and cosine, b 601–2
    fundamental equations, a b 601
    quadrilateral properties of inscribed, b 603–4
    radii of circles, a b 603

—— (Albategni), I, a 398; (Algebra), b 453; (Map), XV, *a* 527; (Ptolemy), XX, a b 92–3; (Regiomontanus), b 354; astronomical (Moon), XVI, a 827; plane (Navigation), XVII, b 272; spherical (Navigation), b 273–5, a b 277, b 278
Trihedral angle (Geometry), X, b 353
Trijntje Cornelis (Huygens), XII, a 433
Trilinear coördinates (Curve), VI, b 634; (Geometry), X, a 373
Trilithon (Architecture) (Ill.), II, b 335, a 336; (Baalbec), III, b 153–4
Trilobites, fossils (Crustacea) (Ill.), VI, b 563, a b 574, a b 578, a b 579, b 582, b 583–4; (Distribution), VII, *a* 245, 246, a 247; (Geology), X, *a b* 291, *a* b 292, *a* 293, a 297
Trilogy, the (Drama), VII, b 351; (Greece), XI, b 125; (Sophocles), XXII, a 285
Trem, town (Meath), XV, b 675, a 676
Trimberg, Hugo von, poet (Germany), X, b 470
TRIMBLE, Allen, governor, XXIII, a 944
TRIMBLE, David, politician, XXIII, a 944
——, Isaac R., general (Stuart), XXII, a 931
TRIMBLE, James, pioneer, XXIII, a 944
TRIMBLE, John, jurist XXIII, a 944
TRIMBLE, Robert, jurist, XXIII, a 944
TRIMBLE, William A., senator, XXIII, a 944
Trimera, genus (Coleoptera) (Ill.), VI, b 121; (Insects), XIII, b 156
Trimerellidæ, family (Brachiopoda), IV, a 172, b 175, b 176
Trimeresurus, genus (Snakes) (Ill.), XXII, a b 210
Trimethylamine (Methyl), XVI, b 204–5
Trimethylarsine (Chemistry), V, a 469
Trimmers, politicians (Halifax), XI, a 346
Trimming joists (Building), IV, b 431
—— machines (Bookbinding), IV, b 39
Trim of vessels (Seamanship), XXI, b 625
Trimontium, city (Philippopolis), XVIII, b 767
Trimorphic plants (Hybridism), XII, b 439
Trimorphism (Mineralogy), XVI, b 394
Trimurti, doctrine of (Sanskrit), XXI, *b* 296
Trim Wricksam, town (Wrexham), XXIV, b 726
TRINCOMALEE, town, XXIII, a 610; (Ceylon), V, b 312, *b* 313, a 314, a 316
Tring, town (Hertford), XI, b 689
Tringa, genus of birds (Knot), XIV, a 130; (Turnstone), XXIII, b 710, note
Tringgánu, district (Malay Peninsula), XV, b 323, a 324, *a* 325
Tringinæ, group of birds (Sandpiper), XXI, *b* 272, note, a b 273, note
TRINIDAD, island (Map), XXIII, a 610–1; (Columbus), VI, b 156; (Picton), XIX, a 90; (Slavery), XXII, b 149, a 150; (West Indies), XXIV, b 538, b 539; Asphalt lake of, II, b 625; (Petroleum), XVIII, a 885; avifauna (Birds), III, a 648, note; nuts (Cocoa), VI, a 93
Trinitarianism (Eusebius Pamphili), VIII, b 633; rise of (Sabellius), XXI, *b* 135–6
TRINITARIANS, religious order, XXIII, a 611; (Monachism), XVI, a 736, a b 742
Trinitarian Theism, XXIII, a 268
Trinitate, De (Gilbert de la Porrée), X, a 529
Trinitrin (Glycerin), X, b 623
Trinitro-cellulose (Gun-Cotton), XI, b 245, a 246
Trinity, Dogma of the (Anselm), II, b 82; (Athanasius), b 726; (Augustine), III, b 68. (Boetius), a 744, a b 745; (Clarke), V, a 709; (Eckhart), VII, a b 557; (Erigena), VIII, b 463; (Eusebius), b 633; (Greek Church), XI, b 139, b 141; (Heresy), b 658; (Howe), XII, a 337; (Irenæus), XIII, a 280; (Jesus Christ), b 681–2; (Kabbalah), b 822;

Trinity, *continued*
(Lao-tsze), XIV, a 296; (Monarchianism), XVI, a b 745; (Roscellinus), XX, *b* 871; (Sabellius), XXI, b 135-6; (Theism), XXIII, b 258-9, a 263, a 268; (Theology), b 286. (Valdes), XXIV, a b 38; Abelard's view of the (Scholasticism), XXI, b 442; Rousselin on the (Scholasticism), a b 439, *a* 440, b 442
——, defaming the (Blasphemy), III, *a* 701
Trinity and Saints, fresco (Raphael), XX, b 288
—— College, Cambridge, IV, a 646; (Bentley), III, b 499-500; (Libraries), XIV, b 519, a 543. See Trinity Hall
—— College, Dublin (Celtic Literature), V, b 265; (Dublin), VII, b 428, b 430, *b* 431; (Gaelic), X, a 12; (Ireland), XIII, b 247, a b 271; (Libraries), XIV, b 522; (Taylor), XXIII, b 100-1; (Universities), b 911; (Usher), XXIV, b 21
—— College, Hartford (Connecticut), VI, b 257; (Hartford), XI, b 444
—— College (Oxford), XVIII, a 101
—— Hall (Cambridge), IV, b 646; (Universities), XXIII, a 894, b 908
TRINITY HOUSE, Corporation of, XXIII, a b 611; (London), XIV, a 841; (Navy), XVII, b 289; (Pilot), XIX, a 105; (Shipping), XXI, b 865, note
——Muir, village (Brechin), IV, b 217
—— river (Texas), XXIII, b 220
TRINITY SUNDAY, XXIII, b 611
Trinoctialis usurpatio, custom (Roman Law), XX, b 705
Trinomalee, battle, 1757 (Hyder Ali), XII, a b 443
Trinucleus (Crustacea) (Ill.), VI, a b 574, note, *a* 584
Trio, musical term (Minuet), XVI, a 516
Triolene (Glycerin), X, a 622
Triolet, verse (France), IX, a 567
Trionfi, allegorical poems (Petrarch), XVIII, b 724-5
Trionfo della Morte, Orcagna's fresco (Pianoforte), XIX, b 73
Trionychidæ, family of Chelonians (Tortoise) (Ill.), XXIII, b 486, a 489
Trionychoidea, sub-order (Tortoise), XXIII, b 486
Trionyx, genus of Tortoise (Ill.), XXIII, b 488, a 489; (Reptiles), XX, *a b* 459, b 468, b 471, b 475, a 477, a b 479, *b* 480, a b 481, b 482, a b 483, *a b* 485
Trios, Three (Beethoven), III, b 436
Trioxides (Chemistry), V, b 413
Tripalmitin (Glycerin), X, a 622
Tripe de Roche, food (America), I, b 601; (Lichens), XIV, a 563
Tripertita, code (Roman Law), XX, b 697
Triphylia, district (Elis), VIII, *b* 130, a 131
Triphylite (Mineralogy), XVI, b 420
Triphylline, mineral (Lithium), XIV, a 703
Tripitaka, scriptures (Buddhism), IV, b 381; (Ceylon), V, b 318
Triple Alliance, 1668, I, a 515; (De Witt, John), VII, b 125, *a* 126; (Dubois), b 434; (France), IX, *b* 507; (Holland), XII, b 83; (Temple), XXIII, b 187
—— Alliance, 1717 (Spain), XXII, a b 351
—— expansion engines (Steam-Engine), XXII, b 516, b 535; Marine engines, a 545, *a* b 546
—— object glasses (Telescope), XXIII, a 154-5
—— tradition of Gospels, X, a 702-7, a 721-2
Triplets (Microscope), XVI, a 272-3
Triplite (Mineralogy), XVI, a 425
Triploidite (Mineralogy), XVI, a 422
Tripods, Greek (Archæology), II, *b* 306; (Tiryns), XXIII, a 435 note
——, street of (Athens), III, a 8
TRIPOLI, country (Plate), XXIII, b 611-2; (Africa), I, b 236, a 238
TRIPOLI, town, Africa, XXIII, b 612-3; (Egypt), VII, a 654, a 656; (St. John of Jerusalem), XXI, b 183
TRIPOLI or Tripolis, town, Syria, XXIII, a 613; (Numismatics), XVII, b 667; (Theodosius), XXIII, b 279; federation (Phœnicia), XVIII, a b 822
TRIPOLITZA or Tripolis, town, Greece, XXIII, a 613; siege of (Albania), I, b 396; valley (Mantineia), XV, a 510
Tripos, university term (Examinations), VIII, b 680
Tripping (Clocks), VI, b 20, b 21
Trippkeite (Mineralogy), XVI, b 425
Triptolemus (Sophocles), XXII, b 285
Trip to Scarborough, play (Sheridan), XXI, a 835
Triptych (Diptych), VII, a 224; (Palæography), XVIII, a 148, a 158; German (Wood-Carving) (Ill.), XXIV, b 682-3
Triquetra, symbol (Numismatics), XVII, a 665
Triradiate spicules (Sponges) (Ill.), XXII, *a* 432, *a* 433, a 434
Trireme, Greek (Ship), XXI, b 842-4
Triricinolein (Glycerin), X, a 622
Trisagion, hymn (Doxology), VII, b 332
Triskelion (Numismatics), XVII, a 665
Trismegistus. See Hermes Trismegistus
Trismus neonatorum (Tetanus), XXIII, *a* b 217
Trissino, Giovanni Giorgio, diplomatist (Drama), VII, b 360, b 361; (Italy), XIII, b 519; (Metastasio), XVI, b 108
Trissotetras, treatise on logarithms (Urquhart), XXIV, a 17
Trist, Nicholas Browse, author (Whist), XXIV, a 576
Tristan, L'Hermite, François, poet (Drama), VII, b 366, note; (Quinault), XX, a 188
—— of Round Table (Romance), XX, *a b* 659, *a b* 660, b 662 note, b 663-4, a b 665
Tristan (Grail, Holy), XI, a b 32, a 33
—— *und Isolt* (Germany), X, b 468, a 469; (Gottfried), a b 759; (Romance), XX, b 665; opera (Wagner), XXIV, a 335, a b 336; Persian parallel to (Persia), XVIII, a 670
TRISTAN DA CUNHA, islands, XXIII, a 613-4; (Atlantic Ocean), III, b 16, b 17, a 22; (Birds), a 644 note
Tristearin (Glycerin), X, a 622
Tristegineæ (Grasses), XI, a 52
Tristoma, genus (Trematoda), XXIII, a 569, b 571, a 573
Tristomeæ, family (Trematoda), XXIII, a 573
Tristram, Henry Baker, canon (Dead Sea), VII, b 4-5; (Lark), XIV, a 316; (Ornithology), XVIII, a 21 note, a 37; (Ostrich), a 66; (Vulture), XXIV, a 323
Tristram and Iseult. See *Tristan and Isolt*
—— *Shandy* (Sterne), XXII, a b 570
Trisul, Mount (Himalaya), XI, a 737
Triteleia, genus (Horticulture), XII, a 260
Trithemius or Tritheim, John, abbot (Cryptography), VI, b 592; (Libraries), XIV, a 513; (Paracelsus), XVIII, b 238; (Typography), XXIII, *a* b 732, b 736, b 737
Trithing, district (Hundred), XII, b 374; (Lincoln), XIV, a 662
Trithionic acid (Chemistry), V, b 439-40, a 441
Triticum, genus (Grasses) (Ill.), XI, a 53; (Wheat), XXIV, a 561-2
Tritoma, plants (Horticulture), XII, a 260
Tritomite (Mineralogy), XVI, a 443
TRITON, amphibian, XXIII, a b 614
  cristatus, a 614
  palmatus, b 614
  vulgaris, a b 614
—— (Amphibia), I, a 667, b 668, *b* 672, b 673, *a b* 674, a b 675; (Siredon), XXII, b 104
——, genus of Mollusca (Ill.), XVI, a b 673, b 674
Triumph or trump, game (Whist), XXIV, *b* 573
TRIUMPH, Roman, XXIII, b 614; (Jupiter), XIII, a 790; (Maximianus, M. A.), XV, b 650; (Nicephorus II.), XVII, b 495; (Pompey), XIX, a 466; (Tarquinius Priscus), XXIII, a 72
Triumphal arches, Roman (Architecture) (Plate XVI), II, b 364, b 367; pillar, Greek (Metal-Work), XVI, b 79
Triumph of Cæsar, painting (Mantegna), XV, a 509
—— *of Henry IV.*, painting (Rubens), XXI, *a* 49
—— *of Igor*, epic (Kursk), XIV, b 162
—— *of Life*, poem (Shelley), XXI, b 830
—— *of Trajan*, painting (Mengs), XVI, b 14
Triumvirate, first Roman (Cæsar), IV, b 564-5, a 566; (Crassus, M. L.), VI, b 490; (Rome), XX, b 783, a 784
——, second Roman (Antonius), II, a b 124; (Augustus), III, b 69, a 70; (Cicero), V, b 674; (Pollio), XIX, a 416; (Rome), XX, a 787
Triunfo, district (California), IV, b 616, a 617
—— de la Cruz, bay (Honduras), XII, a 134
Triunfo del Amor (Isla), XIII, a 397
TRIVANDRUM, town, XXIII, b 614; Observatory, XVII, a 737; (Meteorology), XVI, a 174, b 175, 179, 181, b 182, a 183, a b 186, b 190
Trivet, Sir Thomas, soldier (Knighthood), XIV, a 122 note
Trivia, poem (Gay, J.), X, *b* 107
Trivium, curriculum (Universities), XXIII, b 889 note
Trivolis, Jacobos, poet (Greece), XI, a 134
Trivulzio library, Milan (Libraries), XIV, b 530
Trnov, Gospel of (Slavs), XXII, b 158
TROAD and TROY, XXIII, b 614-20
  Alexandria, Troas, a b 617
  Assus, b 616-7
  bibliography, b 619, a 620
  classical sites, b 617 *sq.*
  divisions, a b 615
  geographical definition, b 614-5
  Greek domination, a b 616
  Hissarlik remains, b 618-9
  Homer's relation to, a b 619
  legend, the, b 619-20
  natural products, b 615
  Priam's kingdom, b 615-6
  site of Homeric Troy, b 617-20
—— (Greece), XI, b 82, a 120; (Numismatics), XVII, a 663; researches in (Archæology), II, b 298
Troades, play (Euripides), VIII, b 593
Trocadéro palace (Paris), XVIII, a 280, a 281, b 287, a 301
Trocedorfius, educator. See Trotzendorff
Trochaic metre (Alliteration), I, *a* 516

Trochal disk (Rotifera) (Ill.), XXI, a b 10, b 11
Trochammina, genus (Foraminifera), IX, b 328, b 329
Trochamminina (Protozoa), XIX, b 870
Trochanter (Hymenoptera), XII, a 607, a 610, *a* 611
Trocheta, genus (Leech), XIV, b 405
Trochidæ, family (Mollusca), XVI, b 672
Trochilidæ, family (Birds), III, *b* 646, b 647, b 648, *a* b 650, a 651
Trochilus, genus (Humming-Bird), XII, b 371–4
Trochlea (Anatomy), I, b 725, b 727; (Skeleton), XXII, b 117
Trochlearis nerve (Anatomy), I, b 773
Trochoids (Hydromechanics), XII, a 467
Trochosphæra, animalcule (Rotifera) (Ill.), XXI, a *b* 12
Trochosphere (Mollusca) (Ill.), XVI, a b 660, a 661, a 662, a 676, a b 687, b 710
Trochu, Louis Jules, general (France), IX, a 552; (Paris), XVIII, a 300
Trocmi, tribe (Galatia), X, a b 18
Trœzen, city (Orestes), XVII, b 851
Trogen, town (Appenzell), II, a 184
Troger, Simon, artist (Carving), V, a 147
Trögerite (Mineralogy), XVI, b 423
TROGLODYTES, cave-dwellers, XXIII, a b 620; (Archæology), II, a b 295; (Sacrifice), XXI, a 144
——, genus (Ape) (Ill.), II, a 131–2, b 136, *b* 137, *b* 138, a b 139, *a* 140, *b* 141, *a b* 142, *a* 143, *b* 144, *a b* 145
Troglodytidæ, family (Wren), XXIV, b 723–4
TROGON, bird, XXIII, b 620–1; (Birds), III, b 619, note, b 627; (Guatemala), XI, a 213; (Quezal), XX, a b 186, a 187
Trogonidæ, family (Birds), III, a 649, *b* 650
Trogosita, beetle (Wheat), XXIV, a 566
Trogulus, genus (Arachnida), II, a 245
TROGUS, Cnæus Pompeius, historian, XXIII, b 621; (Justin), XIII, *a* 800–1; (Persia), XVIII, b 617; (Phœnicia), b 816, b 817, a 823
Troia Britannica (Heywood, Thomas), XI, b 702
Troia, ruins (Setubal), XXI, a 730
Troica (Hellanicus), XI, a b 566
Troilus and Cresside, poem (Chaucer), V, *b* 391, b 393
—— *and Cressida*, romance (Pandarus), XVIII, b 214
—— *and Cressida*, play (Shakespeare), XXI, b 800, b 805
TROITSK, town, XXIII, b 621–2
Troitskosavsk, town (Kiachta), XIV, a 70
Troitze-Serghievsk, town (Serghievskiy), XXI, a b 708
Troja, Schliemann's (Troad), XXIII, b 618
Trojæ, De Excidio (Italy), XIII, a 509
Trojan horse (Troad), XXIII, a 620; war (Dares), VI, b 724; (Homer), XII, b 120–2
—— *War, Tale of the* (Slavs), XXII, b 158, a 161
Trolley, vehicle (Mining), XVI, b 476
Trollhätten, waterfall (Sweden), XXII, a 775
Trolling or trailling (Angling), II, b 32, a 33
Trollius, genus (Horticulture), XII, a 260
TROLLOPE, Anthony, novelist, XXIII, a 622–3; (Italy), XIII, a 475; (Scott), XXI, b 574
——, Frances Milton, author, XXIII, a 622
——, Thomas Adolphus, author (Paul V.), XVIII, a 442; (Sarpi), XXI, a 328. See List of Contributors
Tromba, stop (Organ), XVII, a 857
Trombidides, family (Arachnida), II, b 240, *a* 241, b 242
Trombidium (Harvest Bug), XI, b 447
TROMBONE, instrument, XXIII, b 623–4
——, stop (Organ), XVII, *a* 857
Tromlitz, Johann George, musician (Transverse Flute), XXIII, *b* 553
Trommel, ore-screen (Mining), XVI, b 485
Trommer's test (Sugar), XXII, b 656
TROMP, Cornelius, admiral, XXIII, a 625
TROMP, Martin Harpertzoon, admiral, XXIII, b 624–5; (Blake), III, *a* 698
Trompe, blast (Bellows), III, a 476; (Blowpipe), a 730; (Iron), XIII, b 296, b 308
TROMSO, town, XXIII, a 625; (Newspapers), XVII, a 442; (Norway), b 590, *a* 592, a 593, *b* 594, a b 596, *b* 597
Trona, mineral (Mineralogy) (Ill.), XVI, b 415; (Sodium), XXII, a 253, b 254
Tronchet, François Denis, jurist (Malesherbes), XV, a 336
Trondhjem, city. See Throndhjem
—— Fjord (Norway), XVII, b 590, a *b* 591, a 593, *b* 594
Tronto river (Abruzzo), I, *a* 57; (Italy), XIII, b 447
Troödos, mountain (Cyprus), VI, b 659
Troon harbor (Ayr), III, a 142
Troop-Horse, XII, a b 195
Troopials, birds (Icterus), XII, b 735
Troost, Cornelis, painter (Houbraken), XII, b 327
TROOST, Gerard, chemist, XXIII, a b 944; (Chemistry), V, b 446, b 450, b 452, b 454, a 465, a 471; (Sainte-Claire Deville), XXI, b 174
Troostite (Mineralogy), XVI, a 428
Troost's process (Lithium), XIV, a b 703, note
Troostwijk, Paets Van, chemist (Electricity), VIII, b 9
Tropæa, genus (Butterflies), IV, b 530
Tropæolum, genus of plants (Horticulture), XII, *b* 255–6; (Physiology), XIX, b 65
Troparion, stanza (Hymns), XII, b 614
Tropes, arguments (Scepticism), XXI, b 397–8
Trophi, teeth (Rotifera) (Ill.), XXI, b 10, a 11
Trophic fibres (Nutrition), XVII, b 705
Trophies of Marius (Rome), XX, a b 850, note
Tropho-neuroses (Pathology), XVIII, b 401
Trophosperm (Botany), IV, a 129
Trophozooids of doliolum (Tunicata), XXIII, b 654
Trophy tomb Xanthus (Architecture), II, b 361
Tropical flora (Distribution), VII, a 249, a b 252; Insects, XIII, a 148
TROPIC-BIRD, XXIII, a b 625
Tropics (Astronomy), II, b 673; (Geography), X, *a* 178
Tropidonotus, genus (Snakes), XXII, b 204, a 205; (Trematoda), XXIII, b 572
Tropidorhynchus, bird (Mimicry), XVI, b 353–4; (Oriole), XVII, a 869
Tropologia, hymn books (Hymns), XII, a 615
TROPPAU, town, XXIII, b 625–6; congress of (Metternich), XVI, a 210
Trosley, council of (Monachism), XVI, b 734
Trotman's Anchor (Ill.), II, *b* 7, a 8
Trotting (Horse), XII, b 200; in United States, a 208–10
Trotula, doctress (Medicine), XV, *a* 816
TROTZENDORFF, Valentin Friedland, educator, XXIII, a 626
Troubadours (France), IX, a b 569; (Italy), XIII, b 509–10; (John I., Aragon), b 726; (Minstrel), XVI, b 502; (Poetry), XIX, b 275; (Portugal), a 570; (Provençal Literature), a a 899–900, b 901–2; melodies of (Palestrina), XVIII, b 184
Trouées (Jura), XIII, *a b* 791, a 792
Trough-faults (Geology) (Ill.), X, b 270–1
TROUGHTON, Edward, instrument-maker, XXIII, a b 626; (Transit Circle), b 547, a 548; his method of Graduation, XI, a b 26, b 27, a 28; his Micrometer (Ill.), XVI, b 252–3; his mounting (Telescope) (Ill.), XXIII, a 160
Trou Madame, game (Bagatelle), III, b 198
Troup, George, editor (Newspapers), XVII, a 434
Trous-de-loup (Fortification) (Ill.), IX, a b 373, a 375
Trousers, garment (Gaul) X, a 101
Trousseau, Armand, physician (Epilepsy), VIII, b 426, a b 427; (Gout), XI, a 8
Trout, fish (Ichthyology), XII, *a* 703, a 707, a 732; (New Zealand), XVII, a 483, note; (Salmonidæ), XXI, *a b* 232, a 233, b 235–6, *a* 237; fishing (Angling) (Ill.), II, a b 32, b 33, a b 34, a 36, a 38; (Pisciculture), XIX, b 135, a 137; streams (Hereford), XI, b 652
Trouvelot, L., astronomer (Zodiacal Light), XXIV, a b 836, a 837
Trouvères (Drama), VII, a b 357; (France), IX, b 561, a 562, a 564, a 569; (Poetry), XIX, b 275. See Troubadours
TROUVILLE, town, XXIII, b 626
TROVER, law-term, XXIII, b 626
TROWBRIDGE, town, XXIII, b 626–7; (Wilts), XXIV, a 626, *a* 627
TROY, ancient city, XXIII, b 614–20; (Achilles), I, b 89; (Anchises), II, *b* 4; (Antenor), a 91; (Greece), XI, a 83; (Homer), XII, b 114, b 116, b 120; (Palladium), XVIII, a 192; (Paris), a 301; excavations of (Ivory), XIII, b 533; legends of (English Literature), VIII, b 363–4, b 368, a 369; (Romance), XX, a 653–5; Weights and Measures of, XXIV, a b 514, a b 515, b 516. See *Troye* and *Troyes*
TROY, city, New York, XXIII, a 627
TROY, Jean François de, painter, XXIII, a b 627
Troye, Recuyell of the History of (Typography), XXIII, b 738, a 739
TROYES, town, XXIII, b 627–8
Troyes, Recueil des Histoires de (Romance), XX, b 655
Troynovant, mythical city (London), XIV, a 850
Truancy (Reformatories in United States), XX, a b 899
Truber, Primus, patriot (Lomonósoff), XIV, b 826; (Slavs), XXII, b 157, b 159
Trubezh river (Poltava), XIX, b 423
Truce, law of (Armistice), II, b 484
TRUCE OF GOD, XXIII, a b 628; (Crusades), VI, b 550; (France), IX, a 474; (Games), X, a 58
Truchas, mountain (New Mexico), XVII, a 410
Truck Act (Labor), XIV, b 172–3
Truckee, river (California), IV, b 618; (Nevada), XVII, b 376
Trucks, railway (Patents), XVIII, a 879; locomotive (Steam-Engine), XXII, a b 547, a 925
True Christianity (Arndt, J.), II, *a* 544; (Pietism), XIX, b 91
True Discourse (Celsus), V, a 257–8
True dramatists (Poetry), XIX, a b 276

True Grandeur of Nations, oration (Sumner), XXII, b 933
—— *History* (Lucian), XV, a b 45
—— *Intellectual System* (Cudworth), VI, b 609
Truentum, town (Liburnians), XIV, a 554
True Relation (Smith, John), XXII, b 185, b 186
True vocal cords (Voice), XXIV, a b 293, a b 294, *b* 296
TRUFFLE, fungus (Ill.), XXIII, b 628–9; (Botany) (Ill.), IV, b 147
TRUMBULL, Benjamin, historian, XXIII, b 629, b 944
TRUMBULL, John, painter, XXIII, b 629, b 945–6
TRUMBULL, John, poet, XXIII, b 629, b 944–5; (American Literature), I, b 633
TRUMBULL, Jonathan, colonial governor, XXIII, b 629, a 945
TRUMBULL, Jonathan, Jr., governor, XXIII, b 629, b 945; (Connecticut), VI, a 258
TRUMBULL, Joseph, commissary-general, XXIII, b 945
TRUMBULL, Joseph, governor, XXIII, a 946
TRUMBULL, Lyman, senator, XXIII, a 946
——, Sir William, statesman (Pope), XIX, b 497
Trump card (Whist), XXIV, b 577
TRUMPET, musical instrument (Ill.), XXIII, b 629–31; (Zincken), XXIV, *a* 827
—— in Heraldry, XI, b 628
TRUMPET, Speaking and Hearing, XXIII, b 631
TRUMPETER or Trumpet-bird (Ill.), XXIII, b 631–2; (Birds), III, a 645, b 647; (Dove), VII, b 328; (Tinamou), XXIII, b 429 note
Trumpeter's muscle (Anatomy), I, b 734
Trumpeter-Swan, XXII, b 769
Trumpet-fish (Ichthyology), XII, b 729
Trumpet of Nordland (Dass), VI, b 731
Trumpet stop (Organ), XVII, b 854, a *b* 856, a b 857
Trumpington, village (Cambridge), IV, a 647; street (Cambridge), a *b* 645
——, Sir Roger de, crusader (Brasses), IV, b 197
——, William de, abbot (St. Albans), XXI, b 164
Trumpp, Dr. (Hindustani Literature), XI, *a* b 754, note
Truncus arteriosus (Amphibia), I, b 670–2
Trundles (Mechanics), XV, a 766, b 768
Trunk drainage (Agriculture), I, b 292–3
—— engines (Steam-Engine), XXII, b 536, a 543
—— hose (Costume) (Ill.), VI, *a b* 418, b 419, a 420
Truòng-Tiên, river (Hué), XII, *b* 347
TRURO, city, XXIII, b 632–3; (Libraries), XIV, b 546
Trussed girder (Building) (Ill.), IV, a b 432
Trusses (Bridges) (Ill.), IV, b 282–90; weight of typical, b 288
—— (Hernia), XI, a b 673
—— of hay (Agriculture), I, a 337
Trussing (Cooperage), VI, b 309
TRUST, in law, XXIII, a 633–7
  Cestui que Trust, b 634–5, a b 636
  creation and extinction, a b 635
  early English uses, a 633–4
  procedure, b 636–7
  Roman law, a 633
  Scotland, a b 637
  statutes in force, a b 634
  trustees, duties, b 635–6
  trusts defined, b 634
  United States, b 637
—— (Company), VI, a b 200; (Cy-près), b 657; (Damages), b 694; (Settlement), XXI, a b 727; testamentary (Roman Law), XX, b 725–6, a 728
—— associations (Banking), III, a 283
—— companies, XXIII, b 637; (New York), XVII, a 469
Trustee process (Trust), XXIII, b 637
Trustees (Savings Banks), XXI, *b* 343; of debtor's estate (Bankruptcy), III, a 295. See TRUST
Trusts in jus civile (Roman Law), XX, a 708, a 709
—— upon uses (Land), XIV, a 265
Truth (Leibnitz), XIV, b 422; (Metaphysic), XVI, a 100, b 103; criterion of (Arcesilaus), II, a 286; (Stoics), XXII, b 594; duplicity of scholastic (Scepticism), XXI, *a* 399; philosophic indifference to (Sophists), XXII, a 281; twofold nature of (Scholasticism), XXI, b 448, note, a 449
Truth (Parmenides), XVIII, a b 321, a 322
Truth (Protagoras), XIX, a 847
—— *Exalted* (Penn), XVIII, b 503
"Truths, Four Great" (Buddhism), IV, a 384
Truttvetter or Trutwetter, humanist (Luther), XV, a b 73, 857
Truvor, legend of (Russia), XXI, *a* 96
Truxillo, port (Honduras), XII, a 134, b 135, a 136
——, city (Peru), XVIII, b 687, a 690
TRUXTUN or Truxton, Thomas, captain, XXIII, a 946
Trye, Guillaume H. C. de, sheriff (Servetus), XXI, a b 717
Trygonidæ, family (Ichthyology), XII, a 716, a 719, a 724; (Ray), XX, b 312
TRYON, William, royal governor, XXIII, a 946; (United States), a 787, a 788
Trypanosoma, parasite (Protozoa) (Ill.), XIX, b 880, a 881
Trypho, Diodotus, Assyrian usurper (Israel), XIII, b 432–3
Trypho, Dialogue with (Justin), XIII, a b 800
Tryphon, insect (Hymenoptera), XII, a 608
——, king, Syria (Numismatics), XVII, b 666
Trypograph, stencil device (Writing Machines), XXIV, b 733
Trypsin, ferment (Nutrition), XVII, b 690, a *b* 695, b 698; (Physiology), XIX, a b 22
Trypsinogen (Physiology), XIX, a b 22, a 23
Tsacha, adventurer (Smyrna), XXII, a 197
Tsad lake. See Tchad
Tsæ, inventor of paper (China), V, b 575
Tsaidam plateau (Tibet), XXIII, a b 363
Tsa-Ki (Drama), VII, b 346
Tsampenago, ruins (Bhamo), III, a 542
Tsáng, province (Tibet), XXIII, a 360, *b* 361, b 364, *b* 365, *b* 367, a 368
Tsang-Ke, legendary person (China), V, b 567
Tsăng Sin, disciple of (Confucius), VI, a 233
Tsa'ngo, prince (Lhasa), XIV, a 502
Tsanpu, river (Lhasa), XIV, b 496
Tsaou Pei, emperor (China), V, a 560
Tsar. See Czar
TSARITSYN, town, XXIII, a 638; (Saratoff), XXI, *b* 319, *a* 320; (Volga), XXIV, b 299, *b* 300, a 301
TSARSKOYE SELO, town, XXIII, a b 638; palace (St. Petersburg), XXI, a 200, a 204
Tschenstochow. See Czenstochova
Tschewkinite (Mineralogy), XVI, b 444
Tschirnhausen's theory (Equation), VIII, a b 447, a 451
TSCHUDI or Schudy, family, XXIII, b 638
——, Burckhard, manufacturer (Pianoforte), XIX, *b* 78, a 83
——, Christopher, soldier, XXIII, b 638
——, Dominic, monk, historian, XXIII, b 638
——, Friedrich, naturalist, XXIII, b 638
TSCHUDI, Giles or Ægidius, historian, XXIII, b 638; (Switzerland), XXII, b 835; (Tell), XXIII, *b* 171, *a* 172; (Winkelried) XXIV, a 645
——, Johann Heinrich, historian, XXIII, b 638; (Switzerland), XXII, a 837
——, Johann Jakob von, author, XXIII, b 638 note; (Peru), XVIII, a b 693; (Switzerland), XXII, a 837
——, John James, genealogist, XXIII, b 638
——, John Louis, naturalist, XXIII, b 638
——, John Thomas, antiquary, XXIII, b 638
——, Joseph, monk, historian, XXIII, b 638
——, Joseph Anthony, soldier, XXIII, b 638
——, Louis Leonard, soldier, XXIII, b 638
——, Valentine, pastor, XXIII, b 638
Tse or "stations" (Zodiac), XXIV, *b* 831, b 833
Tseen-tang Keang, river (China), V, b 552
Tse-hoheen, town (China), V, *b* 548
Tse-kia or Taki, town (Gujránwála), XI, b 241
TSENAN Foo, city, XXIII, a 639; (China), V, b 550; department (China), a 562
Tsengoomen, monarch (Burmah), IV, a 497
Tse-ming-chow, town (China), V, a 549
TSETSE FLY (Ill.), XXIII, a b 639; (Africa), I, a 233; (Diptera), VII, b 223; (Transvaal), XXIII, a 551
Tse-Wang, Arabtan, khan (Mongols), XVI, b 772
Tshaka, Zulu chief (Zululand), XXIV, *a* 868
Tshakones, people (Greece), XI, a 76
Tshen-byo-yen or Shembuan, king (Burmah), IV, *a* 497
Tshenistshali river (Transcaucasia), XXIII, *b* 545
Tshi or Chee, tribes (Gold Coast), X, b 672, a 673, notes
Tsi-àfa-jàvona, mountain (Madagascar), XV, a 169
Tsiénimparihy, valley (Madagascar), XV, b 169
Tsigans, Russian people. See GIPSIES
Tsin-Chi-Hong-Ti, emperor (Astronomy), II, b 651–2
Tsin dynasty (China), V, b 560; (Confucius), VI, a b 233
Tsing dynasty (China), V, a 567
Tsing-ling Shan, mountains (China), V, a 554
Tsing-tsaou, lake (China), V, b 549
Tsìribìhina, river (Madagascar), XV, *b* 169
Tsi-tsi-har, district (Manchuria), XV, a 473, *a* 474
Tsodam, sanctuary (Tibet), XXIII, a 366
Tso K'iu-ming, author (Confucius), VI, a 234, a 235
Tsonecan Dictionary, VII, a 168
Tsongkhapa, Buddhist reformer (Lâmäism), XIV, a b 230; (Lhasa), a b 500, a 501
Tsugara, straits (Japan), XIII, a 580, a 585 note
Tsu-goab, supreme being (Hottentots), XII, a b 325; (Mythology), XVII, a b 154
Tsuica, plum wine (Roumania), XXI, b 19–20
Tsukuba-san, mountain (Japan), XIII, a 581
Tsun-e Foo, district (China), V, b 556
Tsung-ching, Ming emperor (China), V, b 563–4
Tsuni-Goam, myth (Mythology), XVII, a b 154
Tsushima, island (Japan), XIII, a 578, b 582, a 592

Tsze Keang, river (China), V, b 553
Tsze-liu-tsing, district (China), V; *b* 555
TUAM, city, XXIII, b 639; (Galway), X, b 51, *a* 52
TUAMOTU ARCHIPELAGO, XXIII, b 639-40
Tuaregs or Tuarick tribes (Africa), I, a 233, a 234, a 240; (Soudan), XXII, a b 292; (Timbuktu), XXIII, *b* 418
Tuat, oasis of (Africa), I, a 222, a 224, b 237; (Oases), XVII, a 715
Tuath, tribe (Ireland), XIII, b 263; (Brehon Law), IV, b 225; (Clan), V, b 697, a 698
Tuatha Dé Danann, race (Celtic Literature), V, *a* b 260, a 261, *a* 269, a 270; (Ireland), XIII, a b 249, a 250
—— Feda (Ireland), XIII, b 249
Tuathal Teachtmar, king (Celtic Literature), V, a 268; (Ireland), XIII, b 250-1, note
Tub, river (Issik-Kul), XIII, a 442
Tuba, river (Yeniseisk), XXIV, a *b* 779
——, Roman Trumpet, XXIII, a 630
Tubai, island (Tahiti), XXIII, a b 27
Tubal Cain, patriarch (Lamech), XIV, *a* 239
Tubat, Fanni, prince (Tibet), XXIII, a 359, a 365, *b* 366, a 367
Tubbas, excrescences (Yaws), XXIV, a 769
Tubbing, shaft lining (Coal), VI, a b 59
Tube, hot and cold (Sainte-Claire Deville), XXI, b 175
—— cutters (Hand Tools), XI, b 392
—— making (Brass), IV, b 196–7
Tuberaceæ, sub-order (Fungus), IX, b 732–5
Tuber æstivum, plant (Truffle), XXIII, b 628
—— cinereum (Anatomy), I, b 766, a 770, a 781
Tubercle, disease (Pathology), XVIII, a 415–6; (Peritonitis), b 558; (Phthisis), b 869, b 870; cerebral (Hydrocephalus), XII, b 447–8; choroid (Ophthalmology), XVII, b 805
Tubercles (Reptiles), XX, b 458
—— of Rolando (Anatomy), I, *b* 764
Tubercular disease (New Mexico), XVII, a 411, note; joint diseases (Surgery), XXII, a 720, a 721
Tuberculosis (Insanity), XIII, b 107, a 115; (Murrain), XVII, a 67; (Veterinary Science), XXIV, b 220-1; cestodic (Tape-Worms), XXIII, b 58
Tuber magnatum, plant (Truffle), XXIII, b 628, a 629; melanospermum, plant (Truffle), b 628, a 629
TUBEROSE, plant, XXIII, b 640
Tubers (Botany), IV, b 87; (Horticulture), XII, b 240; (Potato), XIX, a 611, *a* b 613
Tubes, cell (Histology), XII, *b* 18
——, exploding (Gunnery), XI, a 272
——, manufacture of (Glass), X, b 593; pressure upon (Mechanics), XV, a 753
—— of force (Electricity), VIII, b 24
—— of polychæta (Annelida), II, a b 60
Tūbhānā the Beardless (Syriac Literature), XXII, a 866 note
Tubifex (Worm), XXIV, *a* b 716
Tubinares, order of birds (Ornithology), XVIII, b 42, a 49, b 50 note; (Petrel), a 725
Tubing (India-Rubber), XII, b 882
TUBINGEN, university town, XXIII, b 640; (Cotta), VI, *b* 426
—— school of criticism (Acts of the Apostles), I, b 115, a 116, b 118, *a* 119; (Baur), III, b 387, a 389; (Bible), a b 556; (Christianity), V, a b 599, a 600, b 601; (Colossians), VI, a 148, a 149; (Gospels), X, *a* b 748; (James), XIII, a 565; (Paul), XVIII, a 427; (Revelation), XX, *b* 512, b 514; (Schwegler), XXI, *b* 483; (Simon Magus), XXII, a b 86
Tubino, ethnologist (Iberians), XII, b 640
Tubipora, genus (Actinozoa), I, b 120, a 121
Tubiporidæ, family (Corals) (Ill.), VI, b 341, a 343
Tubitelariæ, family (Arachnida), II, b 259, b 260
Tubs (Dairy), VI, b 680
Tub-size, gelatin (Paper), XVIII, a b 226, b 228
Tubu, tribes. See Tibbus
Tubular boilers (Steam-Engine) (Ill.), XXII, a 519–22; hot-house (Horticulture) (Ill.), XII, a b 235–6
—— Cranes, VI, b 485
Tubularia, genus (Hydrozoa) (Ill.), XII, b 580, a 582, a 594; reconstructive power of (Pathology), XVIII, a 368
Tubular shells (Bridges), IV, b 293-4
Tubulifera (Protozoa), XIX, a 863
Tubulina (Protozoa), XIX, a 863
Tubulosa (Corals) (Ill.), VI, b 334, b 337
TUCKER, Abraham, moralist, XXIII, a b 641; (Ethics), VIII, *b* 532 note
TUCKER, Beverly, politician, XXIII, b 947
TUCKER, David Hunter, physician, XXIII, b 947
TUCKER, George, historian, XXIII, a 947
TUCKER, Henry St. George, jurist, XXIII, a b 947
TUCKER, Josiah, dean, economist, XXIII, b 641, b 946–7; (Political Economy), XIX, a 378; (Turgot), XXIII, a 670
TUCKER, Nathaniel Beverly, jurist, XXIII, b 947
TUCKER, St. George, jurist, XXIII, a 947
TUCKER, Thomas, Tudor, treasurer, XXIII, a 947
TUCKERMAN, Edward, botanist, XXIII, a 948
TUCKERMAN, Henry Theodore, critic, XXIII, b 947
TUCKERMAN, Joseph, philanthropist, XXIII, b 947–8
——, historian (Greece), XI, a 76, a 81
Tuckernuck bank, marine platform (Nantucket), XVII, a 181
Tucker's Locks (Ill.), XIV, a b 754
Tuckey, James Hingston, explorer (Africa), I, b 220, b 227; (Geography), X, b 171
TUCSON, city, XXIII, b 641
Tucum (Fibres, Textile), IX, a 116
TUCUMAN, town, XXIII, b 641; (Argentine Republic), II, a b 431, a 432
TUDELA, city, XXIII, b 641; (Navarra), XVII, b 256
——, Benjamin de, traveller. See Benjamin
Tuder or Todi, town (Umbria), XXIII, b 771, a 772
Tudor family (Grey, Lady J.), XI, a 172; (York), XXIV, b 790, a b 791
——, Frederick, merchant (Ice), XII, a 649
——, Owen (Catherine Valois), V, a 207
——, Owen Meredith, chieftain (Henry VII., England), XI, b 590
TUDOR, William, author, XXIII, a 948; (Periodicals), XVIII, b 555
—— arch (Building), IV, *b* 424
—— Crowns, VI, a b 548
—— deputies (Ireland), XIII, b 268
—— English language, VIII, b 350, b 355–7, 359, a 360
—— kings (Finance), IX, b 154, a 155; (England), VIII, a 295–308. See Tudor family, and names of Tudor sovereigns
—— medals (Numismatics), XVII, b 674
Tu-Duc, king, Annam (Tong-King), XXIII, *a* 469, a 470
Tuedian rocks (Northumberland), XVII, *a* 579
Tueura, town (Truro), XXIII, a 633
Tufa or Tuff rocks (Brocchi), IV, b 322; (Catacombs), V, b 185: (Geology), X, a 214, a 216, a 217, a b 278; (Herculaneum), XI, a 647; (Latium), XIV, a 344; (Rome), XX, a b 825, a b 827, b 830; calcareous (Mineralogy), XVI, a 414; cones (Geology), X, *b* 224; masonry (Building), IV, a b 419, a 420
Tufts college (Medford), XV, b 787–8
Tugela, river, Zululand, XXIV, a b 866, *a* b 868
Tughlak dynasty (India), XII, a b 832
—— Timúr, chief (Timur), XXIII, a 426; (Turkestan), b 680
Tughril-Beg, Seljuk sultan (Egypt), VII, a 652
Tuileries, palace (Architecture), II, b 386; (Paris), XVIII, a 280, a 281, b 296, b 297, b 299, b 300; (Pétion de Villeneuve), b 716
Tuition fees (Sophists), XXII, a 281, a b 282, b 283; American (Universities), XXIII, b 962
Tuke, Sir Brian, postmaster (Post-Office), XIX, a 578
TUKE, Henry, moralist, XXIII, a 642
TUKE, Samuel, philanthropist, XXIII, a 642
TUKE, William, philanthropist, XXIII, a 642; (Insanity), XIII, b 116
Tukhanoff island (Kieff), XIV, b 71
Tukhara or Tokharistan, country (Afghânistân), I, *b* 218-9
——, people (Hwen T'sang), XII, b 434
Tukiu, people (Siberia), XXII, b 16; (Turks), XXIII, a b 701
Túl, pass (Hindú Kúsh), XI, b 748
TULA, government, XXIII, a 642–3; statistics (Russia), XXI, a 76; town, a 643; arsenal (Colt), VI, b 149
——, city (Mexico), XVI, a b 216
TULANE, Paul, philanthropist, XXIII, a 948
—— University, XXIII, a b 954, a 961
Tulare lake (California), IV, a b 618
Tulasne, Louis René, botanist (Lichens), XIV, a 559, a b 560
Tulbagh, Ryk van, governor (Hottentots), XII, a 325 note
Tulchan bishops (Episcopacy), VIII, b 434
Tulé, Khan (Jenghiz), XIII, *b* 632, *a* 633
Tulha, ruined town (America), I, *a* 618
TULIP, plant, XXIII, a b 643; (Botany), IV, *a* 88, a 94, *a* 114, b 122, b 124, b 127, b 139; (Horticulture), XII, a 260, a b 268
—— mania (Horticulture), XII, a 268; (Tulip), XXIII, b 643
—— -root, disease (Agriculture), I, b 320
—— tree (Arboriculture), II, b 280; (Botany), IV, a 100, a 106, b 128; (Distribution), VII, b 249; (Magnolia), XV, a 286; forests (United States), XXIII, a b 860; wood (Rosewood), XX, b 874
Tulk, A., naturalist (Arachnida), II, a 242, *a* b 244
Tull, Jethro (Agriculture), I, a 267–8, a 286, b 304, b 316
TULLE, town, XXIII, b 643
TULLE, lace, XXIII, b 643–4; (Calais), IV, b 578
Tulley, London (Microscope), XVI, b 272
Tullianum or Mamertine prison (Rome) (Ill.), XX, b 827, a b 833
Tullin, Christian Braumann, poet (Denmark), VII, b 79; (Norway), XVII, a 604
Tullio, Marco, pretender (Portugal), XIX, b 562
TULLOCH, John, theologian, XXIII, a 644. See List of Contributors

Tullow, town (Carlow), V, *a* b 98
TULLUS HOSTILIUS, Roman king, XXIII, a 644; (Rome), XX, *a* 750, b 752
Tully, Richard, author (Tripoli), XXIII, b 612 note
Tullyhaw, barony (Cavan), V, *b* 229
Tulom river (Lapland), XIV, a 305
Tulsi plant (Incense), XII, a 759
Tulsī-Dās, poet (Hindustani Literature), XI, *a* b 755
Tultcha channel (Danube), VI, b 721
Tuluges, synods of, 1027 and 1041 (Truce of God), XXIII, a b 628
Túlúnids, dynasty, Egypt (Mohammedanism), XVI, b 608. See Tooloon
Tumac Humac, mountains (Guiana), XI, a 225
Tumán, coin (Persia), XVIII, a 633
Tumat river (Senaar), XXI, *b* 689
Tumbago, alloy (Mexico), XVI, b 229
Tumbeki Tobacco, XXIII, b 451
Tumbler, pigeon (Dove), VII, b 328
Tumblers in Lock (Ill.), XIV, *b* 750-2
Tumboyonkon, mountain (Sabah), XXI, b 131
Tumbrel, punishment (Pillory), XIX, b 104
TUMKUR, district, XXIII, a b 644; town, b 644
Tumlook, town. See Tamluk
Tummel loch (Lake), XIV, a 218, *a* 220; (Perth), XVIII, b 678
Tummo or War mountains (Sahara), XXI, b 157
Tumor, cerebral (Paralysis), XVIII, a b 260; (Phrenology), b 862 note; epithelial (Pathology), a 386; secondary thyroid (Pathology), b 393
Tumors (Insanity), XIII, b 107, a 108; (Medicine), XV, b 805; (Nævus), XVII, a 170; (Ophthalmology), b 805, b 806; (Pathology), XVIII, b 373-9; (Surgery), XXII, a 722-3; (Throat Diseases), XXIII, *a* 341, a 342; anthrax (Murrain), XVII, b 64; bladder (Vesical Diseases), XXIV, b 206; infection of (Pathology), XVIII, b 411; pleural (Surgery), XXII, a 725; sacral (Monster), XVI, b 792; uterine (Surgery), XXII, b 726-7
Tumsal, town (Bhandárá), III, b 542
Tumuli, mounds (America), I, a 608; (Architecture) (Ill.), II, a 336; (Barrows), III, b 342-4; (Carnac), V, b 104
Tún, town (Persia), XVIII, a 638, a 639
Tun, Great (Heidelberg), XI, b 556
TUNBRIDGE, town, XXIII, b 644
TUNBRIDGE WELLS, XXIII, b 644-5; (Mineral Waters), XVI, b 453
"Tundra," Siberian (Polar Regions), XIX, a 341; (Siberia), XXII, a 6, b 7; (Tobolsk), XXIII, b 457; (Ural Mountains), XXIV, *a* 8; (Yakutsk), a 762, a 763; (Yeniseisk), *a* b 779, a 780; flora and fauna of (Russia), XXI, *a* 84, a 85
Tune, organ of (Phrenology), XVIII, a 860
Tunes, hymn (Music), XVII, b 92
Tungabhadra, river (Kádúr), XIII, b 824; (Karnúl), XIV, b 7; (Shimoga), XXI, a 840
Tungani revolt (Kashgar), XIV, b 10
Tungbhadrá river (Bállari), III, b 247
Tung-che, emperor (China), V, b 566, *a* 567
T'UNG-CHOU, city, XXIII, a 645
Tunghi bay and town (Zanzibar), XXIV, *a* 806
Tung Keang, river (China), V, b 555
Tung-kwan, pass (China), V, a 552, a 561, a 562; town (China), a b 554
Tung-nan or Foo-new Shan, mountains (China), V, b 547-8
Tungri, Belgic foot of the (Weights and Measures), XXIV, a 509, *b* 511, a 512
Tungstates, salts (Chemistry), V, b 469; (Mineralogy), XVI, a b 420; (Tungsten), XXIII, b 645, a 646
TUNGSTEN, metallic element, XXIII, a 645-6; (Chemistry), V, a b 469; (Mineralogy), XVI, b 404; iron (Iron), XIII, a 361; steel (Iron), b 290, a 362
Tungstic acid (Tungsten), XXIII, b 645, a 646
Tungstite (Mineralogy), XVI, b 404
Tung-ting, lake (China), V, a b 548, b 549, *b* 553
Tunguragua, mountain (Ecuador), VII, *a* b 559, a 561
TUNGUSES, people, XXIII, a b 646; (Maritime Province), XV, b 555; (Oath), XVII, a 718; (Russia), XXI, *a* 75; (Siberia), XXII, b 13; (Transbaikalia), XXIII, *a* 543; (Yakutsk), XXIV, *b* 761, *b* 762, a 763; (Yeniseisk), a 779, a 780
Tungusic Dictionary, VII, a 167; language (Ural Altaic), XXIV, *b* 5, a *b* 6
Tunguska, rivers (Siberia), XXII, a b 9; (Tunguses), XXIII, a 646; Podkamennaya, river (Yeniseisk), XXIV, a b 779
Tungusskiy ridge (Yeniseisk), XXIV, a 779
Tungzorun, mountain (Caucasus), V, b 220
Tunic (Costume), VI, a b 408, b 409, *b* 411
Tunica, membrane (Nutrition), XVII, b 687
——, Roman (Costume), VI, a *b* 403, *a* *b* 404
TUNICATA (Ill.), XXIII, a 647-58
    ascidiacea (Ill.), a 656-8
        compositæ, b 656-7
TUNICATA, *continued*
        salpifermes, a 657-8
        simplices, a b 656
    bibliography, b 658
    branchial sac and connected organs (Ill.), b 649-50
    digestive and excretory organs, a 651
    embryology (Ill.), a b 652
    external characters (Ill.), a 648-50
    history, a 647-8
    larvacea (Ill.), a 653-4
    larval stage, b 652-3
    mantle (Ill.), a b 649
    nervous system, b 650-1
    phylogeny, a b 658
    reproduction, b 651-2
    test, b 648-9
    thaliacea (Ill.), a 654-6
        cyclomyaria, a 654-5
        hemimyaria, a 655-6
    vascular system, a b 651
—— (Animal Kingdom), II, *a* b 48; (Brachiopoda), IV, *a* 170; (Histology), XII, b 9, note; (Mollusca), XVI, *a* 655; (Reproduction), XX, a 421, b 426, a 432; (Vertebrata), XXIV, b 193-4, a *b* 195; parasites of (Protozoa), XIX, b 877
Tunicine, chemical substance (Tunicata), XXIII, b 647, b 648
Tuning Bells, III, a 464
—— by beats (Acoustics), I, a 110
TUNING-FORK, XXIII, a b 659; (Acoustics), I, *b* 105, a 109, a b 110, a b 111; (Music), XVII, a b 111; Lissajoux's (Mechanics), XV, b 719
—— reeds (Harmonium), XI, *a* 432
TUNIS, regency, XXIII, b 659-61
    climate, a 660
    French conquest, b 661
    history, b 660-1
    natural products, a 660
    people, a b 660
    physical features, b 659-60
    reference works, b 661
—— (Africa), I, a 236, b 237-8; (Forests), IX, *a* 359; (Numismatics), XVII, a 679; conquest of (Turkey), XXIII, b 685
TUNIS, city, XXIII, b 661-2
Tunisian Army, II, a 541
Tunka Alps, mountain (Siberia), XXII, b 7
Tunkers, sect. See DUNKERS
Tunnel-head (Iron) (Ill.), XIII, b 304, b 315-6
TUNNELLING (Ill.), XXIII, a 662-5
    ancient engineering, b 662-3
    long tunnels, a 665
    mountains, a 664-5
    natural excavations, b 662
    sorts of, a 662
    subaqueous work, b 663-4
    towns, a b 665
—— (Blasting), III, a 702; (Mining), XVI, b 478, a 479; (Railway) (Ill.), XX, b 241-2, b 248, a b 249
Tunnels (Ispahán), XIII, b 404; (Japan), b 535-6; (Jerusalem), a 649; in Andes Mountains (Peru), XVIII, b 688; Harecastle (Canal), IV, a 692; Hudson River (New York), XVII, b 478; Thames (London), XIV, b 832
TUNNY, fish (Ill.), XXIII, b 665-6; (Ichthyology), XII, b 728; fishery (Italy), XIII, a 465
TUNSTALL, town, XXIII, a 666
——, bishop. See Tonstall
——, Marmaduke, naturalist (Ornithology), XVIII, b 13
Tuolumne valley (California), IV, a 619, a 620, b 621
Tupac Amarú, Inca (Bolivia), IV, b 16; (Peru), XVIII, a b 691, b 693
Tupaiidæ, family (Mammalia), XV, b 405-6
Tuphium or Tód, town (Egypt), VII, b 678
Tupi Dictionaries, VII, a 168
——, race (Indians), XII, *a* b 869; (Peru), XVIII, a 690
—— Guarani, Indians (Brazil), IV, a 211
Tupinambas, Indians (Brazil), IV, b 205, a 211
Tupinoquins, Indians (Brazil), IV, *b* 205
Tupman, Captain, astronomer (Zodiacal Light), XXIV, a 836, a 837
Tups, hammer blocks (Iron), XIII, b 336
Tupungato, mountain (Chili), V, *b* 535
Tura river (Tyumeñ), XXIII, *b* 761
—— or Troja, village (Egypt), VII, a 671
Túr 'Abdîn mountains (Semitic Languages), XXI, *b* 681
Turacin, pigment (Touraco), XXIII, b 518, note
Turacus, genus (Touraco) (Ill.), XXIII, a 518-9
Túrán Bágh, village (Ormus), XVII, *b* 881
Turanian basin (Turkestan), XXIII, a b 674
TURANIAN Languages, XXIII, a 666; (Alphabet), I, a b 531, b 534; (Corea), VI, b 348; (Hungary), XII, b 389; (Philology), XVIII, b 792-3; (Ural-Altaic), XXIV, a 5
Turanians, race (Hungary), XII, a 382
Turateya, district (Celebes), V, a 251
Turba, town (Tarbes), XXIII, a 67
Turban, head dress (Egypt), VII, b 627; (Persia), XVIII, b 641
Turba Philosophorum (Alchemy), I, b 409, b 411, b 413
Turbary, Common of, VI, a 187
Turbellaria, group of worms (Animal Kingdom), II, *b* 46, *a* 47; (Nemertines), XVII, a b 335; (Planarians) (Ill.), XIX, b 180-5
Turberville, George (Epigrams), VIII, a 425
Turbinated bone (Anatomy), I, b 722, *b* 723, a 724

Turbinella, mollusc (Pearl), XVIII, a 459, note
Turbines (Hydromechanics) (Ill.), XII, *b* 454, a 550, a 555–64; designing, a 561–2; guide blades, b 558 9, a 561, b 562–3; impulse, a b 555, a 562–4; reaction (Ill.), a b 555, a 558–62; velocity of, a 559, a b 560, b 561, b 563–4
——, steam (Steam-Engine), XXII, b 542
Turbinelidæ, family (Corals) (Ill.), VI, a 332, *a* 333, *b* 336, *a* 337
Turbit, pigeon (Dove), VII, b 328
TURBOT, fish, XXIII, a b 666; (Fisheries), IX, b 216; (Ichthyology), XII, b 730
Turcaret, drama (Le Sage), XIV, *b* 472, *a* b 473, a 474
Turcies, dykes (Loire), XIV, a 816
Turco, bird (Tapaculo), XXIII, b 54
Turcomania, country (Merv), XVI, b 46; Southwest (Transcaspian), XXIII, a 545.
Turcomans, people (Asia Minor), II, a 622; (Khiva), XIV, b 64, a 65, a 66; (Khorasan), *a* 69; (Merv), XVI, *b* 46, *a* 47, a *b* 48, a 49. (Mesopotamia), b 54; (Transcaspian), XXIII, *a* b 545; (Turkestan), b 677; (Turks), b 703
Turco-Tatars, race (Russia), XXI, *a* 75, a 87, a b 88
Turdidæ, family (Ornithology), XVIII, b 34 note, *b* 51–2; (Thrush), XXIII, a 343; (Warbler), XXIV, *a* 387, b 388
Turdus, genus (Bird), III, b 665, a 672; (Redwing), XX, b 331
TURENNE, Henri de la Tour d'Auvergne, Vicomte de, general, XXIII, b 666–7; (Condé the Great), VI, b 218, a *b* 219, *a* *b* 220; (France), IX, *b* 503, *b* 504, *a* 505, b 507, *a* *b* 508; (Montecuculi), XVI, a 805
Turf Club (Whist), XXIV, b 576
—— mosses (Muscineæ), XVII, a 80
TURGAI, province, XXIII, b 667–8; (Russia), XXI, b 76: river, XXIII, b 667
Turgeneff, Ivan, novelist. See Tourguenieff
Turges, viking (Ireland), XIII, a b 257
Turgescence, movement of (Pathology), XVIII, a 409
Turgite (Mineralogy), XVI, b 403
TURGOT, Anne Robert Jacques, Marquis de l'Aulne, economist, XXIII, a 668-70; (Comte), VI, b 204, a 205; (Condorcet), b 225, a 226; (France), IX, a b 523, a 587; (Limoges), XIV, b 657, b 658; (Montesquieu), XVI, a 810; (Political Economy), XIX, *b* 373, a *b* 374, b 375, a *b* 378, a 409; (Vergniaud), XXIV, a 178
——, St., bishop (St. Andrews), XXI, a b 166; (Scotland), b 503, a 504
Turguts, race (Calmucks), IV, *a* 629. See Torgod
Turia or Guadalaviar, river (Valencia), XXIV, a *b* 39
TURIN, city (Plan), XXIII, b 670–1; (Italy), XIII, b 450; (Libraries), XIV, b 529, a 551; (Newspapers), XVII, *a* 442; (Observatory), a 734; Academy of Sciences, I, b 68, b 75; (Lagrange), XIV, a b 208; battle of, 1706 (Eugene, Prince), VIII, a 580; gallery (Huchtenburg), XII, b 343; (Schools of Painting), XXI, b 467
—— *Gloss on Corpus Juris Civilis* (Gloss), X, b 612; *Papyrus of Kings* (Egypt), VII, b 632, b 633, b 634, note, a 635, note, a b 636 note, a b 637
Turio, shoot (Botany), IV, a 86
Turka, spa (Transbaikalia), XXIII, b 542
TURKESTAN, country, XXIII, a 671–81
  bibliography, a b 681
  Central Asia, meaning of, a 671–2
  EAST TURKESTAN, a 673, a 678–81
    boundaries, a b 678
    deserts, a 679
    history, a 680–1
    oases, b 679–80
    population, a 680
    products, b 679
    surface, a 673, b 678
    Tarim river, b 678–9
    great plateaus, a 672–3
  WEST TURKESTAN, a b 672, a 673–8
    cities, b 677–8
    climate, b 675
    desiccation, b 674–5
    ethnography, b 677
    fauna, b 675–6
    flora, a 676–7
    geology, a b 675
    highland districts, b 673–4
    industrial features, a 677
    lowland plains, a b 674
    Russian influence, a 678
    surface, a 672–3
    Tian-shan basins, a 674
—— (Alp Arslan), I, a 527; (Asia), II, b 599; (Fire), IX, a 202 note; (Jade), XIII, b 549; (Tashkend), XXIII, a 78; statistics of (Russia), XXI, b 76, a 78, b 110; Eastern (China), V, a 565; mountains (Syr-Daria), XXII, a 859; (Zerafshan), XXIV, *a* 820
TURKEY or Ottoman Empire (Plate), XXIII, a 681–99
  GEOGRAPHY AND STATISTICS, a 694–7
    African territories, b 695–6
    Asiatic Turkey, b 694–5
    commerce, b 696
    communications, a b 697
    European Turkey, a b 694
TURKEY, *continued*
  GEOGRAPHY AND STATISTICS
    imperial features, a 696–7
    military system, a 697
  HISTORY, a 681–94
    'Abd ul Mejíd, sultan, a 692–3
    Ahmed I., b 685
    Ahmed II., a b 687
    Ahmed III., b 687–8
    Báyezid I., b 682
    Báyezid II., b 683–4
    Crimea, Russian conquest of, b 688
    Crimean war, b 692
    Greek revolt, a b 690
    Ibráhim, sultan, b 686
    Mahmúd I., a 688
    Mahmúd II., a 690
    Mehemet Ali's campaigns, b 690–2
    Muhammed I., b 682–3
    Muhammed II., a b 683
    Muhammed III., b 685
    Muhammed IV., b 686–7
    Murád I., a b 682
    Murád, II., a 683
    Murád III., b 685
    Murád IV., a b 686
    Mustafa I., a 686
    Mustafa II., b 687
    Mustafa III., b 688
    Orkhan, sultan, a 682
    'Osmán II., a 686
    Ottoman power founded, b 681–2
    reference books, b 693
    rise of the 'Osmánli, a b 681
    Russian alliance, b 691–2
    Russian war, 1877–1878, a b 693
    Russo-Austrian war, a 689
    Selím I., a b 684
    Selim II, a b 685
    Selim III., period of, a b 689
    Suleymán I., b 684–5; II., a 687
    sultans, list of, b 693–4
  LITERATURE, b 697–9
    classical period, b 698–9
    general character, b 697–8
    pre-classical period, a b 698
    reference books, b 699
    transition to modern school, a b 699
—— (Ambassador), I, b 578; (Coal), VI, b 55; (Cobden), a 81; (Consul), *a* b 281; (Cotton), b 430; (Dalling), a b 689; (Egypt), VII, a b 613, b 629; (Fezzan), IX, b 113, a 114; (Finance), a 150; (Fire), a b 203; (Forests), a 350; (Foundling Hospitals), b 426; (France), a 549; (Gourd), XI, b 5, a 6; (Ibrahim Pasha), XII, a b 645; (International Law), XIII, a b 198, b 199; (Jews), a b 697; (Kúrdistán), XIV, b 160–1; (Metternich), XVI, a 208, a 210; (Mosque), a 894; (Napoleon I.), XVII, a 207, *a* b 208; (National Debt), b 251, a b 253, a b 254; (Newspapers), a 443; (Nicholas I.), b 498, a 499; (Opium), b 810, a b 811; (Palmerston), XVIII, b 198–9; (Persia), b 623, b 624, b 625, b 626–7; (Press Laws), XIX, a 733; (Railway), XX, a 263; (Seljuks), XXI, a 666-9; (Venice), XXIV, a b 156–7; (Weights and Measures), b 518
——, law of (Patents), XVIII, b 363; reforms in (Abdul Medjid), I, b 35-6; war with (Persia), XVIII, b 659–60; in seventeenth century, works on (Rycaut), XXI, *b* 125. See Osmanli, Ottoman
TURKEY, bird, XXIII, a 669–700; (Cameo), IV, a 654; (Poultry), XIX, b 666–7; olfactory nerves of (Smell), XXII, b 176
—— -buzzards (Vera Cruz), XXIV, a 177; (Vulture), *b* 322
—— Carpets, V, *a* b 113–4, a 116
—— corn (Maize), XV, a 311
—— oil-stone (Hone), XII, a b 138
—— red (Calico-Printing), IV, b 610–1; (Dyeing), VII, b 497
Turki dialects (Turks), XXIII, b 703
—— tribes (Asia), II, a 600
Turkic language (Ural Altaic), XXIV, a b 5, b 6
Turkish administration (Greece), XI, a b 109, a b 110; aggressions (Persia), XVIII, b 651, b 652
—— Army, II, b 539-41
—— Baths, III, a b 378, a 379, b 381; (Hydropathy), XII, a 576, a 577
—— Cemeteries, V, b 288; character (Egypt), VII, b 615, note; Compass, VI, b 202; corruption (Sunnites), XXII, b 696, b 697
—— Dictionaries, VII, a 164
—— Fairs, VIII, a 743; horsemen (Cavalry), V, b 228; incursions (China), *a* 561; invasions (Arabia), II, b 227, a b 228, a b 229
—— language (Anthropology), II, b 106; (Grammar), XI, b 35; (Philology), XVIII, a 793; (Turks), XXIII, a b 702, note, a b 703–4; Romani speech (Gipsies), X, b 547–8
—— possessions (Africa), I, *b* 237, *a* b 238; soldiers (Mohammedanism), XVI, b 604, a 607; wars, seventeenth century (Smith, John), XXII, a b 184; with Russia, XXI, b 107–8, a b 110; with Venice, XXIV, b 158-9
Turkomans, people. See Turcomans

Turkoman watch Dog, VII, a 283
TURKS, people, XXIII, b 700-4
  - bibliography, b 704
  - Comans, tribes, a 702
  - Ghuzz tribes, a 702
  - Hiong-nu tribes, b 700-1
  - Khārizm empire, b 702
  - language, b 703-4
  - modern races, b 702-3
  - origin, b 700
  - Osmanlis, b 703
  - Petchenegs, b 701-2
  - Tu-kiu tribes, a b 701
  - Turkmans, tribes, a b 702, a 703
  - Uigurs, b 701

—— (Abbassides), I, a 16, (Africa), a 235; (Algeria), *b* 497, b 498, a b 499; (Asia), II, a 609, b 611; (Athens), III, a b 11; (Constantinople), VI, b 274-5; (Corfu), b 351-2; (Crete), b 505, *a* 506; (Crimea), b 519; (Cyprus), b 661; (Czerny George), b 666; (Egypt), VII, b 626, b 627, a 652, *b* 657-9, *a* b 660; (Ferdinand I.), IX, a 68; (Ferdinand I., Naples), a 69; (Fortification), a 380; (France). a 491; (Greece), XI, b 107-12; (Herzegovina), b 692, *b* 693, *a* 694; (Hungary), XII, *a b* 383, a b 384, a 385; (Iconium), b 735; (Jenghiz), XIII, b 633; (John, Don), b 727-8; (Khazars), XIV, a b 61, a b 62; (Malta), XV, *b* 345; (Mesopotamia), XVI, b 53, b 56; (Mohács), a 568; (Mohammedanism), b 610, b 611; (Montenegro), b 807; (Mongols), a 775; (Numismatics), XVII, *b* 678, a 679; (Persia), XVIII, a 594 note; (Siberia), XXII, b 13; (Syria), a b 862; (Tajak), XXIII, a 30; (Tartars), a 76; (Yeniseisk), XXIV, a 780
——, introduction in Europe (Cantacuzenus), V, b 25-6; invasions (Leopold I., Emperor), XIV, b 466-7; (Poland), XIX, b 307-8; (Germany), X, b 450; military character of, II, b 539, b 540; Seljuk (Crusades), VI, a 550; (Greece), XI, b 103, a *b* 105-6, b 107. See Osmanli, Ottoman, SELJUKS, TURKEY
Turk's head (Seamanship) (Ill.), XXI, a 619
—— Head club (Burke), IV, b 484
—— island (Jamaica), XIII, b 558
Turloughs, blind lakes (Ireland), XIII, b 222
TURMERIC, root, XXIII, b 704-5
Turmerol, alcohol (Turmeric), XXIII, b 704
TURNBULL, Charles N., merchant, XXIII, b 948
TURNBULL, Robert, clergyman, XXIII, b 948
TURNBULL, Robert James, nullification leader, XXIII, b 948
TURNBULL, William, engineer, XXIII, b 948
——, William, bishop (Glasgow), X, b 569
Turnbull's blue (Calico-Printing), IV, a 614; (Chemistry), V, b 481; (Prussic Acid), XX, *a* b 29
—— Tables (Annuities), II, a 66, note, a 67
Turndun, charm (Mythology), XVII, b 158
Turnèbe, O. de, dramatist (Drama), VII, b 366, note
Turnebus, Adrien, philologist (Scaliger), XXI, *b* 378; (Sophocles), XXII, b 287
TURNER, Charles, engraver, XXIII, a 705
——, Ellen, Miss (Wakefield), XXIV, b 339
——, H. N., naturalist (Ornithology), XVIII, a 16
TURNER, Joseph Mallord William, painter, XXIII, a 705-10
  - academician, becomes an, a b 706
  - begins oil painting, b 705
  - continental tours, early, b 706
  - *Crossing the Brook* period, a b 708
  - Devonshire visit, b 707
  - early magazine work, b 705
  - engraving, influence on, b 708
  - imaginative quality, b 707
  - Italian visit, 3d, b 708-9
  - last period, a b 709
  - *Liber Studiorum* pictures, b 706-7
  - parentage and training, a 705
  - personal characteristics, b 709-10
  - Twickenham residence, a 708
  - water color collections, b 708

—— (Claude), V, a 712; (Engraving), VIII, a b 394, a 395; (Méryon), XVI, a 50; (Miller, William),. b 332-3; (Painting), XVIII, *a* 144; (Rousseau, T.), XXI, a 33; (Schools of Painting) (Ill.), b 461, b 464, b 465
——, Richard, reformer (Temperance), XXIII, b 174
——, Samuel, traveller (Bhután), III, b 545
TURNER, Samuel Hulbeart, Hebraist, XXIII, b 948-9
——, Sharon, historian (Knighthood), XIV, b 112; (London), a 853
——, William, naturalist (Ornithology), XVIII, b 7, note; (Shrike), XXI, *a* 885
TURNER, William Wadden, philologist, XXIII, a 949
Turnerite (Mineralogy), XVI, b 420
TURNHOUT, town, XXIII, a 710
Turnicomorphæ (Ornithology), XVIII, b 39, b 49
Turning point (Magnetism), XV, b 255
—— rifle barrels (Gunmaking), XI, b 251
—— tools (Lathe) (Ill.), XIV, a b 325; (Machine Tools) (Ill.), XV, a b 155
Turnip cabbage, plant (Horticulture), XII, b 295
—— cutters (Agriculture), I, b 290-1
TURNIP-FLY or Turnip-flea (Ill.), XXIII, a b 710; (Agriculture), I, b 267, b 326; (Coleoptera), VI, a 121; (Horticulture), XII, b 301
—— -pulpers (Agriculture), I, a 291
Turnips, root-crop (Agriculture), I, *a* 265, b 266, b 267-8, a 270, a *b* 302, *b* 309, b 311, a 325; (Botany), IV, *b* 84; (Horticulture), XII, a b 301
Turnip Saw-Fly, XXI, b 358
—— -seed (Adulteration), I. a 159; (Agriculture), b 340-1
—— thinners (Agriculture), I, b 286, a 326
Turnix, genus (Birds), III, a 624; (Quail), XX, b 153-4
Turnour, George, orientalist (Ceylon), V, a 316, b 318; (Pâli), XVIII, b 188, a 189
Turn-outs, passing places (Tramway), XXIII, a 539
Turnpikes (Highways), XI, a b 725; (London), XIV, b 861-2; Toll, XXIII, b 464, a 465
Turnplätze, schools (Gymnastics), XI, b 311
Turnsole, plant. See HELIOTROPE
Turnspit (Dog), VII, b 287
TURNSTONE, bird, XXIII, b 710-1
Turn-tables (Railway) (Ill.), XX, a 247; Clausthal (Metallurgy), XVI, a b 64
Turnus of Ardea, king (Rome), XX, a 753
Turold, troubadour (English Literature), VIII, b 363
Turones, tribe (Tours), XXIII, b 522
Turonian cretaceous (Geology), X, b 318
TURPENTINE, XXIII, a b 711; (Forests), IX, a 353; (Larch), XIV, b 310-1; (Oils), XVII, a b 769, a b 770; (Pine), XIX, b 112, a b 113, *a* b 114; (Rosin), XX, b 875; oil (Chemistry), V, b 485; (Fir), IX, b 194, b 195; (Fuel), a 709; Strasburg (Fir), b 195; solvent (Varnish), XXIV, *b* 99, a 100
Turpethum minerale (Mercury), XVI, a 38
TURPIN, archbishop, XXIII, b 711-2; (Romance), XX, a *b* 666, *a* b 667, a 668; *History of* (Roland), XX, *a* 642
TURQUOISE, gem, XXIII, a b 712; (Mineralogy), XVI, b 422; (New Mexico), XVII, b 410; (Persia), XVIII, a 633
Turrecremata, Johannes de, cardinal. See Torquemada 642
Turret (Fortification) (Plate X), IX, a b 400
—— Clocks (Ill.), VI, a b 22, *a* 23, a 27-31
TURRETIN, Benoit, theologian, XXIII, b 712
TURRETIN, François, theologian, XXIII, b 712; (Dogmatic), VII, b 288, a b 296
TURRETIN, Jean Alphonse, theologian, XXIII, b 712-3
Turret ships (Gunnery), XI, a 279; (Navy), XVII, b 293-4, 296; (Osborn), XVIII, a 58
Tursio, cetacean (Mammalia), XV, b 403
Turtle-back deck (Navy), XVII, b 205
Turtle-Dove, VII, a 329
Turtles (Brazil), IV, b 204, b 215; (Distribution), VII, a 244; (Mexico), XVI, a 910; (Reptiles), XX, b 453, notes, b 457, a b 459, b 461-2, a b 465, b 468, a b 469, *a* b 478, a b 479, *b* 480, a b 481; (Tortoise), XXIII, a b 484; leathery (Australia), III, b 97
Turukhansk, town (Yeniseisk), XXIV, b 779, a b 780
Turunchuk channel (Dniester), VII, b 266
Turyassú, river (Brazil), IV, b 199
Tús, town (Meṣhed), XVI, a 51 note
Tuscan Apennines, II, b 149; calendar (Pisa), XIX, a b 128 note; dialect (Italy), XIII, a 502, a 507-8, a 511
—— order in Architecture (Plate XXIV), II, b 382, *b* 384
—— poetry (Italy), XIII, a b 511, a b 512
TUSCANY, district, XXIII, a b 713; (Ferdinand III., Tuscany), IX, a 74; (Italy), XIII, b 447, b 450, a 482, b 484, a 485, a 486, a 487, a b 495, a b 498, a 511; (Leopold II., Emperor), XIV, a 467; (Medici), XV, a 794-804; (Monachism), XVI, a 740; (Siena), XXII, b 48; (Spain), a 351, *a* b 352; (Straw Manufactures), b 622; (Wine), XXIV, b 642
"Tuscarora" expedition (Pacific Ocean), XVIII, a b 124
Tuscaroras, tribe (New York), XVII, a 466
Tuscia, district (Tuscany), XXIII, a 713
TUSCULUM, city, XXIII, b 713-4; (Aqueduct), II, b 191; (Baths) (Ill.), III, b 376; (Rome), XX, a 753, b 759, b 764, b 811, a b 812; counts of (Italy), XIII, b 479, b 480, a 481; (Popedom), XIX, a 512; (Rome), XX, *a b* 808, b 809, b 812
Tush or Mosok language (Georgia), X, a 390
Tushes, incisors (Elephant), VIII, a 118
Tusk, fish (Fisheries), IX, *a* 229
Tusk (Boar), III, b 731-2; (Hippopotamus), XI, b 764; (Ivory), XIII, a 530-4; (Mammalia) (Ill.), XV, a b 353, a 354, a 402, b 428, note, a b 432; (Mammoth), a b 454; (Narwhal), XVII, b 241; (Swine), XXII, a b 811, note; (Walrus), XXIV, a b 358
Tussac or Tussock grass (Agriculture), I, a b 336; (Falkland Islands), IX, b 15

Tussaud, Madame, proprietress (Wax Figures), XXIV, b 486
Tusseh or Tussur moth (Butterflies), IV, a 530; (Silk) (Ill.), XXII, a b 66, a 67, b 70
Tusser, fabric (Hyderabad), XII, a 444. See Tusseh, moth
TUSSER, Thomas, poet, XXIII, a b 714; (Agriculture), I, b 264; (Land), XIV, a 265; (Leek), b 409, a 410 note; (Udall), XXIII, b 763
Tussidde mountain (Sahara), XXI, b 157
Tussock grass. See Tussac
Tutchkoff, town (Ismail), XIII, a 398
Tutela, town (Tudela), XXIII, a 642
—— Lemovicum, town (Tulle), XXIII, b 643
Tutelage (Roman Law), XX, a 690, a 704, b 705, a 706–7, b 709; (Women), XXIV, b 671, *a* 672, a 673
Tuticorin, town (Tinnevelli), XXIII, b 431
Tuti-nāmah (Hindustani Literature), XI, b 756
Tutiorists, casuists (Liguori), XIV, b 642
Tutor, in law (Infant), XIII, a 3, a 5; (Roman Law), XX, a 690, a b 706; (Women), XXIV, b 671, *a* 672
Tuttle, Herbert, historian (Prussia), XX, a 24
Tuttle's Comet, VI, a 173
Tutuila, island (Navigators' Islands), XVII, b 287
Tutulus, hat (Costume), VI, *b* 402, a 403
Tutul-Xius, tribe (America), I, a *b* 619
Tutush, sultan, Syria (Seljuks), XXI, a b 667–8
Tuuk, H. N. van der, orientalist (Battas), III, a 383
Tuxtla, mountain (Mexico), XVI, a 224, note
Tuyen-Kwan, town (Tong-King), XXIII, a b 470
Tuyeres in blast furnaces (Iron) (Ill.), XIII, b 304, a 305, a b 306, b 307, b 312–3; for converters (Iron), b 353, a 354
Tuz-Kane lakes (Syr-Daria), XXII, b 858
Tuzlah, salt lake (Asia Minor), II, a 615
Tuzulutlan, country (Las Casas), XIV, b 320
TVER, government, XXIII, b 714–5; (Russia), XXI, a 76, b 79, b 80, a 87, b 91, b 93, *a b* 99; town, XXIII, a 715; (Volga), XXIV, a 299, b 300, b 301
Twaddel's Hydrometer, XII, b 573
Twankay Tea, XXIII, a 106
Twardowski, Samuel, poet (Poland), XIX, b 313
Twa-tu-tia, town (Formosa), IX, a 367
Twayblade, plant (Botany) (Ill.), IV, a 120
TWEED, river, XXIII, b 715; (Berwick), III, a b 528; (Peebles), XVIII, a b 462; (Roxburgh), XXI, a *b* 39; (Scotland), *a* 546, a 547; (Selkirk), a 670
TWEED, William Marcy, swindler, XXIII, a b 949; (Tammany), b 920, a 921; ring, rascals (Newspapers), XVII, b 446; (New York), a 476; (Tammany Society), XXIII, b 920; (Tilden), b 413, note
—— cloth (Dumfries), VII, b 455; (Hawick), XI, a 477; (Scotland), XXI, b 557; (Wool), XXIV, a 697, a 698
Tweeddale (Peebles), XVIII, a 462; (Tweed), XXIII, b 715
Tweedmouth, village (Berwick upon Tweed), III, b 527, *a* 528
Tweed sheep farming (Agriculture), I, a 352–3
Tweedsmuir, district (Scotland), XXI, b 545
Twelfth century, events in, B.C. (Chronology), V, b 625; A.D. (Chronology), b 631–3
—— day or Epiphany, VIII, b 428
Twelfth Night, play (Illyria), XII, a 749; (Inns of Court), XIII, a 96; (Shakespeare), XXI, a 800, b 805
Twelfth stop (Organ), XVII, b 855, b 857
Twelve Labors of Hercules, XI, a 649
—— Pins of Connemara, mountain (Ireland), XIII, b 220
Twelve Songs (Jackson, W.), XIII, *a b* 545
—— *Tables*, code (Latin Language), XIV, a 329; (Roman Law), XX, a *b* 696, a 697–8, a b 700, note, a 701, a b 702, a 703, a 704, *b* 705, a b 706, *a* b 707, a *b* 708, a *b* 709, a b 710, a 712, a 719, note; (Rome), b 756; (Theft), XXIII, b 250; (Tribune), b 592, b 593; (Usury), XXIV, a 23; (Witchcraft), a 653
Twelve Thegns (Jury), XIII, a 794
—— Tribes of Israel (Palestine), XVIII, a 179. See ISRAEL
Twelve-wired bird (Birds of Paradise), III, a 676
TWENTY-FOUR PARGANAS, district, XXIII, b 715–6; (India), XII, b 840
Twenty Years After (Retz), XX, a 503
Twesten, August Detlev Christian, theologian (Logic), XIV, *a* 804 note, a b 809
Twice Told Tales (Hawthorne), XI, a *b* 480
Twici, William, huntsman (Hunting), XII, a 410
TWICKENHAM, town, XXIII, a b 716; (Pope), XIX, a 500; (Turner), XXIII, a 708
—— stock, plant (Horticulture), XII, a b 256
TWIGGS, David Emanuel, general, XXIII, b 949; (Sykes), XXII, b 941
TWIGGS, Levi, soldier, XXIII, b 949
TWILIGHT, XXIII, b 716; (Astronomy), II, a 673; (Light), XIV, a 582; duration of (Geography) (Ill.), X, b 178
Twiller, Wouter van, governor (New York), XVII, b 466
Twill weaving (Weaving), XXIV, b 490–1
Twin Crystals, VI, b 595; (Mineralogy) (Ill.), XVI, b 376–7, a 378–81, a 437, a 444
Twine manufacture (Rope), XX, b 867
Twin Monsters, XVI, b 791–2
Twinning, process (Comb), VI, b 159
Twin prism, condensing (Lighthouse) (Ill.), XIV, a 629, b 630
Twisted cubics (Geometry), X, b 365–6
Twisting (Mechanics), XV, a 751–2
—— in gun barrels (Gunmaking), XI, a b 247; of rifle groove (Gunmaking), (Plate IV), b 261–3
—— Tobacco, XXIII, a 454
Twite, bird (Linnet), XIV, a 682
Two-degree-freedom, particles with (Mechanics), XV, a 714–7
Two faces, Zodiacal sign, XXIV, a 833
Two-fluid theory (Magnetism), XV, a 278
Twofordton, town (Tiverton), XXIII, b 448
Two Gentlemen of Verona (Shakespeare), XXI, a 791, a b 799, b 805
Two Groups, islands (Tuamotu), XXIII, b 639 note
Two-half-hitches (Seamanship) (Ill.), XXI, a 618
Two-high train rollers (Iron) (Ill.), XIII, b 337–8
Two masses (Gravitation), XI, b 62–3
Two Noble Kinsmen, play (Beaumont and Fletcher), III, b 406
Two Sicilies, kingdom. See Naples, kingdom of
—— Thousand Guineas, Horse race, XII, a b 206
Ty or Tyr, god (Æsir), I, a 190
Tyana, town (Apollonius), II, a b 165; (Cappadocia), V, b 67
Tyanitis, district (Cappadocia), V, *b* 67
Tyard, Pontus de, poet (Ronsard), XX, b 863
Tyburn, stream and hill (London), XIV, b 827, a 834, b 855
Tyburnia, district (London), XIV, a 830
Tyche, deity (Fortuna), IX, a 414
——, quarter (Syracuse), XXII, b 854–5, *a* 856
Tycho Brahe, astronomer. See Brahe
Tychsen, Olhaus Gerhard, orientalist (Grotefend), XI, *a* 193
Tycoon or Taikun, ruler (Japan), XIII, a 594
Tydæa, genus of plants (Horticulture), XII, b 275–6
Tydfil, saint (Merthyr Tydfil), XVI, a 46
Tyldesley, Sir Thomas, soldier (Wigan), XXIV, b 592
TYLDESLEY with SHAKERLEY, town, XXIII, b 716
Tylenchus scandens, worm (Wheat), XXIV, b 566
TYLER, Bennet, theologian, XXIII, b 949–50
——, John, judge, XXIII, a 717
TYLER, John, President, XXIII, a 717; (United States), a 815; (Webster), XXIV, a b 499, note; (Whig), a 895
——, Moses Coit, critic (Wise), XXIV, *b* 906
TYLER, Royall, humorist, XXIII, a 950
TYLER, Samuel, jurist, XXIII, a b 950; (Taney), b 921
——, Wat, insurgent (England), VIII, a 287, a 292; (Richard II.), XX, a 556
Tyll Eulenspiegel. See EULENSPIEGEL
Tylopoda, group of mammals (Llama), XIV, b 744; (Mammalia), XV, a 436
Tylor, Edward Burnett, anthropologist (Animism), II, b 49, a b 50, a 51; (Dream), VII, *b* 391–2; (Ethnography), VIII, b 540, *a* 541, b 542, a 544, b 547, a 549; (Fasting), IX, b 40; (Jonah), XIII, b 747; (Lycanthropy), XV, *b* 92, *a* 93; (Mythology), XVII, b 150, b 152, b 156, b 165. See List of Contributors
Tylosis (Botany) (Ill.), IV, a 77; (Histology), XII, a 13
Tym, river (Saghalin), XXI, a b 155, *a* 156; (Tomsk), XXIII, a 467
Tympan in printing press (Typography), XXIII, b 750–1
Tympanum, instrument (Drum), VII, a 414
—— of ear (Anatomy), I, a b 783–4; (Ear), VII, *a* b 511; (Mammalia), XV, a b 370
—— of pediment (Architecture), II, a 419
Tymp arch (Iron), XIII, b 306
Tymphrestus, mount (Greece), XI, a 74
TYNDALE, William, translator, XXIII, a b 717; (Elyot), VIII, b 144; (England, Church of), b 335, a 337; (English Bible), a 344–5; (English Literature), a 372; (Frith), IX, b 693; his Bible burnt (Bibliography), III, a 570
Tyndall, John, physicist (England), VIII, b 205; (Geology), X, b 232; (Glacier), *a* b 562; (Magnetism), XV, b 266, *a* b 268, a 269; (Meteorology), XVI, b 190; (Smell), XXII, a 178; (Wave Theory), XXIV, b 479
Tyndall's respirator (Filter), IX, b 149
TYNE, river, XXIII, b 717–8; (Haddington), XI, b 322, *a* 323; (Hydromechanics), XII, b 530, b 531; (Newcastle), XVII, a 388; (Northumberland), b 578, *a b* 579, a b 580, *b* 581; (River Engineering) (Ill.), XX, *b* 593–4
——, battle of, 914 (Scotland), XXI, a 501

- TYNEMOUTH, borough, XXIII, a 718; (Northumberland), XVII, b 580, a 582
- Tyne piers (Diving), VII, b 259
- —— Ports (Shields), XXI, b 839
- Tyng, Dudley Atkins, clergyman, XXIII, b 950
- TYNG, Stephen Higginson, clergyman, XXIII, b 950
- ——, Stephen Higginson, Jr., clergyman, XXIII, b 950-1
- Tynwald, court of (Man), XV, *b* 459-6
- Type for the Blind, III, a 718-20
- ——, printing, book and job (Typography), XXIII, b 743-4; Chinese (Newspapers), XVII, a 444; parts of a (Typography) (Ill.), XXIII, b 742; case (Ill.), a b 745; casting machine, b 744-5; correcting, a 747; distributing, b 747; distributing machines (Ill.), b 747; engravers, American, b 744; founding, recent improvements in, a 756; making (Ill.), a 744-5
- —— metal (Antimony), II, a 114; (Founding), IX, a 423; (Typography), XXIII, a 744
- —— ornaments (Typography), XXIII, b 741; printing recorders (Telegraph) (Ill.), b 129-30
- Types, animal (Morphology), XVI, a b 865, a b 866; (Ornithology), XVIII, a 19; (Reproduction), XX, b 433; old doctrine of (Zoology), XXIV, b 841
- ——, printing (Bibliography), III, a 565; earliest (Typography)(Ill.), XXIII b 737-8; Dutch, a 733-6; German, b 729; Mainz, b 727; early names for, a 724; English, a 756; legibility of, b 756
- —— movable (China), V, b 575
- ——, sculpto-fusi (Typography), XXIII, b 736-7; size of, b 743; threaded, b 736, a 737; wooden, a b 736, a 744
- —— cast in clay moulds (Typography), XXIII, a b 737; in sand, a 737
- Type setting (Typography), XXIII, a b 745; machines for (Ill.), a 746-7
- Type of coins (Numismatics), XVII, *b* 645, a b 647-8; Roman (Numismatics), a b 670, b 671
- Type-writer (Blind), III, b 719; (Writing Machines), XXIV, b 733-4
- Typhæus (Worm), XXIV, b 714, a 716, *a b* 717
- Typhlinidæ (Lizard), XIV, a 740
- Typhlodromus, genus (Arachnida), II, b 241, a 242
- Typhlopidæ, family (Snakes) (Ill.), XXII, b 199, b 202, b 204
- Typhlops, snake (Reptiles), XX, *a* b 458, a 464, a 467, a 472, b 474, b 482, a 483, a 486
- Typhlosolis (Annelida), II, a 62; (Worm), XXIV, b 715
- TYPHOID FEVER, XXIII, a 720-3; (Pathology), XVIII, b 416; equine (Veterinary Science), XXIV, a 220
- Typho-malaria (Malaria), XV, b 320
- TYPHON or Typhœus, monster, XXIII, a 718; (Antioch), II, b 115, a 116; (Egypt), VII, a b 621; (Mythology), XVII, *a b* 158
- Typhonium (Architecture), II, a 343
- Typhoons, hurricanes (Japan), XIII, a b 583; (Meteorology), XVI, b 160; (Navigation), XVII, a *b* 284
- TYPHUS, TYPHOID and RELAPSING FEVERS, XXIII, a 718-23
  - RELAPSING fever, a b 723
  - TYPHOID or enteric fever, a 720-3
    - causes of, b 720-1
    - course of, a 721-2
    - fatality of, a 722
    - name and nature of, b 720
    - pathology, a 721
    - treatment, a 722-3
  - TYPHUS fever, b 718-23
    - causes of, b 718-9
    - course of, a b 719
    - general character, b 718
    - treatment, b 719-20
- —— (Filter), IX, a 146; (Pathology), XVIII, a b 413; (Pherecydes), a 747; (Plague), XIX, a 171, a 175; (Quarantine), XX, b 162; (Vaccination), XXIV, a b 33; Mexican form (Yellow Fever), XXIV, *b* 771
- Typo-etching (Typography), XXIII, a 750
- *Typographical Antiquities* (Ames, Jos.), I, a 645
- —— marks of early books (Bibliography), III, a b 565
- Typographic engraving (Graphotype), XI, b 47
- TYPOGRAPHY, XXIII, a 723-57
  - bibliography, a 739, b 741, b 757
  - HISTORICAL, a 723-41
    - blind, printing for, a 741
    - block-printing, a b 724, b 725-7
    - cast type, a b 737
    - Catholicon type, a b 728
    - claimants of invention, minor, a b 733
    - colophon evidence of origin, a 731-3
    - Coster pretensions, a 735-6
    - customs of early printers, b 729-30
    - documentary evidence of origin, b 731-3
    - Dutch type, earliest, a 735-6
    - earliest definitions, b 723-4
    - fabrication of early type, a 736-9
    - fifteenth century written books, a b 725
- TYPOGRAPHY, *continued*
  - HISTORICAL
    - German block-books b 726
    - Gothic and Roman type, a b 738
    - Gutenberg pretensions, b 733-4
    - Haarlem origin of, a 736
    - illumination work, a b 741
    - imitation of MSS. abandoned, b 730
    - invention controversy, b 730-6
    - Mainz, early printing, a 727-8
    - manuscript period, b 724-45
    - music type, a 741
    - Netherland block-books, a 727
    - Nicholas V.'s indulgence, a b 727
    - polytype, b 737
    - sculpto-fusi type, b 736-7
    - shape of earliest type, b 737-9
    - sixteenth century printers, a b 739
    - sorts of modern type, b 739-41
    - spread of, a b 729
    - wood engraving, early, a b 726
    - wooden type, a b 736
    - writing, classes of, a 725
    - Zell's testimony of origin, b 734-5
  - PRACTICAL, b 741-57
    - case (Ill.), a b 745
    - casting machine, b 744-5
    - color printing, a b 755
    - composition, a 745-7
    - correcting proof, a b 747
    - definition, b 741-2
    - distributing type, machines (Ill.), b 747
    - electrotyping, a b 749
    - face varieties, b 743-4
    - fonts, bookwork, a b 742
    - forms, a 746
    - hand press (Ill.), b 750-1
    - imposing, b 745-6
    - ink and roller, a 755
    - logotypes, a 747
    - making type, a b 744
    - newspaper stereotyping, b 748-9
    - old style printing, b 756-7
    - parts of type, b 742-3
    - perfecting presses (Ill.), a 753-4
    - platen presses (Ill.), b 751-2
    - polytyping, b 749
    - press-work and presses (Ill.), b 750-5
    - printing establishment, a b 757
    - punch-printing, a 749
    - recent progress, b 755-6
    - rotary presses (Ill.), a b 754
- TYPOGRAPHY, *continued*
  - PRACTICAL
    - setting machines (Ill.), a 746-7
    - signatures, a 746
    - single cylinder press (Ill.), a 752-3
    - sorts of type, a 743-4
    - stereotyping, a 748-9
    - type (Ill.), a 742-5
    - web or roll printing, b 754-5
    - wood-engraving substitute, b 749-50
- ——, charting photo- (Surveying), XXII, b 753; French (Fournier), IX, b 433
- Typotherium, fossil (Mammalia), XV, b 432-3
- *Typus*, exposition (Martin I.), XV, a 589; (Monothelites), XVI, a 785
- *Tyrannic Love* (Dryden), VII, *b* 423
- Tyrannidæ, family (Birds), III, a *b* 645, a 647, *a* 649, a 651; (King-Bird), XIV, b 82, a b 83, note; (Ornithology), XVIII, b 31, note, a 32, a 34, a b 44
- Tyrannies, origin of (Italy), XIII, a b 487
- Tyranny (Government), XI, a 11
- Tyrants, Greek (Greece), XI, b 85
- —— or pretenders (Rome), XX, *b* 794, b 796
- ——, right to slay (Mencius), XVI, a 9; (Milton), a 344
- Tyras, river (Dniester), VII, b 266
- Tyrconnel or Tirconaill (Donegal), VII, a b 314
- ——, Richard Talbot, earl of (Ireland), XIII, a 274
- TYRE, city, XXIII, a 757-8; (Alexander the Great), I, b 426; (Commerce), VI, b 176, *a* 177; (Egypt), VII, a 654; (Numismatics), XVII, a b 667; (Persia), XVIII, a 593, note; (Phœnicia), a b 817, a b 820, note, a b 821, a b 822, a 823; (Venice), XXIV, a 160 note
- ——, era of (Chronology), V, a 621
- Tyrian Baal, III, b 152
- Tyrite (Mineralogy), XVI, a 446
- Tyro, heroine (Pelias), XVIII, a b 485
- TYROL, province, XXIII, a 758-9; (Hofer), XII, b 46; (Hormayer), b 170; Italian (Italy), XIII, a 444; (Trent), XXIII, a 578
- ——, Schloss (Meran), XVI, b 34
- Tyrolese Alps, I, a b 551, a 553-5; (Austria), III, b 100
- Tyrolite (Mineralogy), XVI, b 423
- TYRONE, county, XXIII, b 759-60; (Ireland), XIII, b 251; coal-fields (Ireland), a b 223; earls of (Ireland), b 268, a 270, a b 271, a 272
- Tyropœon, valley (Jerusalem), XIII, b 647, b 650, *a* b 651, *a* 652
- Tyrosin (Nutrition), XVII, a 695, b 696; (Physiology), XIX, b 55, b 57, a 58, b 59

Tyrotoxicon, poison (Vanilla), XXIV, b 73
Tyrrel, Sir James, assassin (Edward V.), VII, b 594
Tyrrel's case (Trust), XXIII, a 634
Tyrrheni, tribe (Etruria), VIII, a 556–7; (Rome), XX, a 753
TYRTÆUS, poet, XXIII, b 760; (Greece), XI, a 85, a 122, *a* 124; (Messenia), XVI, a 58
Tyrwhit, Sir Thomas (Elizabeth), VIII, a 133
Tyson, Edward (Anatomy), I, *a* 713
Tytam bay (Hong-Kong), XII, b 144
Tything man, Magistrate, XV, b 217
—— suretyship (Brehon Law), IV, a 227
TYTLER, Alexander Fraser, judge, XXIII, a 761
——, James (Aëronautics), I, *b* 171, note, a 174; (Encyclopædia), VIII, b 182
TYTLER, Patrick Fraser, historian, XXIII, a b 761
TYTLER, William, antiquarian, XXIII, b 761
TYUMEÑ or Tiumen, city, XXIII, b 761–2; (Siberia), XXII, *b* 9; (Tobolsk), XXIII, a 458
Tzana lake (Abyssinia), I, a 62
Tze-kung, disciple (Confucius), VI, *a* 233, a 234
Tze-lu, disciple (Confucius) VI, a *b* 232, a 235
Tzerinia, town (Cyprus), VI, a b 660
Tze-sze, author (Confucius), VI, a 233
TZETZES or Cæcius Joannes, chronicler, XXIII, b 762; (Greece), XI, a *b* 130
Tzschirner, Heinrich Gottlieb, historian (Church History), V, b 669

U, letter, XXIII, a 762–3; (W), XXIV, a *b* 324
U. measure (Weights and Measures), XXIV, a *b* 511
U or Us, province (Tibet), XXIII, a 360, a b 361, b 364, b 365, *b* 367, a b 369
Uahabra, Apries, or Pharaoh Hophra, king (Egypt), VII, a b 644
Ualan Kusai island (Caroline Islands), V, b 111
Uat or Uati, goddess (Buto), IV, b 525; (Egypt), VII, a 623
Uaua, people (Nubia), XVII, b 626, a 627
Ubaldini, Ruggiero degli, archbishop (Gherardesca), X, b 505–6
Ubaldi, family of jurists (Baldus), III, b 238
Ubaldo, archbishop (Pisa), XIX, a 131
Ubangi or Mobangi, river (Zaire), XXIV, *b* 802, a 803
Ubasha or Ubashi, khan (Calmucks), IV, a 629; (Mongols), XVI, b 771–2
UBEDA, town, XXIII, a 763
Uberti, family (Dante), VI, a *b* 713
——, Bonifazio (Ireland), XIII, b 235
——, Farinato degli. See Farinato
——, Fazio degli, poet (Italy), XIII, a 515, a 516
Ucayale or Ucayali, river (Amazon), I, *a* 575; (Apurimac), II, b 189; (Peru), XVIII, b 685, a b 686, a 690
Uccaihsravas, horse (Pegasus), XVIII, a 479
Uccelli, Paolo, painter (Baldovinetti), III, b 237; (Ghiberti), X, b 506; (Glass), b 597
Uccello, Pizzo d', mountain (Italy), XIII, b 447
Uchatius, steel process (Iron), XIII, b 356–7
Ud, musical instrument (Lute), XV, b 71–2
Ud, river (Maritime Province), XV, *a* b 555; (Siberia), XXII, a 10
Uda, river (Transbaikalia), XXIII, a b 542, note, a 543
UDAIPUR, state and city, XXIII, a 763; (Chutiá Nágpur), V, *b* 671; (Jodhpur), XIII, a 715; (Rájputána), XX, b 272
UDAL, land title, XXIII, a 763
UDALL, Nicholas, playwright, XXIII, a b 763; (English Literature), VIII, b 371
Udalricus Gallus, printer (Typography), XXIII, a 729, a 738
Udayagirí, hill (Cattack), V, b 211
Udayana Acharya, philosopher (Sanskrit), XXI, b 305
Uddelermeer, lake (Holland), XII, a 66
Uddu province (Uganda), XXIII, a 765
Udenheim, town (Philippsburg), XVIII, a 768
Udgatar, priest (Sanskrit), XXI, *b* 286
Udieli, apanages (Russia), XXI, b 97–8
UDINE, town, XXIII, b 763
Udinians, tribe (Lesghians), XIV, a 475
Udometer (Raingauge), XX, b 268–9
Udonellidæ, parasites (Trematoda), XXIII, a 573
Udong, river and town (Cambodia), IV, *b* 641
Udraka, teacher (Buddhism), IV, a b 383
Udskoy, bay of (Maritime Province), XV, b 554
UEBERWEG, Friedrich, critic, XXIII, b 763–4; (Logic), XIV, *a* 806 note; (Scepticism), XXI, b 398; (Scholasticism), b 437, a 441, a 442, b 445, b 446, a 449
Uenephes, king (Egypt), VII, a 634
UFA, government, XXIII, a b 764; (Ural Mountains), XXIV, *a* b 10
UFA, town and river, XXIII, *b* 764; (Russia), XXI, a 76, b 83, a b 84, *a* 87, *a* 88, a 95
Uffizi gallery, Florence (Archæology), II, a 315; (Botticelli), IV, *a* 151; (Florence), IX, a 291; (Ghirlandajo), X, *a* b 508; (Giorgione), a 543; (Lippi), XIV, *a* b 691; (Medici), XV, a 802; (Michel Angelo), XVI, b 238, a b 239; (Moroni), b 862; (Sarto), XXI, *a* 331; (Schools of Painting), b 467; (Titian), XXIII, a 443, b 444; (Veronese), XXIV, b 188
Ufford, Sir Robert de, viceroy (Ireland), XIII, a 266
Ugalenzes tribes (Indians), XII, a 866
UGANDA, country, XXIII, b 764–5; (Africa), I, a 213
Ugernum, city (Beaucaire), III, b 403
Ugliano, island (Zara), XXIV, b 807
Ugliness (Æsthetics), I, b 196, *a* b 197
UGLITCH, town, XXIII, b 765–6; (Russia), XXI, b 101, a b 102; (Yaroslavl), XXIV, b 767, *a* 768
Ugolino da Siena, painter (Guido), XI, b 229
Ugra, river (Smolensk), XXII, *a* 193
Ugrian. See Ugric
Ugrians, race (Europe), VIII, a *b* 612; (Khazars), XIV, a b 61; (Perm), XVIII, b 561–2; (Russia), XXI, a 86, *a* 87, b 88; (Siberia), XXII, b 13; (Ural Mountains), XXIV, b 7, b 9, a 10
Ugrian strait (Nova Zembla), XVII, a 619
Ugric language (Dictionaries), VII, b 163–4; (Hungary), XII, b 389; (Ural-Altaic), XXIV, a 5, a b 6
Ugro-Samoyedes, people (Samoyedes), XXI, b 263; (Siberia), XXII, b 16
Uha-gana, tune-book (Sanskrit), XXI, b 290–1
UHLAND, Johann Ludwig, poet, XXIII, a b 766; (Germany), X, b 485; (Tübingen), XXIII, b 640
——, W. H., engineer (Steam-Engine), XXII, a 532 note
Uhlhorn coining-press (Mint) (Ill.), XVI, a 504, a b 513
Uhya-gana, tune-book (Sanskrit), XXI, b 290–1
Uigur Dictionary, VII, a 167; language (Ural Altaic), XXIV, a 5, b 6
Uigurs, Ogurs or Yugurs, race (Hami), XI, a 366; (Rubruquis), XXI, a b 53; (Siberia), XXII, b 16–7; (Turkestan), XXIII, b 680; (Turks), b 701
Uinkaret plateau (United States), XXIII, *b* 849
Uintah mountains (United States), XXIII, a 847; (Utah), XXIV, a *b* 24
Uintatherium, fossil (Mammalia), XV, a 432
UJIJI, town, XXIII, b 766; (Africa), I, b 222; (Tanganyika), XXIII, b 50, a 51; (Zaire), XXIV, b 801, *a* 802
UJJAIN, town, XXIII, b 766
Ukerewe, island (Nile), XVII, a 518
Ukert, Friedrich August, historian (Pytheas), XX, a b 150
UKRAINE, region, XXIII, b 766
—— school of literature (Poland), XIX, a 316
—— songs (Russia), XXI, b 118
Ukrainians or Malorusses, race (Russia), XXI, a b 86, a 87, *a* b 88
Uksur, El, town and temple. See LUXOR
Ukuhlonipa, custom (Zululand), XXIV, b 867
Ulabas mountains (Ili), XII, a 741
Uladislaus I., king (Hungary), XII, a 383
—— II., king (Hungary), XII, b 383
Ulai, river (Susa), XXII, a 760
Ulalume (Poetry), XIX, b 272–3
Ulcer (Mercury), XVI, b 39; (Ophthalmology), XVII, a 803, a 808; (Vaccination), XXIV, b 31–2; gastric (Stomach), XXII, b 603–4
Ulceration (Surgery), XXII, a b 717–8; (Throat Diseases), XXIII, a 342; catarrhal (Pathology), XVIII, b 385; intestinal (Dysentery), VII, a 506; syphilitic (Pathology), XVIII, b 414–5
Uldin, chief (Huns), XII, a 397
Ulea river (Finland), IX, b 188
Uleaborg, province (Finland), IX, a 189; (Newspapers), XVII, a 442; (Russia), XXI, a 76
Uled Mohammed, dynasty (Fezzan), IX, a 114
Ulema, Moslem clergy (Egypt), VII, a 628, b 630, note, a 631, a b 661, a b 662; (Sunnites), XXII, b 694–6; (Turkey), XXIII, a 696; power of the (Sunnites), XXII, a b 696, a 698
Ulex, plant (Furze), XI, b 748
Ulexite (Mineralogy), XVI, a 413
Uley cultivator (Agriculture), I, b 278
ULFILAS, bishop, XXIII, b 766–7; (Alphabet), I, a b 539; (Germany), X, b 467; (Goths), a b 754, b 757; his version of the Bible, III, b 559
Ulhás, river (Thána), XXIII, a 239
Ulithi, islands (Caroline Islands), V, a 111
Uljanin, naturalist (Tunicata), XXIII, a 648
Ulla river (Galicia), X, a 25; (Lugo), XV, a 62; (Russia), XXI, b 80
Ullage of a cask (Mensuration), XVI, b 33
Ullgren's method of analysis (Iron), XIII, a 296
Ullmannite (Mineralogy), XVI, a 407
Ullrich, classicist (Thucydides), XXIII, b 343, b 347
Ullswater, lake (Cumberland), VI, a 616, b 617
ULM, town, XXIII, b 767–8; (Würtemberg), XXIV, *a* b 737; capture of, 1805 (Austria), III, b 115; (Napoleon), XVII, a 216

Ulmaceæ, order (Elm), VIII, b 140
Ulmen, noble (America), I, b 615
Ulmus tree. See ELM
Ulna, bone (Anatomy) (Ill.), I, b 725; (Ape), II, b 141; (Birds), III, b 625; (Horse), XII, a 181; (Mammalia), XV, *b* 361
Ulnar artery (Anatomy), I, a 794; nerve (Anatomy), b 762; vein (Anatomy), b 795
Ulothrix, plant (Reproduction), XX, b 437, a 442, b 443
Ulozhenie, code (Russia), XXI, b 107, b 112
ULPIANUS, Domitius, jurist, XXIII, a b 768; (Justinian I.), XIII, a b 802; (Roman Law), XX, b 706, b 715, b 719, b 721, *b* 722, a b 724, b 728, *b* 730, a 731; (Slavery), XXII, *a* 142; (Torture), XXIII, b 490; his table (Annuities), II, b 70
Ulpian basilica (Ill.), III, a *b* 356; library (Libraries), b XIV, a 511
Ulpius, Euphrosynus, geographer (Globe), X, b 608
Ulrica Elenore, queen (Sweden), XXII, a 789
ULRICI, Hermann, critic, XXIII, b 768; (Category), V, a 197
Ulrich, family (Würtemberg), XXIV, b 737
——, Anton, duke, Brunswick (Hymns), XII, b 621
—— I., duke (Hutten), XII, *b* 428; (Würtemberg), XXIV, *a* 738
—— VIII., abbot (St. Gall), XXI, a 178
Ulrichs, author (Archæology), II, b 304, *a* 305
Ulrich's scarlet (Coal Tar Colors), XVIII, a 903
Ulster, province (Ireland), XIII, b 225, b 233, a 237, a 249, a b 250, b 251, a 272; (Presbyterianism), XIX, a b 711-2; farming (Ireland), XIII, 227-9, 230, 231; landowers in, 234; population, a b 242; plantation of (Fermanagh), IX, a 80; (Scotland), XXI, a 533; plantation Company, VI, a 200
Ulster, Annals of (Celtic Literature), V, a 267
—— arms (Baronet), III, a *b* 335
—— custom (Landlord and Tenant), XIV, a b 277; (Law), a 363
Ulster's Roll (Precedence), XIX, a 683 note
Ultima Thule (Geography), X, b 157. See THULE
Ultimum moriens, phrase (Vascular System), XXIV, a 107
ULTRAMARINE, pigment, XXIII, b 768-9; (Cobalt), VI, b 76; (Lapis Lazuli), XIV, a 301; (Painting), XVIII, b 142, a 143; (Perugino), b 694; (Pigments), XIX, b 95; green, b 96
Ultramontanism (Germany), X, a 460, a 461; (Görres), b 699; (Lamennais), XIV, b 239-40; (Mechlin), XV, b 784; (Prussia), XX, a 17; (Vatican Council), XXIV, b 120, a 121
Ultra vires (Corporation), VI, a 385
Ulua, river (Honduras), XII, b 133
Uluch Ali, Turkish admiral (Cervantes), V, a b 303
ULUGH BEG, Mirza Mohammed ben Shah Rok, astronomer, XXIII, b 769; (Astronomy), II, b 656; (Ghazni), X, a 502; (Persia), XVIII, b 643; his tables (Geography), X, b 159
Ulu-Khem, river (Siberia), XXII, b 9; (Yeniseisk), XXIV, b 779
Ululæ, owls (Birds), III, b 618. See OWL
Ulundi, town (Zululand), XXIV, b 868
Ulûs, tribe (Afghânistân), I, b 212, a b 213
Ulu Tumulang, mountain (Malay Peninsula), XV, b 323
Ulva, cell-surfaces (Histology), XII, a 16
ULVERSTON, town, XXIII, b 769-70
—— hæmatite (Iron), XIII, b 292
Ulwar. See ALWAR
ULYSSES or Odysseus, hero, XVII, b 749; (Achilles), I, b 89; (Calypso), IV, b 638; (Circe), V, b 689; (Homer), XII, a *b* 122, *b* 123; (Ithaca), XIII, a 527; (Læstrygones), XIV, a b 201; (Lisbon), a 699; (Mythology), XVII, a 155; (Penelope), XVIII, a b 501; (Siren), XXII, a b 105; in Greek painting (Archæology), II, *b* 313
Ulysses deriding Polyphemus, painting (Turner), XXIII, b 708-9
Um, weight (Weights and Measures), XXIV, a 514
UMAÑ, town, XXIII, a 770
Umanak, station (Greenland), XI, b 152
Umánánda, shrine (Gauháti), X, a 100
Umatilla river (Oregon), XVII, a 846
Umayo, lake (Peru), XVIII, a 686
Umballa. See Ambálá
Umbel (Botany) (Ill.), IV, b 110-1; compound (Botany) (Ill.), a b 111
Umbelliferæ, class of plants (Botany), IV, b 107, b 108, *a* b 111, b 113, b 116, a 119, a 120, b 122, b 126, a 129, b 136, b 137
Umbelliferone (Galbanum), X, b 21; (Sumbal), XXII, b 674
Umber, mineral (Mineralogy), XVI, b 443; (Mining), a 489; (Pigments), XIX, a b 97
Umbilical vein (Mammalia), XV, *a* 366; vesicle (Mammalia), *b* 371, *a* 372
Umbilicanimi, sect (Hesychasts), XI, b 698
Umbilicus, mathematical (Geometry), X, a 378 note
—— Romæ, column (Rome), XX, a 836, note
Umbilin river (Sumatra), XXII, b 672
Umbo (Costume), VI, b 403
Umbra (Light) (Ill.), XIV, a 585
——, genus (Ichthyology), XII, a b 714, b 731
UMBRELLA, shelter, XXIII, a b 770; (Hanway), XI, a 405
——, genus (Mollusca) (Ill.), XVI, a b 679
—— Tent, XXIII, a 200
UMBRIA, country, XXIII, b 770-2; (Italy), XIII, a 455, b 456, b 510; (Piero), XIX, b 90, b 91; (Schools of Painting), XXI, a b 453, b 462, a 465
"Umbria" engine, steamer (Steam-Engine), XXII, a 545
Umbrian Alphabet, I, *a* b 537; dialect (Latin Language), XIV, a b 327-8, b 329; (Romance Languages), XX, *b* 678; (Italy), XIII, b 506-7, a 511; inscription (Eugubine Tables), VIII, b 582-3; (Italy), XIII, a 505, a 506
Umbrians, people (Italy), XIII, b 453, b 455, b 456; (Rome), XX, *b* 761, a 762
Umbridæ, family (Ichthyology), XII, b 731
Umbro-Sabellian dialect (Latin Language), XIV, a b 327-8
Umbulazi, chief (Zululand), XXIV, b 868
Umea Elf or river (Sweden), XXII, a 774
Umgeni river (Natal), XVII, b 246
Umiliati, order (Tiraboschi), XXIII, a 434. See HUMILIATI
Umkomanzi, river (Natal), XVII, a b 246
Umlaut, vowel variation (Germany), X, b 464, *a* 465, *b* 466
Ummerapoora. See AMARAPURA
Umm Rabí, river (Morocco), XVI, a b 858
Umpherston pulp-beating engine (Paper), XVIII, b 224 note
Umpire (Arbitration), II, b 273, *a* 274; (Cricket), VI, *a b* 513
Umpqua river (Oregon), XVII, a b 846, a 847
Umritsur, district. See AMRITSAR
Um Styrilse Kununga (Sweden), XXII, b 791
Umzati river (Delagoa Bay), VII, b 36
Umzelekatze, chief (Kaffraria), XIII, b 828
Una, military chief (Egypt), VII, a 636, note
Unai pass (Afghânistân), I, *a* 205
Unaka mountains (Tennessee), XXIII, *b* 192, a 193; (United States), b 844
"Unaker," clay (Pottery and Porcelain), XIX, b 661, a 662
Unalashkans, tribes (Indians), XII, a 866
Unam Sanctam Ecclesiam, bull (Popedom), XIX, b 515
Unan, mammal (Sloth), XXII, a 172
UNAO, district and town, XXIII, a 772
Unas, king (Egypt), VII, a 636
Unau, mammal (Sloth), XXII, a 172
Una Vida, pueblo (Pueblo Indians), XX, b 887
Uncaria, plant (Catechu), V, a 192
Uncas, Indian chief (Norwich, Connecticut), XVII, b 610
Uncia, coin (Numismatics), XVII, b 669-70; weight (Weights and Measures), XXIV, *a* b 514, *a* 515, *a b* 516
Uncial manuscripts (Alexandrian MS.), I, *b* 438; (Bible), III, a b 558
—— writing, English half (Palæography), XVIII, a 163; Greek (Ill.), b 149-53, b 167; Irish (Ill.), a 162; Latin (Ill.), b 156-8, a b 167, a 169; Latin half, a 157-8
Uncinatum, bone (Birds), III, *b* 618, b 619, note
Uncinitaria (Sponges), XXII, a b 439
Unc Khan (Prester John), XIX, a b 736
Uncleanness, ceremonial (Taboo), XXIII, b 22
Uncle Tom's Cabin (American Journalism), XVII, a 887; (American Literature), I, a 638; (Hungary), XII, b 394; (Stowe), XXII, a 930
Uncompahgre mountains (Colorado), VI, b 145; (United States), XXIII, *b* 846
Unconditioned, Philosophy of the (Cousin), VI, a b 467; (Hamilton, Sir W.), XI, a 375; (Psychology), XX, b 86
Unconformability of rocks (Geology), X, b 281-2, a 330
Unction. See EXTREME UNCTION
Under bridge, English (Bridges), IV, a 254
Undercliff, town (Wight), XXIV, *a* b 593
Underground Railways (Ill.), XX, a 248-9
Understanding, The (Hegel), XI, a 552; (Jacobi), XIII, a 547-8; (Kant), a b 861, b 862, a b 864; (Logic), XIV, a b 803, b 804; sense distinguished from (Psychology), XX, b 79-80. See *Human Understanding*
Undertakers, Parisian (Cemetery), V, a 288
Underwriting (Insurance), XIII, a 167-94; (Lloyd's), XIV, b 747-8
Underwoods (Jonson), XIII, b 754
Undine, story (Fouqué), IX, a b 430; (Germany), X, a 485
Undulation of strata (Geology) (Ill.), X, b 269-70
Undulations in wire, longitudinal (Wave), XXIV, a b 439
Undulatory light (Microscope), XVI, b 276; theory (Light), XIV, a 584, b 587, b 603, a 608-19. See WAVE THEORY

Unearned increment (Land), XIV, a b 268
Ung, lake (China), V, b 549
Ungava bay (Labrador), XIV, a 176
Unger, Carl Richard, historian (Norway), XVII, b 606; (Scandinavian Languages), XXI, b 386, note
——, Franz, botanist (Parasitism), XVIII, b 268, note
——, Moritz, bagman (Pearl), XVIII, b 458
Ungrund, the (Boehme), III, a *b* 741
Unguents (Mechanics), XV, b 775, b 777-8
Ungulata, order of Mammalia (Africa), I, 231, a 232; (Horse), XII, a 176, a 180; (Mammalia), XV, b 356, b 357, a 360, b 361, *a* 367, *a* b 375, a 427-38; (Mastodon), XV, b 629-30; (Swine), XXII, b 810; (Tapir), XXIII, b 61; feeling in (Touch), b 509; horns of (Skeleton), XXII, b 116-7; polydactyla (Mammalia), XV, b 427; vera (Mammalia), a 433-8
Unguligrade [Mammalia], XV, b 362
Unguya, island (Zanzibar), XXIV, b 806
UNGVAR, town, XXIII, a 772
Unia or Uniates (Greek Church), XI, a 140; (Roman Catholic Church), XX, b 647 note
Uniaxal crystals (Wave Theory), XXIV, b 474, a 475, a 476
Uniaxals (Magnetism), XV, a 267
Uniaxial spicules (Sponges) (Ill.), XXII, b 432-3
UNICORN, XXIII, a b 772; (Heraldry), XI, b 626. See Sea Unicorn
Unicuspid teeth (Digestive Organs), VII, b 202
Unifilar magnetometer (Magnetism) (Ill.), XV, b 239-41
Uniform (Costume), VI, a 424; (Navy), XVII, b 303-4; (Police), XIX, b 350; Austrian Army, II, b 529; British Army, a b 506, a b 507, *a* *b* 508; Prussian Army, b 521, a 522; Russian Army, b 532, a 533; Turkish Army, *a* 540
Uniformitarianism (Variation and Selection), XXIV, b 87
Uniformity, Acts of (Alleine), I, b 512, a 513; (Congregationalism), VI, b 238; (Convocation), b 291; (Elizabeth), VIII, b 133; (England, Church of), a 337, a 341; (Presbyterianism), XIX, b 709, b 710; (Hymns), XII, a 624; (Independents), a 766; (Presbyterianism), XIX, b 709, b 710; (Test Acts), XXIII, a 216-7
—— enforced (Ireland), XIII, a 270, b 272
—— of nature (Axiom), III, b 140
Uniform magnetization (Magnetism), XV, b 232-3
Unigenitus, papal bull, 1713 (D'Aguesseau), VI, a 672; (Quesnel), XX, a 184; (Universities), XXIII, b 906; (Popedom), XIX, a 521, a 522
Unilateral property (Magnetism), XV, b 255-6
Unimak, island (Alaska), I, b 393; (Aleutian Islands), b 424
Unio, Mollusc, XVI, a 711; (Mussel), XVII, a b 117; (Pearl), XVIII, a b 457, note
Union, American colonial (United States), XXIII, *b* 783-9, b 802
——, Canadian legislative (Canada), IV, *a* 676
——, German (Germany), X, b 455-6
Unionacea, family. See Unio
Union by second intention (Surgery), XXII, b 717
—— College (Schenectady), XXI, b 410
—— county (South Carolina), XXII, *b* 301
—— Jack, standard (Flag) (Ill.), IX, *b* 243, a 244
—— of Brussels, 1577 (Holland), XII, b 79
—— of Calmar, 1397 (Sweden), XXII, a 785
—— of England and Scotland, 1603 (Bacon), III, a b 176; (England), VIII, a 308; (Scotland), XXI, b 531-2; parliamentary, 1707 (Anne), II, b 56; (Glasgow), X, a 570; (Paterson), XVIII, b 365; (Presbyterianism), XIX, b 704; (Scotland), XXI, b 536, a 537, a 538, b 539, b 540-1
—— of Great Britain and Ireland, parliamentary (Dublin), VII, a 434; (England), VIII, a 325; (Grattan), XI, a 56; (Ireland), XIII, a 277; (Londonderry), XIV, a 865, b 866; repeal of (O'Connell), XVII, a b 742
—— of Norway and Sweden, XXII, b 782, b 790
—— of Utrecht, 1579 (Holland), XII, b 79-80; (William the Silent), XXIV, a 615
—— Pacific Railroad (America), I, b 627; (Nebraska), XVII, a 318, a 319; (Pacific Railroads), XIX, a 914-8, *b* 919-21; (Utah), XXIV, b 25; (Wyoming), *b* 748, *b* 749
Union Roll (Precedence), XIX, a 683 note
—— Theological Seminary, New York (Libraries), XIV, b 553
Unipolar induction (Electricity) (Ill.), VIII, b 73-4
Uniradiate scleres (Sponges) (Ill.), XXII, *a* b 432
Unisexual flowers (Botany), IV, b 114, b 116, a 122
Unit in Dynamics, VII, a 504
——, Electro-static, VIII, b 20-1
UNITARIANISM, XXIII, b 772-4
  England, b 773-4
  literature, b 774
  Poland, a 773
  tendency, b 772-3
  Transylvania, a b 773
  United States, a 774, note
—— (Jesus Christ), XIII, a b 682; (Sabellius), XXI, b 135-6; (Socinus), XXII, b 242, a 243; (Theism), XXIII, a 268; English (Biddle), III, b 575; (Birmingham), b 679, b 682; (Lindsey), XIV, a 670; New England (Parker), XVIII, a 307; (Ware), XXIV, a 883
Unitarian party of Argentine Republic, II, b 432
Unitas Fratrum (Moravian Brethren), XVI, a b 838
United Armenians (Europe), VIII, a b 625
—— Brethren (Hymns), XII, a b 620; (Methodism), XVI, a 200. See Moravian Brethren
—— Brethren, English (Presbyterianism), XIX, a 711
UNITED BRETHREN IN CHRIST, sect, XXIII, b 774, a b 951
—— Irishmen, party (Emmet), VIII, a b 163; (England), b 324; (Fitzgerald, E.), IX, b 236; (Ireland), XIII, b 275, a 277; (Moore), XVI, a 832
—— Greeks. See Unia
UNITED KINGDOM of Great Britain and Ireland, XXIII b 774-5. See ENGLAND, IRELAND, SCOTLAND
—— Methodist Free Churches, XVI, b 200
UNITED PRESBYTERIAN CHURCH, XXIII, a 775-6; (Brown), IV, b 346; (Erskine, Ebenezer), VIII, a 468; (Free Church of Scotland), IX, *a* 656; (Presbyterianism), XIX, a 720
—— Provinces of the Netherlands (France), IX, a 499; (Holland), XII, b 79, *a* *b* 80, b 82-3; (Universities), XXIII, b 905-6. See Netherlands
—— Secession Church (United Presbyterian Church), XXIII, b 775-6
UNITED STATES, republic (Plates VII, VIII), XXIII, a 776-886
  GEOGRAPHY, PHYSICAL, a 840-71
    Adirondack system, a 842
    Alleghany mountains, b 845-6
    Appalachian system, b 841-6; forests, a 859-61
    area and boundaries, a b 840
    Blue Ridge, b 844-5
    Cascade range, a b 851
    climate, a 854-9
    coal, a 864-5
    coast, b 840-1
    Coast ranges, b 851-2
    cold and hot waves, a b 856
    Colorado plateau, a 849-50
    Columbian plateau, b 848-9
    copper, a 869-70
    Cordilleran system, b 846-52
    drainage areas, a 841
UNITED STATES, *continued*
  GEOGRAPHY, PHYSICAL
    forests, economics of, a b 863
    general topography, a b 841
    geology, Appalachian, b 842, a b 843, b 844, b 845-6
    geology, Great Basin, b 848
    geology, Mississippi valley, a 852-3
    geology, Rocky mountains, a b 847-8
    gold and silver, a 867-8
    Great Basin topography, a b 848
    Great Basin forests, a b 862
    iron and steel, a 866-7
    mercury, b 868-9
    middle Appalachian belt, a b 845
    mineral resources, b 863-71
    mining, early, b 863-4
    natural gas, b 865-6
    New England topography, a b 842
    New Jersey and New York topography, a b 843
    northern division, Rocky mountains, a 847-8
    Pacific coast forests, a 861-2
    Pennsylvania ranges, b 843-4
    petroleum, a b 865
    plains, the, b 862
    population, distribution of, a 853-4
    prairies, b 862-3
    rainfall, a 857-8
    Rocky mountains, a 846-8; forests, a 862
    salt, b 870
    seasons, temperature of, b 855-6
    Sierra Nevada system, b 850-1
    storms, a 858-9
    temperature a, 854-5
    tin, a 869
    vegetation, a 859-63
    Virginia ranges, a 844-5
    volcanic plateau, a 849
    winds, b 856-7
    zinc and lead, a 870
  HISTORY AND CONSTITUTION, a 776-840
    abolitionism, rise of, b 815
    Adams, administration of John, a 804-5
    Adams, administration of John Quincy, b 810-1
    adoption of Constitution, a b 800
    American system, Democratic hostility to, a 810, b 812-3
    army, disbandings of the, b 793, a 829

UNITED STATES, *continued*
  HISTORY AND CONSTITUTION
    Articles of Confederation, b 793–4
    bibliography, b 835–6
    "Bill of Rights," b 799
    biographies of constitution makers, b 796 note
    biographies, military and political, a 836–40
    biographies, naval, war of 1812, b 808 note
    blockade of Europe and embargo, a b 807
    Boston evacuated, b 790
    British insolence to Jefferson's government, b 806–7
    Buchanan's administration, a 820–2
    Burgoyne's campaign to Monmouth, a 792
    cessions of territory, state, a 794–5, b 801–2
    Chancellorsville to Gettysburg, a 827
    civil war, b 822–9
    Cleveland administration, b 833–4
    close of civil war, a b 829
    colonization period, a 776–81
    compromise of 1850, b 816–7
    Confederate privateers, b 826
    conflict of colonial theories, a 784–5
    Congress, constitution of, b 797–8
    Constitution, a 797–800
    Constitutional convention, b 795–7
    Cornwallis's surrender and peace, a 793
    corporations, power of, a 834–5
    cotton-gin and slavery, a 806
    crisis of civil war, a b 827
    Davis, autocracy of Jefferson, a 825, a 829
    Declaration of Independence, b 790–1
    democratic development, national, a b 802
    Democratic party splits on slavery, b 820–1
    dependence, relaxation of, b 783–4
    difficulties of the Confederation, a b 795, b 800
    dissolution of colonial governments, b 786–7
    disturbances in reconstructed States b 832–3
    disunion drift, b 817–22
    Dred Scott case, a 820

UNITED STATES, *continued*
  HISTORY AND CONSTITUTION
    drift towards independence, a b 790
    Dutch settlements, a 778
    education, colonial, a 780
    electoral college, b 798–9
    Emancipation proclamation, a 826
    English colonial policy, b 780–1
    English feeling, colonial elimination of, a 784
    executive, constitution of, a 798–9
    explorations, early English, a 776–7
    Federalists, decline of, a 805, a 809
    Federalists, errors of, a *b* 804–5
    first Continental Congress, b 787–8
    fiscal condition under Lincoln, a 824–5
    fiscal policy under Madison, a b 809
    foreign affairs, recent, b 830
    fourteenth amendment, a 830
    Franklin's embassy, b 791–2
    freedom, colonial, b 781
    French in Canada, b 781–3
    French and Indian war, b 782–3
    Garfield and Arthur administration, b 833, a 836, b 837
    governments, colonial forms, a 778–9
    Grant's administration, a 830, a 833, a 838
    Grant campaigns as general-in-chief, b 827–8
    Harrison and Tyler administration, a b 815
    Hartford Convention, b 808
    Hayes administration, a b 833
    homogeneity, colonial, a b 779
    immigration, a 818
    independence struggle for, b 789–93
    industries, colonial, a b 780
    inventions, rise of great, a b 813, a 817
    Jackson's administration, a 811–4
    Jefferson's administration, a 805–7
    Johnson's conflict with Congress, b 829–30
    judiciary, constitution of, a 799
    Kansas-Nebraska conflict, a b 819–20
    labor organization, a b 835
    land system, a 812, a 814, a 824

UNITED STATES, *continued*
  HISTORY AND CONSTITUTION
    Lexington and Concord fights, a b 788
    Lincoln administration, early policy of, b 822–3
    Lincoln election, a 821
    London and Plymouth companies, settlements, a b 777
    McClellan's campaigns, b 823, b 825–6
    Madison's administration, b 807–9
    Mexican war, a 816
    middle colonial system, a 779
    middle colonies, revolutionary war in, a 791–2
    migration across the Alleghanies, a 787
    Mississippi valley campaigns, a b 825, b 826
    Missouri compromise period, b 811–2
    Monitor and Merrimac, b 825
    Monroe doctrine, b 810
    Monroe's administration, b 809–10
    Mormons, b 817
    national spirit, rise of, a b 787, a b 789
    northwest boundary b 810
    Northwest, disposal of the, a b 793
    nullification attempted, a 813
    Ohio Company, b 782
    Ordinance of 1787, b 794–5
    organization under Constitution, b 802–3
    origin of 13 colonies, b 777–8
    Pierce's administration, b 818–20
    political parties under Jackson, a b 812–3
    popular anti-corporate movement, b 834–5
    presidents and vice-presidents, list of, a 836
    prohibited powers in, a 798
    prosperity, recent, b 830–1
    railway expansion, a 824, a b 831
    reconstruction era, b 829–35
    Republicanism, Jeffersonian, a 803, b 804–5
    Republican party, rise of National, a b 819
    revolutionary war begins, b 789–90
    secession undertaken, a 821–2
    seizure of government property, Confederate, a b 822

UNITED STATES, *continued*
  HISTORY AND CONSTITUTION
    Second Continental Congress, b 788–9
    sectional balance of States, a 818
    Sherman in Georgia and the Carolinas, a b 828
    slave power, final form of, b 817–8
    slavery at the adoption of the Constitution, b 800–1
    slavery introduced, a b 782
    slavery in Mexican acquisitions, a 816–7
    social conditions under Jackson, b 813–4
    social life, colonial, b 779–80
    Southern colonies, revolutionary war in, b 792–3
    Southern progress, recent, b 831
    sovereignty, constitutional, b 799–800
    specie circular and its effects, Jackson's, b 814–5
    speculation eras, b 814, a 832
    Stamp Act and Navigation Laws, a 785–6
    state of the country at adoption of Constitution, a b 801–2
    state system, rise of, a b 789
    supremacy in, legal, a b 799
    Tennessee recovered b 826–7, a 828
    territorial gains under Jefferson, a b 806
    Texas annexation, b 815–6
    town and parish systems, b 778–9
    Townshend's policy, resistance to, a b 786, a b 787
    treaty of Ghent, 1814, a 809
    union, growth of colonial, b 783–9
    Van Buren's administration, a 814–5
    war of 1812–1815, b 807–9
    Washington's administration, b 803–4
    Western expansion under Jefferson, b 805, a b 806
    Western settlement, b 813
    Whig party, rise of, b 812
  INDEX, a 885–6
  STATISTICS, a 871–84
    agriculture, b 876–8
    army and navy, b 883–4
    banking and currency, b 881–2
    cities, growth of, b 875–6
    civil service, b 883
    colored race, a b 875

UNITED STATES, *continued*
- STATISTICS
  - crop statistics, b 877-8
  - drainage and altitude, distribution of people, b 873-4
  - education, a b 884
  - families and dwellings, b 876
  - farm statistics, b 877, b 878
  - foreign commerce, a 880-1
  - geographical spread of population, b 871-3
  - interior organization, a b 882
  - manufactures, b 878-9
  - nativity statistics, a 874-5
  - occupations, a b 876
  - pensions, b 883
  - population, a 871-6
  - postal service, b 879-80
  - public debt, a b 883
  - railways and telegraphs, b 879
  - religion, b 884
  - shipping, a b 881
  - system of cultivation, a b 877
  - taxation, b 882-3
  - Watson's population predictions, a b 871

—— (Alien), I, b 507; (Ambassador), a 578, a 579; (Ambulance), b 584; (America), b 623-4; (Architecture), II, b 397; (Artesian Wells), a b 565; (Ballot), III, b 251; (Banking), b 282, b 292-4; (Blind), a 722-4; (Bullion), IV, b 464, a 465; (Button), b 532, a b 533; (Census), V, b 294-5; (Climate), VI, *b* 7, a 8; (Cobden), b 79, a 82; (Coffee), b 101; (Colony), a 143; (Comte), b 204 (Congregationalism), b 238; (Corea), a b 350; (Corn Laws), b 366, a b 337, a *b* 369. (Cotton), b 430-2; (Cuba), a b 600, a b 602; (Deaf and Dumb), VII, a b 8, *a* 10, a 12, a 13; (Decimal Coinage), a 20; (Declaration of Paris), *b* 20; (Dentistry), a 84; (Emigration), VIII, a 160-3; (Episcopacy), a b 437; (Exhibitions), a 703; (Federal Government), IX, b 55; (Fenians), b 66; (Fire), b 203-4; (Flag), b 243; (Forests), b 349, a 350, a 357; (Free Trade), a 666, a 667, b 668-9; (Genealogy), X, b 130; (Geology), b 331, a 332; (George III.), *a* 382; (Gooseberry), b 693; (Government), XI, *a* b 13-4, *a* 15; (Hat), b 463; a b 464; (Hemp), a 578; (Heraldry), a 613; (Herbarium), b 639, b 640; (Highways), a b 725; (Homœopathy), XII, a b 131; (Honey), a b 142; (Hops), a b 160; (Hospital), a 320, a 321; (Ichthyology), a b 671; (Indians), a 870-4

—— (Insanity), XIII, a 105, b 118, a 119; (Insurance), a *b* 174, b 185, b 188-90; (Ireland), a b 243; (Italy), a 457; (Jews), a b 698; (Jute), b 808, a 810, b 811; (Kindergarten), XIV, b 82; (Labor), a 172; (Lewchew Islands), a 490; (Libraries), a 534-5, b 552-4; (Lifeboat), b 576-7; (Meteorology), XVI, a 135, a 145, a 146, b 147, a b 150, a b 151, a 154, a b 163; (Mexico), b 903-4, b 905, b 911; (Mining), b 491-3; (Mohair), a b 568; (Mule), XVII, b 20, a 21; (Municipality), a 37; (Napoleon I.), a 222, a 223; (National Debt), a b 251, a 252, b 253, *a b* 254; (Navy), a 300, a b 309-10; (Negro), a 329, note; (Newspapers), a 444-7, a b 448; (Observatory), b 735-9; (Oddfellows), a b 744; (Olive), a b 784, a b 785; (Opium), a 815, b 816, b 817; (Patents), XVIII, b 361, a 872-4; (Periodicals), a 551-6; (Police), XIX, a 354-5; (Population), b 530; (Post-Office), a 595-6, b 601; (Presbyterianism), a 717-21; (Prison Discipline), a b 769, a b 772, a 783-4; (Public Health), XX, a 103; (Quakers), a 158. a b 159, note; (Railway), a 264-7; (Reformatories), a 898-904; (Rent), a 416; (Salt), XXI, b 246 note; (Savings Banks), a b 346; (Schools), a 907-12; (Silk), XXII, a 63, b 72, note; (Silver), *b* 80-1; (Slavery), a b 149, a 150-1; (Stamps), a 466; (Talleyrand), XXIII, a 36; (Tea), b 109; (Unitarianism), a 774, note; (Universities), b 913-5, b 952-63; (Veterinary Science), XXIV, b 215-6; (Weights and Measures), b 518; (Wine), a b 644; (Witchcraft), a 656; (Yellow Fever), b 771, a 773

——, Copyright in, VI, b 322-3, b 323-5; (Protection), XIX, b 927-8

——, education in (Cousin), VI, a 465; (Education), VII, a 589. See Schools and Universities

——, fauna (Distribution), VII, b 238-9

——, historians and histories (American Literature), I, 634-5; (Hildreth), XI, a 730; (Seaton), XXI, b 914; (United States), XXIII, b 835-6; libraries on (Massachusetts), XV, a b 621

——, horse racing in (Horse), XII, a 207-10

——, Learned Societies, XXII, b 234-5, *b* 236, *a b* 237, a b 238, *a* 239, a b 240

——, rainfall of (Meteorology), XVI, b 157-8

——, right of Petition, XVIII, b 717, a 718

——, Roman Catholic missions in (Propaganda), XIX, b 833

——, storm-tracks (Meteorology), XVI, b 160; tornadoes (Meteorology) (Ill.), a b 134, a 135, a 136

——, trade with Canada, IV, a b 677, b 683, b 685, b 686-7

—— apiculture (Bee), III, a 431, a 433

—— Army, II, a b 541

—— Bank (Jackson, A.), XIII, *a* 544; (Philadelphia), XVIII, a 755; (Tyler), XXIII, a 717

—— constitution. See Constitution of United States

—— Consuls, VI, a 282

—— expedition (Polar Regions), XIX, b 334, a 335, b 337

—— explorations (Lewis, M.), XIV, b 493-4. See SURVEYS

—— fish culture (Pisciculture), XIX, b 135, b 137, a b 138

—— Fisheries, IX, a b 233; (Oyster), XVIII, b 110, a 111, a b 112, note, a b 113, a b 114

—— flora (Distribution), VII, a 250, a 251

—— garden calendar (Horticulture), XII, a 306-8

—— law (Appeal), II, b 183; (Bankruptcy), III, a 297-8; (Constitution and Law), VI, a b 276; (Contraband), *b* 285, *a* 286; (Copyright), b 322-3, b 323-5; (Divorce), VII, a b 264, a 265; (Habeas Corpus), XI, a 321; (Homestead), XII, b 125-7; (Husband and Wife), a 418; (Impeachment), a b 756; (Infant), XIII, a 5; (Inheritance), a 85; (Injunction), a 86; (Insurance), b 188-9; (International Law), a 198, a b 200, a b 202; (Intestacy), b 204; (Judge), a 773; (Jury), a 797; (Justice of the Peace), a 799; (Landlord and Tenant), XIV, b 273 note; (Libel and Slander), a 507; (Limitations), b 657; (Liquor Laws), a 695; (Marriage), XV, b 574-5; (Military Law), XVI, a 312; (Mortgage), a 876; (Murder), XVII, b 59; (Navigation Laws), a b 286-7; (Partition), XVIII, b 334; (Partnership), b 337; (Patents), b 873-5; (Payment), b 451-2; (Perjury), a 560; (Pledge), XIX, b 232; (Possession), b 577; (Prescription), a b 725; (Press Laws), a b 731; (Privilege), b 784-5; (Prize), b 787; (Prohibition), b 814; (Protection), b 927-8; (Quarter Sessions), XX, b 166; (Quo Warranto), b 196; (Real Estate), b 320-1; (Registration), a *b* 356; (Remainder), b 384, a 385; (Riot), a 580; (Riparian Laws), a b 581; (Sale), XXI, *b* 219-20; (Seamen), a b 638; (Sedition), a 651; (Seduction), b 651-2; (Settlement), a 727, b 729; (Solicitor), XXII, *b* 264; (Statute), a b 488; (Summary Jurisdiction), b 676; (Sunday), a b 691; (Test Acts), XXIII, a 217 note; (Trade Marks), b 530; (Treason), a b 563; (Treaties), b 564, note, a *b* 565; (Trust), b 637; (Venue), XXIV, b 176; (Veto), a b 224, a 225; (Warrant), a 393; (Warranty), a 394; (Waste), a 415; (Will), b 605, *a* 606; (Women), b 676, a 677; (Wreck), b 723; (Writ), a 733

—— manufactures (Cotton), VI, a 450-1

—— navy (Admiralty), I, b 144

—— tariffs (Protection), XIX, b 938-40.

—— tenures (Land), XIV, a 266

Unities, dramatic (Aristotle), II, b 456; (Drama), VII, a b 339, b 367; (Metastasio), XVI, b 110; Hindu (Drama), VII, a 345

Unit of force (Horse-Power), XII, a 211; (Hydromechanics), *b* 456, a b 458; (Mechanics), XV, b 706; of Magnetism, a 228; of measurement (Telegraph), XXIII, a b 124; of pressure (Atmosphere), III, b 26

—— of value (Money), XVI, b 748

—— of work (Mechanics), XV, b 707

Units, fundamental (Dimensions), VII, a b 210

——, thermal (Heat), XI, *b* 496

Units and Physical Constants (Hydromechanics), XII, a 455, a 457

—— of affinity (Chemistry), V, b 409-10

—— of length (Mensuration), XVI, a 17; of Measurement, XV, b 674-5

—— of Weights and Measures, XXIV, a 508, note, a 509, a 510

Unity (Metaphysic), XVI, a b 101, a 104-5; (Theology), XXIII, a 288; absolute (Schleiermacher), XXI, a b 429, a 430; conception of (Psychology), XX, b 83-4; intuition of, a b 61

——, national (Germany), X, b 434-5, b 451, *b* 452, a 454, a b 457, b 458-9

——, *n*th roots of (Trigonometry), XXIII, a 605

—— of being (Cartesianism), V, *a* b 127; (Parmenides), XVIII, a 321-2

—— of consciousness (Logic), XIV, a b 804, a b 805

—— of language (Philology), XVIII, a b 790

—— of organic composition (Geoffroy-Saint-Hilaire), X, *a* b 156

—— of origin of speech (Philology), XVIII, b 788-9

Universal Alphabet, I, a 535

—— Brotherhood of Friends of Truth (Goodsir), X, b 689

—— cause (Bruno), IV, a b 360

—— Grammar, XI, a 35

Universal History (Ranke), XX, a 895

—— *History*, Bar Hebræus (Syriac Literature), XXII, b 899-900

Universal ideas (Schleiermacher), XXI, a b 430
Universalism (Eschatology), VIII, a 476; Luke's (Gospels), X, a 719. See UNIVERSALISTS
Universalistic Religions, XX, b 379, b 380, *a* 381
UNIVERSALISTS, sect, XXIII, a b 886, b 951–2
Universality (Cousin), VI, a b 466, a 468
—— of sin (Paul), XVIII, b 434, a 435
Universal joint (Mechanics), XV, a b 771
Universal Law (Vico), XXIV, a 229
—— religion (Neoplatonism), XVII, a b 343
Universals, Aristotelian, II, a 459; (Abelard), I, b 39; (Avicenna), III, a b 134; (Belief), a 460, note; (Metaphysic), XVI, b 85, b 86–7, b 93, a b 95, a 101; (Occam), XVII, b 738–9; (Peripatetics), XVIII, a 558; (Scholasticism), XXI, b 436–7, a 438, b 439, a *b* 440, *a* b 441, a b 442, *a* 445, a 446, a 447, a 448; theory of (Schopenhauer), b 472
Universal writing (Speech-Sounds), XXII, b 404–5
Universe, the (Eleatic School), VIII, b 3; (Leibnitz), XIV, a 421, a b 423
Universitas, law-term (Apprentice), II, b 185
UNIVERSITIES, XXIII, a 887–914
  Athens, a 908
  Australasia, b 912
  Austro-Hungary, a 895–6, a b 905, b 907–8
  authorities, b 914
  Bologna and Paris compared, a b 891
  Bologna, rise of, a b 888
  Cambridge, b 893–4, b 908–9
  Canada, b 912–3
  Cape Good-Hope, b 913
  causes of origin, b 887–8
  colleges, rise of, b 889
  Durham, b 909–10
  England, a 893–4, a 908–10
  English and German systems compared, b 903, a b 904–5
  extinction of German, a 904
  France, existing system, b 906–7
  French universities, a 894–5, a b 897, a b 902
  German, a 895–6, b 897–8, a b 899, b 900–2, b 902–5
  Göttingen, a b 903
  Halle, b 902–3
  India, a b 912
  Ireland, b 911–2
  Italian, a 888–9, b 891–3, b 899–900, b 907
  Jesuit policy, a b 902
  learning before era of, a b 887
  logic abandoned in Italy, b 899–900
  London, a 910
  Low Countries, b 896–7, b 905–6
  meaning of term, early, a 887
  organization of mediæval, a b 889
UNIVERSITIES, *continued*
  Oxford, a b 893, b 908–9
  papal policy, b 891, b 896
  Paris university, b 889–91
  Portugal, a 895, b 907
  Reformation era, a 900–1
  reforms, recent English, a b 809
  Russia, b 901, a b 905, a 908
  Scandinavian, b 898, b 906
  Scotland, b 898–9, b 902, b 910–1
  Spain, a 895, b 907
  Switzerland, a 898, a b 905, a 906
  Tables, United States, a b 913
  Tables of German, a b 905
  United States, a 913–4
  Victoria university, a b 910
  Wales, a 912
—— (Austria), III, b 103; (College), VI, b 128–9; (Copyright), a 317, a 318, a 321; (Education), VII, a 583; (Europe), VIII, b 624; (Examinations), a b 680; (Holland), XII, b 69–70; (Hungary), b 380; (India), a b 814; (Melville), XV, a b 852. (Peru), XVIII, b 688; (Russia), XXI, a 78; (Test Acts), XXIII, b 216, a 217; (Women), XXIV, b 674, a *b* 676
——, English (Examinations), VIII, a *b* 683, a b 684; (James II.), XIII, a 570. (Parker), XVIII, a 305; (Precedence), XIX, b 687; (Press Laws), b 729, b 730, a 731; (Rhetoric), XX, a 530; founding of chairs of Political Economy, XIX, a b 375, b 376, a 379
——, German, X, a 424; (Libraries), XIV, b 526, b 547–9; (Prussia), XX, a 22; (Renaissance), a b 400, note; (Technical Education), XXIII, b 116
——, Italian (Libraries), XIV, b 529–30; (Renaissance), XX, b 398
——, Scottish (Edinburgh), VII, a b 577
UNIVERSITIES AND COLLEGES in the United States, XXIII, b 952–63
  beneficiary foundation, a 961
  cause of multiplication of, a b 958
  discipline, a b 959
  drift, b 962–3
  elective studies, b 960–1
  ideal system, progress towards, a 960–1
  name, use of, b 952–3
  organization, b 959–60
  preparatory departments, a b 953
  professions, training for, a b 961
  science, b 961–2
  statistics, a b 963
  student life, a b 962
  table of states and territories, a 953–8
  weakness of system, b 962
  women, b 958–9
UNIVERSITIES, List of principal
University, Aberdeen, I, a 43; XXIII, a 899, b 910; (Boece), III, a 738; (Elphinstone), VIII, a 143
——, Abo, I, a 53
——, Adelaide, XXIII, b 912; (South Australia), XXII, b 300
—— Agram, XXIII, a 908
——, Alcalá, I, a 405; (Madrid), XV, a 191, b 192
——, Altdorf, XXIII, a 901, a 904
——, Amsterdam, XXIII, b 906; (Libraries), XIV, b 531, a 551
——, Angers, XXIII, b 894
——, Arezzo, XXIII, b 892
——, Athens, XXIII, a 908; III, b 11
——, Atlanta (Georgia), X, b 393
——, Avignon, XXIII, b 894
——, Bamberg, XXIII, b 901–2, a 904
——, Barcelona, III, b 316
——, Basel, XXIII, a 898, b 899, a 905, a 907; (Buxtorf), IV, a b 535, a 536; (De Wette), VII, b 124
——, Berlin, III, a 515; XXIII, a b 904, *a* b 905; (Hartig), XI, b 444; (Libraries), XIV, b 525–6; (Savigny), XXI, a 341
——, Bern, III, a 519; XXIII, a 905, a 907
——, Bologna, IV, b 18; XXIII, a b 888, *a* b 889, a b 891, b 892; (Canon Law), V, a 18, b 19; (Doctor), VII, a 277; (Libraries), XIV, b 529–30, a 550; (Medicine), XV, a 817; (Morgagni), XVI, a 848; (Observatory), XVII, a 734
——, Bombay, IV, b 22; XXIII, a 912
——, Bonn, IV, b 30–1; XXIII, b 904, a b 905
——, Bordeaux, XXIII, b 897
——, Boston (Women), XXIV, 912
——, Bourges, XXIII, b 897
——, Breslau, IV, a 232; XXIII, a 902, a b 905
——, Brown (Providence), XIX, a 909; (Wayland), XXIV, b 887
——, Brussels, XXIII, b 906; (Belgium), III, a 449
——, Budapest, XXIII, a 908; (Pesth), XVIII, b 705
——, Caen, XXIII, b 897, a 898
——, Cagliari, IV, b 568
——, Cahors, IV, a 570; XXIII, b 894
——, Cairo (Egypt), VII, a b 629; (Mosque), XVI, b 892
——, Calcutta, XXIII, a 912
——, California (San Francisco), XXI, b 277; (Women), XXIV, 912
——, Cambridge, IV, b 644, a b 645, a 646–7; XXIII, b 893–4, a b 904, *b* 908–9, a b 912, b 914; (Eton), VIII, *b* 555. See Cambridge University
——, Canada, IV, a 690
——, Cape Town (Cape Colony), V, a 44
——, Catania, V, a 190
——, Christiania, XXIII, b 906
——, Coimbra, VI, b 106; XXIII, a 895, b 907; (Camoens), IV, a *b* 659
——, Cologne, XXIII, a b 896, a 904
——, Copenhagen, VI, b 305–6; XXIII, b 898, b 906; (Denmark), VII, a 73, a b 79; (Rask), XX, *b* 298, a 299
——, Cornell, XXIII, a b 956, a b 959, *a* 961, a b 962; (Ithaca), XIII, b 527; (Libraries), XIV, a 553; (Women), XXIV, 912
——, Cracow, VI, b 479; XXIII, b 895, a 905, b 907; (Poland), XIX, b 311
——, Czernowitz, XXIII, a 905, b 907–8
——, Debreczin, XXIII, a 908
——, Dorpat, VII, a 320; XXIII, b 901, a 905
——, Dublin. See Trinity College
——, Durham, XXIII, b 909–10
——, Edinburgh, VII, *b* 574, b 576, a b 577; XXIII, b 902, b 910–1; (Candlish), IV, b 710; (Drummond), VII, b 415; (Hume), XII, b 360; (Libraries), XIV, b 521; (Murchison), XVII, b 57; (Wilson), XXIV, a 624
——, Erfurt, XXIII, b 896, b 899, a b 904
——, Erlangen, VIII, a 465; XXIII, b 903, a b 905
——, Ferrara, XXIII, a 893; (Gaza, T.), X, a b 112
——, Fisk (Nashville), XVII, a 243
——, Florence, IX, a b 291; XXIII, b 891, b 892–3
—— of France, IX, b 541; XXIII, a 907; (Napoleon I.), XVII, a b 12; (Sorbonne), XXII, b 288–9
——, Franeker, XXIII, *a* 906
——, Frankfort on the Oder, XXIII, b 898, a b 902, a 904
——, Freiburg, IX, b 671–2; XXIII, b 896, a 898, b 899, a b 905
——, Fünfkirchen, XXIII, b 895–6
——, Geneva, X, *a b* 132, a 133; XXIII, a 905, a 907
——, Genoa, X, a 140
——, Ghent (Belgium), III, b 448, a 449, b 450; (Libraries), XIV, a 531; XXIII, a b 906; X, a 504
——, Giessen, X, b 526; XXIII, a 901, a b 905
——, Glasgow, X, b 569, *b* 573–4, a 575; XXIII, a 899, b 910; (Hunter, W.), XII, a 408; (Hutcheson), a 424; (Watt), XXIV, *a* 434
——, Göttingen, X, b 759–60; XXIII, a b 903, a b 905; (Bürger), IV, *b* 476; (George II.), X, b 380; (Herbarium), XI, b 639; (Mosheim), XVI, b 890
——, Gratz, XI, a b 57; XXIII, a 905, b 907
—— of Greece, XI, a b 78

University, Greifswald, XI, a 164; XXIII, b 896, b 899, a b 905
——, Grenoble, XXIII, b 894
——, Groningen, XI, a 184
——, Halle (Berlin), III, a 515; (Francke), IX, *a b* 618; XXIII, b 902–3, a b 905; (Pietism), XIX, a 92; XI, a 353; (Wolf), XXIV, *b* 663; (Wolff), a *b* 665; (Zurich), a 870
——, Harderwijk, XXIII, *a* 906
——, Harvard. See HARVARD COLLEGE
——, Heidelberg, XXIII, a 896, b 899, b 904, a b 905
——, Helmstädt, XXIII, b 900–1, a 904
——, Helsingfors, XXIII, a 908; XI, a 572
——, Ingolstadt, XXIII, a 898, b 899, a 904
——, Innsbruck, XXIII, b 758; (Tyrol), a 902, a 905
—— of Ireland, Royal XXIII, b 911
——, Jena, XIII, a b 631; XXIII, b 900, a b 905
——, Johns Hopkins, XXIII, a b 955, *a* 961, *a* 962
——, Kansas (Women), XXIV, 912
——, Kazan, XXIII, a 908
——, Kharkoff, XXIII, a 908
——, Kieff, XXIII, a 908
——, Kiel, XXIII, a b 905, b 906
——, Klausenburg (Transylvania), XXIII, b 555, a 908
——, Knoxville, XIV, b 135
——, Kōnigsberg, XIV, a 140; XXIII, b 900, a b 905; (Albert Margrave), I, b 399
——, Laval (Montreal), XVI, a 821
——, Leipsic, XIV, b 429, a 430, b 431; XXIII, a 897, a b 899, a 903, *a* b 905; (Bretschneider), IV, b 233; (Goethe), X, b 643–4; (Huss), XII, a 420; (Saxony), XXI, b 368
——, Lemberg, XXIII, b 907
——, Leyden, XIV, b 494–5; XXIII, a 906; (Arminius), II, b 483; (Boerhaave), III, b 742, *a* 743; (Libraries), XIV, a 531; (Scaliger), XXI, b 379–80
——, Liége, XXIII, a b 906; (Belgium), III, b 448, a 449, b 455; (Libraries), XIV, a 531, b 572
——, London, XIV, b 829, a 830, b 844; XXIII, a 910; (Brougham), IV, a 340; (Campbell), b 668; (Grote), XI, b 190, a b 192, a b 195
——, Louvain, XXIII, b 896–7, a 901; XV, a 28; (Belgium), III, a 449, b 450, b 455
——, Lund, XXIII, b 906; XV, a 67; (Pufendorf), XX, b 105
——, McGill, XXIII, b 912; (Montreal), XVI, a 821
——, Madras, XXIII, a 912
——, Mainz or Mayence, XXIII, a b 898, b 899, *a* 904
——, Marburg, XXIII, a b 900, a 904, a b 905; XV, b 537; (Wyttenbach), XXIV, b 749, *a* 750, b 751
——, Melbourne, XXIII, b 812; XV, a 846
—— of Michigan, XVI, a 249; (Ann Arbor), II, a 55; (Libraries), XIV, b 552; (Women), XXIV, 912
——, Minnesota, XVI, b 499
——, Modena, XVI, a 565; XXIII, b 891
——, Montpellier, XXIII, a 894; XVI, b 818, a 819
——, Montreal, XXIII, b 912–3
——, Moscow, XVI, a 886; XXIII, a 908; (Russia), XXI, b 107
——, Munich, XVII, a 32; XXIII, a 904, *a* b 905; (Libraries), XIV, a 526
——, Münster, XVII, b 37
——, Nantes, XXIII, b 897
——, Naples, XVII, b 196; XXIII, b 890, a 892
——, Nashville, XVII, b 242–3
——, Nebraska, XVII, b 318
——, New South Wales, XVII, *a* 422
——, New York, XVII, a 474
——, New Zealand, XVII, b 483–4
——, Northwestern (Women), XXIV, 912
——, Odessa, XXIII, a 908; XVII, a 746
——, Olmutz, XXIII, b 907
——, Orange, XXIII, a 895
——, Orleans, XXIII, a *b* 894
——, Otago, XXIII, b 912
——, Oxford (Ill.), XVIII, a 98–101; XXIII, a b 893, a b 904, b 908–9, b 914; (Wycliffe), XXIV, a b 744, *b* 745, a *b* 746, a 747. See Oxford, University of
——, Padua, XVIII, a 136; XXIII, a 889, a 890, b 891, a *b* 892, a 900; (Averroes), III, *b* 131; (Medicine), XV, a 817
——, Palencia (Alphonso XI.), I, b 542
——, Paris, XVIII, a b 294; XXIII, b 887, a b 889–91, b 897, b 899, a b 902, b 906–7; (Casaubon), V, a b 151; (France), IX, b 478, b 479; (Gerson), X, *a b* 491; (Pasquier), XVIII, b 345; (Post-Office), XIX, a 578, b 596, note; (Scholasticism), XXI, b 444, a 445, *b* 448, a 449
——, Parma, XVII, a 320
——, Pavia, XVIII, b 449; XXIII, a b 892
——, Pennsylvania, XXIII, a 914, note, a b 957, b 960, b 961; (Franklin), IX, a 627; (Philadelphia), XVIII, b 753; (Smith, W.), XXII, a b 913; (Surgery), b 711, note
——, Perpignan, XXIII, b 894–5
——, Perugia, XXIII, b 892; (Bartolus), III, b 348
——, Pesth, XVIII, b 705
——, Piacenza, XXIII, a 892
——, Pisa, XXIII, b 891, *a* 900; XIX, *b* 130, a 131
——, Poitiers, XXIII, a b 897
——, Prague, XXIII, a b 895, a 897, b 899, b 901, a 905; XIX, a 678; (Huss), XII, b 419, *a* 420
——, Punjab (Lahore), XIV, a b 213; XXIII, a 912; XX, b 115
——, Queen's, Island, XXIII, *b* 911
——, Reggio, XXIII, b 891
——, Rinteln, XXIII, a b 901, a 904
——, Rochester, XX, a 630
——, Rome, XXIII, b 892
——, Rostock, XXIII, a 897, a b 905; XX, b 884
——, St. Andrews, XXI, b 166; XXIII, b 898–9, b 910; (Scotland), XXI, a 574, note
——, St. Petersburg, XXIII, a 908; XXI, *a* b 203
——, St. Vladimir (Kieff), XIV, a 73
——, Salamanca and Seville, XXIII, a 895; XXI, b 213, a 214
——, Salerno, XXIII, *a* 888, a 892; XXI, a 222
——, Salzburg, XXIII, b 907
——, Santiago (Chili), V, b 539
——, Seattle (Washington), XXIV, a 408
——, Siena, XXIII, a 873
——, Strasburg, XXIII, b 901, *a* b 905, a 907; XXII, a 618
——, Sydney, XXII, b 846, a 848; XXIII, b 912
——, Syracuse, XXII, a 857 (Women), XXIV, 912
——, Toronto, XXIII, b 476, a 913
——, Toulouse, XXIII, a b 516, a 517, b 891, a 894
——, Treves, XXIII, a 898
——, Treviso, XXIII, b 892
——, Tūbingen, XXIII, b 896, b 898, b 899, b 904, *a* b 905; (Biel), III, b 576; (Eberhard), VII, b 533
——, Tulane, XXIII, *a* b 948
——, Turin, XXIII, b 670–1
——, Upsala, XXIII, b 898, b 906, b 916; (Libraries), XIV, b 531–2
——, Utrecht (Descartes), VII, b 103, *b* 109; (Libraries), XIV, b 531
——, Valence, XXIII, b 894, b 897
——, Valencia, XXIV, b 39
——, Valladolid, XXIII, a 895
——, Vanderbilt (Nashville), XVII, a 243; XXIV, b 875–6
——, Vercelli, XXIII, a 889, a 890, *a* 892
——, Vermont (Burlington), IV, b 491; (Vermont), XXIV, b 182
——, Vicenza, XXIII, b 891
——, Victoria, XXIII, a b 910
——, Vienna (Libraries), XIV, a 527, b 549; XXIII, b 899, a 905, b 907
——, Vilna, XXIV, b 251, a 252
—— of Virginia, XXIII, a b 957, *a* 959, a 960, b 961, b 962: (Charlottesville), V, b 372; (Libraries), XIV, a 553; (Schools), XXI, a b 911; (Telescope), XXIII, a 166 note
——, Warsaw, XXIV, b 396; (Poland), XIX, b 317
——, Washington and Lee (Lexington), XIV, a 494
——, Wesleyan (Women), XXIV, 912
——, Winnipeg, XXIV, b 646
—— of Wisconsin, XXIV, a 652; (Women), 912
——, Wittenberg, XXIII, b 898, b 900, a 904; XXIV, a 659
——, Würzburg, XXIII, a b 905; XXIV, a 740
——, Yale, XXIII, a b 953, b 959, b 960, *a* b 961, a b 962
——, Zurich, XXIII, a 905, a 907; XXIV, a 870
—— College, London, XXIII, *a* 910; (Architecture), II, a 397, a 415, a 418; (De Morgan), VII, b 57; (Grote), XI, a b 192; (Libraries), XIV, b 516, a 545; (London), b 844–5
—— college, Oxford, XVIII, a 101
—— educational system (Gibbon), X, a 513; racing (Rowing), XXI, a b 36, a 38; stationers (Book), IV, b 35
Unkiar-Skelessi, treaty of, 1833 (Turkey), XXIII, b 691, a 692
Unknowable, doctrine of the (Philosophy), XVIII, a 808
Unkomogazi, river (Delagoa Bay), VII, b 36
Unkûlunkûlu, myth (Mythology), XVII, b 154
Unleavened bread, Feast of. See PASSOVER
Unnefer or Osiris (Egypt), VII, a 621. See Osiris
Unnogonduri, race (Bulgaria), IV, b 462
Unno von Troil, traveller (Iceland), XII, a 663
Unreason, Abbot of (Christmas Day), V, b 611
Unseaworthy ships (Shipbuilding), XXI, a b 859
Unst island (Orkney), XVII, *b* 870, a 871, a *b* 872
'Unsurí, poet (Persia), XVIII, a 669, a 670
Unteraar glacier (Switzerland), XXII, b 815
Unter der Linden (Germany), X, a 470
Unterherrschaft, barony (Schwarzburg-Rudolstadt) XXI, *b* 482
Unterschiedsschwelle (Weber's Law), XXIV, b 496, a 497
Unterseen, town (Interlaken), XIII, a 195
UNTERWALDEN, canton, XXIII, a 915–6; (Switzerland), XXII, b 815, 816, a *b* 820, *a b* 821, *a* 822, a *b* 823, a b 824, a 830, a 832, a b 833
Unwin, Mary (Cowper), VI, a b 474
Unyama river (Nile), XVII, a 519
Unyamwesi (Africa), I, a 243
UNYORO, country, XXIII, a 916
Unzer, Johann August, physician (Phrenology), XVIII a 858
Upali, mendicant (Buddhism), IV, a b 387
Upanayana, rite (Brahmanism), IV, b 184

Upanishads (Anquetil du Perron), II, b 81; (Brahmanism), IV, b 182, a 183, b 188; (Sanskrit), XXI, a 287, b 289, a 294, a b 303, a 304; (Vedanta), XXIV, a b 128, b 130, a b 131
Upa-puranas (Sanskrit), XXI, b 296, a 297
Upargháṭ, table land (Jashpur), XIII, b 604
Uparúpaka (Drama), VII, b 344
UPAS, poison, XXIII, a 916
Upas Tree (Danby), VI, b 702
Upcast-pit (Coal), VI, b 59
Upekshâ-bhâvanâ, meditation (Buddhism), IV, b 390
Upernivik, town (Greenland), XI, a b 150, a 153
UPHAM, Charles Wentworth, author, XXIII, a b 963
UPHAM, Nathaniel, Congressman, XXIII, b 963
UPHAM, Nathaniel Gookin, judge, XXIII, b 963
UPHAM, Thomas Cogswell, clergyman, XXIII, b 963–4
UPHAM, Timothy, 1st, clergyman, XXII, b 963
UPHAM, Timothy, 2d, soldier, XXIII, b 963
Upheaval of land (Geology), X, a b 227–30, a 231, a 327, a 332; (Russia), XXI, a b 82
Upholstery (Feathers), IX, a b 53; (Ferns), b 90; (Fibres, Textile), b 116
Upjohn, Richard, architect (New York), XVII, b 896
Upland, Jack, reformer (Lollards), XIV, a 821
Upnor castle (Chatham), V, a 381
Upolu, island (Navigators' Islands), XVII, b 287
Upper Canada (Canada), IV, b 675–6, b 685, b 687, b 689. See ONTARIO
—— Leather, XIV, a 386–8
UPPER SIND FRONTIER, XXIII, a b 916
Uprauda, name (Justinian I.), XIII, b 801, note; (Theophilus), XXIII, b 296, a 297
Upright grand Pianofortes (Ill.), XIX, a 80, b 83, a 84, b 85
Upsala, province (Sweden), XXII, b 777, b 780
UPSALA, city, XXIII, b 916–7; (Asgard), II, a 594; (Libraries), XIV, b 531–2, b 551; (Observatory), XVII, a 735; (Sweden), XXII, a 776, a b 777, a 780, a 781, b 782, b 783, a 784, b 786; (Zodiacal Light), XXIV, b 836
Upsarokas, tribe (Indians), XII, b 872
UPSHUR, Abel Parker, jurist, XXIII, a b 964
UPSHUR, John H., commodore, XXIII, b 964
Upupa Epops, bird (Hoopoe), XII, b 158
Ur, city (Babylonia), III, b 160, a 165; (Euphrates), VIII, b 588
Uræmia, disease (Pathology), XVIII, b 396
URAL MOUNTAINS, XXIV, b 7–10
  bibliography, b 10

URAL MOUNTAINS, *continued*
  coast ridge, a 8
  geology, a b 9
  glaciation, b 9
  middle ranges, a b 8
  mining interests, b 9–10
  myths of, b 7
  natural history features, b 9
  northern ranges, a 8
  southern ranges, b 8–9
  structure of, b 7–9
  towns, b 10

—— (Asia), II, b 600; (Europe), VIII, b 597, b 600; (Malachite), XV, b 317; (Perm), XVIII, b 560; (Russia), XXI, a 80, b 81, a b 82, a b 84, a b 85, a b 87, b 93; (Tobolsk), XXIII, a 457; (Ufa), a 764; ores of (Gold), X, b 660, a b 661, a 666; (Europe), VIII, b 597, b 600
——, river (Caspian Sea), V, a b 154, a 155; (Russia), XXI, a 80, a 81, b 83, b 93; (Ural Mountains), XXIV, b 7, a 9; (Uralsk), b 10
Ural-Altaians, people (Turkestan), XXIII, b 677; (Turks), b 700
URAL-ALTAIC LANGUAGES, XXIV, a 5–7
  bibliography, a b 7
  distribution by groups, a b 5
  genetic affinities, b 6, a 7
  grammatical features, a 6
  morphology, b 5–6
  phonetic features, b 6–7

—— (Finland), IX, b 190, a 191; (Hungary), XII, b 389; (Mongols), XVI, a 776; (Philology), XVIII, b 792, a 793; (Zululand), XXIV, a 867
—— Religion, XX, b 375, a b 376
Uralite, mineral (Geology), X, a 203; (Mineralogy), XVI, a 386
URALSK, province, XXIV, b 10–1; (Russia), XXI, b 76, a 88; town, XXIV, b 10, a b 11
Ural-tau, chain (Ural Mountains), XXIV, b 8
Uran, city (Thána), XXIII, a 239
Uranate of Soda (Uranium), XXIV, a 12
Urania, goddess (Aphrodite), II, a b 151; (Astarte), a 643
——, Muse, XVII, a 81
Urania, poem (Pontanus), XIX, a 469
Urania, statue (Terra-Cotta) (Ill.), XXIII, a 211
——Sloanii, butterfly (Birds), III, b 650
Uranic compounds (Uranium), XXIV, a 12
Uranienborg observatory (Sweden), XXII, b 775
Uraniidæ, family (Butterflies) (Plate XXIX), IV, b 530; (Insects), XIII, b 157
Uranistes, partisans (Voiture), XXIV, b 297
Uraninite (Mineralogy), XVI, a 402
Uranite (Mineralogy) (Ill.), XVI, a 424
URANIUM, metal, XXIV, b 11–2; (Chemistry), V, a b 469–70; (Metals), XVI, b 68; (Mineralogy), a 402, a 404, b 418, b 423, b 424
—— glass (Light), XIV, a b 607; salts (Photography), XVIII, a 844, a 852; (Spectroscopy), XXII, b 391
Uranocircite (Mineralogy), XVI, b 424
Uranographia (Bode), III, b 736
Uranometria Argentina, Gould (Photometry), XVIII, a b 855
—— *Nova*, Argelander (Photometry), XVIII, a 855
Uranophane, mineral (Mineralogy), XVI, a 444
Uranospinite (Mineralogy), XVI, b 424
Uranotantalite (Mineralogy), XVI, a 446
Uranothorite (Mineralogy), XVI, a 443
Uranotile (Mineralogy), XVI, a 444
URANUS, deity, XXIV, a 12; (Circumcision), V, a 691; (Mythology), XVII, b 161
——, planet (Astronomy), II, a 711; (Delambre), VII, a 37; (Herschel), XI, a 685; (Lamont), XIV, a 245; discovery of (Astronomy), II, a 662, a 711; elements of his satellites, b 684; subsystem of (Tides), XXIII, b 405
Urao (Mineralogy), XVI, b 415; (Sodium), XXII, a 253, b 254
Urasimus, antipope (Damasus I.), VI, b 698
Urates (Gout), XI, b 6, b 7, a 8, a 9; (Uric Acid), XXIV, b 16
Uratic calculi (Vesical Diseases), XXIV, a 205; diathesis (Pathology), XVIII, a b 397. See URIC ACID
Uratube, town (Syr-Daria), XXII, a 860
URBAN I., St., pope, XXIV, a b 12
URBAN II., pope, XXIV, b 12; (Anselm), II, a 82; (Carthusians), V, b 143; (Crusades), VI, b 550; (Ember), VIII, a 147; (England), b 273; (France), IX, b 474–5; (Philip I.), XVIII, a 757; (Popedom), XIX, b 513, a 514, a 524; (Sicily), XXII, b 30; (Tarascon), XXIII, b 66
URBAN III., pope, XXIV, b 12–3; (Ireland), XIII, b 265
URBAN IV., pope, XXIV, a 13; (Germany), X, a 442; (Inquisition), XIII, a 99; (Manfred), XV, a 486; (Rome), XX, b 814–5
URBAN V., pope, XXIV, a 13 (Golden Rose), X, a 675; (Milicz), XVI, b 307; (Rome), XX, b 819–20; (Universities), XXIII, b 895
URBAN VI., pope, XXIV, a b 13; (Mary), XV, b 598; (Popedom), XIX, b 516, b 524; (Rome), XX, b 820; (Universities), XXIII, a b 896
URBAN VII., pope, XXIV, b 13
URBAN VIII., pope, XXIV, b 13–4; (Barberini), III, b 313; (Bracciolini), IV, b 169; (Capuchins), V, b 71; (France), IX, b 501; (Galileo), X, b 30, a b 31; (Hymns), XII, a 619; (Jansenism), XIII, a 576; (Mazarin), XV, b 658; (Medici), b 802–3; (Popedom), XIX, a b 520, b 524; (Roman Catholic Church), XX, a 646. (Vega Carpio), XXIV, b 132
—— College (Propaganda), XIX, b 831
URBANA, city, Ohio, XXIV, a 14
Urbania, town (Durandus), VII, a 477
Urbanists, party (France), IX, b 483
Urbanitas, style (Latin Language), XIV, a 333, a 334, a 335
Urban Quæstors, XX, a 152
Urbarium, land law (Hungary), XII, a 385
Urbicus, Lollius, general (Caledonia), IV, b 588
URBINO, city, XXIV, a 14–5; duchy of (Leo X.), XIV, b 451; (Urban VIII.), XXIV, b 13; ducal palace (Raphael), XX, b 286
—— and Pesaro, state (States of the Church), XXII, b 477
—— ware (Pottery and Porcelain), XIX, a b 646
Urceola, plant (India-Rubber), XII, a 876, a b 880
Urceolus, sheath (Rotifera) (Ill.), XXI, a b 8, a 11
Urchá, town (Bundelkhand), IV, b 466
Urchard. See Urquhart
Urchin, mammal (Hedgehog), XI, b 544
Urdamen, king (Egypt), VII, a 644
Urdū, language (Hindūstānī), XI, b 749–52; (Lahore), XIV, a 212, b 213; literature (Hindustani Literature), XI, a 753, a 756–9
Urdun, province (Syria), XXII, a 862
Ure, river (York), XXIV, a 784
——, Andrew, chemist, *b* 1778, *d.* 1857; (Brewing), IV, b 240, b 241; (Canal), b 694
UREA, XXIV, a b 15; (Chemistry), V, a 451, a b 502; (Gelatin), X, b 117, b 118; (Nutrition), XVII, a 699, b 702, a 704; (Prussic Acid), XX, a b 30; synthesis of (Wöhler), XXIV, a 660
Uredineæ, sub-order (Fungus), IX, a b 730; (Mildew), XVI, a 306; (Parasitism), XVIII, b 271; (Reproduction), XX, a 437, a 439, b 443, a 444; (Vegetable Kingdom), XXIV, a b 139
Ureids (Nitrogen), XVII, a 533
Urenga, peak (Ural Mountains), XXIV, b 8
Urethrotomy, history of (Surgery), XXII, a b 709
Urfa, city. See Edessa, Mesopotamia
Urfahr, town (Linz), XIV, a 685

Urfé, Honoré d', poet (Pastoral), XVIII, a 351; (Romance), XX, a 676
URGA, city, XXIV, b 15
Urganda, enchantress (Romance), XX, *b* 671
Urgel, bishops of (Andorre), II, a *b* 18
——, house of (Spain), XXII, a *b* 338
Urgentch, kingdom. See Khiva
Ur-ghien, apostle (Lhasa), XIV, b 500
Urginea, plant (Squill), XXII, *a* 454
Urgneiss, rock (Geology), X, a 290
Urh-hai Lake (China), V, a 550
Urh-she Hwang-te, emperor (China), V, b 559
Uri, bay of (Lucerne), XV, a b 43
URI, canton, XXIV, b 15–6; (Switzerland), XXII, b 815, a 816, a 817, a *b* 820, *a* *b* 821, a b 823, *a* b 824, *a* 826, a 830, a 831, a b 833; (Tell), XXIII, a 171–2; (Unterwalden), a *b* 915
Uria, bird (Guillemot), XI, b 232, *a* 233
URIC ACID, XXIV, a b 16; (Alloxan), I, a 517; (Chemistry), V, b 502; (Gelatin), X, b 118; (Gout), XI, b 6, b 7, *a* 8; (Liebig), XIV, a 571; (Nutrition), XVII, b 702; in gout (Pathology), XVIII, a b 397
Uriconium, city (Shropshire), XXI, b 887
Urijah ben Shemaiah, prophet (Zechariah), XXIV, a 813
Urinary organs (Ichthyology), XII, b 697–8; (Mammalia), XV, a 369; (Reptiles), XX, b 475–6
URINE, XXIV, b 16; (Alcohol), I, b 416–7; (Diabetes), VII, b 127; (Dietetics), b 175, a 176; (Diphtheria), a 218; (Diuretics), a b 253 (Gout), XI, *b* 7, a 8; (Horticulture), XII, *b* 238; (Indigo), a 884; (Jaundice), XIII, a 609; (Nitrogen), XVII, a 530; (Nutrition), b 700–1, b 702–4; (Pathology), XVIII, a 381, a 394, b 395, a 397
Urk, island (Holland), XII, b 62, a 65
Urmans, marshes (Tobolsk), XXIII, b 457
URMIA or URUMIAH, town, XXIV, b 16–7; district (Nestorians), XVII, b 366, a 367; dialect (Semitic Languages), XXI, *b* 681
—— Lake or Sea, XXIV, b 16, *a* 17; (Azerbijan), III, b 145; (Lake), XIV, a b 223; (Persia), XVIII, b 630, a b 631, b 637
Urn Burial (Browne, Sir Thos.), IV, b 350, a 351
Urnordisk language (Scandinavian Languages), XXI, a 382
Urns, cinerary (Pottery and Porcelain), XIX, b 619, a b 642
Urobilin, coloring matter (Nutrition), XVII, a 703
Urochæta (Worm) (Ill.), XXIV, a b 712, a 713, b 715, a 716, *a* b 717
Urochorda, branch (Vertebrata) (Ill.), XXIV, b 195, a b 196, a 198, *b* 201–2, a 203
Urodela (Amphibia), I, a b 658, *a* 659, *a* 660, a 668, *a* *b* 668*, a 669, b 671, *b* 672, *a* b 673, *a* *b* 674, a *b* 675, *a* b 676; (Salamandra), XXI, a 215; foot of (Skeleton), XXII, *a* 126; skull of (Amphibia) (Ill.), I, a 663–7
Uroglena (Protozoa), XIX, a 880, a 881
Uromastyx (Lizard), XIV, b 743
Uromys, genus (Mouse), XVII, b 11
Uropeltidæ, family (Snakes), XXII, b 202
Urosh, Stephen, king (Servia), XXI, a 721
Urostigma, plant (Botany) (Ill.), IV, a b 78, b 79; (India-Rubber), XII, *a* 880
URQUHART or Urchard, Sir Thomas, translator, XXIV, a b 17; (Genealogy), X, b 129; (Rabelais), XX, b 205
——, T., engineer (Steam-Engine), XXII, a 523, note
Urquiza, Justo José de, general (Argentine Republic), II, *b* 432, *a* *b* 433; (Buenos Ayres), IV, b 395
Urr, river (Kirkcudbright), XIV, b 99
Urraca, queen of Leon and Castile (Alphonso VIII. and I.), I, b 541, b 542–3; (Portugal), XIX, a *b* 555; (Spain), XXII, a 331
Urrea, house of (Spain), XXII, a b 338
Ursa Major (Dialling), VII, a 137
Urschleim, protoplasm (Variation and Selection), XXIV, a 84
Urschrift und Uebersetzungen der Bibel (Geiger), X, a b 115
Urseola, Pietro, doge (Venice), XXIV, a 154, b 164
Urseren, valley of (Switzerland), XXII, a 824; (Uri), XXIV, *a* 16
Urseus, abbot (Monachism), XVI, a 728
Ursidæ, family (America), I, a 599; (Bear), III, b 398–9; teeth of (Mammalia) (Ill.), XV, b 439
Ursins, Princess des (Alberoni), I, b 398
URSINUS, Zacharias, theologian, XXIV, b 17
Ursinus's *Trigonometria* (Tables), XXIII, a 17
Urso, town (Osuna), XVIII, a 67
URSULA, ST., martyr, XXIV, b 17–8; shrine of (Memling), XV, a 855
Ursula-Aguir de Valenza, nun (Stigmatization), XXII, b 577
URSULINES, order of nuns, XXIV, a 19; (Monachism), XVI, b 738, *b* 742
Ursus, genus (Mammalia), XV, a b 448; spelæus (Archæology), II, a b 294, a 295
——, Saint, soldier (Soleure), XXII, b 263
Urtica, plant (Nettle), XVII, a 369
Urticaria, disorder (Nettle-rash), XVII, b 369; (Skin Diseases), XXII, a 130
Uruch, river (Caucasus), V, b 221, a 223
URUGUAY, Republic of, XXIV, a 19–21
  bibliography, a 21
  boundaries, a 19
  civil organization, b 20
  history, b 20–1
  industrial features, a b 20
  mountains, a b 19
  natural history features, b 19
  population and divisions, b 19–20
  rivers, a 19
—— (Argentine Republic), II, *a* 429, a b 432; (Forests), IX, a 358; (Libraries), XIV, b 554; boundary (Brazil), IV, *a* 199
—— river (Plate), XIX, a 199, a 200
Urumiah, Urumea or Urumiyah, town. See URMIA
Urumieh Sea or Urumiyah Lake. See Urmia lake
Urus, mammal (Archæology), II, b 294; (Cattle), V, a b 213
Urus, tribe (Peru), XVIII, a 690
Urushi, tree (Japan), XIII, a 601
Urusite (Mineralogy), XVI, a 419
Urus Khan (Mongols), XVI, b 773–4
Uruwela, jungle (Buddhism), IV, a 383, b 384
Urville, Dumont d', navigator. See DUMONT D' URVILLE
Urwin, engineer (Strength of Materials), XXII, a 629, note
Uryadnik, magistrate (Russia), XXI, *b* 77
Uryankhes, tribe (Tartars), XXIII, b 76
Usage (Grammar), XI, a 34, b 38–9
Usages of India (Hindustani Literature), XI, a 758
Usano, weight (Liberia), XIV, a 508
Usar, river (Mauretania), XV, b 643
Usboi, river (Khiva), XIV, *b* 65
Uschba, mount (Caucasus), V, b 220
Uscocchi, sea-robbers (Italy), XIII, a 494
Use and disuse, effects of (Variation and Selection), XXIV, b 90
Usedom, island (Oder), XVII, a 745
Usemba, town (Cazembe), V, b 244
Uses, Statute of (Real Estate), XX, *a* 319
Us et Coustumes de la Mer (Sea Laws), XXI, a b 611–2, a 613
USHANT, island, XXIV, a 21; (Finistere), IX, a 188
Ushas, god (India), XII, a 820
Usher, Arnold, clerk, XXIV, a 21
——, Henry, archbishop, XXIV, b 21
USHER, James, archbishop, XXIV, a 21–2; (Chronology), V, b 619, b 624; (Ephesians, Epistle to the), VIII, a 409; (Hymns), XII, *b* 613; (Ireland), XIII, b 272; (Presbyterianism), XIX, *a* 709, note, a 711; (Libraries), XIV, *b* 522
Ushers (Royal Household), XXI, a b 43
Usink mountains (Siberia), XXII, b 7
Usk, river (Brecon), IV, *a* 218; (Monmouth), XVI, a b 780
Uskadama (Adrianople), I, b 151
Usküdar, town (Scutari), XXI, b 600
USKUP or Uskub, town, XXIV, a b 22
Uslar, P. V., philologist (Georgia), X, a *b* 389, b 390
Usnea, plant (Botany), IV, a 92, b 96; (Lichens), XIV, a 556, a 561, a 563, b 564
Usnech or Usnagh, hill (Ireland), XIII, b 250, note
Uspallata, pass (Chili), V, b 535; (Mendoza), XVI, b 13
Uspensky cathedral (Moscow), XVI, b 883–4, a 887
Usquebagh or whiskey (Distillation), VII, b 229
Ussher, James, archbishop. See USHER
——, astronomer (Transit Circle), XXIII, a 549 note
Ussoff, Nikolaus, physiologist (Tunicata), XXIII, b 647, b 650
Ussu, district (Celebes), V, a 251
Ustariz, Geronimo, publicist (Political Economy), XIX, b 376
Usteri, Johann Martin, poet (Switzerland), XXII, b 836
Ustica, island (Sicily), XXII, a 36
Ustilagineæ, sub-order (Fungus), IX, b 730; (Parasitism), XVIII, b 271; (Reproduction), XX, b 438, a 444; (Vegetable Kingdom), XXIV, *a* *b* 139
Ust-Kiachta, town (Kiachta), XIV, a b 70
Ustrialoff, historian (Russia), XXI, b 116
Ust-Tasnui, village (Neva), XVII, *a* 376
Ust-Urt, isthmus (Caspian Sea), V, *b* 154, a 155, a 156, a b 157; plateau (Transcaspian), XXIII, a *b* 544, a b 545; (Uralsk), XXIV, *b* 10, a 11
Ust Yansk, town (Yakutsk), XXIV, *b* 762
Usucapio, title (Possession), XIX, b 576, a 577; (Prescription), b 723; in jus civile (Roman Law), XX, a 707, a b 708; in jus gentium (Roman Law), a b 717; prætorian (Roman Law), b 727
—— pro herede, custom (Roman Law), XX, a 692, a b 710, b 720, a 721
Usufructus (Agrarian Laws), I, a 258
Usumasinta, river (America), I, b 617–8; (Guatemala), XI, a 212, a 213
Usun or U-ssun, tribes (Turks), XXIII, a 701, note; (Issik-Kul), XIII, a 442

Usuri, river (Manchuria), XV, *a b* 473; (Maritime Provinces), b 554, *a b* 555, *a* 556; (Russia), XXI, b 73, a 74; (Siberia), XXII, a 10, a 13, b 14, *a* 15, b 16
Usurtesen I., king (Egypt), VII, b 636, a 637, b 667, b 671, a 675
—— III., king (Egypt), VII, a 637
USURY, XXIV, b 22–4; (Annuities), II, b 77; (Casuistry), V, b 177–8; (Interest), XIII, a 195; (Jews), *b* 693; Aristotle's view of, II, a 456; canon-law on (Political Economy), XIX, a b 365; royal (Scotland), XXI, a 512
Usus in English law (Trust), XXIII, a 633–4; in Roman law (Marriage), XV, b 572; (Trust), XXIII, a 633
Usyiwaya, station (Tierra Del Fuego), XXIII, b 410
Uta, odes (Japan), XIII, b 597
UTAH, Territory, XXIV, a 24–6
  climate, b 25
  fauna, flora, a 25
  geology, b 24–5
  history, a 26
  industries, b 25
  political features, b 25–6
  population, a 25
  surface features, a b 24
—— (Mining), XVI, a 492; (Universities), XXIII, a 913, a b 958; history of (United States), a *b* 816, b 817; statistics (United States), b 853, a 855, a 857, a 862, b 864, a b 868, b 870, a 873
—— Lake, XXIV, *b* 24
Uta-har-sun, priest (Egypt), VII, *b* 644
Utakamand, town (India), XII, a 772; (Nilgiri Hills), XVII, a 522
Utare river (Venezuela), XXIV, a 152
Utatlan, Quiché town (Guatemala), XI, a 214
Ute (Sponges) (Ill.), XXII, a 429, b 438
Uteina (Sponges), XXII, b 438
Uten, measure (Weights and Measures), XXIV, a 510, a b 512, *b* 513, a 514
Uterine appendages, removal of (Surgery), XXII, b 726–7; cancer (Pathology), XVIII, b 387, a 388, b 389; disease (Hysteria), XII, a b 635; (Insanity), XIII, b 107; Dropsy, VII, a 408; fibroma (Pathology), XVIII, a 374; milk (Pathology), b 381, a 393; tumors (Surgery), XXII, b 722
Utero-placental circulation (Hunter, J.), XII, a 403
Uter Pendragon, British king (Romance), XX, a 661
Uterus, organ (Mammalia), XV, b 370–1; (Reproduction), XX, a b 420; (Tape-Worms), XXIII, b 56 a 60; (Trematoda), a 571. See *Gravid Uterus*
Utes, tribes (Indians), XII, b 866, a 872, a 873
Uthal (Méhul), XV, *a* 840
UTICA, New York, city, XXIV, a b 26
UTICA, Phœnician colony, XXIV, a 26; (Phœnicia), XVIII, b 819, a b 820
Utilitarianism (Bentham), III, b 497–8; (Berkeley), b 509; (Burlamaqui), IV, b 491; (Comte), VI, a 211; (Cumberland), b 620; (Ethics), VIII, a 531, b 532–4, b 535; (Hutcheson), XII, b 425; (Law), XIV, b 356; (Mill, James), XVI, a 320; (Mill, J. S.), a 322, b 325; (Rationalism), XX, a b 302
Utility (Æsthetics), I, b 193, a 194; (Patents), XVIII, b 359, a b 360, b 874, a 875; (Political Economy), XIX, b 412; (Value), XXIV, a b 52, *a* b 53, a 54; (Wealth), *b* 487, *a* b 488
Uti possidetis, writ (Roman Law), XX, a 704, b 728
Ut mine Stromtid (Reuter), XX, a *b* 509
Utopia, More's (Communism), VI, a 189–90, b 192; (More, T.), XVI, b 843, a 845
Utraquists, sect (Hussites), XII, *a* 423
UTRECHT, province, XXIV, b 26; (Holland), XII, a 62, a *b* 64, *a* b 67, a 68, a b 69, *a* 70, *a* b 73, b 74, a b 75, *b* 76, b 79, b 81, a b 87, a 89; (Teutonic Order), XXIII, *b* 218; (Transvaal), b 550, a 551, a 552
UTRECHT, city (Plan), XXIV, b 26–7; (Holland), XII, b 66, a 67, b 69, a b 70, a b 71, b 76, b 80; (Slavs), XXII, b 153–4
——, bishops of (Groningen), XI, a b 184; (Holland), XII, *a* 73, *a* 74, *b* 75
——, Congress of, VI, b 239
——, treaty of, 1783 (Contraband), VI, a 285; (Gibraltar), X, b 522
——, Union of, 1579 (Commerce), VI, b 179; (Presbyterianism), XIX, b 715
——, university of (Descartes), VII, b 103, *b* 109; (Libraries), XIV, a b 531; (Observatory), XVII, b 735
Utrecht Psalter (Libraries), XIV, b 531; (Miniature), XVI, b 457; (Palæography), XVIII, b 156
Utrecht velvet (Mohair), XVI, b 568
UTRERA, town, XXIV, a b 27
Utricularia (Insectivorous Plants) (Ill.), XIII, *b* 140, b 144
Utriculus of Labyrinth (Anatomy), I, *b* 784, a 786
Utrubi interdict (Roman Law), XX, *b* 728
U-Tsang, province (Tibet), XXIII, a 360, b 361, b 364, a b 368
Uttak hills (Patagonia), XVIII, a 358
Uttmann, Barbara, inventress (Lace), XIV, b 185; (Saxony), XXI, b 373
Uvaly hills (Russia), XXI, a 80
Uvea (Anatomy), I, b 779
—— or Uea, island (Loyalty Islands), XV, *b* 32
Uvoroff, count, antiquarian (Russia), XXI, a 118
Uvula (Anatomy), I, b 734–5; (Ape), II, a 145
UXBRIDGE, town, XXIV, b 27
Uxii, tribe (Alexander the Great), I, a 427; (Elam), VII, a 689
Uxmal, city (America), I, a b 609, b 619; (Mexico), XVI, b 222; (Yucatan), XXIV, *b* 796, a 797
Uys, Pieter, Boer leader (Zululand), XXIV, a 868
Uyük or Euyuk, village, VIII, b 635
Uz, land of, XXIV, b 27
Uzain, river. See Uzen
Uzbeck. See Usbegs
Uzbeg Khan (Mongols), XVI, b 773
Uzbegs or Uzbeks, people (Abbas), I, a 15; (Afghânistân), a 214, *a b* 218, a 219; (Asia), II, b 599; (Badakshan), III, *a* 193; (Bokhara), IV, b 3, *b* 4; (Ferghana), IX, a b 75; (Hissar), XII, *b* 5; (Ibn Batuta), b 642; (Khiva), XIV, a 66; (Merv), XVI, a 49; (Mongols), b 775; (Oxus), XVIII, a b 105; (Persia), b 646, b 647, b 648, a 649, a b 650, a 651, a b 653; (Turkestan), XXIII, b 677; (Turks), b 702–3
Uzboi region (Transcaspian), XXIII, a b 544
Uzeda, duke of, statesman (Spain), XXII, *a* b 345
Uzeñ rivers (Irak Adjemi), XIII, a 219; (Russia), XXI, a 81; (Samara), b 254, b 255
Uzes, invasion of (Greece), XI, b 106
Uzun Hasan, king (Persia), XVIII, a b 644
Uzun-kul, lakes (Syr-Daria), XXII, b 858
Uzziah, king (Israel), XIII, b 421 note, b 422

V, letter, XXIV, a 27–8; as numeral, a 28
Vaagekallan, peak (Lofoten and Vesteraalen), XIV, a 776
Vaagö, island (Faroe Islands), IX, a 36
Vaal river (Cape Colony), V, b 38, a 39; (Diamond), VII, *b* 142; (Griqualand West), XI, b 181–2; (Orange River Free State), XVII, *a* 837; (Transvaal), XXIII, b 549, *a* b 550, a b 551
Vaca, Cabesa de, explorer (Argentine Republic), II, *a* 431; (Narvaez), XVII, a 241; (New Mexico), b 411
Vacarius, jurist (Universities), XXIII, a 893
Vacca, Flaminius, sculptor (Granite), XI, b 43
VACCINATION, XXIV, a 28–36
  authorities, b 32, a 36
  comparative death-rate, b 34–5
  cowpox, a 30–1
  death-rates, b 32, a b 34
VACCINATION, *continued*
  erysipelas, a b 31
  grease of horse, b 29
  history of its origin, a 28–9
  humanized cowpox, b 30–1
  induced eruptions and ulcers, b 31–2
  influence on small-pox, b 33–5
  jaundice, b 31
  legislation, b 35–6
  lymph, sources of, b 28–30
  personal utility of, a b 34
  re-vaccination, a b 35, a 36
  risks of, a 31–5
  small-pox as a disease, a 33–5
  small-pox vaccine, b 29–30
  syphilis, induced, a 32–3
—— (Deaf and Dumb), VII, a 6; (Jenner), XIII, a 634–6; (Medicine), XV, b 807, a 808, b 824; (Small-pox), XXII, b 172, a 174; (Surgery), b 721, a 722; compulsory (Vaccination), XXIV, b 35, a 36
Vaccinator, public (Vaccination), XXIV, b 35
Vaccine-lymph (Vaccination), XXIV, a b 29; vesicles, *b* 28, a b 29, *b* 30, a 31
Vaccinium or Cow-plant (Botany), IV, a 124, b 140; (Whortleberry), XXIV, b 587
Vach or Sarasvati, goddess (Brahmanism), IV, b 187
Vacoa or Vacois, tree (Mauritius), XV, b 647; (Fibres, Textile), IX, a 116
Vacois, lake (Mauritius), XV, b 646
Vacomagi, tribe (Perth), XVIII, a 680
Vacuoles, vesicles (Foraminifera), IX, a 325; (Histology), XII, b 12, b 14; (Protozoa) (Ill.), XIX, a 856, *b* 857, a 858, b 861, a 886
Vacuum (Mercurial Air-pump), XVI, b 35; test of (Pneumatics), XIX, b 258–9; Torricelli's, XXIII, a 482; (Barometer), III, a 329
—— -method of Ventilation, XXIV, b 174
—— -pan, boiling (Sugar), XXII, b 660
—— screw-press (Mint), XVI, a 504
VÁCZ, town, Hungary, XXIV, a 36
Väderö of Halland, Island (Sweden), XXII, b 775
Vaduz, city (Liechtenstein), XIV, b 571, a 572
Vafthrudnismal (Edda), VII, b 564
Vaga, town (Tunis), XXIII, b 660
VAGA, Perino del, painter, XXIV, a b 36; (Pinturicchio), XIX, b 117
Vagabonds. See Vagrancy
Vagarshapad, town (Transcaucasia), XXIII, b 547
Vagienni, tribe (Liguria), XIV, b 646

Vagina (Mammalia), XV, a 371; (Reproduction), XX, b 420
Vaginula, growth (Muscineæ), XVII, a 79
Vagrancy (Agriculture), I, a 266; (Labor), XIV, *b* 168–9; English (Poor Laws), XIX, *a* b 483; French (Poor Laws), a 496
Vagrant Act (Gaming), X, a 61; (Witchcraft), XXIV, a b 655
Vagus nerve (Anatomy), I, a 775; (Nutrition), XVII, *b* 689, a 690, a 701; (Physiology), XIX, b 49-50; inhibition of (Physiology), a b 34. See Pneumogastric Nerve
Vahea plants(India-Rubber), XII, *b* 879
Vaidik rites (Brahmanism), IV, *b* 185
Vaidya or Baidya,physicians (Caste), V, b 166
—— -Sastra or medicine (Sanskrit), XXI, b 308-9
Vaigái river (Madras), XV, b 185; (Madura), *b* 193, *a* 194
Vaigatch island (Nova Zembla), XVII, a b 619; (Ural Mountains), XXIV, b 7, a 8
Vaik, Saint. See STEPHEN I. of Hungary
Vail, Alfred, electrician (Telegraph), XXIII, b 929
Vaillant, Benedict, nom de plume (Charron), V, a 373
——, François Le. See Le Vaillant
——, Jean Foy, historian (Persia), XVIII, b 609, b 617
VAIR, Guillaume du, lawyer and writer, XXIV, b 36–7; (France), IX, a *b* 576; XXIV, b 36–7
Vaisampyana,sage(Sanskrit) XXI, b 291
Vaiseshika (Brahmanism),IV, *b* 188; (Sanskrit), XXI, a b 305
Vaishnavism (Hindustáni Literature), XI, a b 753–4, a b 755; hymns of (Tamils), XXIII, b 48. See Bhagats
Vaison, town (Vaucluse), XXIV, a 125
Vaisvānara, manifestation of Brahman (Vedanta), XXIV, *b* 130
Vaisyas, caste(Brahmanism), IV, a *b* 184, a 185; (Caste), V, a *b* 164, *a* b 165, *a* b 166, *a* 167; (India), XII, a 799, a b 821
Vaitarna, river (Thána), XXIII, a 239
Vajaseneyin school (Sanskrit), XXI, a *b* 292
Vajasaneyi-pratisakhya (Sanskrit), XXI, a 293, note
Vajda, John, poet(Hungary), XII, b 393
——, Peter, poet (Hungary), XII, b 393
Vajkay, Charles, novelist (Hungary), XII, a 395
Vakhtang I., king (Georgia, Kingdom), X, a 388; VI., king (Georgia Kingdom), a 389
Vaksh, river (Hissar), XII, b 4, b 5
Valaam, island (Ladoga), XIV, *b* 199, a 200
Valabhi, kingdom (India), XII, a 825; (India), a 829; (Inscriptions), XIII, b 126
Valachians or Walachians. See VLACHS
Valains, Les, quarries (Chinon), V, a 586
VALAIS or Wallis, canton, XXIV, a b 37; (Land), XIV, b 260–1; (Switzerland), XXII, b 814, b 815, a 816, a 817, b 818, a 819, b 823, *a* 824, a 825, a 826, b 828, b 831, a b 832, *a b* 833, a 834 note
Valamo, monastery (Viborg), XXIV, a 226
Valarsaces, king (Armenia), II, a 480
Valaze, Charles Eléonore du Friche de, Girondist (Vergniaud), XXIV, b 179
Valbenoîte, abbey (St. Etienne), XXI, *b* 176
Valchita, hills (Patagonia), XVIII, a 358
Valckenaer, Lodewijck Caspar, philologist (Ruhnken), XXI, *b* 63; (Wyttenbach), XXIV, *b* 750, a b 751
Valdai plateau (Novgorod), XVII, b 621; (Russia), XXI, a 74, b 79, b 81
Val d'Aosta, II, b 129
Val de Grâce, Paris (Hospital), XII, a 320
Valdemar. See Waldemar
VALDEPEÑAS, town, Spain, XXIV, b 37–8; district (Wine), b 639
Val de Ruz, district (Neuchâtel), XVII, a 370
Valdés, inquisitor (Torture), XXIII, *a* 493
—— or Valdesso, Alphonso de, XXIV, *a* b 38
VALDES, Juan de, religious writer, XXIV, a b 38; (Spain), XXII, a 374
——, Juan Menendez, poet (Spain), XXII, b 374
Val de Travers, district (Asphalt), II, *b* 625; district (Neuchâtel), XVII, a 370, a 371
Valdez, Peter. See Waldo
Val di Mazzara or Mazza (Sicily), XXII, a 29
Val di Noto (Sicily), XXII, *a* 29, b 30
Val d'Ispica, cave-dwellings (Modica), XVI, a 566
Valdivia, province and town (Chili), V, *b* 536, *a* 537, a 538, b 539, a 540, a *b* 541; town (Dundonald), VII, a 467
——, Pedro de, captain (Chili), V, a 537
Valdo. See Waldo, Peter
Valee, Silvain Charles, comte de, marshal (Algeria), I, b 500–1
Valemíki, poet (Sanskrit), XXI, a 294, a 300
VALENCE, town of France, XXIV, b 38–9; (Universities), XXIII, b 894, b 897
——, Peter de, student (Reformation), XX, b 340
Valencia bay (Spain), XXII, a b 307
VALENCIA, province, XXIV, a b 39: (Spain), XXII, *b* 307, b 309, *a* 310, b 312, *b* 313, b 314, *a* 315, *b* 316; history of (Spain), b 320, *b* 336, b 337, a 338, a b 342, *a* b 343, b 344, *a* b 350, b 360, *a* 361
VALENCIA, city (Plan), XXIV, b 39–41; (Juanes), XIII, a 767; (Libraries), XIV, b 551; (Pottery and Porcelain), XIX, b 641; (Spain), XXII, a 313, a 317; decree of, 1814 (Ferdinand VII., Spain), IX, b 73; gallery (Schools of Painting), XXI, a 467; siege of, 1094 (Cid), V, a b 676
VALENCIA, Venezuela, town, XXIV, b 40–1; (Venezuela), b 150, a 152
Valenciana Mine (Guanajuato), XI, b 206
VALENCIENNES, town of France, XXIV, a b 41; (Coal), VI, a 52, a 53; (Froissart), IX, b 700, a 701; (Hainault), XI, *a* 336; (Lace), XIV, b 189
——, Achille, naturalist (Ichthyology), XII, a 670; (Whitebait), XXIV, b 581
——, Henri de, chronicler (Villehardouin), XXIV, a b 248
Valencinia, genus (Nemertines), XVII, a 336, b 337, b 338
Valency of elements (Chemistry), V, b 409–10
VALENS, Flavius, emperor, XXIV, b 41–2; (Monachism), XVI, a 728; (Rome), XX, a 797; (Ulfilas), XXIII, a 767
Valentia, province (Britannia), IV, a b 319; (Caledonia), a 589; (Patrick, St.), XVIII, b 421 note; (Scotland), XXI, a 495
——, Ireland, station (Meteorology), XVI, a 128, a 130, a 131
Valentin, Basil (Alchemy), I, *b* 413
——, Gabriel Gustav, biologist (Embryology), VIII, a b 153, a 155
Valentin, Vie du Caporal (Charlet), V, a 372
—— *and Orson* (Romance), XX, b 669
VALENTINE or VALENTINUS, name of saints, XXIV, a 42
Valentine, novel (Dudevant), VII, a 440
Valentineite (Mineralogy), XVI, a 395, b 404
Valentini, Michael B., naturalist (Ornithology), XVIII, b 11; (Swan), XXII, a 770
VALENTINIAN I., emperor, XXIV, b 42; (Damasus I.), VI, b 698; (Rome), XX, a b 797
VALENTINIAN II., emperor, XXIV, b 42–3; (Ambrose, St.), I, *b* 582, *a* b 583; (Rome), XX, a 797; (Theodosius I.), XXIII, a 278
VALENTINIAN III., emperor, XXIV, a 43; (Aëtius), I, a 202; (Popedom), XIX, b 506; (Roman Law), XX, b 729, b 730, *a* 731; (Rome), b 798, a 799; (Vandals), XXIV, a 65
Valentinianian Law of Citations (Roman Law), XX, b 730–1
Valentinois, duke of (Alexander VI.), I, a b 432
VALENTINUS, pope, XXIV, b 46
——, St., martyr, XXIV, a 42
—— of Interamna, bishop, XXIV, a 42
—— of Rhœtia, missionary, XXIV, a 42
VALENTINUS AND VALENTINIANS, XXIV, a 43–6
  age of, a b 43
  allegorical method of, a 45
  Bible, relation to the, b 46
  biographical sketch, b 43–4
  esoteric system of, b 45–6
  Gnosticism of, a 45–6
  Godhead, views of the, b 45–6
  literature, b 46
  sects formed, a b 44
  soteriology of, a b 46
  sources of information, a 44
  speculative influence of, b 46
  teaching of, b 44–6
—— (Canon), V, *a* 8; (Gnosticism), X, *b* 627, b 628; (Gospels), b 731; (Neoplatonism), XVII, a b 344
Valenzuela, Fernando de, marquis of Villafierra, statesman (Spain), XXII, a b 347
Vale of Eden (Westmorland), XXIV, a 541, b 542
—— of Evesham (Worcester), XXIV, *b* 700
—— of Exeter (Devonshire), VII, b 120
—— of Gloucester, X, *b* 613, *a b* 614, a 615
—— of Ovoca (Wicklow), XXIV, a *b* 588
—— of Petersfield (Hampshire), XI, b 384
—— of York (York), XXIV, a b 784
Valera, Juan, critic (Spain), XXII, a b 376
Valeria, province (Pannonia), XVIII, b 217
—— Augusta, city (Jativa), XIII, b 607
VALERIAN, plant, XXIV, b 46–7; (Botany) (Plate VIII), IV, a 99, b 116, a 119, a 120, b 122, a 140; (Spikenard), XXII, a 414
—— law (Rome), XX, b 755
Valerianic acid (Hops), XII, a 161; (Valerian), XXIV, *a* 47
VALERIANUS, Publius Licinius, Roman emperor, XXIV, a b 47; (Persia), XVIII, a b 619
Valérie (Krüdener), XIV, *b* 149
Valerio-Horatian laws (Rome), XX, b 756–7
Valerius, Johan David, poet (Sweden), XXII, a 795
VALERIUS, Publius, surnamed Publicola, Roman consul, XXIV, b 47
—— Antias, annalist (Livy), XIV, *b* 735–6
—— Flaccus. See FLACCUS
VALERIUS MAXIMUS, Latin writer, XXIV, b 47–8
—— Probus, author (Persius), XVIII, a 675

Valerius Terminus (Bacon), III, a 182
Valesiana (Ana), I, b 688
VALETTA or Valletta, town, XXIV, b 48; (Malta), XV, *b* 342, a b 343, a 344, *b* 345, a 346; (St. John of Jerusalem), XXI, *b* 183, b 184
Valet tapissier (Molière), XVI, b 646, a b 647, b 652
Valettas, translator (Greece), XI, a 131, b 136
Valette, grand-master. See La Valette
Valetudinarium (Hospital), XII, b 314
Vali, chief (Luristan), XV, a 70
Validé, title (Harem), XI, *a* 428
Valieri, Sylvester, doge (Venice), XXIV, a 159
Valino, mountain (Abruzzo), I, a 57
Valise equipment (Army), II, b 508
Valkyriur, myths (Æsir), I, b 190
VALLA, Lorenzo or Laurentius, humanist, XXIV, b 48-9; (Church History), V, b 668; (Ficino, M.), IX, *a* 122; (Reformation), XX, a 336
Vallabhāchārīs, sect (Hindustani Literature), XI, b 754
Valladolid, city of Mexico. See MORELIA
VALLADOLID, city, Spain, XXIV, b 49; (Universities), XXIII, a 895
VALLADOLID, city, Yucatan, XXIV, b 49-50
VALLADOLID, province, Spain, XXIV, a 49; (Spain), XXII, b 312, *b* 318
—— la Nueva, city (Comayagua), VI, a 159
Vallandigham, Clement L., politician (Lincoln), XIV, *a* b 668
Valla Placentinus, George, scholar (Encyclopædia), VIII, b 176
Vallarsi, Domenico, antiquary (Jerome), XIII, a 642
VALLE, Pietro della, traveller, XXIV, a b 50
Valleculæ (Anatomy), I, b 765
VALLEJO, California, city, XXIV, b 50
Vallespir, valley (Pyrénées), XX, a 134
Val Leventina, district. See Leventine
Valley, Perilous (Mandeville), XV, a 482
Valleyfield, town (Scotland), XXI, b 558
Valley Forge (United States), XXIII, a 792
—— of death, Java (Geology), X, a 224
—— of Virginia, XXIV, b 275, a 276, *a* 278
Valleys (Climate), VI, b 4-5; (Himalaya), XI, a b 736, b 737; (Scotland), XXI, b 546-7; (Siberia), XXII, a b 7; submerged (Geology), X, a 229
Vallière, Françoise Louise, duchesse de la (Bossuet), IV, a 63
Vallisneri, Antonio, physiologist (Embryology), VIII, b 151
Vallisneria, plant (Pochard), XIX, b 264, note
"Vallis Pœnina" (Valais), XXIV, *a* 37
Vallombrosa monastery (Galileo), X, b 28; (Monachism), XVI, b 734-5, b 741
VALLS, town, Spain, XXIV, b 50
Valmiki, poet (Hindustani Literature), XI, a 755
Valmy, battle of, 1792 (France), IX, a 532; (Goethe), X, a b 651; (Kellermann), XIV, b 30
——, duke of. See Kellermann
Valois, house of (Anjou), II, b 52; (Capet), V, *a* 50; (France), IX, a 481
——, Felix de, abbot (Trinitarians), XXIII, a 611
Valona, town. See AVLONA
Valonia, tanning bark (Avlona), III, b 136; (Greece), XI, b 79; (Leather), XIV, a b 382, *b* 391; (Oak), XVII, b 713
—— oak (Troad), XXIII, b 615, *a* 617
Valori, Baccio, politician (Medici), XV, b 798, b 799, a 800
——, Francesco, gonfalonier (Savonarola), XXI, a b 352, *b* 353
Valory, Madame de, painter (Greuze), XI, a 169
VALPARAISO (Plan), Chili, city, XXIV, b 50-1; province and city (Chili), V, *a* 535, *b* 536, b 537, a 538, *b* 539, *a* 540, *a b* 542
Valpy, Abraham John, publisher (Bibliography), III, b 568
——, Richard, educator (Talfourd), XXIII, a 34
Valréas, canton (Vaucluse), XXIV, b 124
Valrhein, mountain (Ticino), XXIII, b 373
Val Richer, monastery (Guizot), XI, b 237, a b 241
VALS or Vals-Les-Bains, village, XXIV, a 51
Val-Sainte, monastery (Trappists), XXIII, b 557, a 558
Valsalva, Antonio Maria, physician (Anatomy), I, b 713; (Morgagni), XVI, a b 848-9; (Vascular System), XXIV, b 111
Valserine, river (Jura), XIII, b 791, b 792
Val Soana dialect (Italy), XIII, *a* 502
VALTELLINA or Valtelline, valley, XXIV, a 51-2; (Grisons), XI, *b* 182, *a* 183; (Switzerland), XXII, *a* 830, b 831, a 833
Valturio, Roberto, engineer (Rimini), XX, b 573
Valturius de Re Militari (Ramusio, P.), XX, a 281
Valuation, fire Insurance, XIII, b 170
——, life Insurance, XIII, b 177-9, b 181-5; American standards of, a 189, note; net premium, a b 183, b 189
——, marine Insurance, XIII, a 191
——, systems of (Commerce), VI, b 182, note
VALUE, XXIV, a 52-8
    competition, a 55
VALUE, *continued*
    elements of productive cost, a 56
    equation of supply and demand, b 54
    formula for production, a b 56
    international exchanges, a b 58
    joint products, a 58
    Mill's position, a 52
    mining produce, b 57-8
    monopoly, b 54-5
    normal value, b 55-6
    price, b 52-3
    production cost, a 55-6
    progress and rent, b 57
    relative values, b 56
    rent theory, b 56-7
    supply and demand, b 53-4
    three laws of, b 53
    use and exchange, a 52-3
    utility theory, a b 53
    wages, b 55
—— (Say), XXI, a 377; (Wealth), XXIV, b 487, *a* 488; ancient (Money), XVI, a 753; changes in (Money), b 755; (Value), XXIV, b 56; labor and (Socialism), XXII, a b 223; measure of (Money), XVI, b 746, a b 747; Bastiat on, III, a 371; (Political Economy), XIX, a b 399; Cairnes on (Cairnes), IV, a 572; (Political Economy), XIX, b 394; Carey on exchange (Political Economy), a 398; Ricardo on (Political Economy), a b 387; Smith on (Political Economy), a 380, a 383 unit of (Political Economy), b 370
Valvata, genus (Mollusca) (Ill.), XVI, a 673, a 675
Valvatidæ, family (Snail), XXII, b 197, a 198
Valve (Horn, French), XII, b 171; balloon (Aëronautics), I, b 186, a 187; Jenkin's constant flow (Hydromechanics) (Ill.), XII, b 502-3, a 504; mussel (Mollusca) (Ill.), XVI, a 712, a 713; triple brake (Railway) (Ill.), XX, a 260
—— -gear, Corliss's (Steam-Engine), XXII, b 921
—— -pipe (Hydromechanics), XII, b 512-3; -ram (Hydromechanics), b 504; -rod (Steam-Engine), XXII, a b 538
Valverde, town (Canary Islands), IV, b 706
Valves, automatic, invention of (Steam-Engine), XXII, a b 492; locomotive (Steam-Engine), b 547-8, b 924
——, cardiac (Anatomy), I, b 790, *a b* 791, *a* 792; (Vascular System), XXIV, a b 107, a 109, b 110, a 116
——, fœtal (Vascular System), XXIV, a 119
—— and valve motions (Steam-Engine) (Ill.), XXII, a 523-9
——, venous (Anatomy), I, *b* 710, a b 795; (Vascular System), XXIV, a 113
——, water pipe- (Hydromechanics), XII, b 512-3
Valve tower (Water-Supply), XXIV, a 430
Valvulæ conniventes (Digestive Organs), VII, b 196; (Nutrition), XVII, a 688
Valvular disease (Heart), XI, a 494
Vályi-Nagy, translator (Hungary), XII, a 392
Valylene (Chemistry), V, b 485
Valz (Micrometer), XVI, b 261
Vámbéry, Arminius, traveller (Hungary), XII, b 389, *b* 395
Vamcāvali, chronicle (Nepāl), XVII, a 353
VAMPIRE, mammal (Ill.), XXIV, b 58-60; (Apparitions), II, b 178; (Bat), III, b 372; (Demonology), VII, a b 55; (Mammalia), XV, b 412, a b 419
Vampyrella, genus (Animal Kingdom), II, b 45; (Protozoa) (Ill.), XIX, a 860, b 861, a 862
Vampyrus spectrum, mammal (Vampire), XXIV, a 59
Vamsa-brahmana (Sanskrit), XXI, a 291
VAN, city and lake, XXIV, a b 60; (Lake), XIV, a b 223; (Turkey), XXIII, b 695
——, mountains (Brecon), IV, a 218
——, Armenian king, XXIV, a 60
Vanadate solutions (Vanadium), XXIV, a 61
Vanadic acid (Vanadium), XXIV, b 60, a 61; anhydride (Chemistry), V, a 468
Vanadinite, mineral (Chemistry), V, a 408; (Mineralogy) (Ill.), XVI, a 425; (Vanadium), XXIV, b 60
VANADIUM, metal, XXIV, b 60-1; (Chemistry), V, a 467-8; (Metals), XVI, b 68; (Niobium), XVII, a 527
VANBRUGH, Sir John, dramatist, XXIV, a 61-3
    architectural period, a b 62
    causes of success, a b 61
    critical estimate, b 62-3
    dramatic period, b 61-2
    last years, b 62
—— (Architecture), II, a 388; (Cibber), V, b 672, *a* 673; (Drama), VII, b 375, a 377; (Marlborough), XV, b 561; (Wycherly), XXIV, a 741, *b* 742, *a b* 743
Van Buren, John, lawyer, XXIV, b 63 note
VAN BUREN, Martin, president, XXIV, a 63; (Jackson, A.), XIII, b 543, *a* 544 (Tammany Society), XXIII, b 920; (United States), a 813, b 814, *a b* 815, b 816; (Wright), XXIV, b 727, note
VANCOUVER ISLAND (Plate III), XXIV, a b 64; (Canada), IV, b 676, b 687; (Columbia, British), VI, *a* 152; (Mythology), XVII, b 155

VANCOUVER, George, navigator, XXIV, b 63-4; (Geography), X, a 170

VANDALS, nation, XXIV, b 64-6; (Belisarius), III, b 462; (Genseric), X, a 143; (Germany), a 425, *b* 427; (Issoire), XIII, b 442; (Justinian I.), b 806; (Leo I., Emperor), XIV, a 453; (Manichæism), XV, a 494; (Rome), XX, *b* 798, *a* 799; (Spain), XXII, b 322, *a* 323

Van Depoele system (Traction), XXIII, a 527

VANDERBILT, Cornelius, capitalist, XXIV, a *b* 875

——, Cornelius 2d, XXIV, b 875

VANDERBILT, William Henry, capitalist, XXIV, b 875; (Horse), XII, a 209

Van der Goes. See GOES

Van der Helst. See HELST

Van der Heyden. See HEYDEN

VANDERLYN, John, painter, XXIV, a 876

Van der Meer. See MEER

Vandemonde, N., mathematician (Equation), VIII, a 419

VANDEVELDE, Adrian, painter, XXIV, a b 66

——, William, the Elder, painter, XXIV, *b* 66

VANDEVELDE, William, the Younger, painter, XXIV, b 66; (Schools of Painting), XXI, b 459, a 464

Van Diemen, Anton, admiral. See Diemen, Anton van

Van Diemen's gulf (Australia), III, a 93

—— Land. See TASMANIA

VAN DYCK, Sir Anthony, painter, XXIV, b 66-71

  Antwerp, third period, b 69-70

  court employment, a b 69-70

  critical estimate of, a b 71

  engraving, b 71

  family relations, b 66, a b 70, a 71

  Flemish, second period, b 68-9

  Genoa period, b 67-8

  Italian work, b 67-8

  journey from Italy to Antwerp, a b 68

  last year of, b 70-1

  literature, b 71

  London, first period, a 67

  London, second period, a b 69

  London, third period, a 70-1

  minority period, b 66-7

  travelling period, a 67

—— (Beck), III, b 413; (Schools of Painting), XXI, b 458; (Rubens), b 48

——, Justiniana Anna, artist, XXIV, a 71

Vane, Sir Henry, Sr., XXIV, b 71

VANE, Sir Henry, statesman, XXIV, b 71-3; (Lambert), XIV, *a* 238

Vane, weather- (Architecture), II, a 419

Vanegas, Alexo, bibliographer, III, a 573

Vanellus, genus (Lapwing), XIV, b 308-9

Vanes (Hydromechanics), XII, b 541-2; turbine (Hydromechanics), b 558-9, a 561, b 562-3

Vanessa of Swift, Esther Vanhomrigh (Berkeley), III, a 510; (Swift), XXII, *b* 803-4

Van Eyck, Hubert, painter, VIII, b 712-3; (Ghent), X, a 504; (Ghent, J.), *a* 505

VAN EYCK Jan, painter, VIII, a b 713; (Goes), X, *b* 642; (Painting), XVIII, b 142; (Raphael), XX, *b* 286

Van Eycks, painters, VIII, b 712-3; (Miniature), XVI, a 459; (Mural Decoration), XVII, a b 52; (Schools of Painting) (Ill.), XXI, b 457-8, *b* 463, a b 466, b 467

Van Goyen, painter. See GOYEN

Van Haren, poets. See HAREN

Van Helmont. See HELMONT

Vanikoro, island (La Perouse), XIV, b 298; (New Hebrides), XVII, b 405

Vanil des Arzes (Freiburg), IX, b 670

VANILLA, orchid, XXIV, a 73-4; (Orchids), XVII, b 841; (Réunion), XX, a 507

Vanillin (Chemistry), V, a 497; (Perfumery), XVIII, b 536, a 537; (Vanilla), XXIV, *b* 73, *a* 74

Vanillon, variety (Vanilla), XXIV, b 73

Vanil Noir, mountain (Freiburg), IX, b 670

VANINI, Lucilio, philosopher, XXIV, a b 74; (Astrology), II, *b* 648, a 649

Vanir, elves (Æsir), I, *a* 190

Vanishes, vowel (Speech-Sounds), XXII, a 397

Vanishing magnetism (Magnetism), XV, b 260-1

—— point (Projection), XIX, a b 827

Vanity Fair, novel (Caricature), V, b 93; (Thackeray), XXIII, b 233-4

—— *of Dogmatizing* (Glanvill), X, b 566

—— *of Human Wishes* (Johnson, S.), XIII, b 733, b 740

VANLOO, Charles Andrew, painter, XXIV, b 74

——, Jacob, painter (Neer), XVII, a 324

VANLOO, John Baptist, painter, XXIV, b 74-5

Van Mander, Carel, painter (Hals), XI, a 357; (Lucas), XV, *a* b 40; (Gossart), X, *b* 750

Van Meteren, Jacob, publisher (English Bible), VIII, a b 345

Van-mine (Mining), XVI, a 474

Van-Mohair, XVI, b 568

Vanne, river (Paris), XVIII, a 285

VANNES, town, XXIV, a 75

Vannessa, genus (Butterflies and Moths) (Plate XXVIII), IV, *a* 529, a 530

Vanneur de Blé aux Vents (Bellay), III, a 470

Vannucci. See PERUGINO and SARTO

Van Nuysen, painter. See JANSSENS

Vanoise, mountains (Savoie), XXI, b 347

Van Noort. See Noort

Vanozza, Rosa (Alexander VI.), I, *a* 431

VAN RENSSELAER, family, XXIV, a 876-7

——, Cortlandt, clergyman, XXIV, a 877

——, Henry, staff-officer, XXIV, a 877

——, Henry Killian, colonel, XXIV, b 876

——, Jeremiah, congressman, XXIV, b 876

——, Killiaen, colonist, XXIV, b 876

——, Solomon, soldier, XXIV, b 876-7

VAN RENSSELAER, Stephen, patroon, XXIV, b 876, a 877

Vansittart, governor (Hastings), XI, *a* 458

Van Tilborgh, painters. See Tilborgh

Van Twiller, governor. See Twiller

Vanua Levu, island (Fiji Islands), IX, b 136, *a* 137

Van Veen, painter. See VEEN

Vanvitelli, Luigi, architect, (Caserta), V, a 153

Vapincum, town. See Gap

Vapor. See Evaporation, Gases, Steam

——, aqueous (Atmosphere), III, b 29-30; (Aurora), b 82; (Himalaya), XI, *b* 740

——, density of (Iodine), XIII, b 208-9; (Molecule), XVI, b 644, a 646; (Organic Chemistry), V, b 474-5; (Pyrometer), XX, a b 137; (Sainte-Claire Deville), XXI, b 174

——, Metallic, XVI, a 69; volcanic (Geology), X, b 215-6, a b 220, *b* 221, b 225; temperature and (Barometer), III, b 332-3

Vapor-Baths, III, b 378, a 379, *a* 381

Vaporer, moth (Butterflies), (Plate XXXI), IV, a 528, a 531

—— pressure (Meteorology), XVI, a 124-5, a 143

"Vapors," nervous disease (Hypochondriasis), XII, b 632-3

VAR, department, XXIV, a 75-6

——, river (Alpes), I, a b 527; (France), IX, b 446; (Italy), XIII, a 444, b 446; (Liguria), XIV, a b 646; valley of the (Perfumery), XVIII, b 537-8

Vara, measure (Weights and Measures), XXIV, a 518

Varady, Anthony, dramatist, (Hungary), XII, b 393, a 394

Varaita river (Italy), XIII, a 445

Varanger Fiord (Russia), XXI, *b* 79, b 84

Varangians, mercenary troops (Constantinople), VI, *a* 270, b 274; (Greece), XI, a 104; (Harold III.), b 433; (Khazars), XIV, b 62; (Novgorod), XVII, a b 622; race (Russia), XXI, a 96

Vararuci, grammarian (Prakrit), XIX, b 679

VARASD, city, XXIV, a 76

Varastad, athlete (Games), X, a 58

Vardanes, king of Parthia (Persia), XVIII, a b 612

Vardar, gate or pass (Macedonia), XV, *b* 137, *a* b 138

Vardhamāna, prophet (Jains), XIII, a 553

Vardö, town (Norway), XVII, *a* *b* 593, *a* b 594

Varel, town (Oldenburg), XVII, b 778, a 779

VAREN, Bernhard, geographer, XXIV, a b 76

Varennes, Jacques Nicolas, Billaud de, revolutionist (Danton), VI, a 720

Varese, lake (Italy), XIII, b 449

Vargas, Francis, jurist (Trent, Council of), XXIII, a b 581, a b 586

Varia, town (Sabines), XXI, a 138

Variability (Breeds), IV, b 219, b 220, a 222-3; (Instinct), XIII, *b* 164-5; of race (Anthropology), II, a b 101

VARIABLE, COMPLEX, mathematical, XXIV, b 76-83

  absolute convergence, Cauchy's, b 78-9

  circle of convergence, roots within, a b 79

  complex number defined, b 76

  continuous, one-valued, or analytic function, a 79

  definite range of complex numbers, b 77

  elementary examples of functions, a b 78

  elliptic functions, a 82

  four quantities, integrals of, a 82-3

  functions defined, b 77-8

  real functions with a finite continuous boundary, a 80-1

  real values, representation of, b 76-7

  reproduction of complex numbers, a b 77

  series of powers, development in, a 81-2

  Taylor's series, convergence of, a 81-2

  theorem of Cauchy, results of, b 79-80

  three quantities, functions of, b 78-9

—— amplitude and phase (Wave Theory), XXIV, a b 464; effort (Mechanics), XV, b 774

—— stars (Sun), XXII, b 685-6

VARIATION AND SELECTION, XXIV, a 83-92

  HISTORY OF THEORIES, a 83-5

    Darwin's influence, b 84-5

    early writers, Buffon to Carus, a 83-4

    summary of views, a 84-5

  LAWS OF VARIATION, a 90-2

    animal kingdom, new theory of, a b 92

- VARIATION AND SELECTION, *continued*
  - LAWS OF VARIATION
    - correlated variation, b 90
    - Darwin's theory, a 90-1
    - environment, a b 90
    - mechanical forces, b 90
    - preponderance of species over individuals, a 91-2
    - proposed new theory, a 91-2
    - summary of recent opinion, b 90-1, b 92
    - use and disuse, b 90
    - vegetation, reproductive arrest of, b 91-2
  - NATURAL SELECTION THEORY, a 85-90
    - biological view, a 89-90
    - controversy, nature of the, b 86-8
    - Darwin's case, a b 87
    - definite lines of variation, a 88
    - divergence of species, b 86
    - domestic variation, a b 85
    - Huxley's view, b 86-7
    - indefinite variation, b 88-9
    - natural variation, b 85-8
    - organic structure, b 89-90
    - *Origin of Species*, analysis of, a 85-6
    - physiological selection, b 89-90
    - sexual selection, b 89
    - struggle for existence, b 85-8
    - uniformitarianism b 87-8
- —— (Botany), IV, b 71-2; (Louse), XV, *b* 26; constitutional (Acclimatization), I, a 82
- ——, lunar (Astronomy), II, b 657, a 699; (Gravitation), XI, b 67-8; (Moon), XVI, a 826, b 827
- —— cut-off valve (Steam-Engine), XXII, a 528, b 531, a 532
- *Variation of Animals and Plants under Domestication* (Hybridism), XII, a b 439; (Variation and Selection), XXIV, b 88, note, a 90
- —— of curtate distances (Comet), VI, b 169
- VARIATIONS, Calculus of, XXIV, a 92-8
- ——, Magnetic, XV, b 220 notes, b 221-2; (Arago), II, a 266; (Compass), VI, *a* 201; (Halley), XI, *a* 355; (Meteorology) (Ill.), XVI, b 168-88; (Surveys), XXII, a 940; determination at sea of (Surveying), b 750; diurnal (Meteorology), XVI, a 173, a 189, a 190; solar (Meteorology), b 188-9
- ——, superposition of (Optics), XVII, b 821
- Varicose veins (Surgery), XXII, a 719
- Varicourt, Reine Philiberte de, Marquise de Villette (Voltaire), XXIV, *b* 311
- Varignon, Pierre, mathematician (Infinitesimal Calculus), XIII, a b 13
- Varillas, Anthony, historian (Burnet, Bishop), IV, a 503
- Varinus, lexicographer (Guarino), XI, a 211
- Variocele, disease (Surgery), XXII, a 719
- Variola, disease (Smallpox), XXII, a 172-4; (Vaccination), XXIV, b 28, *a b* 29, *a* b 30, a b 31, a 32, a 33
- Variolaria (Lichens), XIV, b 556
- Varioloid, disease (Smallpox), XXII, a b 173
- *Variorum Classics* (Bibliography), III, b 568
- Variscite (Mineralogy), XVI, b 422
- Varius, Avitus Bassianus. See HELIOGABALUS
- Varlet, Dominique Marie, bishop (Episcopacy), VIII, a *b* 436
- VARLEY, Cornelius, painter, XXIV, a 98
- ——, Cromwell F., electrician (Electricity), VIII, a 51; (Telephone), XXIII, a 139, his double cup insulator (Telegraph) (Ill.), b 121; his machine (Electricity), VIII, a 96; his model cable (Telegraph), XXIII, a 133
- VARLEY, John, painter XXIV, b 98; (Mulready), XVII, a 25
- VARNA, town, XXIV, b 98-9; battle of, 1444 (Hungary), XII, a 383; (Poland), XIX, a 301; (Turkey), XXIII, a 683
- VARNHAGEN VON ENSE, Karl August, biographer, XXIV, a 99; (Heine), XI, b 558
- ——, Rahel Antoine Friederike, authoress, XXIV, a 99
- VARNISH, film, XXIV, a 99-100; (Elemi), VIII, a 116; (Eucalyptus), b 570; (Japan), XIII, a 601; (Japanning), a 603; (Lacquer), XIV, a b 195; (Linseed), a 684; (Oils), XVII, *a b* 767; (Painting), XVIII, b 142; (Resins), XX, a 488; (Tar), XXIII, a 64
- Varnishing (Building), IV, b 458-9
- Varoli or Varolius, Constantius, physician (Anatomy), I, b 709, a 710, a 712, b 715
- Varquero y Vares bay (Galicia), X, a 25
- Varrentrapp and Will's analysis (Nitrogen), XVII, b 533
- VARRO, Marcus Terentius, scholar, XXIV, a 100-2
  - belles-lettres, treatises of, a 101
  - editions of, a 102
  - educational influences on, a b 100
  - historical works of, a b 101
  - literary productiveness, b 100-1
- VARRO, *continued*
  - public career of, b 100
  - technical books of, b 101-2
- —— (Chronology), V, a b 617, a *b* 618; (Latin Language), XIV, a b 334; (Libraries), b 510, a 511; (Political Economy), XIX, *b* 363; (Roman Law), XX, b 690, b 697, a 700 note, b 712, a *b* 719; (Rome), a 768, a b 834, a 844 note; (Theology), XXIII, a 280; (Veterinary Science), XXIV, a b 213
- ——, Terentius, consul (Hannibal), XI, *a* 396
- VARRO Atacinus, Publius Terentius, poet, XXIV, a b 102
- *Varronianus* (Donaldson), VII, *a* 310
- Varthema, Ludovico di, traveller (Geography), X, b 160
- *Vārttā* (Hindustani Literature), XI, b 754, b 755-6
- Varuna, deity (Zoroaster), XXIV, b 860, *a* 861
- Varus, Quintilius, defeat of, 9 B.C. (Germanicus), X, b 400; (Germany), b 426
- ——, Quintilius, 2d, critic (Horace), XII, a 165 note
- Varvicite (Mineralogy), XVI, a 403
- "Varying action" (Hamilton, Sir W. R.), XI, *b* 377; law of (Light), XIV, b 602, a b 603
- VASA, Gustavus, king. See GUSTAVUS I. of Sweden
- —— afferentia et efferentia (Anatomy), I, a 797
- —— deferentia (Reptiles), XX, a b 476; (Worm), XXIV, b 716-7, b 718
- Vásárhely. See HODMEZO-VÁSÁRHELY and MAROS-VÁSÁRHELY
- VASARI, Giorgio, artist and historian, XXIV, b 102-3; (Baidovinetti), III, *b* 237; (Botticelli), IV, *b* 151, *a* 152; (Cimabue), V, a b 680; (Giorgione), X, a b 542, a b 543; (Giottino), *a* 543; (Lippi), XIV, a *b* 690; (Michel Angelo), XVI, b 243; (Mino di Giovanni), b 500; (Mural Decoration), XVII, b 52; (Niello), a 507, a 508; (Orcagna), *a b* 838, notes, *a* b 839, note; (Parmigiano), XVIII, a b 323; (Perugino), b 695, a b 696; (Piero), XIX, *a* 91; (Pinturicchio), a 117, a b 118; (Pisano), *b* 132; (Raphael), XX, *b* 293, note, a b 294 note; (Robbia), b 604, notes, b 605, a 606; (Rosselli), a *b* 879; (Sarto), XXI, b 330, *b* 331; (Schools of Painting), a 451, b 454, *b* 452, notes; (Sodoma), XXII, b 258; (Signorelli), a 56; (Titian), XXIII, b 442; (Zuccaro), XXIV, b 864, *a* b 865
- Vasa vasorum (Anatomy), I, b 793, a 795; (Vascular System), XXIV, b 112
- Vasco, Giambattista, publicist (Political Economy), XIX, b 375-6
- —— da Gama, navigator. See GAMA, Vasco Da
- Vascones, tribe (Navarra), XVII, b 256. See Basques
- Vascular bundles (Histology), XII, a 19, b 20; incontinence (Pathology), XVIII, b 409, a 410
- Vascularization, excessive (Pathology), XVIII, b 380
- VASCULAR SYSTEM (Ill.), XXIV, a 103-20
  - HISTORICAL SKETCH, a 103-6
    - capillary circulation, b 104
    - Cesalpinus, discoveries of, a 104
    - discovery of blood circulation, a b 104
    - force of heart, a b 105
    - Galen, a 103
    - instruments of measurement, b 105-6
    - nerve functions, a 106
    - sixteenth century, b 103-4
    - transfusion of blood, b 104-5
    - velocity of blood, b 105
  - PHYSIOLOGY OF CIRCULATION, a 106-20
    - apex beat of heart, a b 109
    - arterial circulation, a 113-4
    - arterial pressure, b 116
    - bibliography, a 120
    - blood-vessels, structure of, b 112-3
    - capillary circulation, b 114-5
    - capillary pressure, a 117
    - contractions, nature of cardiac, b 109-10
    - course of circulation (Ill.), a b 106
    - cycle of heart movements, b 108-9, b 110-1
    - diastole and systole movements, a b 108
    - dimensions and weight of heart, b 107-8
    - distribution of blood, a b 118
    - dynamics of pulse, b 113-4
    - examination of living heart, a 108
    - flow of fluids in tubes, a b 112
    - fœtal circulation, a b 119
    - graphic cardiac pulsations, b 109
    - heart action (Ill.), b 106-12
    - hepatic circulation, b 118
    - innervation of blood-vessels, b 119-20
    - innervation, cardiac, b 111-12
    - lymphatics, cardiac, a 111
    - movements of heart, a 108-10

Vascular System, *continued*
  Physiology of Circulation
    muscles, cardiac, b 106–7
    nutrition, cardiac, a 111
    organs, volume of, a 118
    persistence of heart action, a 111
    pressure in blood-vessels, a 116–7
    pulmonary circulation, b 118–9
    pulse, arterial, a 113–4
    pulse, venous, b 115–6
    quantity of blood in heart, a 110
    respiration, heart-action in, a b 111
    respiration and pulse, a b 114
    respiration and vasomotor centre, b 119–20
    sphygmograph, a b 113
    sounds, arterial, b 114
    sounds of heart, a b 110–1
    sounds, venous, a 116
    time of cardiac movements, a 110
    time of circulation, b 117–8
    valves, cardiac, a b 107
    velocity of blood, a b 117
    venous circulation, b 115–6
    venous pressure, b 116–7
    vital properties of capillaries, a b 115
—— (Anatomy) (Ill.), I, b 789–97
  arteries, a 792–5
  blood, b 789–97
  capillaries, a 795
  development, b 797–8
  heart (Ill.), a 790–2
  lymphatic, b 796–7
  thoracic viscera, a 790
  veins, a 795–6
—— (Brachiopoda), IV, a 173; (Mollusca), XVI, b 656–7, b 658, b 665–6, b 673–5, a b 682, b 685, b 690, a 692, a 703–4, b 710, a 717–8; (Physiology), XIX, b 19–20; (Reptiles), XX, a 472–3; (Vertebrata), XXIV, b 197, *a* 201, a 202, a 203; (Worm), b 713–4, a b 719
—— of plants (Botany), IV, *b* 81, a 82, b 94
Vas deferens. See Vasa deferentia
Vase, Bartlow, the (Enamel), VIII, b 168; Corsini (Archæology), II, a 320; (François (Architecture), a 404. See Portland Vase; Vivenzio (Archæology), b 313
Vaseline, ointment (Petroleum), XVIII, b 732, b 733
Vases (Alhambra), I, a 504; (Babylonia), III, a 164; (Canosa), V, b 22; (Pottery and Porcelain) (Ill.), XIX, a b 625, a b 626, a b 627–35; (Weights and Measures), XXIV, *a* 513; Assyrian (Pottery), XIX, b 622–3; Chinese (Glass), X, b 580; (Pottery and Porcelain), XIX, b 640–1
——, Egyptian (Bottle) (Ill.), IV, b 152, a 153; (Glass), X, a 577; (Plate) (Ill.), XIX, b 189; (Pottery and Porcelain), a b 621
——, Etruscan, VIII, b 563–4, a b 566; (Pottery and Porcelain) (Ill.), XIX, a 633–5
——, Greek (Archæology) (Ill.), II, a b 304, a 309, b 313, a 314, b 318; (Athletæ); III, b 12; (Cyrene), VI, a 663; (Drawing), VII, b 387; (Hector), XI, a 544; (Metal-Work), XVI, b 79; (Plate) (Ill.), XIX, b 190, b 191; (Pottery and Porcelain) (Ill.), a 624–33; (Zeuxis), XXIV, b 822
——, Persian (Metal-Work) (Ill.), XVI, a b 84; (Pottery and Porcelain), XIX, b 640–1
——, Roman (Archæology), II, a *b* 320; (Glass), X, a 579; (Pottery and Porcelain), XIX, a 636–7. See Amphora, Oenochoe
Vashishtha, sage (India), XII, *b* 820, b 821 note
Vasilii or Basil I., grand-duke (Russia), XXI, b 99
—— II., Blind, grand-duke (Russia), XXI, b 99
—— III., Ivanovitch, grand-duke (Russia), XXI, a b 100
—— Shuiski, usurper (Russia), XXI, *a b* 103–4
Vasilkoff, town, XXIV, a b 120
Vasilyevsky, island (St. Petersburg), XXI, *a* b 200, a 202, b 204
Vasisa, river (Florida), IX, a 296
Vaso-constrictor nerves (Physiology), XIX, b 34–5
Vaso-dentine (Digestive Organs), VII, a 204; (Mammalia), XV, a 352
Vaso-dilator nerves (Physiology), XIX, b 34–5
Vaso-motor inhibition (Physiology), XIX, b 34
—— nerves (Anatomy), I, b 775, a b 776, a 795; (Physiology), XIX, b 50; (Vascular System), XXIV, *b* 119, a 120
Vasques, race (Gascony), X, a 94. See Basques
Vassalage (Army), II, b 493–4; (Land), XIV, b 264; Celtic (Clan), V, b 698
Vassar, Matthew, philanthropist, XXIV, a 877; (Poughkeepsie), XIX, a b 664
—— College, XXIV, a 877; (Gare-Fowl), X, a 72; (Poughkeepsie), XIX, a 664; (Raymond, J. H.), XX, b 896; (Universities), XXIII, a b 956, a 959, b 962; (Women), XXIV, 912
Vasseur, Thérèse le, mistress (Rousseau), XXI, a 30, b 31, *a* 32
Vasto, town, XXIV, b 120
Vasvár, peace of, 1664 (Hungary), XII, b 384
Vas Vármegye, county. See Eisenburg
Vasyugan, river (Tomsk), XXIII, a 467
Vatatzes, epithet. See John III, of Nicæa
Vaté or Sandwich island (New Hebrides), XVII, a *b* 405
Vater, Johann Severin, philologist (Pentateuch), XVIII, a 516, note
—— corpuscles (Touch) (Ill.), XXIII, a b 510
Vateria indica, tree (Oils), XVII, a 768
Vates, soothsayers (Roman Literature), XX, a 736
Vathy, town (Ithaca), XIII, a 527
—— town (Samos), XXI, b 262
Vatican, palace (Arabesque), II, a b 204; (Botticelli), IV, a 151; (Domenichino), VII, b 302; (Fresco), IX, a 680; (Laocoon) (Plate V), XIV, a 293; (Michel Angelo), XVI, a 243; (Pinturicchio), XIX, *b* 117–8; (Pippi), *b* 121; (Pius VI.), b 165; (Raphael), XX, b 289–91; (Robbia), a 607; (Rome), b 857, b 858, a b 859; (Sacchi), XXI, b 138; (Schools of Painting), a 467; (Sculpture), a 582; (Sodoma), XXII, b 258; (Tempera), XXIII, a 174; (Terra-Cotta), b 210; (Vaga), XXIV, a 36; mosaics in (Italy), XIII, b 464
Vatican Council, XXIV, b 120–4
  bibliography, b 123–4
  composition of, b 121–2
  constitution on the Church, b 122–3
  Jesuits, ultramontanism of, b 120–1
  methods of procedure, a b 122
  opposition, b 121, *a* b 123
  Pius IX., character of, a 121
  preliminary preparations, a b 121
  results, b 123
  Tridentine Council, b 120
—— (Council), VI, b 454; (Darboy), a 724; (Spalding), XXII, b 917; (Trent, Council of), XXIII, a 580
Vatican Fragments (Roman Law), XX, a b 731
—— Library, XIV, a 527, a b 528, b 550; (Assemani), II, b 636, a 637; (Cicognara), V, b 675; (Fontana, D.), IX, a 318; (Mai), XV, a 296; (Miniature), XVI, a 457
—— *Manuscripts* (Canon), V, b 6; (Palæography), XVIII, b 151, a b 152, a 153, a b 156, a 157, a 168
Vatke, Johann Karl Wilhelm, theologian (Pentateuch), XVIII, b 516, note, a 519
Vatnajökull, ice field (Iceland), XII, b 651, *b* 652
Vatopede, convent of (Abbey), I, a 18
Vattel, Emer de, jurist, XXIV, a 124; (International Law), XIII, b 197, a b 202; (Balance of Power), III, a 231
Vatteluttu, alphabet (Tamils), XXIII, a 47
Vattemare, Alexandre, bibliographer (Libraries), XIV, b 541
Vauban, Sebastien Le Prestre de, marshal, XXIV, a b 124; (Arms), II, b 489; (Coehorn), VI, a 98; (Colbert), b 111, (Fortification), IX, *a* 390, a 392–4, b 401, a 402; (France), b 589; (Luxemburg), XV, b 89; (Metz), XVI, a 212; (Mézières), b 231; (Political Economy), XIX, a 372
Vaubernier. See DuBarry
Vaubois, Comte de, general (Malta), XV, a 346
Vaucanson, Jacques de, mechanic (Automaton), III, a 124; (Weaving), XXIV, b 491, b 492
Vaucheria, plant (Botany) (Ill.), IV, b 144, a 145
Vaucher's law of seiches (Lake), XIV, b 221
Vaucluse, department, XXIV, b 124–5; mountains, *b* 124
——, valley (Petrarch), XVIII, b 720, a 721, a 722, a 724
Vaud, canton, XXIV, a 125–6; (Switzerland), XXII, b 815, a *b* 816, b 818, a 819, a b 826, b 829, *a b* 831, *b* 832
Vaudevilles, plays (Basselin), III, b 367; (Drama), VII, a 369; (Heiberg), XI, a 555, note; (Pantomime), XVIII, b 219
Vaudois, sect (Arnaud), II, b 541–2; (Milton, John), XVI, b 345, a 346; (Waldenses), XXIV, b 343–6. See Waldenses
Vaughan, Henry, poet, XXIV, a b 126
——, Richard, earl of Carbery (Taylor), XXIII, *b* 100
——, Robert, antiquary (Celtic Literature), V, b 272
Vaughan, Thomas, alchemist, XXIV, b 126
Vaulting, groined (Architecture), II, a 409
Vaults, burial (Cremation), VI, a 501
Vauquelin, Louis Nicolas, chemist, XXIV, b 126–7; (Mitscherlich), XVI, a 555; (Orfila), XVII, *a* 852; (Thénard), XXIII, *a* 271; (Urea), XXIV, a 15
—— de la Fresnaye, Jean, poet (France), IX, a 573
Vauquelinite (Mineralogy) (Ill.), XVI, a 420
Vautherin sleepers (Railway), XX, a b 254
Vauvenargues, Luc de Clapiers, marquis de, moralist, XXIV, a 127–8; (France), IX, b 589
Vaux, Clotilde de (Comte), VI, b 207
—— de vire, song (France), IX, *b* 569
Vauxhall Bridge (London), XIV, *a* b 832, b 834; gardens (Hogarth), XII, a 50
Vavasseur guns (Gunmaking), XI, b 257
Vavau, island (Friendly Islands), IX, *a* 684

Vàvavàto, mountain (Madagascar), XV, a 169
Vaziji-oghlu chronicler (Turkey), XXIII, a 698
Vazimba, aborigines (Madagascar), XV, a 174
Vazuza river (Smolensk), XXII, a 193
Vecchie families (Morosini), XVI, b 862
Vecchietta, Il, Lorenzo di Pietro, sculptor (Siena), XXII, b 49
Vecelli family (Titian), XXIII, a 441, b 443
——, Francesco, painter (Titian), XXIII, b 443
——, Gregorio, soldier (Titian), XXIII, a 441
——, Marco, painter (Titian), XXIII, b 443
——, Orazio, painter (Titian), XXIII, b 442, b 443
—— or Vecellio, Tiziano, painter. See TITIAN
Vecht river (Hanover), XI, a 399
Vector (Mechanic), XV, a 684; potential (Electricity), VIII, a 23, b 64–5; (Magnetism), XV, b 230, a 234
Vedangas (Sanskrit), XXI, a 287
VEDANTA, literature, XXIV, a 128–31
  Brahman, doctrine of, b 129–30
  contemplation, uses of, a b 131
  cosmology of illusions, a b 129
  emancipation, b 129, b 130–1
  evolution in the, a b 130
  extracts from the, b 128
  general features, a 128
  philosophy of, a 128–31
  sublation of illusion, a 131
  successive orders of intelligence, b 130–1
  transmigration, b 128–9
—— (Brahmanism), IV, *b* 188; (Sanskrit), XXI, a b 303, a b 304
Vedas (Aryan), II, b 587–9; (Asia), b 610; (Astrology), b 646; (Brahmanism), IV, b 182–3; (Caste), V, a b 164, b 165; (Graces), XI, a 24; (Hera), b 605–6; (Hermes), a b 670; (Hestia), b 698; (India), XII, b 815–6, a b 819, *a b* 820, *b* 821, note, a 822; (Jains), XIII, b 553, a 554; (Muir), XVII, a 19; (Mythology), *b* 146, a 148, *a b* 156, b 158–60, b 163, b 164; (Persia), XVIII, b 666; spurious (Adam), I, a 127. See RIG VEDA
Vedavati, river (Kádúr), XIII, b 824
VEDDAHS or Weddahs, race, XXIV, b 131–2; (Dance), VI, b 703, b 704
Védegylet, protection union (Hungary), XII, a 386
Vedel, A. G., author (Denmark), VII, a 79
Vediantii, tribe (Liguria), XIV, b 646
Vedic Aryas, people (Sanskrit), XXI, a 289
Vedic hymns (Cosmogony), VI, a 396; (Image Worship), XII, a 749
—— language (Sanskrit), XXI, a 282, *b* 283, *b* 284, a 285; literature (Sanskrit), a 286–94, b 301–9; Religions, XX, 372, b 373; worship (Brahmanism), IV, a b 183
Veen, Van, painter. See HEEMSKERK
Veer, Gerrit de, historian (Geography), X, a 165
Vega, Francesco La, engineer (Herculaneum), XI, b 647
——, Garcilaso de la, poet, X, a b 67 (Castillejo), V, a 171; (Pastoral), XVIII, a 351; (Spain), XXII, a 371
——, Georg von, Baron, mathematician (Tables), XXIII, a b 12, a 13, *a* 14, b 15, *a* 16, a *b* 17, *a* b 18; (Trigonometry), b 607; his Logarithms, XIV, b 782, a 783, a 784
VEGA CARPIO, Lope Felix de, poet, XXIV, a 132–6
  bibliography, a 136
  catalogue of comedies, a 135
  critical estimate of his dramas, a b 135
  classics, his view of the, b 133
  dramatic writings, b 134–6
  influence on the drama of, b 135–6
  Italian culture of, b 133–4
  literary style, a b 133
  married life, a b 132
  Obras Sueltas, a b 134
  origin and education, a 132
  personal qualities, a 133
  priesthood period, b 132–3
—— (Camoens), IV, b 662; (Castro), V, b 175; (Cervantes), b 307, b 308; (Don Juan), VII, b 309; (Drama), a b 364; (Montalvan), XVI, b 798; (Spain), XXII, a 371, b 372
Vega Real, La, plain (Hayti), XI, b 486
Vegas, gardens (Spain), XXII, b 313; (Valencia), XXIV, a b 39
——, Las, springs (New Mexico), XVII, b 410
Vegesack, town (Bremen), IV, *a* 229
Vegetable acids (Liebig), XIV, b 569; assimilations (Nitrogen), XVII, a 529; Baths, III, b 379; fats (Oils), XVII, b 765, b 768; food (Dietetics), VII, b 175, a 180, b 181–2; garden calendar, Great Britain (Horticulture), XII, a 302–6; calendar, United States (Horticulture), a 306–8; Histology, a 12–21; (Malpighi), XV, b 340, a 341
—— horsehair (Fibres, Textile), IX, a 116
—— Ivory, XIII, b 534
VEGETABLE KINGDOM, XXIV, a 136–43
  BRYOPHYTA, a b 140
  PHANEROGAMIA, a 142–3
    angiospermæ, a b 143
    gymnospermæ, b 142–3
    literature, b 143
VEGETABLE KINGDOM, *continued*
  PHANEROGAMIA
    phylogeny, b 142, *a* b 143
    reproduction, a b 142
  polymorphism in, a 136
  PTERIDOPHYTA, b 140–2
    equisetinæ, a 141
    filicinæ, a 141
    literature, a 142
    lycopodinæ, a b 141
    phylogeny, b 141–2
  THALLOPHYTA, a 136–40
    ALGÆ, b 136–9; chlorophyceæ, a b 137; cyanophyceæ, b 136–7; literature, a 139; phæophyceæ, b 137–8; phylogeny, 138–9; rhodophyceæ, b 138
    FUNGI, a 139–40; affinities with algæ, b 139–40. classification, a 139; lichens, a 140; literature, *a* 140; phylogeny, a b 139
—— (Biology), III, a 597–602; (Distribution), VII, b 248–52. See BOTANY, Plant, Vegetation
—— -marrow. See Marrow
—— oils (Lubricants), XV, *b* 36, a 37
VEGETABLE PARASITISM (Ill.), XVIII, a 268–74; (Skin Diseases), XXII, b 131–2
—— Parchment, XVIII, a 276
—— Phosphorescence, XVIII, b 826
VEGETABLE PHYSIOLOGY, XIX, a 50–71: (Duhamel), VII, a 448; (Senebier), XXI, b 690; (Reproduction), XX, a 435–44
—— refuse (Fuel), IX, a b 710
Vegetables, culture of (Horticulture), XII, b 289–302; desiccated (Preserved Food), XIX, a 727; mediæval (Agriculture), I, a b 263; Poisonous, XIX, a 290, (Medical Jurisprudence), XV, a 792
Vegetable salts (Sodium), XXII, b 254–5
—— silk (Fibres, Textile), IX, a 116
Vegetation (Climate), VI, b 5–6; (Irrigation), XIII, a 372–4, a b 378, a b 379; (Meteorology), XVI, a 123; (United States), XXIII, a 859–63; action of (Geology), X, a 256–7; arrest by reproduction of (Variation and Selection), XXIV, b 91; carboniferous (Geology), X, b 309–10; chemistry of (Liebig), XIV, a b 571; effect on fauna of (Distribution), VII, b 233; effect on Electricity, VIII, a 7; marine (Foraminifera), IX, b 325–6 note; multiplication of (Reproduction), XX, a b 435–6. See Flora, Plant
VEGETIUS, Flavius Renatus, military critic, XXIV, b 143
——, Publius, physician (Veterinary Science), XXIV, a 214
VEGLIA, island and town, XXIV, b 143
Veglioni, balls (Carnival), V, b 109
Vegueras, cigars (Tobacco), XXIII, b 454
Veh-Ardashir, city (Persia), XVIII, b 618
Vehmgericht, tribunal (Dortmund), VII, b 324; (Fehmic Courts), IX, a 56
Vehmic Courts. See FEHMIC COURTS
Vei Dictionary, VII, b 167
Veii, city (Albano), I, a 397; (Etruria), VIII, b 557; (Juno), XIII, a b 788; (Rome), XX, *a* b 758, a b 759
Veil (Costume), VI, b 405; (Egypt), VII, a b 627; of shrine (Temple), XXIII, a 183, note
Veilchen, Das, poem (Goethe), X, b 647
Veiled prophet of Khorasan (Merv), XVI, a 49. See Mokanna
—— spots, solar (Sun), XXII, b 683, *a* b 684
Veined structure (Glacier), X, b 561
Veins (Amphibia), I, b 672; (Anatomy), b 789, *a* 792, a 795–6, b 797, b 798; (Ichthyology), XII, b 696–7; (Mammalia), XV, a b 367; (Reptiles), XX, b 472–3; circulation in (Vascular System) (Ill.), XXIV, a b 106, a 111, b 112–3, b 115–6, *b* 117; diseases of (Surgery), XXII, a b 719; of Galen (Anatomy), I, a 770; pressure in (Vascular System), XXIV, b 116–7
——, mineral (Geology) (Ill.), X, b 280–1; (Gold), b 664–5; (Granite), XI, b 44, a 45; (Mining) (Ill.), XVI, a 460–1; of intrusion (Geology) (Ill.), X, a 276–7
Vein-stones (Geology), X, b 280
Veit, Philipp, painter (Overbeck), XVIII, b 80; (Schlegel), XXI, a 427
Veitch, James, astronomer (Brewster), IV, a 246
——, John, critic (Scott, Sir W.), XXI, *a* 570. See List of Contributors
Vejovis, deity. See JUPITER
Vela, town (Venezuela), XXIV, a 152
——, Blasco Nuñez de, viceroy (Peru), XVIII, a 691
——, Vincenzo, sculptor (Turin), XXIII, b 670
Velabrum, district (Rome), XX, a 825, b 830, b 844
Velamen radicum (Botany), IV, a 84
Velasco, mountains (Andes), II, a 17
——, governor (Argentine Republic), II, b 431
Velasco, tragedy (Sargent), XXI, a 906
Velasquez, Diego, governor (Cortez), VI, b 390, a b 391
VELAZQUEZ, Diego de Silva, painter, XXIV, b 143–8
  academy of art, labors for, a 147
  art, influence of, a 148
  bibliography, a 148

Velazquez, *continued*
  - birth and training, a b 144
  - fame of, recent, b 143–4
  - family of, a b 144
  - Italy, first visit to, b 145
    - second visit to, a 147
  - knighthood period, b 147–8
  - last year of, a 148
  - Madrid, first period, b 144–5
  - middle period manner, b 146–7
  - Olivares's patronage, b 146
  - religious paintings, b 146–7
  - Rubens's visit, a 145
  - Seville manner, b 144
  - Spanish court portraits, a 145, *a* b 146, b 147

—— (Coello), VI, a 99; (Murillo), XVII, *b* 61; (Painting), XVIII, a 142, b 143; (Pareja), b 277; (Raeburn), XX, a 226; (Schools of Painting) (Ill.), XXI, b 459–60, a 464, b 465, b 466, *a* 467

Velathri, city (Etruria), VIII, b 558

Velay, hills (Loire, Haute-), XIV, *a* 817

Velde, Adrian van der, painter (Heyden), XI, *b* 700

——, Van de, widow (Spinoza), XXII, b 417

Veldeke, Heinrich von, poet (Germany), X, a b 464, note, b 468

Veldener, Johan, printer (Typography), XXIII, a 729 note, a 739

Velebitch, mountains (Croatia), VI, a 523; (Dalmatia), a 690

Veled, Sultán, poet (Turkey), XXIII, a 698

Veleia, town, XXIV, a 148

Velella, group (Hydrozoa), XII, *a* 598, a 599

Velesa, town. See Koprili

Veleslavin, printer (Slavs), XXII, a 161

Veleta valley (Spain), XXII, b 308

Velez, mountains (France), IX, b 445

—— de Guevara, Luiz, dramatist, XI, b 220; (Spain), XXII, a 372

Velez-Malaga, town, XXIV, a b 148

Velia or Elea, colony (Phocæa), XVIII, a 812; (Numismatics), XVII, b 653

——, hill (Rome), XX, a 844, note

Veliger, larva (Mollusca) (Ill.), XVI, a b 661, b 662, a 677, a 681, b 683

Velikaya, river (Pskoff), XX, b 40, *a* 41; (Russia), XXI, b 80

Veliki Cap, mountain (Herzegovina), XI, a 693

Velikiy Ustyug or Oostioog Velikee, town (Vologda), XXIV, b 303, *a* 304

Velikorousskie, race (Slavs), XXII, a 153, a 158

Velino, Monte (Apennines), II, a 150; (Italy), XIII, a 447

——, river (Italy), XIII, a 448; (Rieti), XX, *a* 567; (Terni), XXIII, *b* 206–7

Velites, troops (Army), II, *b* 492

Velitræ, city (Rome), XX, a 753, a 758, b 760. See Velletri

Velizh or Weliz, town, XXIV, b 148

Vellar, river (Madras), XV, b 185

Velleda, prophetess (Germany), X, a 427

Velleius Paterculus, historian, XVIII, b 343–4; (Tiberius), XXIII, b 356, b 357, b 358

Velletri, town, XXIV, b 148; state (States of the Church), XXII, b 477, a 478

Vellore, town, XXIV, b 148

Vellum (Gold Beating), X, b 670; (Leather), XIV, b 390–1; (Palæography), XVIII, b 148, a 149, a 150, a 151, b 155, a b 156, a 167; (Paper), a b 222; (Parchment), a 276; palimpsests, restoration of (Palæography), a 166; printed books (Bibliography), III, b 566; (Typography), XXIII, a 736

Velocities, angular (Mechanics), XV, b 744–5, a b 746; composition of (Mechanics), *a* b 688, note; of equal spheres (Molecule), XVI, a 634; of unequal spheres (Molecule), b 634–5; virtual (Mechanics), XV, b 729, b 730

Velocipede. See Tricycle

Velocity (Acceleration), I. b 76–7; (Diagrams), VII, b 129; (Diffusion), a 187, a 189; (Dynamics), a 503; (Electricity), VIII, b 14, b 61; (Galileo), X, *a* 33; (Gravitation), XI, a 60-1; (Hydromechanics), XII, a b 452, a b 453, a b 454, b 463, b 479, b 482, b 488–9, b 490–1, a 492, a 495, b 514–5, a b 517, a b 518, b 522–6, a 530, a 533–9, a b 559, a b 560; (Mechanics), XV, a 687, a 688, note, b 764, b 766, a b 772, a 779–81; (Meteors), XVI, b 113, a 114, b 115, b 117; change of, defined (Mechanics), XV, a 689; co-efficient of (Hydromechanics), XII, b 482, a b 483–4; potential (Mechanics), XV, b 734; ratio (Mechanics) (Ill.), b 761, a 762; resolution of (Mechanics), a 689, b 712; Torricelli's theorem (Hydromechanics), XII, *a* 452, a 465

——, arterial pulse (Vascular System), XXIV, a b 114

—— curves (Hodograph), XII, a 44–6; (Hydromechanics) (Ill.), b 522–5, a b 539, 540

—— of Light, XIV, b 587, a 588–90, a 608, a 610, a 612; (Arago), II, a 267; (Parallax), XVIII, b 250, a b 256; (Roemer), XX, b 635; (Wave Theory), XXIV, b 464–5, 470, a b 473, a 474, b 484–5

—— of nerve conductivity (Physiology) (Ill.), XIX, a 29-30

—— of projectiles (Gunmaking), XI, *a* 260; (Gunnery), a 264-70; (Gunpowder), a b 286

—— rods (Hydromechanics), XII, a 534, b 538

—— of sound (Acoustics), I, b 95–9; in pipes (Acoustics), b 106–7

—— of winds (Meteorology) (Ill.), XVI, b 129, a 161–2; (United States), XXIII, a b 852; cyclones (Meteorology), XVI, a 136, a 160

Velometer (Steam-Engine), XXII, a 533

Velorado, Juan de, abbot (Cid), V, a 677

Velo Selo, town (Lissa), XIV, a 701

Velthen, Johann, actor (Drama), VII, a 381; (Germany), X, b 475

Veluchi, mountain (Greece), XI, a 74

Velum or trochal disk (Rotifera) (Ill.), XXI, a b 10, b 11; in medusa (Hydrozoa) (Ill.), XII, *a* 584, b 586, b 588; interposition (Anatomy), I, b 758, a 760, b 768, *b* 769

Veluvana, grove (Buddhism), IV, a b 385

Velvet, fabric, XXIV, b 148–9; (Textiles), XXIII, b 227, b 228

——, cotton (Dyeing), VII, b 501

—— -duck, bird (Scoter), XXI, a b 492

Vena cava (Anatomy), I, b 790, b 791, a b 793, *b* 795–6; of Siphonopoda (Mollusca), XVI, b 703; superior (Mammalia), XV, a 367

Venæ vorticosæ (Anatomy), I, *b* 779

"Venango oil sand group" (Petroleum), XVIII, a b 887; (United States), XXIII, b 865

Venantius, poet. See Fortunatus

Vena portæ (Anatomy), I, a 793, a 796

Venatio, amusement (Games), X, a 60

Venation in plants (Botany) (Ill.), IV, a b 97-8; (Grasses), XI, a 49; of calyx (Botany), IV, *b* 118

Venceslas (Rotrou), XXI, *a* 13

Venda, mountain (Italy), XIII, a 452

Vendace, fish, XXIV, a 149; (Salmonidæ), XXI, a 234

Vendée, department, XXIV, a b 149; insurrection in (France), IX, a *b* 533, a 534

Vendell, H., philologist (Scandinavian Literature), XXI, *a* 382 notes

Vendemiatrici, Le (Grétry), XI, a 168

Vendetta, feud (Afghânistân), I, a 213; (Sardinia), XXI, a 324. See Blood-feud.

Vendettini, historian (Rome) XX, b 802, b 824

Vendidad, book (Zend-Avesta), XXIV, a *b* 814, *a* 816

Venditioni exponas (Writ), XXIV, *b* 731

Vendome, town, XXIV, b 149–50; (Loir-et-Cher), XIV, *a* 819

——, Louis Joseph, duc de, marshal (France), IX, a 512, *a* 513

—— and Chartres, Louis de, duc de Bourbon (Bourbon), IV, a 158

Veneering, art, XXIV, a b 150; (Brunel), IV, a 358; (Furniture), IX, *a* 746; (Ivory), XIII, b 532, a 533; (Malachite), XV, b 317; (Parquetry), XVIII, b 325; (Saws), XXI, a b 359; marble (Mural Decoration), XVII, b 41

Venelin, George, traveller (Slavs), XXII, a 159

Vener, lake (Sweden), XXII, b 774, a b 778

Veneracea, family (Mollusca), XVI, a 711

Veneration, organ of (Phrenology), XVIII, b 859

Venereal diseases (Surgery), XXII, a 721–2; (Vaccination), XXIV, b 28, a 32; (Veterinary Science), a b 219; *Treatise on* (Hunter, J.), XII, a 404

Venersborg, town (Sweden), XXII, a 776, a 777

Veneti, race (Britannia), IV, b 318; (Cæsar), a b 565; (Gaul), X, b 100

——, tribe (Italy), XIII, a b 456

Venetia, province (Italy), XIII, a 446; (Venice), XXIV, a 153; republic (Paul V.), XVIII, a 442

Venetian Academy, XXIV, b 168–9; (Bellini), III, b 472; (Titian), XXIII, a 443, a 444

—— Alps, I, b 554

—— arts (Ill.), XXIV, a 160–9; (Beads), III, a 398; (Bellini), *a* b 472; (Campanile), IV, *a* 666; (Carpets), V, b 114; (Conservatory), VI, b 260; (Crivelli), b 522; (Dürer), VII, b 479, b 480–1; (Fresco), IX, a 681; (Glass), X, *b* 578, b 580–1, *b* 582; (Lace), XIV, b 184, note, a 186–7, b 191, *a* 192; (Michelozzi), XVI, a 246; (Mirrors), a b 523; (Palma), XVIII, a 196; (Pottery), XIX, a 647, a 656; (Robusti), XX, b 624; (Schools of Painting), XXI, b 454–5, b 462–3, a 465, a 466, b 467; (Sculpture), a b 594, note, a 598, note; (Titian), XXIII, a 441–3; mosaics (Italy), XIII, b 464

—— cloth (Wool), XXIV, b 696

—— dialect (Italy), XIII, b 504, a 510

—— *Histories* (Daru), VI, b 730; (Giustiniani), X, a 558; (Foscarini), IX, *a* 416

—— *scholia* (Homer), XII, b 118, note, a 120, *a* 125

—— swell (Pianoforte), XIX, b 78

Veneziano, Domenico, painter (Castagno), V, a 162; (Piero), XIX, a 91

Venezuela, republic (Plate IV), XXIV, b 150–3
  - agriculture, b 151
  - area, b 150
  - bibliography, b 153
  - civil system, b 152
  - climate, a 151

VENEZUELA, *continued*
- fauna and flora, a b 151
- geology, a 151
- history, b 152–3
- industrial system, a 152
- minerals, a 152
- population and divisions a b 152
- physical features, b 150–1

—— (America), I, a 623, a b 625; (Bolivar), IV, b 8, a 9, a 10; (Colombia), VI, b 140; (Coro), b 379; (Forests), IX, b 357; (Guiana), XI, a b 221; (Lake Dwellings), XIV, b 223; (Libraries), b 554; (Mining), XVI, a 493; boundary (Brazil), IV, a b 199

Vengeance of the Deity, On the Late (Plutarch), XIX, a 246

Venial sins (Ethics), VIII, *a* 522; (Liguori), XIV, a *b* 644, a 645–6; (Penance), XVIII, b 498

VENICE, city (Ill. Map), XXIV, a 153–71
- **ART** (Ill.), a 160–70
  - architecture (Ill.), a 160-9
  - arsenal, b 168
  - campanile, b 166
  - choir, St. Mark's, b 163
  - churches, minor, a b 160, b 166–7, a 169
  - columns and capitals, b 163–4, a b 166
  - construction of buildings (Ill.), a b 161
  - decoration, mural, a b 162, b 163, a 164
  - ducal palace (Plan), a 165–6
  - early building, a b 160, b 162
  - glass work, b 169–70
  - guilds, a b 168
  - literature, a b 170
  - material, building, b 161–2
  - metal-work, b 169
  - mosaics of St. Mark's a b 164
  - museums and galleries, b 168–9
  - palaces (Ill.), a 167–8
  - prisons, a 166
  - renaissance buildings, a 161, a b 167–8
  - retable, the golden, b 164–5
  - roof, St. Mark's, a 164
  - St. Mark's Church (Plan), b 162-5
  - St. Mark's square, b 168
  - sculpture, a b 169
  - styles of architecture, b 160–1
  - textiles, b 169
- **HISTORY**, a 153–60
  - Adriatic pirates, a 154, b 158
  - arts and literature, b 157–8
  - Cambrai League, b 156
  - commercial genius of, a b 155

VENICE, *continued*
- **HISTORY**
  - constitution of state, a b 154, a b 155, b 159
  - Crete, loss of, b 158–9
  - crusading period, a 154
  - Council of Ten, rise of, b 155
  - decay of, a 158, b 159
  - Genoa, war with, b 155–6
  - Lepanto epoch, a b 157
  - Lombardy, acquisitions, a b 156
  - magistrates, earliest, a b 153, a 154
  - Napoleonic period, b 159–60
  - origin of, a 153–4
  - papacy, contest with a b 158
  - Peloponnesian war, a b 159
  - prosperity of, highest, b 154–5
  - Spanish conflict, b 158
  - Turkish wars, a b 156–7, b 158–9
- modern city (Plan), b 170-1

—— (Athens), III, a 11; (Austria), a 114, a 118; (Bank), b 272; (Brescia), IV, b 231; (Carnival), V, b 109; (Commerce), VI, a 177, b 178–9; (Corfu), b 351, a 352; (Crete), b 505; (Crusades), b 555–6; (Cyprus), a b 661; (Dalmatia), b 690; (Dandolo), a b 707; (Davila), a 743; (Doge), VII, b 287–8; (Elis), VIII, a 131; (Eubœa), b 569, a b 570; (Ferdinand V., Castile), IX, b 72; (Filelfo, F.), *b* 141; (Foscari, F.), b 415; (Foscarini), a 416; (Foscolo, Ugo), b 416; (Foundling Hospitals), b 426; (France), *b* 489, *a* 537; (Greece), XI, a b 108, a 109; (Herzegovina), *b* 693; (Ionian Islands), XIII, a 212; (Italy), a 465, b 480, b 484, a b 485, a 486, b 488, b 489, a b 490, *a b* 491, a b 492, a 493, *a* 494, *b* 495, a 498, a b 499, a b 500, a 501; (John, Don), *a* 728; (Julius II.), b 781; (Libraries), XIV, b 529, a 551; (Manin), XV, a b 496; (Mark), a b 559; (Murano), XVII, a 54, a 55; (Numismatics), b 675, a 677; (Nobility), a 541–2; (Persia), XVIII, b 644; (Protection), XIX, b 936; (Quarantine), XX, *a* 164; (Sarpi), XXI, *a b* 326, a 327, a 328; (Sugar), XXII, a 658; (Tides), XXIII, a 376; (Zante), XXIV, *a* 806; early printing at (Manutius), XV, *a* 520, a b 521; (Typography), XXIII, a 729; pictures of (Turner), a 709; republic (Napoleon I.), XVII, b 204, *b* 205, a b 206–7; (Popedom), XIX, a 520; subsidence of soil at (Europe), VIII, b 598

Venice Preserved, tragedy (Otway), XVIII, a 74

Venice Turpentine, XXIII, b 711; (Larch), XIV, b 310-11

Venicones, tribe (Perth), XVIII, b 679

Veni Creator (Hymns), XII, b 617, a 624, a 625, a b 627

Venieri, Sebastian, admiral (Venice), XXIV, a 157, a 158

Venire facias (Writ), XXIV, a b 732

Venisamhara (Drama), VII, b 343; (Sanskrit), XXI, a 300, note

Veni sancte Spiritus (Hymns), XII, a 618

VENLO or Venloo, town, XXIV, a 171

Venn, logician (Logic), XIV, b 809 note, *a b* 810, notes

Vennacher, loch (Perth), XVIII, b 678

Venom (Snakes), XXII, *a* b 201, note, a 202, a b 209; effect of (Pathology), XVIII, b 408. See Snake poison, Sting

Venomous Snakes, XXII, *a* 204, b 206–10

Venta Icenorum, town (Norwich), XVII, a 610

Ventidius Bassus, general (Persia), XVIII, b 608

VENTILATION, XXIV, a 171–6
- barracks, b 173–4
- chimney and other outlet draughts, b 172
- consumption of air, rate of, a b 171
- cubic capacity of rooms, b 171–2
- diffusion and air currents, a b 172
- impurities of air, a 171, b 175–6
- inlets for air, b 172–3
- mechanical apparatus, b 174–5
- plenum methods, a b 175
- public buildings, a b 174
- vacuum methods, b 174–5
- window and door efficiency, b 173

—— (Hales), XI, b 341; (Hospital), XII, b 318; (Tunnelling), XXIII, b 663, b 664; Egyptian (Architecture), II, b 343; hot-house (Horticulture), XII, b 225, a 227, *a* b 228, a b 229, b 236, a 237; mediæval methods of (Tunnelling), XXIII, a 663; stable (Horse), XII, b 196; in drains (Building), IV, b 418; in mines (Coal) (Ill.), VI, b 65–6; (Mining), XVI, b 480–2

Ventil-Horn, XII, b 171

Ventils, valves (Organ), XVII, a 859; (Trombone), XXIII, a 624; (Trumpet), b 631

Ventinuglia, Antonio, missionary (Borneo), IV, a b 53

VENTNOR, town, XXIV, a 176; (Climate), VI, *b* 6; (Wight), XXIV, *a* b 593

Ventoux, mountains (Vaucluse), XXIV, b 124

Ventral fins (Ichthyology) (Ill.), XII, b 674, a b 675

—— segments (Acoustics), I, b 103, a 104, b 105

Ventricles, encephalic (Anatomy) (Ill.), I, a b 758, a 766, a 768, a b 769, *a* 770; (Amphibia), I, b 670; of heart (Anatomy), *b* 790, *a* b 791, a 792; (Mollusca), XVI, b 658

Ventriloquism (Demonology), VII, a 56

Ventura, painter. See **SIGNORELLI**

Venturino of Pesara, dramatist (Drama), VII, b 361

VENUE, law-term, XXIV, a b 176; (Indictment), XII, b 883

Venules (Vascular System), XXIV, a 113, a 115

Venus, goddess (Adonis), I, b 148; (Anchises), II, b 4; (Aphrodite), II, a 151–2; (Astarte), a 643; (Cupid), VI, b 625-6; Assyrian cult of (Baal), III, b 152

—— in art, paintings (Titian), XXIII, a 444; *Anadyomene*, I, a 692; (Titian), XXIII, a 444; *Worship of* (Titian), a 444; statues (Arles), II, a 643; of Alcamenes, I, b 405; (Archæology), II, b 311; at Cnidus (Archæology), b 315; *de Medici* (Archæology), b 315; (Ear-Ring), VII, b 515; of Canova (Bonaparte), IV, b 27; of Gibson (Sculpture), XXI, b 587; *of Milo* (Archæology), II, b 311, b 315; (Dumont D'Urville), VII, a 458; (Melos), XV, b 850; of Praxiteles (Archæology), II, b 315

——, temples of (Monte San Giuliano), XVI, b 808; (Pompeii), XIX, b 461–2. See Temple of Aphrodite, of Venus

——, planet (Astronomy), II, a 692; (Zodiacal Light), XXIV, a 835; atmosphere of (Parallax), XVIII, a 252; light of (Photometry), b 856; maximum brightness of (Light), XIV, b 586

——, transit of (Algebra), I, a 493; (Astronomy), II, a 659, b 692, b 696, a 697; (Geography), X, b 169; (Micrometer), XVI, b 263; (Pallas), XVIII, b 192; (Parallax), a b 251–3

Venus and Adonis (Shakespeare), XXI, b 792, a 795, a 800, b 805

Venusberg, mythical place (Tanhäuser), XXIII, a b 51

Venus's hair (Mineralogy), XVI, b 402

Venusia, town (Horace), XII, *b* 163; (Rome), XX, a 762

Venus's fly-trap (Botany) (Ill.), IV, a b 80, a 81, a 103; (Insectivorous Plants) (Ill.), XIII, b 142–3

Venus, Vigil of, poem (Pervigilium, XVIII, a 697

Vêpres Siciliennes, Les (Delavigne), VII, a b 39

VERA, Augusto, metaphysician, XXIV, b 176; (Hegel), XI, *b* 554

VERA CRUZ, city, XXIV, b 176–7; (Cortes), VI, *a* 391; (Mexico), XVI, a 223, b 226, a *b* 228, b 901, b 904, a 905, b 911; (Scott), XXI, a 577 note

——, state, XXIV, a 177; (Mexico), XVI, a 223, b 225, b 899, b 901, a 909

Verard, Antoine, printer (Typography), XXIII, b 739

Vera Tassis, biographer (Calderon), IV, b 585, a 587

VERATRUM, herb, XXIV, a b 177; (Hellebore), XI, b 566, note, a 568; (Vologda), XXIV, b 303

Veráwal, town (Somnáth), XXII, a 275

Verazzano, Giovanni, explorer. See Verrazzano

Verb, part of speech (China), V, b 572; (Gaelic), X, *b* 8–9; (Grammar), XI, b 37, a b 38, a 39; (Greece), *b* 113, a 114, a 117; (Hebrew Language and Literature), b 532, (Hindustani), b 750–1, b 752–3; (Hungary), XII, b 389–90; (Priscian), XIX, b 764, b 765; (Provençal Language), b 895–6; (Sanskrit), XXI, b 283–4; (Tibet), XXIII, a 369; Dutch (Holland), XII, *a* 91, b 92–3; Græco-Italian (Greece), XI, b 116; Indo-Germanic (Philology), XVIII, b 803; origin of form of (Philology), a b 785

Verbano, lake. See MAGGIORE

Verbascum, plants (Horticulture), XII, a 256, b 260; (Hybridism), a b 440

Verbeck, G. F., physicist (Seismometer), XXI, a 659

Verbeek, R. D. M., geologist (Sumatra), XXII, a 672 notes

VERBENA, plant, XXIV, b 177; (Botany) (Ill.), IV, b 110; cuttings (Horticulture), XII, b 243

Verböczsy code (Hungary), XII, b 383

Verbo Mirifico, de (Reuchlin), XX, *b* 503, a 505

Vercellæ, battle of, 101 B. C. (Cimbri), V, b 681

VERCELLI, town, XXIV, b 177–8; (Libraries), XIV, b 530, a 551; (Universities), XXIII, a 889, a 890, a 892

—— *Codex*, poems (English Literature), VIII, b 363

—— *Gospels, MSS.*, XXIV, b 177; (Palæography), XVIII, a 157

Vercingetorix, chief (Cæsar), IV, *b* 565, b 566

Verd Islands. See CAPE VERD ISLANDS

Verdad Sospechosa, drama (Vega Carpio), XXIV, a b 135

Verdaguer, Jacinto, poet (Spain), XXII, b 378

Verdapettah, pagoda at (Zodiac), XXIV, b 834

Verde, river (Oajaca), XVII, b 708

Verde antico (Marble), XV, b 536; (Mineralogy), XVI, b 413

Verden, massacre at, 782 (Charlemagne), V, b 349

Verderer, officer (Forests), IX, b 360

Verdet, physicist (Wave Theory), XXIV, b 458, b 460, a 473, a 477; his exploring coil (Magnetism), XV, a 242

Verdi, Giuseppe, composer (Music), XVII, b 106; his *Requiem* (Manzoni), XV, b 522

Verdict (Jury), XIII, *a* 795, a *b* 796, *a* 797

Verdigris (Copper), VI, a 312; (Poisons), XIX, b 289–90

——, river (Nebraska), XVII, a 317

Verditer-blue (Pigments), XIX, b 95

VERDUN, town, XXIV, a 178; bishopric (Germany), X, a 448, b 499. See Treaty of

Verdun, Journal de (Periodicals), XVIII, a 550

Vere, Sir Francis, tomb of (Sculpture), XXI, b 586, note, a 587

——, Robert, Duke of Ireland, favorite (England), VIII, a 287

Verelius, Olof, translator (Sweden), XXII, b 793

Veremundus, historian (Boece), III, a 739

Veretillum, genus (Corals) (Ill.), VI, a 342

Verga, cape (Senegambia), XXI, b 693

Vergennes, Charles Gravier, comte de, *b.* 1717, *d.* 1787 (Adams, J.), I, b 130; (France), IX, b 523; (Franklin, B.), b 630–1; (United States), XXIII, b 783

——. See REMUSAT, Madame

Vergerio, Pietro Paolo, the Younger, controversialist (Trent, Council of), XXIII, *a* 579

Vergil. See VIRGIL

Vergiolesi, Filipo, chief (Cino da Pistoia), V, b 686

VERGNIAUD, Pierre Victurnien, revolutionist, XXIV, a 178–80

Verhulst, William, governor (New York), XVII, b 466, b 893

Verhulst's *Fonctions Elliptiques* (Tables), XXIII, a 19

Verina, empress (Zeno), XXIV, *b* 816

Vérités, Les Trois (Charron), V, a 373

Verjuice (Apple), II, a 185

Verkhne-tchirskaya, town (Nijne-tchirskaya), XVII, b 513

Verkhneudinsk, town (Transbaikalia), XXIII, *a* 543

VERKHNE-URALSK, town, XXIV, a 180

Verkhoturie, town (Perm), XVIII, b 561, a 562

Verkhoyansk, town (Siberia), XXII, *b* 10, note, a 11, b 16; (Yakutsk), XXIV, *b* 762, a 763

Verkovich, author (Slavs), XXII, a 159

Vermeer, Jan, painter. See MEER

Vermehren, painter (Denmark), VII, a 82

Vermejo river (Bolivia), IV, *a* 12, b 14; (Plate), XIX, b 199–200

Vermes, worms (Arthropoda), II, *a b* 566; (Parasitism), XVIII, b 263; (Reproduction), XX, a 421, a 422, b 424, a 426, b 431; (Sex), XXI, b 756; (Touch), XXIII, a b 508; (Worm), XXIV, a b 712

Vermicella, genus (Snake), XXII, b 207

Vermicelli, food (Macaroni), XV, a 126

Vermiform appendage, visceral (Nutrition), XVII, b 687

Vermiformia, division (Polyzoa) (Ill.) XIX, b 445, a 446, b 447–9, a 454

Vermiform process, encephalic (Anatomy), I, b 765, *a* 766, a 772

VERMIGLI, Pietro Martire, or Peter Martyr, reformer, XXIV, a 180; (Valdes), *a* 38

Vermilingua, group (Mammalia), XV, a 387

VERMILION, pigment, XXIV, a b 180; (Chemistry), V, a 457; (Cinnabar), a 686; (Mercury), XVI, b 38

—— lake (Minnesota), XVI, b 498; iron from (United States), XXIII, b 866, b 867

—— sea (California), IV, b 615

Vermittelungs - theologie (Hagenbach), XI, a b 330; (Nitzsch), XVII, a 535

Vermland, län or province (Sweden), XXII, *b* 777, b 778, b 780

Vermond, Matthieu Jacques, Abbé de, teacher (Marie Antoinette), XV, *a* 547

VERMONT, state (Plate V), XXIV, b 180–3
- area, b 180
- civil system, a b 182
- climate, a 181
- fauna and flora, b 181
- geology, b 180–1
- history, b 182–3
- industrial features, b 181–2
- minerals, a 181
- population, b 181
- religion, a 182
- surface, b 180

—— (Universities), XXIII, a 913, a b 957; grants in (Wentworth), XXIV, b 890; history (United States), XXIII, a 822; literature of (Thompson), a b 940; statistics, (United States), *b* 853, a 855, b 857, a 872, b 878; topography, *b* 842

Vermuyden, Cornelius, engineer (Cambridge), IV, a b 643

Vernacular teaching, rise of (Universities), XXIII, a 903

Vernation of buds (Botany) (Ill.), IV, a b 106

Vernet, Madame (Condorcet), VI, a b 226

VERNET, Antoine Charles Horace, painter, XXIV, a b 183

VERNET, Claude Joseph, painter, XXIV, a 183

VERNET, Émile Jean Horace, painter, XXIV, b 183

Verneuil, Henriette, marchioness of (Angouleme), II, a *b* 42

VERNIER, Pierre, mathematician, XXIV, b 183; (Navigation), XVII, b 262; his scale, XXIV, b 183; (Barometer), III, b 331; (Surveying), XXII, b 754

Vernio, Giovanni Bardi, Conte di (Wagner), XXIV, a b 335

Vernis Martin, style (Furniture), IX, b 746

VERNON, Edward, admiral, XXIV, a b 184; (Porto Bello), XIX, a *b* 546

——, James, secretary of State, XXIV, a 184

Vernonia, plant (Botany), IV, *a* b 113

Véron, François, Jesuit (Bochart), III, a 734

VERONA, city (Plan), XXIV, b 184–7
- architecture, a 187
- bridges and castles, b 185
- churches, b 184–5
- history, a b 187
- painting, b 186
- palaces, b 185–6
- people, a 186
- Roman remains, a 186
- sculpture, b 186–7
- situation, b 184

—— (Amphitheatre), I, b 680, *a* 681; (Fortification), IX, b 389; (Libraries), XIV, a 551; (Schools of Painting), XXI, b 455, a 463, b 467; (Sculpture), b 594; (Urban III.), XXIV, b 12, a 13; Congress of, 1822, VI, a b 240; (Metternich), XVI, a 210; (Wellington), XXIV, b 525–6; Synod of, 1184 (Inquisition), XIII, b 98

—— green (Pigments), XIX, b 96

VERONESE, Paolo or Cagliari, painter, XXIV, b 187–8; (Farinato), IX, b 31; (Fresco), a 681; (Painting), XVIII, b 143; (Reni), XX, a 409; (Robusti), a b 625, *a* 626; (Schools of Painting) (Ill.), XXI, a b 455, a 463, a 465, *a b* 466, a b 467

Veronica, plant (Botany), IV, b 107, a 110, a 113, b 117, b 122, b 132; (Horticulture), XII, b 260

VERONICA, St., myth, XXIV, a 189; picture of (Schools of Painting) (Ill.), XXI, a 457

——, J. Giuliani, nun (Stigmatization), XXII, b 577

VERPLANCK, Gulian Crommelin, essayist, XXIV, a b 877; (Sands), XXI, b 900

Verrazzano or Verrazzani, Giovanni da, explorer (Canada), IV, b 676; (Geography), X, a 164; (Hudson River), XII, b 345; map of (Globe), X, b 608

VERRES, Caius, robber, XXIV, a b 189; (Cicero), V, b 673; (Sicily), XXII, b 27
Verri, Pietro, publicist (Political Economy), XIX, a b 375
Verrius Flaccus, Marcus, grammarian (Chronology), V, a b 618
VERROCCHIO, Andrea del, artist (Ill.), XXIV, b 189-90; (Leonardo), XIV, b 456, b 461; (Perugino), XVIII, b 694; (Schools of Painting), XXI, b 452
Verrucaria, genus (Lichens), XIV, *b* 559, b 561, b 565
Verruchio, Malatesta da, prince (Rimini), XX, a 571
Verrugas, disease (Wart), XXIV, b 398; (Yaws), b 768
——, bridge of (Peru), XVIII, b 688
Ver Sacrum, sacred season (Mars), XV, a 577; (Sabines), XXI, a 137
VERSAILLES, palace (Plan), XXIV, b 190-2; (Aqueduct), II, a 194; (Architecture), b 386; (Coysevox), VI, b 476, a 477; (France), IX, b 506, a b 528; (Labyrinth) (Ill.), XIV, a b 181; (Libraries), b 547; (Molière), XVI, a 651; (Vernet), XXIV, b 183; assembly, 1871 (France), IX, *b* 552-3
Verschaffeltia, palm (Horticulture), XII, a 277
Vers de société (France), IX, a 578
VERSECZ, town, XXIV, b 192
Verseghy, Francis, poet (Hungary), XII, a 392
Vershok, measure (Weights and Measures), XXIV, b 518
Versification, early (Hymns), XII, a 617, a 618. See Metre
Versonnex, François, philanthropist (Geneva), X, a 132
Versorium, needle (Magnetism), XV, b 221
Verstegan, Richard, antiquary (Lycanthropy), XV, b 90
Versuch über die wahre Art das Klavier zu spielen, Bach's (Pianoforte), XIX, a 75
Vertebræ, bones (Amphibia), I, b 658-60; (Anatomy), b 704, b 719-20, a b 728, b 732; (Birds) (Ill.), III, a 622-3; (Horse), XII, a 181; (Ichthyology) (Ill.), a b 677, b 680, a b 682, a 683, b 685, a b 686; (Mammalia) (Ill.), XV, a 359-61; (Manatee), a 464; (Ornithology), XVIII, a b 47, a 48; (Plesiosaurians), XIX, b 232, a b 233; (Reptiles) (Ill.), XX, a 460-2; (Skeleton), XXII, a 118-20; b 123; (Sloth), *b* 171; (Snake-Bird), a 199; caudal (Mammalia) (Ill.), XV, b 360; cervical (Mammalia) (Ill.), b 359-6; chiroptera (Mammalia), b 410; dorsal (Mammalia), a 360; egg-eater's (Snakes), XXII, b 205; lumbar (Mammalia), XV, a 360; sacral (Mammalia), b 360; thoracic (Mammalia) (Ill.), *b* 359, a 360
Vertebral blood-vessels (Anatomy), I, a 794; column (Ape), II, b 139-41; (Mammalia) (Ill.), XV, a 359-60
Vertebralina, genus (Protozoa) (Ill.), XIX, a b 869
VERTEBRATA (Ill.), XXIV, a 193-203
  ancestry hypotheses, b 193, b 194-5, a b 201, a b 202
  Balanoglossus (Ill.), b 194, b 202-3
  bibliography, b 203
  Cephalochorda (Ill.), a 200-1
    classification, b 197-8
    Craniata (Ill.), a 196-200
    Amphioxus (Ill.), b 199, a b 200-1
    ancestral form of, a 198-9
    general structure, a b 196
    internal body organs, b 197
    merogenesis, b 198
    metameric segmentation theory, a b 198
    Nemertine relations, a 199
    nervous system, b 196-7
    sense organs, a 197
  degeneration hypothesis, b 195
  divisions of phylum, b 195-6
  essential structure of, a 193, a b 195
  Hemichorda, b 202-3
  Lamarck and Cuvier, a 193
  Tunicata (Ill.), b 193-4
  Urochorda (Ill.), b 201-2

—— (Animal Kingdom), II, b 46, b 48-9; (Parasitism), XVIII, a 264; (Reproduction), XX, a 421-2, a b 432; (Skeleton), XXII, b 114-27; (Tunicata), XXIII, b 647, a 648; classifications of (Amphibia), I, b 657, a 658; (Ornithology), XVIII, a 38, b 46; (Zoology), XXIV, a 846, a 847, a b 848, b 849, b 851-2; connective tissue (Histology), XII, a b 8; earliest fossils (Geology), X, *b* 297; muscular tissue of (Histology), XII, a b 10; nerves (Histology), b 11-2; (Physiology) (Ill.), XIX, a 36-50
Vertebraterial canal (Mammalia) (Ill.), XV, a 360
Vertep, show (Drama), VII, b 383
Vértes, mountains (Hungary), XII, b 375, a 376
Vertex (Conic Sections), VI, b 242, b 244, b 251; (Zodiacal Light), XXIV, *b* 835, a 836
Vertical angles, measuring (Surveying), XXII, b 734-5
—— boilers (Steam-Engine) (Ill.), XXII, b 519-20
—— circle motion (Mechanics), XV, a b 713
—— drilling Machine (Ill.), XV, b 156
—— engines (Steam-Engine), XXII, b 536, a 540
—— escapement (Clocks) (Ill.), VI, b 17; (Watch) (Ill.), XXIV, b 417-8
—— forces (Mechanics), XV, b 752
—— illuminator (Microscope) (Ill.), XVI, b 282-3
—— marine engines, inverted (Steam-Engine) (Ill.), XXII, b 543-6
—— motion (Mechanics), XV, a 688, a b 712
—— non-rotative pumping engine (Steam-Engine) (Ill.), XXII, a 541
—— of a pole-star (Time), XXIII, b 420
Verticillasters, clusters (Botany) (Ill.), IV, b 111
Vertot, René Aubert, abbé de, historian (France), IX, b 587; (Fréret), b 675; (St. John of Jerusalem), XXI, a 184
VERTUE, George, antiquary, XXIV, a 203-4
Vertumnus or Vortumnus, deity (Pomona), XIX, a 458
Vertunien, Francis (Ana), I, a 688
Vert Vert, poem (Gresset), XI, *b* 167
Verukal, river (Ceylon), V, b 312
Verulam or Verulamium, town (Hertford), XI, *b* 689; (St. Albans), XXI, a *b* 164
——, Lord. See BACON, Sir Francis
Verus, Lucius Ælius or Commodus, emperor (Aurelius Antoninus), II, a *b* 76; (Persia), XVIII, a 617
——, Martius, general (Persia), XVIII, *b* 615
——, See AURELIUS ANTONINUS
Vervein or vervain, plant (Verbena), XXIV, b 177
VERVIERS, town, XXIV, a 204
Verville, Beroalde de, writer (France), IX, a 575
Verwer, Adriaen, author (Sea Laws), XXI, *b* 611
VERY, Jones, poet, XXIV, b 877
Verzamelberg, mountains (Transvaal), XXIII, a 550
Vesalius or Vesale, Andreas, physician (Anatomy), I, a b 708-9, b 710; (Harvey), XI, a 450; (Vascular System), XXIV, *b* 103
Vesentio, town (Besançon), III, a 531
Vesey or Voysey, John, bishop of Exeter (Sutton-Colfield), XXII, *b* 765
VESICAL DISEASES, XXIV, a 204-7
  calculi, a b 205
  cystitis, b 204-5
  diagnosis for calculus, b 205
  hypertrophy and dilatation, b 206
  incontinence of urine, b 206-7
  lithotomy, b 205-6
  lithotrity and litholapaxy, a b 206
  paralysis and atony, b 206
  retention of urine, a 207
VESICAL DISEASES, *continued*
  sketch of subject, a b 204
  tumors, b 206
  varieties of calculi, a b 205

Vesicles, encephalic (Anatomy), I, a b 758
Vesicular disorders (Skin Diseases), XXII, a 131
Vesle river (Marne), XV, a 568
VESOUL, town, XXIV, a b 207
Vespa, genus (Hymenoptera), XII, b 611, a 612; (Wasp) (Ill.), XXIV, a 412-3
VESPASIAN, Titus Flavius, emperor, XXIV, b 207-8; (Byzantium), IV, a 547; (Consul), VI, b 280; (Domitian), VII, a 308; (Finance), IX, a 152; (Israel), XIII, *b* 437; (Josephus), a 762; (Persia), XVIII, b 613; (Rome), XX, b 790, *a* 791, a *b* 793; (Spain), XXII, b 322; (Titus), XXIII, a b 447
——, son of emperor Titus (Romance), XX, b 661
—— of Florence, bookseller (Ghent), X, b 505
Vesper Hymn, XII, b 613
VESPERS, service, XXIV, a b 208
Vespers of Palermo (Hemans), XI, a 575. See Sicilian Vespers
Vespertilionidæ, family (Mammalia), XV, *b* 414-7
Vesperugo, genus (Mammalia), XV, *a* 415
Vespidæ, family (Wasp) (Ill.) XXIV, *a* 412-3
VESPUCCI, Amerigo, navigator, XXIV, b 208-9; (Brazil), IV, a 205; (Geography), X, b 162; (Time), XXIII, a 421
Vessling, Johann, anatomist (Harvey), XI, *a* 451
Vest (Costume), VI, a *b* 420, a b 421, *a* 422
Vesta, asteroid (Astronomy), II, a 706
VESTA, goddess, XXIV, a 209-1
  costumes of virgins, b 210-1
  literature, a b 211
  rules of vestal virgins, b 209-10
  privileges of virgins, a b 210
  sacred fire, a b 209
  temple of goddess and its cult, a 211

—— (Hestia), XI, b 698. See Temple of Vesta
—— Lamp, XIV, a 247
Vestale, La (Spontini), XXII, b 446
Vestalia, festival (Vesta), XXIV, a 211, note
Vestal virgins, XXIV, b 209-11; (Domitian), VII, a 308; (Rome), XX, a 705, a 752, a 839, note
—— virgins of Niam-Niam, XVII, a 487 note
Vestas (Matches), XV, a 633
Vesteraalen, islands (Lofoten), XIV, b 775-6; (Norway), XVII, b 590, a b 591
Vestergötland (Sweden), XXII, a 775

Vestfjord (Lofoten and Vesteraalen), XIV, b 775, *a* 776; (Whirlpool), XXIV, *a* 572
Vestfjold kings (Norway), XVII, a b 599
Vestibule of labyrinth (Anatomy), I, *a* b 784, a 786
Vestiges of the Creation (Chambers, Robert), V, b 330; (Miller, Hugh), XVI, b 332; (Ornithology), XVIII, b 36 note; (Variation and Selection), XXIV, a b 84
Vesting of Altars, I, b 564
Vestini, tribe (Italy), XIII, a 454, b 456; (Rome), XX, *a* b 761, b 763
Vestinus, Caius Julius, librarian (Libraries), XIV, b 511
Vestmanland, province (Sweden), XXII, b 777, b 779, b 780
VESTMENTS, ecclesiastical, XXIV, b 211; (Missal), XVI, b 533; (Costume), VI, b 407–10; (Dyeing), VII, a b 493
Vestriès (London), XIV, b 827, a b 829, *a* 836; select (Poor Laws), XIX, a 483
Vestris, Madame, actress (Matthews), XV, a 639
Vestry-meeting (Parish), XVIII, a b 302
Vesunna, town (Périgueux), XVIII, a b 545
Vesuvian bombs and lava (Mineralogy), XVI, a 400
Vesuvians (Matches), XV, a 633
VESUVIUS, volcano (Plan), XXIV, b 211–3; (Geology), X, *a* b 215, *b* 217, a b 218, *a* 219, *a b* 220, *a b* 221, *a* 223, a 226; (Herculaneum), XI, b 646–7; (Italy), XIII, b 448, b 452; (Pliny), XIX, a 238; (Pompeii), a 459; (Torre del Greco), XXIII, a 481; (Titus), a 448; battle at, 553 (Italy), XIII, a 478
Veszelyite (Mineralogy), XVI, a 423
VESZPRÉM, town, XXIV, b 213
Veta Grande, silver vein (Zacatecas), XXIV, b 799
Veta Madre, silver-lode (Mexico), XVI, a 225
Vetches, plants (Agriculture), I, a 334–5, a 337; (Hertford), XI, a 689; (Lentil), XIV, b 447, b 448
Veterinary department of British Army, II, b 511
VETERINARY SCIENCE, XXIV, a 213–23
  DISEASES, a 217–23
    administering medicine to horse, a b 218
    cattle diseases, b 220–1, b 222–3
    coitus diseases, a b 219
    dog-diseases, a 222, a b 223
    farcy, a 219
    feeding sick horse, b 217
    glanders, b 218–9
    horse-diseases, a 217–20, a b 222
    horsepox, b 220
    influenza, b 219–20
VETERINARY SCIENCE, *continued*
  DISEASES
    nursing, a 217–8
    parasites, a 222–3
    pig-diseases, b 221, a 223
    sheep-diseases, b 221, b 222–3
    skin, parasites of, b 223
    strangles, a b 220
    typhoid or gastric fever, a 220
  HISTORY, a 213–7
    British schools, a b 215
    French colleges, b 214–5
    German schools, a 215
    Greeks and Romans, a 213–4
    human medicine, relation of, b 216–7
    prevention of diseases, a b 216
    sixteenth and seventeenth centuries, a b 214
    treatment of diseases, a 216
    United States, b 215–6
  LITERATURE, a 216, b 220, b 221, a 222
—— (Bourgelat), IV, a 160; (Horse), XII, b 198–9
Veth, D. D., naturalist (Indian Archipelago), XII, b 856, note, b 857, a 859; (Java), XIII, a 611 note, b 619, b 620; (Sumatra), XXII, a b 672, note, b 674
Vetlanka, camp (Plague), XIX, b 170, a 172, a b 178
Vetluga, river (Volga), XXIV, b 299
VETO, executive prerogative, XXIV, a 223–5; (Mirabeau), XVI, b 519; (Norway), XVII, b 597; (Thurgau), XXIII, a 352; (Ticino), a 374; (Tribune), a b 592; (United States), b 797. See Liberum Veto
—— Act (Chalmers), V, *a* 327; (Free Church of Scotland), IX, a 654
Vetranic-Cavic, Nicholas, poet (Servia), XXI, b 722–3
Vetrano, Leon, pirate (Ionian Islands), XIII, a 212
Vetter, lake (Sweden), XXII, b 774, a b 778, a 780
Vetterli gun (Gunmaking), XI, b 252
Vettore, Monte (Italy), XIII, a b 447
Vettori, Benedetto, medical writer (Machiavelli), XV, a 148, *a* 150, a 152, a 153
Vetulonia, city (Etruria), VIII, a 559
Veturii, tribe (Liguria), XIV, b 646
Vetus et Nova Ecclesiæ Disciplina, Thomassin (Popedom), XIX, a 525
Vetus Itala (Latin Language), XIV, b 339–40
Vevay, town (Vaud), XXIV, *b* 125
Vexillum, scarf (Costume), VI, a 410
Veysí, biographer (Turkey), XXIII, a 699
Via Appia. See Appia Via.
Viability (Medical Jurisprudence), XV, b 789, b 790
Via Campana (Herculaneum), XI, b 646
—— Devana (Montgomery), XVI, b 815
Viaduct (Bridges), IV, b 253; (Railway) (Ill.), XX, a 242–3, b 264; portage (Railway), b 264, note
Via Egnatia (Illyria), XII, *b* 748; (Macedonia), XV, b 138; (Monastir), XVI, b 745
Viæ Stratæ (Rome) (Ill.), XX, b 829
Via Flaminia (Flaminius, C.), IX, b 252; (Rimini), XX, *b* 570; (Rome), a 767, b 829, b 851, note
Via Julia (Monmouth) XVI, a 781
Vianna, district (Portugal), XIX, a b 552, a 553
VIAREGGIO, town, XXIV, b 225
Via Sacra (Rome) (Plate VII) (Ill.), XX, b 836, b 837–8, a b 844; (Vesta), XXIV, a 211
VIATICUM, sacrament, XXIV, b 225
VIATKA or Vyatka, government, XXIV, a 323–4; (Ural Mountains), b 10
VIAU or Viaud, Théophile de, poet, XXIV, b 225–6; (France), IX, a 578
Viazemski, prince, poet (Russia), XXI, a 117
Viborade, St. (Embroidery), VIII, a 149
VIBORG or Wiborg, city, XXIV, a 226; province (Russia), XXI, a 76
——, town (Denmark), VII, *a* 73
Vibracularia, polypides (Polyzoa), XIX, a b 452
Vibration (Acoustics), I, a b 94–9, a 101, a b 108, a 110; (Ear), VII, a b 512, a 513; (Magnetism), XV, b 240, b 242, b 270; (Pianoforte), XIX, b 74, *a* 75; (Tuning-Fork), XXIII, a 659
—— of orbitary phase (Wave Theory), XXIV, a b 445; direction of (Wave Theory), a 478, a 481: direction of light (Wave Theory), a b 473–4; discriminating rapid (Touch), XXIII, b 511; effects on Iron and Steel, XIII, a b 365; longitudinal (Acoustics), I, a 95–8, a 104, a 106; luminous (Molecule), XVI, b 638; of Microscope, b 286; number of notes (Music), XVII, a 111, b 112; in plane of incidence (Wave Theory), XXIV, a 484; subsidence of (Elasticity), VII, *b* 695–6; theory of odors (Smell), XXII, a 178; transverse (Light), XIV, b 615–6; (Wave Theory), XXIV, b 470, a b 471, b 472; waves (Harmonic Analysis), XI, b 430–1
Vibrator in printing press (Typography), XXIII, b 752
Vibrio, animalcule (Fermentation), IX, a 86, note; (Schizomycetes) (Ill.), XXI, a b 416, a *b* 419, b 421, a *b* 422, b 423
Vibrissæ, hairs (Mammalia), XV, b 350, b 369, b 411; (Touch), XXIII, a 509
Vibrograph (Acoustics), I, b 102–3, a 110
Vic, Dominique de, soldier (Casaubon), V, *a* 151
VICAR, vicegerent, XXIV, a b 226; (Advowson), I, b 162; (Curate), VI, b 626; -choral, clerk, XXIV, b, 226; -general, b 226
Vicarii, magistrates (Rome), XX, a 796
Vicar of Wakefield (English Literature), VIII, a 384; (Goethe), X, *a* 645, b 647; (Goldsmith), a *b* 678
Vicar's vertical mixer (Baking) (Ill.), III, a b 222
Vicat, Louis Joseph, engineer (Building), IV, a *b* 410, a 411
Vic-d'Azyr, Felix, anatomist (Fourcroy), IX, a b 431; (Morphology), XVI, a b 865
Vice, character (Drama), VII, a b 359
——, quality (Hutcheson), XII, b 425
—— -comes, title (Viscount), XXIV, b 281
Vicennial Prescription, XIX, a 726
VICENTE, Gil, dramatist, XXIV, b 226–7; (Drama), VII, b 363; (Portugal), XIX, b 571, a 572
Vicentia, town, XXIV, b 227
VICENZA, town, XXIV, a b 227; (Libraries), XIV, a 551; (Palladio), XVIII, b 191, a 192; (Universities), XXIII, b 891
Vice-president (United States), XXIII, b 797, a *b* 798; list of incumbents (United States), a 836
Viceroy of India (Calcutta), IV, a b 583
Viceroys, Spanish (Argentine Republic), II, b 431–2; (Mexico), XVI, a 228
Vices (Hand Tools) (Ill.), XI, a 393
VICH, town, XXIV, b 227
VICHY, town (Plan), XXIV, b 227–8
Vici, Andrea, architect (Hydromechanics), XII, a 454
VICKSBURG, city, XXIV, a 228; siege of, 1863 (Grant), XXIII, a 838; (United States), b 826, a 827
VICO, Giovan Battista, jurist, XXIV, a 228–30
    biographical sketch, a b 228
    historical science, b 229–30
    influence of, b 230
    Italian jurisprudence, a 229
    law-system of, a b 229
    progress, denial of, a b 230
    Scienza Nuova, b 229
    social position of, b 228
—— (Greece), XI, a 123; (Italy), XIII, a 522; (Theism), XXIII, a 264
—— prefects of (Rome), XX, b 812
Vico's Comet, VI, a 172, b 173
Vicramaditya, era of (Chronology), V, *a* 624
Victor, Saint (Soleure), XXII, b 263
——, St., bishop (Piacenza), XIX, a 72

VICTOR I., St., pope, XXIV, b 230; (Easter), VII, b 531; (Good-Friday), X, a 689; (Irenæus), XIII, b 279; (Monarchianism), XVI, a 745; (Popedom), XIX, *a* 504, b 523
VICTOR II., pope, XXIV, b 230; (Gregory VII.), XI, a 158
VICTOR III., pope, XXIV, b 230-1
VICTOR IV., Conti, Gregorio, anti-pope, XXIV, a 231
VICTOR IV., Octavianus, anti-pope, XXIV, a 231
VICTOR, Claude Perrin, duke of Belluno, general, XXIV, a b 231
VICTOR, Sextus Aurelius, historian, XXIV, b 231; (Hadrian, Wall of), XI, a 327
—— Amadeus I., duke (Savoy), XXI, a 357
—— Amadeus II., king of Sardinia (Arnaud), II, b 541, a 542; (Italy), XIII, b 494; (Savoy), XXI, a b 357
—— Amadeus III., king of Sardinia (Carouge), V, b 111; (Savoy), XXI, b 357
—— Emmanuel I., king of Sardinia (Savoy), XXI, b 357
VICTOR EMMANUEL, king of Italy, XXIV, b 231-2; (Army), II, *a* 535; (Austria), III, a 121, a 122; (Florence), IX, a 295; (France), b 549, a 551; (Gioberti), X, b 540-1; (Italy), XIII, b 473, b 498-501; (Pius IX.), XIX, *b* 168
Victoria, asteroid (Parallax), XVIII, a 254
VICTORIA, British colony, XXIV, a 232-6
  area, a 232
  civil organization, a *b* 235
  climate, b 232
  coasts, a b 232
  education, b 235
  flora and fauna, a b 234
  geology, b 233-4
  history, b 235-6
  industrial system, b 234-5
  minerals, a 234
  surface, b 232
  water-systems, b 232-3
—— (Australia), III, a *b* 99, a 100; (Contempt of Court), VI, a 284; (Gold), X, a *b* 662, a 663; (Mining), XVI, b 494; (New South Wales), XVII, a 419, b 421
VICTORIA, city, Brazil, XXIV, a b 236
VICTORIA, city, XXIV, a 236; (Columbia, British), VI, a 152; (Vancouver Island), XXIV, b 64
——, city (Hong Kong), XII, *b* 144, a b 145-6
——, lake (Oxus), XVIII, a b 107, a 108
——, river (Australia), III, a 92, b 93
——, queen (Albert, Prince), I, a b 400, a 401; (Archery), II, a b 327, a 328; (Cabinet), IV, b 550; (England), VIII, b 327-8; (Melbourne, Lord), XV, b 847; (Palmerston), XVIII, a b 200; (Peel), b 466; (Poor Laws), XIX, a b 489, a b 490, a b 491, a b 493; (Precedence), b 682 note; (Royal Household), XXI, a b 42; (St. Germain-en-Laye), a 179; her Crown, VI, b 548 as empress of India, XII, a 843, b 850, a 851
—— bridge, Montreal (Bridges) (Ill.), IV, a 293, a 305; (Montreal), XVI, b 820
—— Cave, V, b 234-5
—— dock (Hull), XII, b 354
—— Docks, London (Harbors and Docks) (Plate XI), XI, b 418, *a* 420
—— embankment (London), XIV, a 832, *a* 850
—— Falls (Africa), I, b 221, *b* 228; (Livingstone), XIV, a 727; (Zambesi), XXIV, *a* b 804
—— Falls, South America (Plate), XIX, b 199
—— floors (Building), IV, b 441
—— Land (Polar Regions), XIX, b 342
—— Nyanza, lake (Africa), I, a 222, b 225, b 226, a 229; (Nile), XVII, b 517, a b 518, *a b* 521, a 522
—— Park (London), XIV, a 827, b 833
—— peak (Hong Kong), XII, a 145
—— peak and river (Cameroons), IV, a b 656
—— period (Calendar), IV, a 595
—— Regia, plant (Botany), IV, a 97, b 102; (Paraguay), XVIII, b 248; (Water Lily), XXIV, a 424
Victoriatus, coin (Numismatics), XVII, *a* 670
Victoria University, XXIII, a b 910
Victorines, sect (Mysticism), XVII, a 139
Victorinus, Gallic tyrant (Rome), XX, b 794
Victors, list of (Olympia), XVII, a b 788
Victorshöhe, mountain (Harz), XI, a 453
Victualling yards (Deptford), VII, b 88; (Dockyards), a b 270, b 271, b 273, a 274, b 276
Vicugna or vicuña, mammal (Alpaca), I, *a* 526; (Bolivia), IV, b 12, a 13; (Llama) (Ill.), XIV, b 745-6
Vicus Aquensis, town. See BAGNÈRES DE BIGORRE
—— Iriæ, town. See VOGHERA
—— Jugarius, street (Rome), XX, b 836
—— Spicorum, town (Vigo), XXIV, b 244
—— Tuscus, street (Rome), XX, a 837
VIDA, Marco Girolamo, poet, XXIV, b 236-7
Vida de Lazarillo (Spain), XXII, b 371
Vidal, Peire, troubadour (Provençal Literature), XIX, *b* 899, *a* 900
—— de Besalú, Raimon, poet, (Provençal Language), XIX, a 893, b 895; (Spain), XXII, a 361, b 376
Vidian nerve (Anatomy), I, b 774
Vidom, title (Knighthood), XIV, b 121 note
Vidonia Wine, XXIV, a 640
Vidourle, river (Gard), X, a 68
Vidsteen, Christian, philologist (Scandinavian Languages), XXI, a 385 note
Vidua, genus (Weaver-Bird), XXIV, a 489
Vidûshaka, dramatic character (Sanskrit), XXI, b 298
Vie, river (Vendée), XXIV, b 149
Viedma, lake (Patagonia), XVIII, a b 358
Viedt, C. H., manufacturer (Ink), XIII, b 86, a 87
Vieillot, Louis Pierre, naturalist (Ornithology), XVIII, b 10-1, a 15, b 16, b 17-8 note, b 21
VIEN, Joseph Marie, painter, XXIV, a 237
Vienchang, town (Cambodia), IV, a 641; (Siam), XXI, b 892, a 894
VIENNA, city (Plans), XXIV, a 237-40
  architectural features, b 237-8
  history, b 239-40
  industries, a b 239
  intellectual and art features, b 238-9
  parks, a 239
  people, a 239
  topography, a b 237
—— (Academy), I, b 74, a b 75; (Aqueduct) (Ill.), II, a 199; (Arsenal), a 530, b 554; (Baths), III, a 379; (Cremation), VI, *b* 501; (Glass), X, a 582; (Libraries), XIV, b 526-7, b 549; (Medicine), XV, b 824, a 826; (Meteorology), XVI, b 125, a 130, a 132, a 133; (Newspapers), XVII, *b* 440, note; (Observatory), b 733; (Police), XIX, b 356; (Pottery), a b 660; (Technical Education), XXIII, a 115, b 116; (Telescope) (Ill.), b 161, a 163, a 164; (Universities), b 899, a 905, b 907; (Vaccination), XXIV, a 32; (Veterinary Science), a 215; art galleries of, XXIV, b 238; (Schools of Painting), XXI, b 466. (Velazquez), XXIV, *b* 144, b 147; revolution of 1848 in (Austria), III, a b 119; siege of, 1529 (Turkey), XXIII, b 684; siege of, 1683; (Poland), XIX, b 307-8; (Turkey), XXIII, a 687
——, Congress of, 1814-5, VI, a b 240; (Ambassador), I, b 577, a 578; (Austria), III, a 118; (Balance of Power), a *b* 233, a 234; (Consalvi), VI, b 259; (Denmark), VII, *b* 77; (Europe), VIII, b 628; (France), IX, a 544, a 545; (Gentz), X, *a* 146; (Germany), b 452; (Italy), XIII, b 495, a 496; (Londonderry), XIV, a 866; (Metternich), XVI, a 209; (Paris), XVIII, a 299; (Poland), XIX, a 310; (Saxony), XXI, a 371; (Talleyrand), XXIII, a 37; (Wellington), XXIV, *b* 524
—— *Codex* (Hungary), XII, a 391, note
—— miocene basin (Geology), X, a 323, a 324
—— oven (Baking), III, b 222
VIENNE, department, XXIV, a 240
VIENNE, town, XXIV, a 240-1
——, river, XXIV, *a* 240, a 241; (Creuse), VI, a 508; (France), IX, a 446, b 457; (Limoges), XIV, b 657, a 658; (Loire), b 815
VIENNE, HAUTE-, department, XXIV, a b 241
Viennese action (Pianoforte) (Ill.), XIX, a b 81
Vierge aux Rochers, painting (Leonardo), XIV, b 460-1
Vierordt, physician (Vascular System), XXIV, *a* 106, a 113, *b* 117, a 118
Vierzig Bücher vom Staate (Zachariæ), XXIV, b 800-1
Vierwaldstattersee, lake. See LUCERNE
Vierzo, district (Leon), XIV, a 455; (Spain), XXII, a 308
VIERZON, town, XXIV, b 241
Viescher glacier (Switzerland), XXII, b 815
VIETA or Viette, François, mathematician, XXIV, b 241-2; (Algebra), I, b 453, *a* 454; (Apollonius), II, a 165; (Squaring of Circle), XXII, a *b* 451 note; (Tables), XXIII, *a* 13; (Trigonometry), b 597, a 607
Vieussens, Raymond (Anatomy), I, a 711, b 712, *a* 713
Vieusseux, Giampietro, patriot (Italy), XIII, b 525
Vieux Colombier quartette (La Fontaine), XIV, a 205, a 206
Vieux Cordelier (Desmoulins), VII, *b* 113
Vieuzac, revolutionist. See BARÈRE DE VIEUZAC
View of Greenwich (Hollar), XII, a 104
Views of London (Hollar), XII, b 104
Vieyra, João Fernandes, soldier (Brazil), IV, a 207
VIGEVANO, town, XXIV, b 242
Vigfussen, Gudbrand, philologist (Iceland), XII, a 657, *b* 659, a b 661, *a* 663, a b 664; (Scandinavian Languages), XXI, b 384, a 385, b 386 note
VIGIL, day preceding a festival, XXIV, b 242
Vigilance committee (Montana), XVI, b 800
VIGILANTIUS, presbyter, XXIV, b 242; (Monachism), XVI, a 729
VIGILIUS, pope, XXIV, b 242-3; (Justinian I.), XIII, b 805; (Pelagius I.), XVIII, a b 484; (Popedom), XIX, a *b* 507, b 523
VIGNA, Pietro de la, or Vinea, or Vigne, Pier delle, jurist, XXIV, a 243; (Sonnet), XXII, a 275, a 276
Vignacourt, Alof de, master (St. John of Jerusalem), XXI, b 183

Vigne, traveller (Ghazni), X, a 501, a b 502
——. See Vineis
Vignemale, mountain (France), IX, b 445; (Pyrénées), XX, a 133
Vignette, engraving (Turner), XXIII, b 708, note
Vignettes in casements (Architecture), II, b 411
Vignobles, district (Neuchatel), XVII, a 370
Vignola, Giacomo da, or BARROCHIO, architect, III, a 328; (Architecture), II, a 384, a 386
Vignoles, Alphonse des, divine (Chronology), V, b 619
—— rail (Railway) (Ill.), XX, b 231–2, b 253–4, b 264
VIGNY, Alfred de, poet, XXIV, a 243–4; (France), IX, a 595. See also DE VIGNY, by Cates, VII, a b 117
——, Jean Belet de, translator (Voragine), XXIV, b 317
VIGO,, town, XXIV, a b 244; (Spain), XXII, a 307; bay (Galicia), X, a 25
Vigors, Nicholas Aylward, naturalist (Ornithology), XVIII, a b 19, a 20, b 34
Vigten Island (Norway), XVII, b 590
Viguiers, commanders (Andorre), II, b 18
Vihāras, retreats (Buddhism), IV, a 386, note
Vijaya, king (Ceylon), V, b 316
Vijayanagar empire (India), XII, a 833, b 835; city (Teak), XXIII, a 111 note
Vijil, Francisco de Paula, author (Peru), XVIII, a 689, b 691, a 692
Vijñana Bhikshu, writer (Sanskrit), XXI, a 305
Vikings, sailors (Alfred the Great), I, a b 447, a 448; (Harold I.), XI, a 433; (Holland), XII, b 73; (Iceland), a b 655; (Ireland), XIII, a b 257; (Norway), XVII, a b 598, b 601; (Orkney), a 873; (Pembroke), XVIII, a 493; (Russia), XXI, a 96; (Scotland), b 499–500; colony of (Wollin), XXIV, b 667
Vikramáditya, Harsha, king of Ujjain (India), XII, a b 829; (Sanskrit), XXI, b 297; era of, b 297; (Prakrit), XIX, b 679 note
—— of Kalyana, king (Sanskrit), XXI, a 298
Vikramorvasi or *Vikrama and Urvasi* (Drama), VII, a 838; (Kálidása), XIII, a 838; (Sanskrit), XXI, a 299, note
Vi laica removenda (Writ), XXIV, a 731
Vilag, newspaper (Hungary), XII, b 385
Vilaine, river (France), IX, a 446, b 457; (Ille-et-Vilaine), XII, b 741–2; (Mayenne), XV, a 655; (Morbihan), XVI, a 839
Vilcamayu, river (Peru), XVIII, a 686
Vilcañota, mountain (Peru), XVIII, b 685
Vilia, river (Vilna), XXIV, b 251
VILKOMIR or Wilkomierz, town, XXIV, b 244
Villa Capra, Vicenza (Architecture) (Plate XXI), II, a 385
VILLA DE CONTAS, town, XXIV, b 244
—— de Horta, town (Azores), III, a 147, a 149
—— do Forte (Ceará), V, a 245
VILLA DO RIO PARDO, town, XXIV, b 244
—— Faustini (Bury St. Edmunds), IV, a 511
Villafierra, marquis of. See Valenzuela
Villa Franca, town (Azores), III, a 148, a 149
—— in Verona, town (Starling), XXII, a 475; battle of, 1515 (Francis I.), IX, b 607. See Treaty of Villafranca
Village communities (Ajmír), I, b 384; (Ceylon), V, a 318; (Commons), VI, b 186; (Ethnography), VIII, b 545; (Germany), X, b 425, a 426; (Ireland), XIII, b 261, a 264; (Japan), a 588; (Java), b 615; (Kuki Hills), XIV, a 71; (Land), b 260–1, a b 262, a 263, a 264; (Law), a b 365; (Lushai Hills), XV, a 71; (Maurer), a 643; (Punjab), XX, a 114; (Russia), XXI, a b 77, b 86, b 91–2; (Siam), b 891; Brandenburg (Prussia), XX, b 7, a 12
Villages, defence of (Fortification), IX, b 384–5
Villainage, Villeins, or Villani, English (Agriculture), I, a 262; (Copyhold), VI, b 315; (Slavery), XXII, b 145; destruction of (England), VIII, a 292; socage (Primogeniture), XIX, a 754
Villa Jovis, palace (Capri), V, b 69
—— Ludovisi (Rome), XX, a 859, note
—— Madama, Rome (Pippi), XIX, b 122
Villana, Maria, nun (Stigmatization), XXII, b 577
Villa Nazionale, promenade gardens (Naples), XVII, b 195, b 196
Villancico, song (Music), XVII, a 91
Villanella, song (Music), XVII, a 91
Villani. See Villainage
——, Filippo, chronicler, XXIV, a 246
VILLANI, Giovanni, chronicler, XXIV, b 244–6; (Dante), VI, a 713, a 717; (Gloss), X, b 612 note; (Italy), XIII, b 515; (Renaissance), XX, a 397
——, Matteo, chronicler, XXIV, a 246
Villanova, John de, master (St. John of Jerusalem), XXI, a 183
Villanueva, town (Zacatecas), XXIV, a 800
—— del Grao, port (Valencia), XXIV, a 40
Villa of Hadrian, Tivoli (Architecture), II, a 364, b 367–8; (Præneste), XIX, a 675; (Tivoli), XXIII, a 449
Villa-Pillar, town (Paraguay), XVIII, b 248
Villa Puerorum, town (Brignoles), IV, b 312
Villarceau, astronomer (Parallax), XVIII, b 256
Villar dam (Water-Supply) (Ill.), XXIV, b 427, b 428, a b 429, a 430
Villa Real, town and district (Tras-os-Montes), XXIII, b 558
Villaret, Fulk de, master (St. John of Jerusalem), XXI, a 183
——, William de, master (St. John of Jerusalem), XXI, a 183
Villarica, lake (Chili), V, b 535; mountain (Chili), b 535
——, town of Brazil (Ouro Preto), XVIII, a 78
——, town (Paraguay), XVIII, b 248
VILLARS, Claude Louis Hector, Duke of, general, XXIV, a b 246; (Camisards), IV, a b 658; (Cavalier), V, a 227; (Denain), VII, a 67; (France), IX, a 512, b 515; (Voltaire), XXIV, b 306
Villarsite (Mineralogy), XVI, b 432
Villas, Italian (Como), VI, b 196; (Frascati), IX, b 637–8; Roman (Tusculum), XXIII, b 713–4
Villavicencio, geographer (Ecuador), VII, b 558, a b 559, a 561, b 562, b 563
Villebois, range (Jura), XIII, a 791, a 792
VILLEFRANCHE DE ROUERGUE, town, XXIV, b 246
VILLEFRANCHE SUR SAONE, town, XXIV, b 246
Villegagnon, Nicholas Durand de, adventurer (Brazil), IV, a b 206
VILLEHARDOUIN, Geoffroy de, historian, XXIV, b 246–8
  chronicle of, b 247–8
  crusading period, a b 247
  editions of the *Conquête*, b 248
  origin of, b 246–7
  Valenciennes-*Chronicle*, a b 247
—— (Crusades), VI, a 556; (France), IX, b 568; (Nauplia), XVII, b 255; (Ramusio), XX, a 282
——, Godfrey, prince of Achaia, XXIV, b 247; (Nauplia), XVII, b 255
Villein. See Villainage
Villèle, Jean Baptiste Seraphim Joseph, Comte de (Charles X.), V, b 357
VILLEMAIN, Abel François, historian, XXIV, b 248–9; (France), IX, a 598; (Greece), XI, b 133, a 136
Villemarqué, Hersart de la, antiquary (Arthur), II, a b 569, b 571; (Ballads), III, b 244, a 246; (Celtic Literature), V, b 281, a 282, b 284, b 285
VILLENA, town, XXIV, b 249
——, Juan Fernando Pacheco, marquis of (Isabella the Catholic), XIII, b 385; (Spain), XXII, b 336
——, Enrique de, poet (Spain), XXII, a 370
Villenage. See Villainage
Villeneuve, Arnand de, alchemist (Lully), XV, a b 65
——, Huon de, troubadour (Romance), XX, a b 669
——, Pierre Charles J. B. Silvestre, admiral (Calder), IV, b 585; (Nelson), XVII, b 332–3
—— -Bargemont, historian (St. John of Jerusalem), XXI, b 184
VILLENEUVE - SUR - LOT, town, XXIV, b 249
Villeroy, François de Neufville, duc de, marshal (France), IX, a 511, a b 512
Villers, Charles François Dominique de, philosopher (Mill, James), XVI, a 319
Villers-Cotterets, ordinance of, 1539 (France), IX, a 577
Villette, tale (Bronte), IV, b 329
Villi, hair-like bodies (Digestive Organs) (Ill.), VII, b 196–7; (Hydrozoa), XII, b 586; (Histology), XII, a 20; (Mammalia), XV, a b 372–3; (Nutrition), XVII, a 688, b 697
Villiers, Charles Pelham, statesman (Clarendon), V, a 706; (Wolverhampton), XXIV, a 670
——, George. See BUCKINGHAM, dukes of
——, George William Frederick. See CLARENDON, 4th earl of
——, Sir John, courtier (Coke, E.), VI, a 110
——, John de, grand master (St. John of Jerusalem), XXI, a 183
Villmanstrand, town (Viborg), XXIV, a 226
Villmergen wars (Switzerland), XXII, b 830–1
Villoison, Jean Baptista C. d' A., critic (Homer), XII, b 118, note, a 125
VILLON, Francis, poet, XXIV, b 249–51; (France), IX, b 486, a 570; (Renaissance), XX, a 403
Vilmar, August Friedrich Christian, historian (Germany), X, a 487, b 488
Vilmorin, Henry de, botanist (Wheat), XXIV, b 561, a b 562, a b 563
VILNA or Wilno, government, XXIV, a b 251; (Russia), XXI, a 76, a b 87, a 88, a 99
VILNA or Wilno, city, XXIV, b 251–2; (Observatory), XVII, a 735
Vilni, river (Yakutsk), XXIV, a b 762
Vilvorde, castle (Tyndale), XXIII, b 717
Vimiera, battle of, 1808 (Wellington), XXIV, a 523
Viminal Hill (Rome), XX, a 750, a b 831
Vimoutier, town (Orne), XVIII, b 5, a 6
Vinago, genus (Pigeon), XIX, b 93

Vinagre, Rio, river (Colombia), VI, a 138
Vinaya, canon (Buddhism), IV, b 389; (Pâli), XVIII, b 187, a 188
Vinayapitaka (Pâli), XVIII, a 188
Vinca, plant (Botany), IV, a 110, a 113; (Horticulture), XII, b 260
VINCENNES, town, France, XXIV, a 252
VINCENNES, Indiana, city, XXIV, a b 252; (Indiana), XII, a 853, *a* 854
VINCENT or Vincentius, St., martyr, XXIV, b 252
VINCENT OF BEAUVAIS or Vincentius Bellovacensis, XXIV, b 252-4; (Education), VII, a 583; (Encyclopædia), VIII, a b 175; (Fable), a 734; (Scholasticism), XXI, b 445
VINCENT of Lerins, St., ecclesiastical writer, XXIV, a 254; (Hermeneutics), XI, a 667; (Origen), XVII, a 867
——, Alexandre, J. H., mathematician (Porisms), XIX, a 535
VINCENT, George, painter, XXIV, b 252
——, William, dean (Africa), I, b 219, a 220; (Southey), XXII, a 304
VINCENT DE PAUL, St., founder of the Lazarists, XXIV, a b 254; (Foundling Hospitals), IX, b 425; (Lazarists), XIV, a b 374; (Monachism), XVI, a 739
—— de Paul society (Ozanam), XVIII, b 115, a 116; (Paris), b 288
Vincente, bishop of Guarda (Portugal), XIX, a *b* 557
VINCENT FERRER, St., preacher, XXIV, b 254
Vincenzo, Monte (Italy), XIII, a b 452
VINCI, LEONARDO DA, artist, XIV, a 456-63; (Bossi), IV, *b* 61; (Canal), a 691; (Capillary Action), V, b 50; (Credi), VI, b 493; (Drawing), VII, *b* 388-9; (Fine Arts), IX, b 183; (Fresco), *b* 678, b 679; (Galileo), X, a b 29 note; (Geography), b 162, a 163; (Gunnery), XI, a 264; (Italy), XIII, b 518-9; (Michel Angelo), XVI, b 238-9; (Milan), a 304; (Mint), b 504; (Painting), XVIII, b 141, b 143; (Schools of Painting) (Ill.), XXI, a b 456, a 463, a b 465, note, a 466, *a b* 467, *a* 468; (Stereoscope), XXII, a b 565; (Verrocchio), XXIV, *a* 190; (Windsor), b 633, note; (Wool), a 697; (Yarn), b 766
——, Piero da, lawyer (Leonardo), XIV, b 456
Vinciolo, Frederic, designer (Lace), XIV, a 185
Vincy, battle of, 717 (France), IX, a 469
Vindelici, race (Alps), I, a 557; (Rhætia), XX, a 519; (Tyrol), XXIII, b 758-9
Vindelicia. See RHÆTIA
Vindelician Alps, I, b 552
Vindex, Caius Julius, general (Galba), X, a 21; (Nero), XVII, a b 360
——, debtor's (Roman Law), XX, b 702, b 703
Vindhya, mountains (Bilâspur), III, a 580; (Chutiâ Nágpur), V, a 671; (India), XII, a 770, b 771, b 774
"Vindicatio" in Roman Law (Tort), XXIII, a 483
Vindication (Gibbon), X, a 517, note
—— *of Natural Society* (Burke), IV, a b 482
Vindiciæ contra Tyrranos (Languet), XIV, a 289
—— *Gallicæ* (Mackintosh), XV, b 161, a 162
Vindicta, symbol (Roman Law), XX, *b* 699
Vindobona, city (Pannonia), XVIII, a b 217; (Vienna), XXIV, *b* 239
Vindocinum, town. See VENDOME
Vindomona, settlement (Vienna), XXIV, a 237, note, b 239
VINE, of grape (Ill.), XXIV, b 254-9
  anthracnose, b 258
  canes and tendrils, b 255
  climatic conditions of cultivation, a b 256
  fungoid diseases, a 258-9
  insect enemies, b 256-8
  oidium, a b 258
  origin of vine, a 256
  phylloxera, b 256-8
  rot, b 258
  structural form (Ill.); a 255-6
  varieties for cultivation, b 254-5, b 256
—— (Botany) (Ill.), IV, b 84, b 86, b 90, b 91, b 98, a 103, a 106, a 120; (Canada), *b* 682; (Horticulture), XII, b 287-9; (Italy), XIII, a 460; (Mildew), XVI, b 306; (Russia), XXI, a 93; (Shemaha), b 831; (Würtemberg), XXIV, b 736
——, bleeding in (Physiology), XIX, a b 53; culture, ancient (Wine), XXIV, a b 636; Italian (Wine), b 642; Portuguese (Wine), a b 640, b 641; legends of (Dionysus), VII, b 216-7; Papias's miraculous (Gospels), X, b 729. See Grape, Vineyard, Vintage, WINE
Vinea. See VIGNA
VINEGAR, acid, XXIV, a b 259; (Acetic Acid), I, a 88; (Brewing), IV, b 238; (Corpulence), VI, a 386; (Dietetics), VII, b 184; (Fermentation), IX, a b 86; (France), b 460; in Roman army (Brewing), IV, b 236; (Wine), XXIV, a 259
Vine-house (Horticulture) (Ill.), XII, b 227-8
Vineis or Vigne, Raimondo de, Dominican general (Catherine, St.), V, *b* 200, *a* 201, *a* 202
VINELAND, New Jersey, town, XXIV, a 878
Vine region (Alps), I, b 555-6; (France), IX, a 447
Viner's law-foundation at Oxford (Blackstone), III, b 695-6
VINET, Alexander Rodolphe, critic, XXIV, b 259; (Switzerland), XXII, a 838
Vineyards (Austria), III, b 103; (Cape Colony), V, b 39; (Crimea), VI, b 518; (France), IX, a 459, b 464; (Georgia, Kingdom), X, b 387; (Germany), b 405; (Gilgil), b 533; (Gironde), b 556; (Görz), b 700; (Hungary), XII, b 377, a 378, note; (Lot), XV, b 10; (Rhine), XX, a 535; (Savoie), XXI, b 347; (Saxony), a 373, b 375. See Vintage
Vingeanne, river (Marne, Haute-), XV, a 569
Vinita, town (Indian Territory), XII, b 875
Vinje, Aasmund Olafsen, poet (Norway), XVII, b 605
Vinland, colonization at (America), I, *a* 620
VINNITSA, town, XXIV, b 259
Vinnosa or Pinnosa, martyr (Ursula), XXIV, a 18
Vinovo art-works (Italy), XIII, b 464
Vintage, French (Wine), XXIV, a b 637, a b 638; German (Wine), a 644; Hungarian (Wine), a b 643; Italian (Wine), b 642, a 643; Portuguese (Wine), b 640, b 641
Vintners' Company (Adulteration), I, a 157
Vintschgau, district (Tyrol), XXIII, a b 758, *a* 759
——, Von, physiologist (Taste), XXIII, a b 86
Vinum ferri, drug (Iron), XIII, b 370
Viol, musical instrument (Music), XVII, a 105; (Violin), XXIV, *b* 260, *a b* 261, *a* b 262; discant, instrument (Violin), *b* 261, a 262; double bass, instrument (Violin), *b* 261; tenor, instrument (Violin), *b* 261, a b 262; three-stringed (Bazigars), III, b 397
Viola, plant (Botany), IV, a 124, a 130, a 142; (Horticulture), XII, b 260, a b 266; (Pansy), XVIII, a 218
—— da Gamba, instrument (Violin), XXIV, b 261, *a* b 262
—— d'amore, instrument (Violin), XXIV, a *b* 262
Violet, color (Dyeing), VII, b 500; aniline (Coal Tar Colors), XVIII, a b 903
VIOLET, flower, XXIV, b 259-60; (Botany), IV, a 106, a 119, a 120, b 124; (Horticulture), XII, b 260; Calathian (Gentian), X, b 143; Dame's or hesperis (Botany) (Ill.), IV, a b 142
—— Light, XIV, a 595, a 607
—— powders (Perfumery), XVIII, b 587
Violette, Mlle., dancer (Garrick), X, a 76
VIOLIN, musical instrument, XXIV, a 260-4
  bow, b 260-1, b 264
  description, a b 260
  development of viol, a 262
  discant and double bass viol, b 261
  genesis of, b 260-1
VIOLIN, *continued*
  literature, b 264
  makers by nations, a b 263
  model, high and flat, a 263
  quality of instrument, a b 264
  scordatura, a 264
  sides and corner-blocks, a 261
  strings, application and quality of, a b 262, b 264
  tenor violin and violoncello, b 263-4
  viol family, a 261-2
  violin, b 262-4
—— (Acoustics), I, a 105, b 110; (Amati), a 574; (Cremona), VI, a 502; (Music), XVII, *b* 100; music for (Corelli), VI, b 350
Violin School, treatise (Spohr), XXII, a 427
Violle, physicist (Pyrometer), XX, b 138, a 139, b 140
VIOLLET LE DUC, Eugène Emmanuel, architect, XXIV, b 264-5; (Altars), I, b 564; (Bridges), IV, a b 298; (Building), b 432, a 437, b 449
Violoncello, instrument (Violin), XXIV, b 263-4
—— stop (Organ), XVII, b 857
Violone stop (Organ), XVII, a b 857
Vionville or Mars la Tour, battle of, 1870 (Battle), III, b 384; (War), XXIV, a 368
VIOTTI, Giovanni Battista, violinist, XXIV, a 265
VIPER, snake (Ill.), XXIV, b 265-6; (Reptiles) (Ill.), XX, b 464, a 465, b 470, a 472, a 477, b 481, a *b* 482, b 487; Russell (Kistna), XIV, b 104
Viperidæ, family (Snakes), XXII, a b 201, a 204, b 209-10
Virág, Benedict, poet (Hungary), XII, *a* 392
Viramamuni, orientalist. See Beschi, Joseph
Víramgáon, town (Ahmadábád), I, *a* 375
Viramitrodaya (Sanskrit), XXI, b 302
Viradanallur, town (Tinnevelli), XXIII, b 431
Virchow, Rudolf, pathologist (Anatomy), I, b 717, a b 746, b 788; (Embryology), VIII, a 153; (Goodsir), X, a 690; (Indians), XII, a *b* 862, *a* 863, a 864, a 870; (Pathology), XVIII, a b 366, b 382, b 383, b 384 note, a 394 note, b 387, a 399 note, a 411, b 414, a 415, a 417, note; (Schwann), XXI, b 481; (Troad), XXIII, b 619
Virdung, Sebastian, musician (Oboe), XVII, a 725; (Pianoforte), XIX, b 73, *a* b 74, a 75, a b 76, a 78, a 87; (Trombone), XXIII, b 623; (Trumpet), b 630; (Zincken), XXIV, b 826
Vire, river (Manche), XV, a 466
Virements, imperial allowances (France), IX, a 450

Vireo, bird (Shrike), XXI, a 886
Viret, Pierre, writer (France), IX, b 575–6
Virgen Gorda, island (Virgin Islands), XXIV, a 281
VIRGIL, Publius Maro, poet, XXIV, a 267–74
  action of the *Æneid*, a 273
  Æneid, a 272–4
  age of, b 267–8
  books of the *Æneid*, b 273-4
  character-creations of the *Æneid*, a b 273
  childhood, a 268
  civil war period, a b 268
  contemporary regard for, a b 269
  Culex controversy, b 269–70
  Eclogues, a b 270
  editions of works, a 274
  epic quality of the *Æneid* a b 272
  episodes of the *Georgics*, b 271–2
  Georgics, b 270–2
  Mæcenas or productive period, b 268–9
  minor poems, b 269–70
  motive of the *Georgics*, b 270–1
  political quality of the *Æneid*, b 272–3
  pre-eminence of, considered, a 267
  religion in the *Æneid*, b 272
  representative qualities of, a b 267
  speculations of the *Georgics*, a b 271
  style of the *Georgics*, a 271, a 272
—— (Astrology), II, b 646, a 647; (Augustus), III, a 72, a 73; (Carthage), V, b 142; (Celtic Literature), b 282; (Cento), b 296; (Furies), IX, a 738; (Hesiod), XI, a 695; (Homer), XII, a *b* 124; (Horace), a 164, a b 167; (Latin Language), XIV, *a* b 335; (Livy), a 731; (Macrobius), XV, b 168; (Mæcenas), *b* 196; (Metempsychosis), XVI, b 112; (Miniature), a 457; (Naples), XVII, b 194, a 196, a 198; (Ovid), XVIII, a b 82, note, a 85, b 86, a 87; (Poetry), XIX, a 269, b 272, b 279; (Roman Literature), XX, *b* 737, b 741–2; (Rook), a 865, note; (Servius), XXI, *a* 725; (Terence), XXIII, b 203; *Codices* (Palæography), XVIII, a b 156, b 157; *Eclogues*, illustrated (Palmer), a 197; *Translation of* (Douglas), VII, b 326; (Dryden), b 425; Vatican, MS. (Illumination), XII, a 746
—— enchanter (Romance), XX, a b 657
VIRGIL, Polydore, or Publius Varrus Castellensis, historian, XXIV, a b 274; (Knighthood), XIV, a 124
Virgelia lutea, species (Arboriculture), II, b 280
Virgilianæ Sortes (Divination), VII, b 254
Virgilius, St., of Salzburg, bishop (Romance), XX, a 657 note
Virgin Mary (Greek Church), XI, b 138; (Mary), XV, b 296–9; cult of the (Nestorius), XVII, a 366; image of (Montserrat), XVI, a 824. See MARY THE VIRGIN, and Immaculate Conception
Virgin, Coronation of (Botticelli), IV, a 151
——, *Life of the* (Dürer), VII, b 480, b 481
Virginal, musical instrument (Pianoforte), XIX, b 73, *a* 74, a 75, b 76, a 78
Virgin and Child, pictures (Engraving), VIII, a 389; (Giorgione), X, b 542; (Hess, H. M.), XI, *b* 695; (Holbein), XII, a 57; (Leonardo), XIV, b 459, b 460–1; (Massys), XV, b 626, a 627; relief (Michel Angelo), XVI, *b* 239; statue (Michel Angelo), b 239; *with Angels*, painting (Michel Angelo), b 239; image (Zwingli), XXIV, a 872
Virgin-Honey, XII, a 140
Virginia bay (Corea), VI, a 347
——, colony (Hakluyt), XI, *b* 338; (Henry, Patrick), a 603; (Missions), XVI, b 537; (Post-Office), XIX, b 580–1; (Quakers), XX, a 892; (Raleigh, Sir W.), a 274; (Smith), XXII, b 184–6; (United States), XXIII, *a* b 777, b 778, a 781, *b* 782, *b* 785, b 787; (Wool), XXIV, b 688; origin of slavery in, XXII, b 146
VIRGINIA (Geol. Map), State, XXIV, b 274–80
  area, b 274–5
  civil organization, b 278–9, a 280
  climate, b 275–6
  education, a 279
  fauna, a b 278
  geology (Map), a 276–7
  history, a b 280
  industrial system, b 279–80
  minerals, a b 277
  physical features, a b 275
  vegetation, b 277–8
—— (Jefferson), XIII, b 624, a b 625, *a* 626; (Newspapers), XVII, b 445; (Oyster), XVIII, a 113; (Schools), XXI, a b 911; (Slavery), XXII, *b* 906, *a b* 907, a b 908, a 909; (Tobacco) (Ill.), XXIII, b 451; (Universities), a 913, a b 957, b 960; history of (United States), b 790, b 792, a b 794, b 795, *a* 796, b 800, a 803, b 821, a 823, note, b 829, a b 830, a 839; racing in (Horse), XII, a 207; statistics (United States), XXIII, b 853, a 858, a 859, *b* 860, a 861, b 863, *b* 864, *b* 870, a 872, b 876, a b 878; topography (United States), *a* b 843, *a b* 844, a *b* 845, a 846; *History of*, Smith's (Mink), XVI, a 497; *Notes on* (Jefferson), XIII, a b 626, note
—— and Kentucky resolutions, 1798 (Taylor, J.), XXIII, a b 927; (United States), b 804–5, b 808
VIRGINIA CITY, Nevada, XXIV, a 281; (Nevada), XVII, *b* 377–8
—— creeper (Vine), XXIV, b 255
—— Grosbeak, bird, XI, b 186
—— Nightingale, XVII, b 512
Virginians, Thackeray's (Tunbridge Wells), XXIII, a 645; (United States), b 779; (Washington), XXIV, a 409
Virginia plan of constitution (United States), XXIII, b 796
—— reserve, lands (Indiana), XII, a 854; (Ohio), XVII, a b 758
VIRGIN ISLANDS, XXIV, a 281
"Virginius," capture of the (United States), XXIII, b 830
Virginius, play (Knowles), XIV, b 130
Virginius and Virginia, legend of (Claudius Crassus), V, b 713
—— Rufus, consul (Tacitus), XXIII, b 24
Virgin Lamenting Dead Christ, statue (Michel Angelo), XVI, b 239
Virgin Martyr, play (Massinger), XV, a 625
Virgins, Vestal. See Vestal Virgins
—— with Ursula, XXIV, a b 18
Virgin's spring (Jerusalem), XIII, b 647, a 649, a 650
Virgin's system (Fortification), IX, b 411
Virgo, sign of the Zodiac, XXIV, b 829, a b 830, a b 831, a 834
Virgularia, genus (Corals), VI, b 341, *a* 343
Virial (Mechanics), XV, a b 727; of the stress (Atom), III, a 35
Viriathus of Lusitania, insurgent (Rome), XX, b 769; (Spain), XXII, a 321
Virieu, cluse of (Jura), XIII, a 792
Viriville, Vallet de, critic (Chartier), V, *b* 375
Virtual slope, line of (Hydromechanics), XII, b 508–9
—— velocities (Mechanics), XV, b 729, b 730
Virtue (Butler, Bishop), IV, b 522–3 (Crime), VI, a 516; (Edwards, J.), VII, b 598–9; (Hutcheson), XII, a *b* 424–5, a 427; (Neoplatonism), XVII, b 345; (Stoics), XXII, b 596, *a* b 597; Descartes's definition of (Cartesianism), V, a 130; excellence of (Xenocrates), XXIV, a 755; nature of (Schleiermacher), XXI, *b* 430; theory of (Socrates), XXII, b 249. See ETHICS, Good
Virtue and Vice, On (Plutarch), XIX, a 245
——, *Dissertation on* (Hutcheson), XII, a 427
Virtues, cardinal (Ethics), VIII, b 521–2
Virunum, town (Klagenfurt), XIV, b 108
Visão, romance (Portugal), XIX, a 571
Visayas, tribe (Philippine Islands), XVIII, a 767
Viscacha, genus (Mammalia), XV, b 421, a 426
Viscaino, Sebastiano, navigator (California), IV, b 615
Viscera, nerves of (Anatomy), I, a *b* 776; reversed (Monster), XVI, b 791–2
Visceral arches (Anatomy), I, b 728, a 729; arteries (Anatomy), b 792–3; cords (Mollusca), XVI, a 705; hump (Mollusca), (Ill.), a 658, a 661, a 667, a b 689, b 691; hump of Nautilus (Mollusca), a 696–7; nerve-cords (Mollusca), a 659; nerve-loop (Mollusca) (Ill.), b 667, a 668
Vischer family, artists (Metal-Work), XVI, a b 83
——, Hermann, sculptor (Sculpture), XXI, a 592
——, Peter, artist (Nuremberg), XVII, b 681; (Sculpture), XXI, a *b* 592, a 593 note
——, Theodor (Æsthetics), I, *a* 197
——, W., critic (Tell), XXIII, *a* 172
Visconti family (Italy), XIII, b 487, a *b* 488, a b 489; (Milan), XVI, a b 303, a b 305; (Petrarch), XVIII, a 722
——, bishop of Ventimiglia (Trent, Council of), XXIII, a b 584
——, Bernabo, tyrant of Milan (Urban V.), XXIV, a 13
——, Filippo Maria, tyrant (Italy), XIII, b 489
——, Galeazzo I., Lord of Milan (Piacenza), XIX, b 72
——, Galeazzo II., Lord of Milan (Italy), XIII, a 489
——, Gian Galeazzo, duke of Milan (Italy), XIII, b 488, a 489; (Pavia), XVIII, b 449 note, a 450; (Pisa), XIX, *a* 130; (Siena), XXII, b 46; (Universities), XXIII, a 892
——, Giovanni, archbishop (Italy), XIII, a 489
—— of Gallura, Giovanni, judge (Pisa), XIX, a b 129
Viscosity (Constitution of Bodies), VI, *b* 277, *a* 278; (Diffusion), VII, a 189; (Elasticity), a b 691, a 695–6; (Glacier), X, b 561–2; (Hydromechanics), XII, a b 452, b 453, a 455, a b 479, a 506; (Lubricants), XV, b 37; (Mineralogy), XVI, b 393; (Molecule), a 641–2; (Pneumatics), XIX, b 259, a 260–1; co-efficient of (Molecule), XVI, b 641; of metals (Strength of Materials), XXII, a b 629; stream flow theory (Hydromechanics), XII, b 522–3
VISCOUNT, title, XXIV, b 281; (Earl), VII, b 514; origin of (Peerage), XVIII, a 475; rank of (Parliament), b 312
Viscous and elastico-viscous Tides, XXIII, b 399, a b 403, b 404

Viscum album, plant (Mistletoe), XVI, a 551
Visé, Jean, Donneau de, editor (Newspapers), XVII, *a* 435
Viseu, district (Portugal), XIX, a 552, *a* 555
Vishnu, deity (Brahmanism), IV, *a* b 187, a 189, a 190; (Drama), VII, a b 343; (Fig), IX, b 135; (Hindustani Literature), XI, b 753; (India), XII, a 820; (Orissa), XVII, *b* 869
Vishnuganga, river (Himalaya), XI, *b* 745
Vishnuvites (Kámrúp), XIII, b 843
Vishtaspa, Bactrian king (Zoroaster), XXIV, *a b* 860
Visibility of objects at sea (Lighthouse), XIV, b 635
Visible speech vowels (Speech-Sounds), XXII, b 399
Visigothic kingdoms (Goths), X, b 754-6; (Spain), XXII, a 323-4; (Toulouse), XXIII, b 516
—— law (Breviarium Alaricanum), IV, *a* 235; (Fueros), IX, a *b* 711; *Lex Romana* (Roman Law), XX, b 731, b 734
—— writing (Palæography) (Ill.), XVIII, b 159, b 160, a 169
Visigoths (Cagots), IV, b 569; (France), IX, a 467; (Goths), X, b 753, a 754, a b 755; (Huns), XII, b 396, a 397; (Languedoc), XIV, b 287-8; (Spain), XXII, b 322-3; (Theodosius I.), XXIII, a b 277; conversion of (Ulfilas), *a* 767; (Rome), XX, a b 798
Visin, Denis von, dramatist (Russia), XXI, b 114
Visingsö geological formation (Sweden), XXII, a 778
Vision, physical (Optics), XVII, a b 829 binocular (Microscope), XVI, b 279; (Porta), XIX, b 540; duration of impression (Light), XIV, a 583; limits of (Light), a 582-3; seat of (Physiology), XIX, a b 43; See EYE, Sight; *New Theory of* (Berkeley), III, b 509
Vision d' Hébal (Ballanche), III, a 247
—— *of Constantine*, painting (Piero), XIX, a 91
—— *of Judgment*, poems (Byron), IV, b 542; (Southey), XXII, b 304
—— *of Piers the Ploughman*. See Piers Plowman
Visions (Fasting), IX, b 40; (Hildegard), XI, b 728-9; (Isaiah), XIII, b 388, a b 392; (Mohammedanism), XVI, a b 571; absolute and relative (Poetry), XIX, b 275-8; beatific (Catherine), V, b 200-1; of Buddha, IV, a b 382, note
Visions, Irish tales (Celtic Literature), V, b 269, a b 282-3
Visiter, journal (Swisshelm), XXII, *b* 941
Visiting commissions (Reformatories), XX, a 900
Visitor, inspector (College), VI, a 129
Viso, Mt. (Alps), I, b 545, b 548; (Italy), XIII, a *b* 444
Vison, genus (Mink), XVI, b 496
Vís-pati, title (India), XII, b 819
Vispered, book (Zend Avesta), XXIV, a b 814, a 816
Visscher, Anna, poetess (Holland), XII, a 97
——, Roemer Pieterssen, poet (Holland), XII, *b* 96, a 97
——, Tesselschade, poetess (Holland), XII, a 97
Vista-Alegre, factory (Ilhavo), XII, a 741
Vistritza, river (Macedonia), XV, *a* 138
Vistula, government (Poland), XIX, a 317
——, river (Austria), III, b 101; (Baltic), b 254; (Płock), XIX, b 238, a 239; (Poland), a b 318, a 329, a 320; (Prussia), XX, b 24, a 25; (Radom), *b* 224-5; (Siedlce), XXII, *a* 42; (Warsaw), XXIV, b 395
Visvámitra, sage (India), XII, *b* 820, b 821 note
Visvanátha, temple-builder (Tinnevelli), XXIII, a 432
Vita Caroli Magni (Eginhard), VII, b 605, a 606
—— *di Caspuccio* (Machiavelli), XV, b 151
Vítahavya, priest (India), XII, b 821 note
Vital capacity (Respiration), XX, a 491
—— force defined (Biology), III, b 589
VITALIANUS, pope, XXIV, b 281
Vitalism, theory (Pathology), XVIII, a 409
Vital spirits (Phrenology), XVIII, b 857; (Physiology), XIX, b 13
—— statistics (Austria), III, b 102; (Calcutta), IV, a b 584; (England), VIII, b 200-1; (France), IX, a 148; (Germany), X, b 409-10; (Glasgow), a 572; (Greece), XI, b 76; (Holland), XII, b 66-7; (India), a 785, b 806, note; (Italy), XIII, a 458-9; (Jews), b 698; (London), XIV, b 829-30, a b 836-7, b 862; (Longevity), b 869-70; (Massachusetts), XV, a 619; (Munich), XVII, b 32; (Navy), a b 306; (New York), a 477; (Paris), XVIII, a 282-3, a 288 note; (Population), XIX, a 528-32; (Prussia), XX, b 20; (Russia), XXI, a b 89; (St. Petersburg), b 202; (Saxony), a 374; (Scarborough), a 392; (Scotland), b 551-3; (Spain), XXII, a 313; (Suicide), b 662-3; (Sweden), b 780; (Switzerland), a b 817; (Temperance), XXIII, a 175; college athletics (Dietetics), VII, a 177; military (Algeria), I, a 497 note; (Sanitary Commission), XXI, b 904-5
Vita Nuova (Dante), VI, a 714, a b 716; (Italy), XIII, b 512
Vitativeness, organ of (Phrenology), XVIII, b 859
Vite, Timoteo della. See Viti
VITEBSK, government, XXIV, b 281-2; (Russia), XXI, a 76, a 88
VITEBSK, town, XXIV, a 282
Vite di Uomini Illustri (Italy), XIII, a 517
Vitelleschi, Giovanni, cardinal (Rome), XX, a 823
Vitelli, Alessandro (Medici), XV, b 799-800
Vitellin (Chemistry), V, b 502
VITELLIUS, Aulus, emperor, XXIV, a b 282; (Otho), XVIII, a 69; (Pilate), XIX, b 98; (Rome), XX, *a* 791, b 793; (Vespasian), XXIV, *b* 207, a 208
Vitensis, Victor, historian (Vandals), XXIV, b 65, a 66
VITERBO, city, XXIV, a 282-3; state (States of the Church), XXII, b 477, a 478
Viti or Vite, Timoteo, painter (Schools of Painting), XXI, b 453, b 462; Urbino), XXIV, b 14, a 15; portrait of (Raphael), XX, b 292
—— Islands. See FIJI ISLANDS
Vitigis, king, Goths (Justinian I.), XIII, *b* 806
Viti Levu, island (Fiji Islands), IX, b 136, *a* 137, b 138
Vitim plateau and river (Transbaikalia), XXIII, b 541, a *b* 542, a 543; (Siberia), XXII, *a* b 8, *a* b 9, a 18; (Yakutsk), XXIV, b 761, a 762, *a* 763
Vitis labrusca, species (Vine), XXIV, b 254, b 255, a 256; vinifera (Vine), b 254, *a* 256
VITORIA, town, XXIV, a 283; battle of, 1813 (Wellington), *b* 524
Vitosh, mountains (Sofála), XXII, a 259
VITRE, town, XXIV, a b 283
Vitrea, group (Foraminifera), IX, a 332-8, a b 339
Vitreous body (Anatomy), I, a 778, b 781; degeneration of protoplasm (Pathology), XVIII, a 399; Electricity, VIII, a 6, a 8; humor (Ophthalmology), XVII, b 805; rocks (Geology), X, a b 204
VITRIFIED FORTS, XXIV, b 283-4; (Inverness), XIII, b 206, a 207
Vitringa, Campège, or Kempe, theologian (Christianity), V, a 607
Vitro di trina (Glass), X, b 578, a b 581
VITRIOL, XXIV, b 284; blue (Sulphur), XXII, a 671; green (Mineralogy), XVI, a 418; oil of (Chemistry), V, a 437; (Distillation), VII, a 228; (Oils), XVII, a 760; (Sulphur), XXII, b 669-70; reaction of (Lead), XIV, a 378; red (Mineralogy), XVI, a 419; uran (Mineralogy), b 418; white (Mineralogy), a 418; (Zinc), XXIV, b 825
—— -chamber-muds (Thallium), XXIII, a 238
Vitriol-glass retort (Sulphur), XXII, b 670
VITRUVIUS, Marcus Pollio, architect, XXIV, b 284-6; (Architecture), II, b 334, a 335, b 344, b 355, b 356, b 357, a b 359, *a* 360, a 362, a 371, *a b* 382, a *b* 384, a 386; (Dry-Rot), VII, a 426; (Fountain), IX, b 428; (Fresco), a b 676; (Latin Language), XIV, b 336; (Mosaic), XVI, b 877; (Mural Decoration), XVII, a 49; (Photography), XVIII, b 852; (Rome), XX, b 826 note, a 827, a 828 note; (Theatre), XXIII, a 241; French translation of (Goujon), XI, a 5
Vitry, Jacques de, cardinal (Compass), VI, b 202
——, siege of, 1143 (Louis VII.), XV, b 19
Vittaria, group (Ferns), IX, b 90
VITTORIA, town, XXIV, a 286
Vittoria Corombona, play (Webster), XXIV, b 500
Vittorino da Feltre, teacher (Education), VII, b 583
Vittorio, town. See CENEDA
Vittorio Amadeo. See Victor Amadeus
Vittoriosa, town (Malta), XV, a 343, a 344
Viturdurum, town. See WINTERTHUR
VITUS, Saint, XXIV, a b 286
Viuda, La, island (Peru), XVIII, b 684
Vivacity (Rhetoric), XX, b 527
Vivaldi, Antonio, musician (Music), XVII, a 98, b 100, b 104
——, Guido de, explorer (Guinea), XI, a 234
——, Ugolino de, explorer (Guinea), XI, a 234
Vivaria, Roman (Hunting), XII, a 409
Vivarais, district (Camisards), IV, a 657, a 658
VIVARINI, family of painters, XXIV, b 286; (Schools of Painting), XXI b 454, *b* 462; They include Antonio, Bartolomeo and Luigi
Vivero, bay (Gallicia), X, a 25
Viverra, animal (Civet), V, b 695-6; (Mammalia), XV, a b 442
Viverrinæ, sub-family (Mammalia), XV, b 440, a 442-3
VIVES, Juan Luis, or Ludovico, XXIV, b 286-7; (Association of Ideas), II, b 638
Vivian, tale (Edgeworth, Maria), VII, b 567; (Edgeworth, R. L.), b 568
Viviane, of Round Table stories (Romance), XX, b 661
Viviani, Vincenzo, geometrician (Galileo), X, a b 32, b 33
Vivianite (Mineralogy) (Ill.), XVI, a 392, a b 421
Viviparous Grasses, XI, b 49; Insects, XIII, b 152-3; plants (Reproduction), XX, b 435

Vivisection (Anatomy), I, b 705; (Descartes), VII, a 109; (Hunter, J.), XII, a 404 note; (Malpighi), XV, b 340; uses of (Physiology), XIX, a b 26; history of (Surgery), XXII, a 709
—— Act (Medicine), XV, b 809
Vivonne, Catherine. See RAMBOUILLET, Marquise de
Vivora de la Cruz, viper (Uruguay), XXIV, b 19
VIZAGAPATAM, district, XXIV, a 287; town, b 287
Vizcaya or Biscay, province (Spain), XXII, b 312, a b 313, b 315. See BISCAY
VIZADRUG, XXIV, b 287
VIZIANAGRAM, Zamander's estate, XXIV, b 287
VIZIER or Wazir, officer, XXIV, b 287; (Mohammedanism), XVI, a 613; arrogance of (Egypt), VII, b 652; grand, authority of (Turkey), XXIII, a 696
VIZZINI, town, XXIV, a 288
VLACHS or WALLACKS, race, XXIV, a 288–90
  Bulgaro-Vlach empire, b 289
  Cici of Istria, a 290
  Dacia, settlement of, b 288
  Middle Ages, a b 289
  Morlachs, b 289
  names of the, a 288
  origin, a b 288
  Roman domination, decay of, b 288–9
  Roumans of Transylvania and Hungary, a b 290
  Wallachias, the, b 289
—— (Greece), XI, *b* 75, a 78, a 106; (Isaac II.), XIII, *a* 385; (Numerals), XVII, b 639–40; (Roumania), XXI, b 20–1; (Slavs), XXII, b 154; (Thrace), XXIII, b 339. See Roumans, Wallachians
Vlacich, theologian. See FLACIUS, Matthias
Vlacq, Adrian (Logarithms), XIV, *a b* 781, b 782; (Tables), XXIII, a 11, *a* 14
Vlad IV., the Impaler, voivode (Roumania), XXI, b 21
VLADIKAVKAZ, town, XXIV, b 290; (Terek), XXIII, *a* 203
VLADIMIR, government, XXIV, b 290–1; (Alexander Newsky), I, *a* 435; (Russia), XXI, a 76, b 92, b 94, *a* b 99; town, XXIV, a b 291
—— I., grand-duke and saint (Kieff), XIV, b 72, a 73; (Russia), XXI, *b* 97, *b* 111; (Sebastopol), a 647
—— II., Monomachus, grand-duke (Russia), XXI, a b 98
Vladimirescu, Theodore, prince (Roumania), XXI, a 26
Vladimirovitch, George, grand-duke (Dmitroff), VII, b 265
Vladislaff, king (Servia), XXI, a 721
Vladislavia, town (Wloclawek), XXIV, a 659
VLADIVOSTOK, town (Plan), XXIV, b 291–2; (Maritime Province), XV, b 555, a 556; (Siberia), XXII, *a* 11, a 15
Vlamingh, Willem de, explorer (Polar Regions), XIX, b 330; (Swan), XXII, a 770
Vlandi, Spiridion, lexicographer (Cerigo), V, b 300
Vlieland, island (Holland), XII, b 62, a 65
Vocabula Hungarica (Hungary), XII, a 390
Vocabularies (Gaelic), X, a 13
Vocabularius ex quo (Typography), XXIII, b 728
Vocabulary, defined (Dictionary), VII, a b 155
Vocal organs of Birds, III, b 629–30; (Ornithology), XVIII, b 31–2
Vocals or vowels (Speech-Sounds), XXII, b 396
Vocatio in jus, process (Roman Law), XX, b 698–9
Vocel or Wocel, historian (Slavs), XXII, a 155, b 162
Voconian law (Roman Law), XX, a 691 note
Vodena, city (Edessa), VII, a 566
Vodka, river (Onega), XVII, b 794
Vodnik, Valentine, poet (Slavs), XXII, b 159
Voelcker, August, chemist (Manure), XV, b 514, *a* b 515, a b 517, b 519. See List of Contributors
Vœnius, Otto, painter (Rubens), XXI, a 47
Voët, Gisbert, theologian (Descartes), VII, *b* 103
Vogel, Erhard, astronomer (Aurora), III, b 81, a *b* 82, a 83
——, H. C., astronomer (Telescope), XXIII, a b 153, b 154, b 155 note
——, Hermann W., physicist (Photography), XVIII, b 848, a 851; his process (Photography), a 842
Vogelsberg, mountains (Germany), X, a 403, b 404; (Hesse Darmstadt), XI, a 697
Vogel search expedition (Heuglin), XI, b 699
Vogelweide. See WALTER VON DER VOGELWEIDE
VOGHERA, town, XXIV, a 292
VOGLER, Georg Joseph, composer, XXIV, a b 292; (Gänsbacher), X, a 65; (Meyerbeer), XVI, a b 230; (Weber), XXIV, b 494, a 495
Voglite (Mineralogy), XVI, a 416
Vogt, Carl, naturalist (Anthropology), II, a 97, b 101; (Ornithology), XVIII b 46, note
Vogüé, C. J. M., count de, orientalist (Palmyra), XVIII, a 207
Voguls, people (Siberia), XXII, b 13
Vohl's method of extraction (Oils), XVII, a 764
Vohu Manô, angel (Zoroaster), XXIV, b 861
VOICE (Ill.), XXIV, a 293–7
  action of larynx, a b 293
  anatomy of larynx (Ill.), a 293–4
  cavity, laryngeal, b 293–4
  cartilages, laryngeal (Ill.), b 293
  chest, head and falsetto tones (Ill.), b 296–7
  intensity and pitch, b 294–5
  laryngoscope, a 296
  muscles, laryngeal (Ill.), a b 294
  nerves and diseases, a 297
  quality, b 295
  range, a b 295
  registers, laryngeal conditions of, b 295–7
—— (Acoustics), I, b 110
—— of verbs (Grammar), XI, a 38; (Philology), XVIII, a 781
Voices of the Night (Longfellow), XIV, *b* 871
Voider, the (Heraldry) (Ill.), XI, b 621
Voigt, jurist (Roman Law), XX, a 688, note, a 690 note, a 693 note, b 697 note, a 703, b 704, b 705, b 711, a 712, note, b 713 notes, *a* 722
Voigtland, district (Saxony), XXI, a *b* 369, b 372, *a* b 373
"Voir dire" examination (Witness), XXIV, a 658
VOIRON, town, XXIV, a 297
Voisin, *Tables des Multiplications* (Tables), XXIII, b 12
Voit, Carl, physiologist (Gelatin), X, *b* 118
VOITURE, Vincent, poet, XXIV, a b 297; (France), IX, a 578
Voivodes or Waiwodes (Greece), XI, a 111; (Roumania), XXI, a b 21
Voix Celeste, stop (Harmonium), XI, a b 432
Volagases I., king, Parthia (Persia), XVIII, a 613, a b 614
—— III., king, Parthia (Persia), XVIII, a b 615
—— IV., king, Parthia (Persia), XVIII, b 615–6
—— V., king, Parthia (Persia), XVIII, a 616
Voland, Mdlle. (Diderot), VII, a 168
"Volante" cutter (Yachting), XXIV, a 759
Volaterræ, city (Etruria), VIII, b 558, *a* 559; (Volterra), XXIV, a 314
Volatility of Metals, XVI, a 72; (Gold), X, b 659
Volborthite (Mineralogy), XVI, a 423
Volcanalia, festival (Vulcan), XXIV, a 322
Volcan de Agua, mountain (Guatemala), XI, a 212
—— de Fuego, mountain (Guatemala), XI, a 212
Volcanic action (Dead Sea), VII, b 4–5; (Geology), X, b 214–26, a 274, a 275, b 294, a 305, a 331; (Greece), XI, b 74; (Madeira), XV, b 181–2; (Melos), b 850; Cascade mountains (United States) XXIII, b 851; causes of (Geology), X, a 225–6; Colorado basin (United States), XXIII, a b 850; North America, I, b 596; Sierra Nevada (United States), XXIII, b 850–1
—— areas (Italy), XIII, b 447, a b 448, a 449, a 450, a b 452; base of coral reefs (Pacific Ocean), XVIII, a 133; deposits (Sulphur), XXII, b 667–8; detritus (California), IV, *b* 620–1; dust (Iceland), XII, b 652
—— eruptions (Ararat), II, a b 271; (Azores), III, a 148; (Scotland), XXI, b 544; (Thera), XXIII, b 300; (Vesuvius), XXIV, a 212–3
—— islands (Atlantic Ocean), III, a b 17; (Polynesia), XIX, a b 432; minerals (Lipari Islands), XIV, a 689; mud and sand (Geology), X, b 223; (Kyouk Hpyu), XIV, b 163; (Pacific Ocean), XVIII, a 126, b 127, a b 128, a b 129
—— plateau (United States), XXIII, a 849; products (Geology), X, b 215–7, b 255; rocks (Geology), b 213–4, b 272, a 275, b 277–8, a b 307; sources of Mineral waters, XVI, a 450; structure (Geology), X, a 224–5; vents (Geology), a b 277
Volcanoes (Áchin), I, a 91, note; (Africa), b 225; (Agua), b 372; (Alaska), b 393; (Andes), II, a b 17; (Asia), b 60; (Asia Minor), b 616, a 621; (Bolivia), IV, b 11; (Cameroons), a 656; (Canary Islands), *a* 705, *a* 706; (Cape Verd Islands), V, *a* b 47; (Celebes), b 249, b 251; Central America, I, a 592; (Colima), VI, b 127; (Daubeny), b 732; (Ecuador), VII, a b 559, a 560, b 561; (Europe), VIII, a b 599; (Geology), X, *b* 199, note, b 200–1, a b 215; (Hawaiian Islands), XI, b 474–5; (Humboldt, A.), XII, b 357–8; (Iceland), a 651, a b 652; (Indian Archipelago), a 855; (Ischia), XIII, a b 395; (Japan), b 580–1; (Java), a b 611; (Kamchatka), b 840–1; (Kurile Islands), XIV, a 161; (Latium), a 344; (Lipari Islands), b 688, a 689; (Medina), XV, a 827; (Mediterranean Sea), b 829; (Mexico), XVI, a 224; (New Hebrides), XVII, a 405; (New South Shetland), a 418; (New Zealand), b 480, *a* 481; (Nicaragua), b 490–1; (Nitrogen), b 529; (Nossi-bé), b 610; (Pacific Ocean), XVIII, b 119, a b 132; (Peru), a 685; (Philippine Islands), b 762, a b 763; (Ponza), XIX, a 475; (Popocatapetl), a 527; (Réunion), XX, a b 506 note; (Rome), a 824–5; (St. Helena), XXI, a 179; (St. Paul), b 198–9; (San Salvador), a 281; (Siberia), XXII, b 8–9; (Solomon Islands), *b* 265; (South America), I, b 591; (Sumatra), XXII, a 672; (Tidor), XXIII, a 407; (Typhon), a 718; mud (Geology), X, b 223; submarine (Geology), b 224–5

Volcanoes of the Two Sicilies (Hamilton, Sir W.), XI, a 376
Volci, city (Etruria), VIII, a b 558
VOLE, mammal (Ill.), XXIV, a 297–8; (Lemming), XIV, a 436; (Mouse) (Ill.), XVII, b 11, b 12; snow- (Alps), I, a 557
VOLGA, river, XXIV, b 298–301
  bibliography, b 301
  drainage area and canals, b 298–9
  fisheries, a b 300
  history, a b 301
  ice-covering, b 300
  Kama to the Caspian, b 299–300
  Oka to Kama junction, a b 299
  physical characteristics, a 300
  sources to Oka junction, a 299
  traffic, a 299, b 300–1
—— (Caspian Sea), V, a b 154, a 155, b 156, *b* 157; (Kazan), XIV, b 21, *a* 22; (Khazars), *a* 61, *a b* 62; (Ladoga), a 200; (Nijni-Novgorod), XVII, a *b* 514, *a b* 515, *a* 516; (Plague), XIX, b 170, a b 171, a 172, a b 177, a b 178, b 179; (Russia), XXI, *a* 74, *a b* 80, *a* 81, a b 82, b 83, b 84, b 85, *a* 86, *a* b 87, b 93, b 95; (Rybinsk), *a* 125; (Samara), XXI, *a b* 254; (Saratoff), *a b* 319, *b* 320; (Slavs), XXII, *a* 156; (Tver), XXIII, b 714; (Yaroslavl), XXIV, a b 767; slope of (Geology), X, b 242
Volgerite (Mineralogy), XVI, b 404
Volhard's method (Manganese), XV, b 487; (Silver), XXII, b 79
VOLHYNIA, government, XXIV, b 301–2; (Russia), XXI, a 76, b 79, b 87, a 88, a 97, b 98, a 99
Volition (Cousin), VI, a 466, b 468; (Herbart), XI, b 643; (Psychology), XX, a 48; (Schopenhauer), XXI, a 471, a b 472–3, *a* b 475; freedom of (Psychology), XX, a 90; function of (Schleiermacher), XXI, b 429, *a* b 431. See Free-will and Will
Volkelt, Johannes, physiologist (Dream), VII, b 394, b 396, a 397
Volkhoff, river (Ladoga), XIV, b 199, a 200; (Novgorod), XVII, b 621, a *b* 622; (Russia), XXI, b 80, b 81
Volkmann, Alfred Wilhelm, physiologist (Psychology), XX, a 90; (Vascular System), XXIV, a 106, a 114, a *b* 117
Volkmar, philologist (Apocalyptic Literature), II, a b 154, a *b* 155
Volks-lieder (Ballads), III, b 244. See Folk-song
Volksmärchen der Deutschen (Musäus), XVII, b 70
Volksraad, legislature (Transvaal), XXIII, b 551
Volksschulen (Prussia), XX, b 21
Volkswirthschaft, System der (Political Economy), XIX, a 406
Vollenhove, Joannes, poet (Holland), XII, a 99
Volley firing (War), XXIV, a b 378
Volmar, Melchior, philologist (Calvin), IV, b 632
VOLNEY, Constantin François Chassebœuf, comte de, orientalist, XXIV, b 302–3
VOLO, town, XXIV, a 303
VOLOGDA, government, XXIV, a 303–4; (Novgorod), XVII, b 622; (Russia), XXI, a 76, b 80, b 85, a 87
VOLOGDA, town, XXIV, a 304
Vologeses, king. See Volagases
Vologesia, city (Mesopotamia), XVI, a 56
Volost, community (Russia), XXI, a 77
Volpato, Giovanni, engraver (Morghen), XVI, a 850
Volpone, play (Jonson), XIII, a 753, *b* 755
Volquardsen, historian (Rome), XX, a 751 notes
Volsci, people. See Volscians
Volscian cities (Latium), XIV, *b* 345; mountains (Italy), XIII, a 448; (Latium), XIV, a 344
Volscians, tribe (Italy), XIII, b 453, b 454, b 456; (Rome), XX, a 753, a 754, *a b* 758, *a* b 759
Volscius, demagogue (Cincinnatus), V, b 685
Volsinii, city (Bolsena), IV, a 19; (Etruria), VIII, b 558, b 559
VOLSK or Volisk, town, XXIV, a b 304
Völsungasaga (Edda), VII, a 565; (Poetry), XIX, a 277, b 280, a b 281
Volt, unit of measure (Telegraph), XXIII, a 124
Volta, river (Gold Coast), X, a *b* 672, a 673
VOLTA, Alessandro, electrician, XXIV, b 304–5; (Electricity), VIII, a 10, a 14, b 32, b 78–9, *a* b 95; (Galvani), X, *b* 44; his law (Electricity), VIII, a b 88
Voltaic arc (Electricity), VIII, b 55–6; battery (Iron), XIII, b 285; electricity (Davy), VI, a b 744; (Gay-Lussac), X, b 110; pile (Electricity), VIII, b 9, a 14
VOLTAIRE, François Marie Arouet de, philosopher and critic, XXIV, b 305–14
  Berlin and Potsdam life, a 309–10
  bibliography, b 313–4
  Châtelet's death, b 308–9
  Circey residence period, b 307–8
  Colmar residence, a b 310
  correspondence, b 313
  courtier to Louis XV., b 308
  criticism and miscellanies, b 313
  dramatic works, b 312
  early exiles and imprisonments, a b 306
VOLTAIRE, *continued*
  education, b 305–6
  English visit, a b 307
  Ferney life, b 310–1
  Frankfort arrest incident, a 310
  Geneva residence, b 310
  historical works, a 313
  last visit to Paris, b 311–2
  law-student period, a 306
  Maupertuis-quarrel, b 309–10
  middle life projects at Paris, b 307
  parental family, b 305
  personal character reviewed, b 313
  philosophical works, a 313
  poems, b 312
  position in history of, b 313
  Prussian connection begun, b 308
  regent-patronage period, b 306–7
  Rohan-duel, a 307
  romances, b 312
—— (Anagram), I, a 694; (Calas), IV, b 579; (Camisards), a b 658 notes; (China), V, *b* 578; (Condorcet), VI, b 225, a 226; (Congreve), a 241; (Corneille), a b 371, a 372; (Crébillon, P. J. de), b 493; (Delille), VII, b 44; (Drama), b 346, *a* 361, b 367, notes; (Duel), b 443, note; (Encyclopædia), VIII, b 180, *a* b 181; (Erasmus), b 456–7; (France), IX, b 521–2, a b 585, a 586, *b* 587, *b* 588, *a b* 589, a b 590; (Fréron, E. C.), a 676; (Gibbon), X, b 514, b 515, note; (History), XII, a b 24; (Holbach), b 55; (Homer), a 124; (Huguenots), a 353; (Iron Mask), XIII, a 371; (Jesus Christ), a 680, note; (Lenclos), XIV, a 446; (Montesquieu), XVI, a 809, b 810, a b 811; (Newton), XVII, a 453; (Political Economy), XIX, b 374, *a* b 375; (Quakers), XX; a 156; (Rousseau, J. B.), XXI, a 29; (Rousseau, J. J.), *a* 31, a 32; (Saint Évremond), a 177; (Satire), a 335; (Thucydides), XXIII, a 347; (Turgot), b 668, a b 669; (Wycherley), XXIV, a b 741, *b* 742; statue of (Houdon), XII, a 328; (Pigalle), XIX, a 93
Voltaite (Mineralogy), XVI, a 419
Voltameter (Electrolysis), VIII, b 101; (Iron), XIII, a 312; Faraday's (Electricity), VIII, b 13; Poggendorff's (Electrolysis), b 101; water (Telegraph), XXIII, b 120
VOLTERRA, town, XXIV, a 314
——, Daniele da, artist (Ricciarelli), XX, b 552–3
Volterrano, Il, painter. See FRANCESCHINI, Baldassare
Voltore, Monte (Italy), XIII, a 449, a 452
Volturno, river (Italy), XIII, a 449
Voltzine (Mineralogy), XVI, b 412
Volucella, genus (Humble Bee), XII, b 356; (Mimicry), XVI, b 354, b 356
Volucres, birds (Ornithology), XVIII, b 41, a 42
Volume, standard of (Weights and Measures), XXIV, a 505, a 512–16
—— and pressure, compound cylinders (Steam-Engine), XXII, b 514, b 515; relations of (Steam-Engine), b 502
—— density (Electricity), VIII, b 16; (Magnetism), XV, a 228
Volumetric analysis (Dalton), VI, b 692; Assaying, II, b 636; effects of explosion (Gunpowder), XI, b 287–8
—— governor (Gas and Gas-Lighting), X, b 88
Völundarkvida (Edda), VII, b 564
"Voluntary" controversy (Scotland), XXI, *b* 563
—— muscles (Anatomy), I, b 752
Voluntatis ratio (Roman Law), XX, *a* 722, b 724
"Volunteer," cutter (Yachting), XXIV, a 760
VOLUNTEERS, XXIV, a 314–6; (France), IX, a 456; (United States), XXIII, b 822, a 829, a 836; German (Army), II, b 520
VOLUSENUS, Florentius, scholar, XXIV, b 316–7; (Scotland), XXI, a 567
Völuspá (Edda), VII, a b 564
Volute in Architecture, II, a 419
Völva or Sybil (Edda), VII, a b 564
Volvocina, family (Protozoa) (Ill.), XIX, b 881–2
Volvocinaceæ, group (Biology), III, b 599, *a* 600
Volvocineæ, group (Botany), IV, b 144; (Vegetable Kingdom), XXIV, a b 137, b 138
Volvox, genus (Protozoa) (Ill.), XIX, b 880, *b* 882
Volvulinidæ, family (Sponges), XXII, b 439
Vomer, bone (Amphibia), I, b 661, b 662, *b* 664, a b 665, a 666, a 667, a 668; (Anatomy) (Ill.), I, b 723; (Birds), III, b 615, a 616, *a* 617, b 618; (Ornithology), XVIII, b 38, a 39
"Vomit" (Paper), XVIII, a 224
Vomiting (Nutrition), XVII, a 690
Vondel, Joost van den, poet (Drama), VII, b 383; (Holland), XII, b 97, a *b* 98; (Poetry), XIX, *a* 280
Vonones I., Parthian king (Persia), XVIII, b 611, note
—— II., Parthia (Persia), XVIII, a 613
Voorbroek. See Perizonius
Voorhelm, florist (Breeds), IV, a 222
Vopadeva, grammarian (Sanskrit), XXI, a 297
Vopiscus, Flavius (Augustan History), III, a *b* 65; (Calpurnius), IV, b 630; (Druidism), VII, *b* 412
VORAGINE, Jacobus de, historian, XXIV, a b 317
VORARLBERG, division, XXIV, b 317–8; pass (Alps), I, b 551, b 552

Voralpen, mountains (Alps), I, b 547, b 548
Vorlesungen über Mathematische Physik (Mechanics), XV, b 757
Vorobiovy Hills (Pskoff), XX, a 40
VORONEZH, government, XXIV, a b 318; (Russia), XXI, a 76, b 85, a 88, a 93
VORONEZH, city, XXIV, *b* 318–9
——, river (Russia), XXI, a 81
Vorontsovka, village (Voronezh), XXIV, b 318
Vorontzoff or Woronzoff, Simon, count (Poushkin), XIX, b 668
Vororte, villages (Hamburg), XI, b 360, b 364
Vorösmarty, Michael, poet (Hungary), XII, a 393
Vörospatak, town (Gold), X, a 661
Vorskla, river (Russia), XXI, a 81
Vorsterman, Lucas, Senior, engraver (Engraving), VIII, *b* 393
Vorstius, Conrad, theologian (Gomarus), X, b 684
Vorsus, measure (Umbria), XXIII, b 771
Vortex (Hydromechanics), XII, b 452, a 468–9, a 481; forced (Hydromechanics), b 490; free circular (Hydromechanics), b 489–90; free spiral (Hydromechanics), a b 490
—— Atoms, III, a 35, a 39–42
——, filament (Hydromechanics), XII, a b 468
—— line (Hydromechanics), XII, b 463; theorems of (Atom), III, b 39, a 40
—— -motion, effect on earth's structure (Geology), X, a b 201
Vorticellidæ, family (Protozoa), XIX, b 882, b 887, a *b* 888, *b* 889
Vortices, theory of (Descartes), VII, b 107–8; (Magnetism), XV, a b 279
Vorticida, family (Planarians), XIX, a 185
Vortigern, king (Arthur), II, b 568, b 569, b 570; (Romance), XX, a 661
Vortigern, forged play (Ireland, W. H.), XIII, a 279
Vos, Jan, dramatist (Holland), XII, b 98
——, Johannes, clergyman (Vossius), XXIV, a 320
VOSGES, department, XXIV, a 319–20
VOSGES, mountain range, XXIV, a 319; (France), IX, *b* 445, *a* 446; (Germany), X, a 402, a 403, b 404; (Meurthe-et-Moselle), XVI, b 212; (Salt), XXI, a 242
Vosmaer, bay (Celebes), V, a 251
——, C., writer (Holland), XII, b 101; (Rembrandt), XX, a b 385, note, a 388, *a* b 389, a 390
——, naturalist, (Secretary-Bird), XXI, a 648, note; (Sponges), XXII, a 439, b 443, b 444, a 445
Voss, Johann Heinrich, poet, XXIV, a 320; (Germany), X, b 483
VOSSIUS, Gerardus Johannes, scholar, XXIV, a b 320
VOSSIUS, Isaac, scholar, XXIV, b 320; (Ana), I, a b 688
Vostochnyi, cape (Maritime, Province), XV, b 554
Vostokoff, philologist (Slavs), XXII, a 158
Votan, lawgiver (America), I, b 617, a 618
Voters, English (Registration), XX, a 357–8. See Electors, Suffrage
Votiaks, people (Finland), IX, a 191; (Vyatka), XXIV b 323, a 324; language of (Dictionaries), VII, b 163; (Ural Altaic), XXIV, a 5
Voting (Corporation), VI, a 384; (Council), b 453; (Government), XI, a 14; (Parliament), XVIII, a b 315, a 318; Athenian (Bean), III, b 398; (Solon), XXII, b 267, a 268. See Elections, Suffrage
Votive offerings (Terra-Cotta), XXIII, a 208, a 210; tablet (Pottery and Porcelain) (Ill.), XIX, a 625
Votivtafeln, epigrams (Schiller), XXI, a 414
VOTKINSK, city, XXIV, b 320–1; (Vyatka), b 323
Votyak, people. See Votiak
Vouching to Warranty, XXIV, b 393
VOUET, Simon, painter, XXIV, a 321
Vouglans, Muyart de, jurist (Witchcraft), XXIV, b 656
Voulzie, river (Seine-et-Marne), XXI, b 655, a 656
Voussoirs (Bridges) (Ill.), IV, a *b* 273–6; in sea wall (Harbors and Docks), XI, a 413
Vow, promise, XXIV, a 321–2; (Apostacy), II, a 170; (Buddhism), IV, a 390; (Inscriptions), XIII, b 133; (Jesuits), b 656, a 657, a 658; (Monachism), XVI, a 727, a 741; (Nazarite), XVII, a 312; baptismal (Monachism), XVI, a 724
Vowel-points, Hebrew (Bible), III, a 554; (Buxtorf), IV, a b 536; (Hebrew Language and Literature), XI, a 536; (Syriac Literature), XXII, b 882–3, note, b 884
Vowels (A), I, a 9; (Acoustics), a 111; (E), VII, a 508; (Greece), XI, a 116, a 117; (Hebrew Language and Literature), XI, a 534; (Hieroglyphics), b 710–1, a 719–20; (Holland), XII, b 88, a 91–2; (I), a 637; (Iceland), a 664; (Latin Language), XIV, b 327–8, b 331; (O), XVII, a b 708; (R), XX, a b 196; (Sanskrit), XXI, b 282–3; (Speech-Sounds), XXII, b 396–7; (Tamils), XXIII, a 47; (Turks), a 704; (U), b 762–3; (Ural Altaic), XXIV, b 6, a 7; Aryan (Philology), XVIII, a b 801; Castilian (Spain), XXII, b 363 Catalan (Spain), b 361–2; Old Latin (Romance Languages), XX, a b 680–1; Portuguese (Spain), XXII, b 365–6; tonic and atonic, accented (Provençal Language), XIX, a b 894
Vox humana, stop (Harmonium), XI, b 432; (Organ), XVII, a 857
Voyage Around the World (Defoe), VII, a b 27
—— *autour de ma Chambre* (Maistre), XV, a b 310
—— *dans la Russie* (Demidoff), VII, b 52
—— *Home* (Lucian), XV, b 46–7
—— *of Columbus* (Rogers), XX, b 637
—— *of the Vega* (Mammoth), XV, b 455
—— *Round the World* (Krusenstein), XIV, b 150
Voyage rule of marine Insurance, XIII, b 191–2
Voyages, ancient Greek (Pytheas), XX, *a b* 149, a 150; (Nearchus), XVII, b 314–5; mediæval (Map), XV, a 526; quickest down to 1884 (Navigation), XVII, a b 285, note
Voyages dans les Alpes (Saussure), XXI, a 339
Voyage to Parnassus (Cervantes), V, b 302, b 307–8
Voyislaff, Michael, king (Servia), XXI, b 720
Voysey, bishop. See Vesey
Vozaipai, peak (Ural Mountains), XXIV, a 8
Vozhe, lake (Novgorod), XVII, b 621
Voznesenskiy Prospekt, street (St. Petersburg), XXI, a b 201
Vraic, seaweed (Jersey), XIII, a b 645
Vrana, lake (Cherso), V, b 509
VRANCK, Sebastian, painter, XXIV, a 322
Vranitza, city (Charles XII.), V, a 365
Vraz, Stanko, poet (Servia), XXI, a 724
Vriendt, Frans de, artist. See Floris
Vries, Adrian de, sculptor (Sculpture), XXI, b 592–3
——, Simon de, student (Spinoza), XXII, a 416
Vriesland. See Friesland
Vrishalas, outcasts (India), XII, a 822
Vrittra, myth (Mythology), XVII, *b* 159
Vrolik (Monster), XVI, b 788, a 791, a 793
Vsevolod, grand-duke (Russia), XXI, a 98
Vsevolodovich, Michael, prince (Gortschakoff), X, b 699
Vukashin, king (Servia), XXI, a 721
VULCAN, Roman fire-god, XXIV, a 322. See HEPHÆSTUS
Vulcanal, platform (Rome), XX, b 833
Vulcanello, island (Lipari Islands), XIV, a 689
Vulcaniæ Insulæ. See Lipari Islands
Vulcanists, geological school (Lyell), XV, a 103; (Werner), XXIV, a 530
Vulcanite or Ebonite (Accumulator), I, b 87; (India-Rubber), XII, b 883; teeth plates (Dentistry), VII, a 87
Vulcanization of India-rubber, XII, b 881, a 882–3; (Sulphur), XXII, a 669
Vulcanizer (India-Rubber) (Ill.), XII, b 882
Vulcano, island (Lipari Islands), XIV, a 689
Vulcanology Lipari Islands), XIV, a 689
Vulgar Errors (Browne, Sir Thomas), IV, b 350, a 351; (Echinodermata), VII, b 546
Vulgate, Latin Bible (Armenian Version), II, a 483; (Bible), III, b 559; (Jerome, St.), XIII, b 641, a 642; (Trent, Council of), XXIII, b 580
Vulpes, genus (Mammalia), XV, a b 445
Vulpine Phalanger, XVIII, a 742
Vulpinite (Mineralogy), XVI, a 417
Vulpius, Christiane, wife of Goethe, X, a 651, *a* 653, b 655
VULTURE, bird, XXIV, a 322–3; (Birds), III, a 617, a *b* 618, b 629, b 638, a 641, b 652; (Egypt), VII, b 617, a 619; (Lämmergeyer), XIV, a 244–5; (Lokmán), a 819, note; (Ornithology), XVIII, b 50; American (Ornithology), b 32, b 35, b 50; (Zoology, American), XXIV, b 923; olfactory organs of (Smell), XXII, b 176
Vulturnus, river (Samnites), XXI, b 260
Vuvo, river (Cocytus), VI, a 95
Vyâkarana, science of grammar (Sanskrit), XXI, b 287, a 306–7
Vyasa, the arranger, poet (Sanskrit), XXI, b 294, a 295, a 304
VYATKA or Viatka, government, XXIV, a 323–4; (Novgorod), XVII, b 622; (Russia), XXI, a 76, *a* 87, a 88, a 98, b 99, a 100
VYATKA, city, XXIV, a 324
——, river, XXIV, *b* 323
VYAZMA, town, XXIV, a b 324; (Smolensk), XXII, *a* 193
Vyborgskaya Storona (St. Petersburg), XXI, a 202
VYERNYI, city, XXIV, b 324; (Semiryetchensk), XXI, a b 673
Vygon, commons (Russia), XXI, a 92
Vyrnwy, river (Shropshire), XXI, b 886; dam (Water-Supply) (Ill.), XXIV, b 428, a b 429, a 430
Vyse, Howard, general (Architecture), II, *b* 337, a 339, b 400; (Egypt), VII, a b 669, *a* 670, a 671; (Pyramid), XX, *b* 129, a b 130, note
Vyshniy-Volotchok, canal (Volga), XXIV, a 299, a 301
VYSHNIY VOLOTCHOK, town, XXIV, b 324; (Tver), XXIII, a 715
Vytchegda, river (Russia), XXI, b 80, b 81; (Vologda), XXIV, *b* 303
Vytegra, river (Olonetz), XVII, a 786

W, letter, XXIV, a 324-5
Wa, measure (Weights and Measures), XXIV, b 518
Waagen, Gustav Friedrich, art critic (Hotho), XII, *a* b 322
Waal, river (Holland), XII, *b* 65; (Meuse), XVI, b 213
Wabash river (Indiana), XII, a b 852
WACE, Robert, poet, XXIV, a 325; (England), VIII, b 278; (English Literature), a 364; (Manning), XV, a 502; (Romance), XX, b 659, a 660
Wachusett, mountain (Massachusetts), XV, a 618; (United States), XXIII, b 842
Wackenroder, Wilhelm Heinrich, critic (Germany), X, a 485; (Tieck), XXIII, a b 407
WACO, city, XXIV, a b 325; (Texas), XXIII, b 222
Wad, mineral (Mineralogy), XVI, a 404; Pacific Ocean), XVIII, b 129
Wadai or Waday, region (Africa), I, a 243; (Soudan), XXII, a *b* 291, *a* b 292, *a* 293; tribes (Negro), XVII, a 328
WADDELL, James, preacher, XXIV, a b 878
WADDELL, James Iredell, sailor, XXIV, b 878
——, James Pleasants, teacher, XXIV, b 878
WADDELL, John Newton, educator, XXIV, b 878
WADDELL, Moses, educator, XXIV, b 878
Wadden, shallows (Holland), XII, a 62, a b 63
WADDING, Luke, ecclesiastical historian, XXIV, b 325; (Duns Scotus), VII, b 471
Waddington, S., critic (Sonnet), XXII, a 276
——, William of, writer (English Literature), VIII, a b 366
——, William Henry, archæologist (Polycarp), XIX, a 429, a 430, note
Waddle's fan (Coal) (Ill.), VI, a b 66-7
WADE, Benjamin Franklin, senator, XXIV, b 878-9
Wad-el-Jubar, river (Fez), IX, a 111
Wadham College, Oxford (Libraries), XIV, a 519, a 546; (Oxford), XVIII, b 101
Wadi. See Wâdy
—— Ghazza, river (Palestine), XVIII, b 176
Wádih of Cordova, caliph (Spain), XXII, b 329
Wadi Khalzún, river (Palestine), XVIII, b 175
Wadleigh, United States senator (Patents), XVIII, a 875, b 880, a b 884
Wadman, Johan Anders, poet (Sweden), XXII, b 795
WADSWORTH family, XXIV, b 879
——, James, judge, XXIV, b 879
——, James, 2d, philanthropist, XXIV, b 879
——, James Samuel, general, XXIV, b 879
——, Jeremiah, commissary-general, XXIV, b 879
——, William, captain, XXIV, b 879
—— Athenæum (Hartford), XI, b 444
Wâdy Bîreh, gorge (Issachar), XIII, a 442
—— el Ahjâr (Galilee), X, b 26
—— el' Ayûn (Galilee), X, b 26
—— Marr (Mecca), XV, *b* 676, note
—— Músá, defile (Petra), XVIII, b 718, b 719
Wadys of Sahara (Africa), I, *a* 224, b 229, b 230; (Oases), XVII, b 714
Wády Túmílát, district (Rameses), XX, b 277, a 278
WAFERS, adhesive disks, XXIV, b 325
Waganda, race (Uganda), XXIII, *a* b 765
Wage-fund theory (Political Economy), XIX, b 390, a 395; (Rodbertus), XX, a b 632; (Wages), XXIV, b 328-31; Leslie on (Political Economy), XIX, b 411, note
WAGER, stake, XXIV, b 325-6; (Contract), VI, a 288; (Gaming), X, b 60-1; (Government), XI, a 19
——, Sir Charles, admiral (Vernon), XXIV, *a* 185
—— of battle (Wager), XXIV, b 325, *a* 326; (Duel), VII, b 441, a b 442; (England), VIII, b 525; (Ordeal), XVII, a 844
—— of law (Wager), XXIV, b 325, a 326
WAGES, XXIV, b 326-33
  analysis of wage-fund, b 328-9
  artificial causes of differences in, a 331-3
  definition, b 326-7
  factory legislation, a 332
  failure of wage-fund theory, b 329-30
  labor-produce as source of, a b 330
  laws, existing, a b 333
  machinery, effects of, b 332-3
  nominal and real, a b 327
  poor-relief, b 331-2
  progress of working folk, a 333
  rate of national, a b 328
  real variations, b 327-8
  relative wages, b 330-1
  state regulation, b 331-2
  trade-unions, a b 332
  truth of wage-fund examined, a b 329
  wage-fund theory, b 328-30

—— (Attachment), III, a 46; (Cairnes), IV, *a* 572; (Calendar), IV, a 591; (Combinations), VI, b 162; (Cotton), a b 449, a b 451; (Dredging), VII, a *b* 403, (Flowers, Artificial), IX, b 305; (Free Trade), a b 663, b 666-7; (India), XII, b 802, b 803 (Labor), XIV, a 166, a *b* 167, a b 168, a b 169, a b 170, b 171, a b 172-3, a 174-5; (Lassalle), XIV, a 322; (Paris), XVIII, a 291; (Payment), b 451; (Seamen), XXI, a 636, b 637, *a* 638; (Value), XXIV, b 55, *a* b 56; (Workingmen, United States), a 916-7, a b 920; capitalist view of (Socialism), XXII, b 221, b 223; comparative rates of (Protection), XIX, a 934, b 941; English (Army), II, b 503; (Communism), VI, a 192; farm (Northumberland), XVII, a b 581; Hindu (Lucknow), XV, b 50; hop-harvest (Brewing), IV, b 243; mediæval (Boece), III, a b 738; miners' (Mining), XVI, a b 469; payment of (Workingmen, United States), XXIV, b 918, a 919; rules concerning (Trade Unions), XXIII, b 533; Senior on (Political Economy), XIX, b 390; Adam Smith on (Political Economy), a b 380; taxes on (Taxation), XXIII, a 95; theory of (Walker, A.), XXIV, a b 880; thirteenth century (Mural Decoration), XVII, a 53; von Thünen on (Political Economy), XIX, b 401
—— and food, Ricardo on (Political Economy), XIX, b 388
Wagler, Johann Georg, naturalist (Ornithology), XVIII, a 18, b 24 note; (Parrot), a 329 note; (Reptiles), XX, a 449, notes, b 451; (Siredon), XXII, b 103; (Tinamou), XXIII, b 429
Wagner, Adolf, economist (Political Economy), XIX, *a b* 406, a b 407; (Socialism), XXII, a 218, b 222, b 232
——, Andreas, naturalist (Birds), III, b 631; (Ornithology), XVIII, a 31, b 33, b 37-8
——, Hermann, geographer (Population), XIX, a b 528
——, Johann Gottlob, manufacturer (Pianoforte), XIX, b 81
——, Moritz Friedrich, naturalist (Ecuador), VII, *a b* 559, a 560, a *b* 561, a 562, b 563
WAGNER, Rudolph, anatomist, XXIV, b 333-4; (Embryology), VIII, a b 153; (Insects), XIII, a 153; (Ornithology), XVIII, a 25; (Reproduction), XX, a 423, b 425
——, Rudolf Johannes, chemist (Bromine), IV, a b 326
——, Wilhelm, philologist (Menander), XVI, *a* 6
WAGNER, Wilhelm Richard, musical dramatic composer, XXIV, a 334-7
  Baireuth period, b 336-7
  birth to marriage, a 334
  Dresden theatre epoch, b 334
  Gluck's influence, b 335-6
  Italian opera, a b 335
  "Leading themes," a 336
  Lohengrin produced, a 335

WAGNER, *continued*
  Metternich friendship, b 336
  Munich residence, b 336
  operatic career begun, b 334
  Paris exile period, b 334, a b 336
  personality of, a 337
  reform of musical drama, a 335-6

—— (Fine Arts), IX, a 186; (Gluck), X, b 619-20; (Halévy), XI, a 342; (Meyerbeer), XVI, *b* 231; (Music), XVII, a 94, b 106-7; (Poetry), XIX, a 273; (Schopenhauer), XXI, b 477; (Tanhäuser), XXIII, b 51; (Theatre), b 244; (Trumpet), b 631
—— and Meissner corpuscles (Touch) (Ill.), XXIII, a 510
Wagnerite (Mineralogy), XVI, a 425
Wagram, battle of, 1809 (Austria), III, b 116-7; (France), IX, b 542; (Masséna), XV, b 623; (Napoleon), XVII, a 221; Artillery at, II, b 584
Wagria, district (Schleswig-Holstein), XXI, a *b* 433
WAGTAIL, bird, XXIV, b 337; (Birds), III, a 653, b 663, b 666; (Cuckoo), VI, a b 606-7
Wahballath, king (Palmyra), XVIII, b 205 note, a 206
Wahb ibn Monabbih, fabulist (Temple), XXIII, a 185
Wáh ed-Dákhileh, oasis (Egypt), VII, a 680
Wahhabee horses (Arabia), II, a 210
Wahhabees or Wahhabites, sect (Arabia), II, a 216, *b* 217-8, b 219, *a* 220, *b* 221, *a* 222, b 227-8, a b 229; (Egypt), VII, a b 663, a 664; (Hindustani Literature), XI, b 758-9; (Meshed Ali), XVI, b 51; (Oneiza), XVII, b 795-6; (Pilgrimage), XIX, a 102; (Turkey), XXIII, b 689
Wahhabus, sectary (Arabia), II, b 227-8
Wahidi, author (Nishapur), XVII, a 528
Wahlkammer (Bavaria), III, a 391
Wahlmänner, electors (Bavaria), III, a 391; (Prussia), XX, b 22
Wahl's law of parallel cleavage (Surgery), XXII, a b 724, a 725
Wahlstatt, battle, 1241 (Liegnitz), XIV, a 573; (Mongols), XVI, a 768
Wahlverwandtschaften (Goethe), X, b 653
Wahnfried, residence (Wagner), XXIV, b 336-7
Wahsatch, mountains (United States), XXIII, *a* 847; (Utah), XXIV, *a b* 24, a b 25
Wahuma tribe (Unyoro), XXIII, a 916
Waiblingen, faction (Guelfs and Ghibellines), XI, a 217; (Italy), XIII, a 483
Waihu, island. See RAPA-NUI

Waikato, river (Auckland), III, *b* 59; (New Zealand), XVII, b 479, b 481
Wailly, Joseph Natalis de, littérateur (Joinville), XIII, *a* 746
Wailuku, town (Hawaiian Islands), XI, b 475
Waimea, town (Hawaiian Islands), XI, a 476
Wainád, district (Nilgiri Hills), XVII, *a* 522
WAINEWRIGHT, Thomas Griffiths, painter, XXIV, b 337–8
Waingangá, river (Bálágát), III, *a* 224; (Bhandárá), a 542; (Chándá), V, a 339; (Seoni), XXI, *a* 698
Waipa river (New Zealand), XVII, b 479
Wairoa river (New Zealand), XVII, b 479
Waisengrün, festival (Hamburg), XI, a 363
Wai-shan, lake (China), V, a 549
Waitangi river (Canterbury), V, b 28; settlement (Chatham Islands), V, a 385; treaty, 1840 (New Zealand), XVII, b 484
Waite, Henry Matson, judge, XXIV, b 879
WAITE, Morrison Remick, chief-justice, XXIV, b 879–80
WAITZ, Georg, historian, XXIV, a b 338
——, Theodor, anthropologist (Indians), XII, *a* 863, a 870
Waiwodes, rulers. See Voivodes
Wa'iz Mir, chief (Afghânistân), I, a 215; (Persia), XVIII, a 651
Wájid Alí, sháh (India), XII, b 848
Wajo or Wadjo, kingdom of (Celebes), V, a 251
Waka, god (Gallas), X, a 35
Wakaholo, lake (Buru), IV, b 510
Wakamatsu, siege of (Japan), XIII, b 593
Wakatipu lake (New Zealand), XVII, a 480
Wake Family, portraits (Van Dyck), XXIV, b 68
WAKEFIELD, borough and town, XXIV, b 338–9; (York), *a* 786, a 787; battle of, 1460 (York), b 786
WAKEFIELD, Edward Gibbon, statesman, XXIV, b 339–40; (Ireland), XIII, a 238, b 248; (Political Economy), XIX, b 383, note, b 390
WAKEFIELD, Gilbert, scholar, XXIV, b 340–1; (Porson), XIX, a b 539
——, Priscilla, Mrs., educator, XXIV, b 339; (Savings Banks), XXI, b 342
Wakeman, John, bishop (Gloucester), X, b 616
Wakenitz, river (Lübeck), XV, b 33
Wákhán, state (Oxus), XVIII, b 104, b 107
—— mountains (Transcaucasia), XXIII, b 545
Wakhtang, chief (Tiflis), XXIII, b 411
Wákidí, Al-, historian (Mohammedanism), XVI, a 618; (Tabarí), XXIII, b 6, note; Pseudo-, historian (Tabari), b 9
Wakkerstroom district (Transvaal), XXIII, a *b* 550, a 551, a 552
Wakwavi tribes (Africa), I, b 235
Walachia, principality. See Wallachia
WALAFRID STRABO or Strabus, scholar, XXIV, a b 341; (Church History), V, b 664; (Gloss), X, b 612; (Hermeneutics), XI, b 667; (Hymns), XII, *a* 616
Wála-jah of Arcot, nawáb (India), XII, b 839-40
Wálata, oasis (Oases), XVII, a 715
Walawe-ganga or Waloya, river (Ceylon), V, b 312–3
Walbrook, locality (London), XIV, a 827, a 850, *a* b 851, a 856
WALBURGA, ST., XXIV, b 357
WALCH, family of scholars, XXIV, b 341–2
——, Carl Friedrich, jurist, XXIV, a 342
——, Christian Wilhelm Franz, historian, XXIV, b 341–2
——, Johann Ernst Immanuel, scholar, XXIV, b 341
——, Johann Georg, historian, XXIV, b 341
Walcher, bishop (England), VIII, b 263
Walcheren, island (Zealand), XXIV, *a* 810; expedition (Londonderry), XIV, *b* 865
Walchowite (Mineralogy), XVI, a 447
Walckenaar bay (New Guinea), XVII, a 396
Walckenaëra (Arachnida) (Ill.), II, b 255, b 261
Walcott, C. D., naturalist (Surveys), XXII, b 937, b 938
——, John, naturalist (Ornithology), XVIII, b 13
Walez, town (Deutschkrone), VII, b 116
Waldbach, parish (Oberlin, J. F.), XVII, *b* 723
Waldeck, county (Waldeck-Pyrmont), XXIV, *a* *b* 342
——, Georg Friedrich, prince of (Luxembourg), XV, a 88
WALDECK-PYRMONT, principality, XXIV, a 342–3
Waldemar I., king of Denmark (Schleswig-Holstein), XXI, a 433
—— II., Seier, king of Denmark, VII, b 74; (Esthonia), VIII, *b* 496; (Schleswig-Holstein), XXI, a 433
—— III., king of Denmark, VII, b 74; (Hanseatic League), XI, b 402–3
——, king of Sweden, XXII, *a* 784
—— V., duke of Schleswig-Holstein, XXI, a 433
——, Ascanian margrave (Prussia), XX, a 7
——, pretender (Prussia), XX, a 7
Walden, essays (Thoreau), XXIII, a b 334
WALDENBURG, town, XXIV, a 343
WALDENSES, sect, XXIV, a 343–6
    Catharism, b 343
    ecclesiastical persecutions, b 344–5
    literature, a b 346
    nineteenth century, a 346
    origin, a b 343
    Protestant alliance, a b 345
    secular persecution, b 345–6
    statistics, a 346
    tenets, b 343–4
    Waldo, Peter, a 344
—— (Albigenses), I, a 402; (Arnaud), II, b 541–2; (Italy), XIII, a b 469; (Milton), XVI, b 345, a 346; (Monachism), b 735; (Presbyterianism), XIX, a 717; (Reformation), XX, b 334, b 335, note. See Vaudois
Waldensian Canon, V, b 14
Walden's Ridge (Tennessee), XXIII, a 193
Walderbeskopf, mountain (Prussia), XX, a 25
Waldflöte (Organ), XVII, a 855
Waldgebirge, mountains (Austria), III, b 100; (Carpathian Mountains), V, *a* 112
Waldheimia (Brachiopoda) (Ill.), IV, b 170, a 171, a 172, *b* 173, b 174, a b 176
Waldmädchen, opera (Weber), XXIV, a 494, a 495, note
Waldmann, Hans, burgomaster (Switzerland), XXII, a b 827; (Zurich), XXIV, *b* 870
Waldo, Peter, merchant (Waldenses), XXIV, *a* 344
Waldseemüller, Martin, compiler (Geography), X, b 162
Waldstätten, canton (Unterwalden), XXIII, b 915
Waldwolle, fibre (Pine), XIX, b 112
Walee, title (Arabia), II, a 217
Wales, principality (England), VIII, b 245, a 274, a b 278, a b 280; (Cromwell), VI, b 530; (Funeral Rites), IX, b 725; (Gaelic), X, *a* b 8; (Ireland), XIII, a *b* 252, a b 255; (Monmouth), XVI, a 781; (Newspapers), XVII, a 433; (Normans), a 564; ancient laws of (Salic Law), XXI, a b 227, note; Coal measures of, VI, b 46; coat of arms (Heraldry), XI, a 614; colleges of (Universities), XXIII, a 912; education in (Methodism), XVI, b 201; fishery laws (Salmonidæ), XXI, a b 236; parliamentary representation of (United Kingdom), XXIII a 775
——, South (Anthracite), II, b 94; (Coal), VI, b 46, b 47–8, a 61, b 67, *b* 72, b 73
——, princes of (Prince), XIX, a b 758
——, Albert Edward, prince of (Albert, Prince), I, b 400; (Golf), X, b 681
——, Frederick, prince of (Cricket), VI, b 514
Walfisch Bay (Cape Colony), V, a 39; (Hereroland), XI, b 654
Walghvögel, bird (Dodo), VII, b 278, b 279, note
Walhalla, Munich (Architecture), II, b 362
——, temple (Ratisbon), XX, a 304
Walī of Aurangābād, poet (Hindustani Literature), XI, *a* 757
Walia, Visigothic king (Goths), X, a 755; (Rome), XX, b 798; (Spain), XXII, *a* 323
Walid I., caliph (Mohammedanism), XVI, b 595–6, b 612
—— II., caliph (Mohammedanism), XVI, a 599
——, Abul. See JONAH, Rabbi
—— B. Otba, governor (Mohammedanism), XVI, b 590, b 591
Walkelin, bishop (Winchester), XXIV, a 628
Walkenshaw, Miss (Charles Edward), V, a b 370
WALKER, town, XXIV, b 346
Walker, lake and river (Nevada), XVII, b 376
WALKER, Amasa, economist, XXIV, a 880
——, David, abolitionist (Slavery), XXII, *a* 909
——, E. (Meteorology), XVI, b 177, a 179, a 192
——, Francis Amasa, economist, XXIV, a b 880; (Money), XVI, a 746, a 747, note; (Patents), XVIII, a 878; (Political Economy), XIX, b 382, a 394, a 395, b 398 note, a 411, *a* 413; (Taxation), XXIII, a 92, a 94, a 95; (Wages), XXIV, a b 327
WALKER, Frederick, painter, XXIV, b 346–7
——, George, journalist (Chess), V, b 522, *a* 524
——, James, bishop and editor (Encyclopædia), VIII, b 182
——, James, engineer (Lighthouse), XIV, a b 621
——, Obadiah (Atterbury), III, a 47
WALKER, Robert James, senator, XXIV, b 880; (United States), XXIII, a 817
WALKER, Sears Cook, astronomer, XXIV, a 347, a 881; (Time), XXIII, a 422
WALKER, Timothy, jurist, XXIV, b 880–1
——, Timothy, 2d, jurist, XXIV, a 881
WALKER, William, filibuster, XXIV, a b 881; (Granada, C. A.), XI, a 42; (Nicaragua), XVII, a 493
Walkerite (Mineralogy), XVI, b 438–9
Walker's harpoon Log, XIV, b 777
Walking, act of (Anatomy), I, a 738–9
Walking-leaf (Ferns), IX, a 91

Walking-stick Insects, XIII, b 159
Walks, garden (Horticulture), XII, b 222, b 223–4
Walküre, opera (Wagner), XXIV, a 335, a 337. See Valkyriur
Wall, Antonine's. See ANTONINUS, Wall of
——, Aurelian (Rome) (Plates VI, VIII) (Ill.), XX, b 853–4
——, Great (China), V, a 554, b 559
—— of Michael Theodorovitch (Bielgorod), III, a 577
——, Roman, Britain. See ANTONINUS, Wall of, and HADRIAN, Wall of
—— of Severus (Carlisle), V, b 95
—— of Trajan (Podolia), XIX, b 266
——, John, physician (Pottery and Porcelain), XIX, a 662
Wallaby, kangaroo (Australia), III, a 97; (Western Australia), XXIV, b 536
Wallace, Alfred Russel, naturalist (Acclimatization), I, b 82; (Anthropology), II, *a* 97, a 98, b 99, b 101; (Apparitions), a 182 note; (Birds), III, a 665, b 669 note; (Birds of Paradise), a 676; (Borneo), IV, *a* b 51, a 53, a 54; (Bread-Fruit), a 217; (Butterflies), IV, *b* 527, a *b* 529, b 531; (Cat), V, b 179; (Coleoptera), VI, b 116; (Dove), VII, *a* 329; (Ethnography), VIII, b 548–9; (Evolution), a 656, a 669; (Hornbill), XII, a b 173 notes; (Indian Archipelago), a b 855, note, *a* b 856; (Japan), XIII, b 585; (Mimicry), XVI, a 353–7; (New Guinea), XVII, a 397; (Ornithology), XVIII, a b 36, note, b 44; (Socrates), XXII, a 246; (Variation and Selection), XXIV, b 84, b 86, a b 87, a b 89, a 90 note; (Zoology), a 853
——, Horace Binney, author, XXIV, b 881
WALLACE, John Bradford, jurist, XXIV, b 881
——, John William, jurist, XXIV, b 881
——, Robert (Political Economy), XIX, b 384
WALLACE, William, mathematician, XXIV, a b 348
WALLACE, Sir William, Scotch warrior, XXIV, a 347–8; (Ayr), III, b 142, a 143; (Dog), VII, b 285; (Edward I.), b 592; (England), VIII, b 281; (Harry, Blind), XI, b 443; (London), XIV, a 856; (Robert), XX, *b* 608, *a* b 609; (Scotland), XXI, b 509, *a b* 510
—— channel (Timor Laut), XXIII, *a* 425
Wallace's line (Asia), II, b 597; (Birds), III, a 640, note
—— Trench (Selkirk), XXI, b 670
Wallacetown, burg (Ayr), III, b 142, *a* 143
Wallachia, province (Gipsies), X, b 546; (Greece), XI, a 111; (Roumania), XXI, b 20, a b 21–3, b 25–7; (Salt), b 241
Wallachian Dictionaries, VII, b 161; language. See Roumanian
Wallachians, people. See VLACHS
WALLACK, James William, actor, XXIV, a 882
——, John Lester, actor, XXIV, a 882
Wallacks, race. See VLACHS
Walladmor (Häring), XI, b 428, note
WALLASEY, town, XXIV, b 348
WALLA WALLA, city, XXIV, b 348–9; region (Washington), b 406
Wall-creeper, bird (Treecreeper), XXIII, a 568
Wall decoration. See Mural Decoration
Wallenberg, Jakob, author (Sweden), XXII, b 794
Wall engines (Steam-Engine), XXII, a 540
Wallenstadt, lake (Switzerland), XXII, *a* 815; (St. Gall), XXI, *b* 177
WALLENSTEIN, Adalbert Eusebius von, general, XXIV, a 349–50; (Army), II, a 528; (Arnim), *b* 545; (Artillery), b 574; (Austria), III, a *b* 109; (Germany), X, b 448–9; (Gitschin), a 557; (Gustavus II.), XI, *b* 298, *a* 299; (Kepler), XIV, b 49; (Stralsund), XXII, b 616
Wallenstein, drama (Coleridge, S. T.), VI, a 123; (Constant de Rebecque), VI, b 265; (Germany), X, a 482; (Schiller), XXI, *b* 414
WALLER, Edmund, poet, XXIV, b 350–2; (Amersham), I, a 645; (English Literature), VIII, b 373
——, law of (Physiology), XIX, b 30
Wallflower (Botany) (Ill.), IV, *b* 119, a 120, b 132, *a* 136, *b* 138, a 141, a b 142
Wallia, king. See Walia
Wallisæ Leges (Salic Law), XXI, a b 227
Wallich, Dr., biologist (Zoology), XXIV, b 853
——, Nathaniel, botanist (Tea), XXIII, *b* 105
Wallin, Johan Olof, hymnologist (Sweden), XXII, *b* 795
Wallingford, Connecticut, town (Oneida Community), XVII, a b 795
Wallintone, town (Wellington), XXIV, a 521
Wallis. See Valais
WALLIS, John, mathematician, XXIV. a 352–3; (Algebra), I, *b* 454; (Conic Sections), VI, b 242; (Cryptography), a 593; (Deaf and Dumb), VII, *b* 7; (Hobbes), XII, *a b* 39, *a b* 40; (Infinitesimal Calculus), XIII, a 8, b 36, b 41; (Navigation), XVII, a 262, a 263; (Newton), *a* 458; (Quaternions), XX, b 167; (Squaring the Circle), XXII, b 452; (Trigonometry), XXIII, b 608, b 609
——, Samuel, navigator (Geography), X, a 169; (Tahiti), XXIII, a 27, b 29, a 30
Wall knots (Seamanship), XXI, a 619
Wallmark, Per Adam, academician (Sweden), XXII, b 795
Wallon, Henri Alexandre, historian (Slavery), XXII, *b* 138, *b* 153
—— fining process (Iron), XIII, b 327
—— language (Europe), VIII, b 614
WALLONS or Walloons, people, XXIV, a b 353
Wall-papers (Building), IV, a b 459; (Japan), XIII, a 602; (Mural Decoration) (Ill.), XVII, b 44–5
Wall-plates (Building) (Plate XXIV), IV, b 404, a 416, a 430, a 431
Walls, city (Athens), III, a 4, a b 5, a 6, a 8; (Ava), a 125; (Babylon), b 158; (Baghdad), a 200; (Canton), V, a 34; (Chester), b 524, a 526; (Constantinople), VI, a b 270–1, b 273; (Diarbekir), VII, b 145; (Isernia), XIII, b 396; (Jerusalem), a b 648, b 650, a b 651, b 652, a b 653; (Peking), XVIII, a b 480; (Piacenza), XIX, a b 72; (Prague), b 677, a b 678; (Pompeii), a 460; (Senlis), XXI, b 696; ancient (Fortification), IX, a 389; construction of (Rome) (Ill.), XX, a 825, a b 827–8, a 830–2
——, garden (Horticulture), XII, b 222, b 224–5
——, house, construction of (Building), IV, b 400–5; hollow, a 414; laying brick (Plate XX) (Ill.), b 411–6; masonry, b 420–2; partition, a b 406, b 407–8, a 414; plastering, a b 453
Wallsall, town (Stafford), XXII, b 459, *a* 460
WALLSEND, town, XXIV, b 353; Coal of, VI, b 49; (Northumberland), XVII, b 579
Wall-slabs, painted (Pottery and Porcelain), XIX, b 634–5
Wall Street (New York), XVII, b 470, a 471
Wall Tiles (Ill.), XXIII, b 415–6; ancient Egyptian (Pottery and Porcelain), XIX, a 621
Wally, die Zweiflerin (Gutzkow), XI, b 303
Walmesly, Gilbert, scholar (Johnson, S.), XIII, a 731, a 739
Walmgate Bar, gate (York), XXIV, b 787
Walney, island (Lancashire), XIV, a 253
WALNUT, tree, XXIV, b 353–4; (Botany) (Ill.), IV, *a* 77, a 89, a 107, a 132, *b* 137, b 142; English (Arboriculture), II, b 278, a 282; (Horticulture), XII, a 289; forests (United States), XXIII, a 860
WALPOLE, Horace, earl of Orford, author, XXIV, a 354–5; (Ana), I, a 689; (Architecture), II, b 389; (Chatterton), V, a 388; (Deffand), VII, *b* 24; (Foote), IX, b 329; (Goldsmith), X, b 679; (Gray, Thomas), XI, *a* 70; (Herbert, Lord), b 645, a 646; (James, Pretender), XIII, b 570; (Pinkerton), XIX, a 116; (Rousseau), XXI, a b 32; (Townshend), XXIII, b 523, *a* 524; (Vertue), XXIV, a 204
WALPOLE, Sir Robert, earl of Orford, prime minister, XXIV, b 355–7; (Bolingbroke), IV, a 7, *a* 8; (Bribery), a 248; (Chatham), V, *b* 381, a b 382; (Chelsea), b 396; (Chesterfield), b 527, a 528; (England), VIII, b 317–8; (Fielding, H.), IX, a 126; (Finance), *a b* 161; (Fox, C. J.), b 436; (George I.), X, a b 379; (George II.), b 379, *a* 380; (Granville, Earl), XI, a b 47; (Hervey, John), a b 692; (Pitcairne), XIX, b 142; (Pulteney), XX, *a b* 109, a 110; (Sunderland), XXII, *a* 693; (Townshend), XXIII, *a* 524; (Walpole, H.), XXIV, a b 354
Walpot, Hermann, master (Teutonic Order), XXIII, b 218
WALPURGIS, Walpurga or Walburga, St., XXIV, b 357; (Missions), XVI, b 535
Walpurgisnacht (Mendelssohn), XVI, a 12
Walpurgis-night (Demonology), VII, b 55
Walpergite (Mineralogy), XVI, b 424
Walras, L., economist (Political Economy), XIX, b 409
WALRUS or Morse, mammal, XXIV, b 357–9; (Ivory), XIII, a 533; (Mammalia), XV, a 354, b 357, a 450
WALSALL, borough and town, XXIV, a b 359; (Saddlery), XXI, a 150
Walschaert's valve-gear (Steam-Engine), XXII, a 527, b 547
Walsh, naturalist (Electricity), VIII, a 9
WALSH, Robert, journalist, XXIV, a 882; (Periodicals), XVIII, b 555
WALSH, William, poet, XXIV, b 359; (Pope), XIX, *b* 497, a 498
WALSINGHAM, Sir Francis, statesman, XXIV, b 359–60; (Andrewes), II, b 20; (Elizabeth), VIII, b 133, b 134
Walter. See Gwalther and Walther
—— of Aquitania, hero (Germany), X, b 467
—— of Exeter, monk (Guy of Warwick), XI, a 305
—— of Montague, monk (Scholasticism), XXI, a b 441
—— of Strasburg, friar (Stigmatization), XXII, a 578

- Walter the Penniless (Crusades), VI, b 551
- —— the Steward, soldier (Robert Bruce), XX, a b 610
- —— or Walther Hubert, archbishop (Palermo), XVIII, b 173, a 174; (Phædrus), b 740
- ——, Jakob Gottlieb, anatomist (Anatomy), I, b 715
- ——, John, editor (Berkshire), III, b 511; (Newspapers), XVII, a b 428
- WALTER, Thomas Ustick, architect, XXIV, a b 882
- —— printing press (Newspapers), XVII, *b* 428; (Typography) (Ill.), XXIII, a b 754; stereotyping for, b 748
- Walters, J., metallurgist (Iron), XIII, b 324, note
- ——, Lucy (Monmouth), XVI, b 781
- WALTHAM, Massachusetts, city, XXIV, a b 360
- ——, John de, bishop, (Trust), XXIII, b 633
- WALTHAM ABBEY or Waltham Holy Cross, town, XXIV, b 360–1; (Harold II.), XI, b 434, a b 435, a 436; cross (Hertford), a 690; powder mill (Arsenal), II, b 554; (Gunpowder), XI, *a* 284, b 288, a 291, a 292, a 295
- WALTHAMSTOW, town, XXIV, a 361
- Waltheof, earl (England), VIII, a b 263; (Sheffield), XXI, a 824; (Tottenham), XXIII, b 576; (William I.), XXIV, a *b* 607
- WALTHER, Bernhard, astronomer, XXIV, a b 361; (Astronomy), II, a 657; (Observatory, XVII, a 729; (Regiomontanus), XX, b 354; (Time), XXIII, b 419
- ——, Mme., poetess (Achenwall), I, a 89
- *Walther d' Aquitaine*, II, b 203. See Walter of Aquitania
- —— of Ocre, bishop (Sulmona), XXII, b 667
- WALTHER VON DER VOGELWEIDE, poet, XXIV, b 361–2; (Freidank), IX, b 672; (Germany), X, a 464, a b 470
- WALTON or Walton-le-Dale, township, XXIV, a 362; (Preston), XIX, a 738
- WALTON or Walton-on-the-Hill, XXIV, a 362
- WALTON, Brian, bishop, orientalist, XXIV, a b 362; (Chester), V, b 526; his Polyglott Bible (Alexandrian MS.), I, b 438, a 439; (Bible), III, b 560; (Bibliography), b 564; (Polyglott), XIX, a b 431; (Typography), XXIII, *a* 740
- ——, F., inventor (Linoleum), XIV, a 682, a 683
- WALTON, George, signer, XXIV, b 882
- WALTON, Izaak, angler, XXIV, b 362–3; (Cotton, C.), VI, b 451: (Herbert, Geo.), XI, b 644, a 645; (Hooker), XII, a b 154, a 156; (Slavs), XXII, a 161
- Walton le Dale. See WALTON
- Walton's process (Floor Cloth), IX, a 289
- Walworth, Sir William, lord mayor (Finance), IX, b 155
- Wama river (Nicaragua), XVII, b 491
- Wamas, tribe (Kâfiristân), XIII, b 831, *a* 832
- Wamasai, tribes (Africa), I, b 235
- *Wámik u Adhrá*, 'Unswú (Persia), XVIII, a 670
- Wamnia island (Aru Islands), II, *b* 585
- WAN-CHOW-FU, city, XXIV, b 363
- Wandelaar, artist (Albinus, B. S.), I, a 403
- *Wanderer of Switzerland*, poem (Montgomery, J.), XVI, b 816
- Wandering Jew. See JEW, WANDERING
- *Wandering Jew*, tale (Croly), VI, a 527
- ——, romance (Sue), XXII, b 651
- *Wanderjahre* (Goethe), X, a 655
- Wandle river (Geology), X, b 241; (Surrey), XXII, a b 729
- Wandsworth, village (London), XIV, a 827, a b 831, b 832, a b 842, b 843; (Surrey), XXII, a *b* 729; bridge (London), XIV, b 832; prison, *a* 844
- *Wandsworth, Orders of* (Presbyterianism), XIX, b 705
- Wangen Lake-dwellings, XIV, a 224
- Wang Khan (Mongols), XVI, b 771. See PRESTER JOHN
- Wang Mang, rebel (China), V, a 560
- *Wan heen tung Kaou*, encyclopædia (China), V, b 576
- Wăn-ho river (China), V, *b* 550
- Wanika, poison (Strophanthus), XXII, a b 640
- Wanklyn's analysis method (Water), XXIV, a 421
- Wanks or Segovia, river (Honduras), XII, a *b* 133
- Wan-lan-ko, pavilion (Hang-Chow-Foo), XI, b 393
- Wan-leíh, Ming emperor (China), V, *b* 563
- WANSTEAD, village, XXIV, b 363–4
- Wăn-te, emperor (China), V, a 560
- Wăn Wang, philosopher (China), V, *b* 573
- Wanyamizezi tribes (Africa), I, a 236
- Wanyoro, tribes (Unyoro), XXIII, *a* 916
- *Wapene Martyn* (Holland), XII, a 89
- Wapentake, district (England), VIII, a 197; (Hundred), XII, b 374; (York), XXIV, *a* 786
- Wapinschaw, contest (Dumfries), VII, b 456
- Wapiti, Deer, VII, *b* 22–3
- Wappäus, Johann Eduard, geographer (Population), XIX, a 529, a 530
- Wapping, parish (London), XIV, b 840
- Wapplerite (Mineralogy) (Ill.), XVI, a 421
- WAR, XXIV, a 364–86
  - battle, course of modern, a b 382
  - combined action of all arms, a 382–4
  - conditions of modern, a 367–9
  - drill subordinate to organization, a 365
  - experience, applications of, a b 365
  - guards, advanced and rear, b 383
  - historical study, conditions of, a b 369
  - literature, a b 384
  - marches, a b 383
  - merit distinguishable from success, a 369
  - modern warfare, a b 364
  - Napoleon and Marmont, views of, a b 366
  - NAVAL WAR, b 384–6
    - blockade, a b 385
    - British supremacy, b 384–5
    - changes in, b 384
    - cruisers, swift, b 385–6
    - formation in battle, b 386
    - ramming, a b 386
    - strategy, b 384–6
    - tactics, a b 386
  - obsolete Napoleonic traditions, b 367, b 368–9
  - organic army-changes, a b 368
  - organized army not a mechanism, b 364–5
  - outflanking movements, b 382–3
  - outposts, b 383–4
  - position, choice of, b 382
  - reconnoisance, a 384
  - rules of war, value of, a 366
  - scope of experience useful, b 366
  - strategical changes, modern, a 367
  - STRATEGY, b 369–74
    - aims of, b 371–2
    - communications, b 370–1
    - depôts of supplies, b 373–4
    - detention of larger force, b 372–3
    - interior lines, a b 373
    - secrecy essential, a b 372
    - supplies, b 369–70
    - tactics, relations of, a 372
    - transport, a b 370
  - study of art of, b 365–7
  - tactical changes, modern, b 366–7
  - TACTICS, a 374–82
    - artillery, a 380–1
    - battery, fire, a b 381
    - British traditions, hampering, b 375
    - cavalry, b 378–80
    - control drill, b 375–7
    - difficulties of cavalry manœuvres, b 378–9
    - French and German artillery practice, b 380
    - fire, artillery, a b 380
    - groups for company tactics, a 376–7
    - infantry, b 374–8
- WAR, *continued*
  - TACTICS
    - long-range fire, b 377–8
    - massed artillery fire, a 381
    - mechanical drill, a b 374
    - mounted infantry, a 379–80
    - scope of modern training, b 374
    - subordinate leaders, duties of, a b 375
    - summary of artillery duty, b 381
    - volley firing, a b 378
    - weapons for cavalry, a 379
- —— (Emigration), VIII, b 159; (Famines), IX, a 24; (International), XIII, a 196; (International Law), b 199–203; (Lieber), XIV, a 568; (Militia), XVI, b 313; (Prize), XIX, a 786–7
- *War*, satire (Rosa), XX, a b 870
- ——, American civil. See Secession War
- ——, articles of (Military Law), XVI, a b 308; chivalry in (Knighthood), XIV, a b 127
- —— department of Austria (Army), II, b 530; Prussia, a 523; Russia, a 534
- ——, cost of (United States), XXIII, a 829
- ——, effects of (Treaties), XXIII, a 565, a 566
- ——, testimony against (Lollards), XIV, a 821
- ——, use of balloons in (Aëronautics), I, b 180–1
- Wara, town (Africa), I, a 243
- Waracaba, bird (Trumpeter), XXIII, b 632
- Waran (Lizard), XIV, a 740
- WARANGAL or Worungul, town, XXIV, a 387
- —— rugs (India), XII, a 801
- Warasdin, city. See VARASD
- ——, mountains (Croatia), VI, a 523
- Waratah, tree (Camellia), IV, b 652: (New South Wales), XVII, a 420
- Warbeck, Perkin, pretender (England), VIII, a b 295; (Henry VII.), XI, b 590; (Ireland), XIII, a 268; (James IV.), a 567; (Scotland), XXI, *b* 518
- WARBLER, bird, XXIV, a 387–8; (Birds), III, *a* 641 note, a 642, b 643, a 647, *a b* 655, b 659, b 668, a 669, a 673; (Distribution), VII, b 232; (Ornithology), XVIII, b 34 note, b 51; (Whitethroat), XXIV, *b* 584
- Warburton, Egerton, explorer (Australia), III, *a* 93
- WARBURTON, Eliot Bartholomew George, novelist, XXIV, b 388
- WARBURTON, William, bishop, XXIV, b 388–9; (Gibbon), X, a b 516; (Hurd), XII, *b* 415; (Lowth), XV, a 32; (Pope), XIX, a b 501; (Smith), XXII, b 183; *Tracts of* (Parr), XVIII, b 326

War captives (Slavery), XXII, a 138, a 140
Warchagam river (Gilgit), X, b 532-3
War correspondents (American Journalism), XVII, a 886
—— -cries (Heraldry), XI, a b 634
—— customs (Scythia), XXI, b 603
WARD, Artemas, general, XXIV, b 882-3; (United States), XXIII, b 789
"——, Artemus," pseudonym of C. F. Browne, IV, b 349-50; (American Literature), I, b 638, a 639
WARD, Edward Matthew, painter, XXIV, b 389-90
——, Sir Henry George, governor (Ionian Islands), XIII, a 213
WARD, James, painter, XXIV, a b 390; (Beard), III, b 401; (Schools of Painting), XXI, a 461
——, John, preacher, XXIV, a 833
——, John William, earl of Dudley (Pitt), XIX, b 156
WARD, Nathaniel, satirist, XXIV, a 883
——, Seth, astronomer (Hobbes), XII, b 38, *a* 39
WARD, William, engraver, XXIV, b 390
Wardá, river (Central Provinces), V, a b 297, a 298
——, George, poet (Syriac Literature), XXII, b 878 note
Wardak urn (Inscriptions), XIII, a 126
War-Dances, VI, a 701
Warden, Lord (Cinque Ports), V, b 687
Warder's *Monarchy of Bees*, III, b 418
WARDHÁ or Wurda, district and river, XXIV, b 390-1
——, river (Chándá), V, b 338, *a* 339; (Hyderabad), XII, *a* 444; (Nágpur), XVII, a 171; (Wun), XXIV, b 734, a 735
Wardlaw, Lady Elizabeth, poet (Ballads), III, a 244
——, Henry, bishop (St. Andrews), XXI, a b 166; (Scotland), *a* 514
——, Walter, cardinal (Beaton), III, a 402
Wardle, Thomas, manufacturer (Silk), XXII, *b* 70
Wardley, Jane, prophetess (Shakers), XXI, a 773
Ward of court (Infant), XIII, b 4
Wards, rural districts (Cumberland), VI, b 615; (England), VIII, a 197
—— in Hospital, XII, a b 318
Wardship (Feudalism), IX, b 107-8; (Knighthood), XIV, a 116
WARE, town, XXIV, a 391; (Hertford), XI, *b* 689, *a* 690
WARE, Henry, theologian, XXIV, a b 883
——, Henry, Jr., clergyman, XXIV, b 883
——, Sir James, antiquary (Ireland), XIII, b 240
——, John, physician, XXIV, b 883
——, Mary Greene, authoress, XXIV, b 883
WARE, Nathaniel A., author, XXIV, b 883-4
——, William, novelist, XXIV, b 883
Warehouse, paper (Typography), XXIII, a 757
Warehouses, bonded (Finance), IX, b 161; (London), XIV, a 841
Warens, Madame de (Rousseau), XXI, *b* 29, a b 30
Warfare, Araucanian (America), I, b 615-6
——, Grecian (Homer), XII, b 115
——, Indian, North America, I, a 607
Warfield, Catherine Anne, novelist (Ware), XXIV, a 884
War game (War), XXIV, b 369, notes
Wargentin, P. W., astronomer (Astronomy), II, a 662, b 692
"War governors" (United States), XXIII, a 822
Warham, William, archbishop (England), VIII, a 299, a 300; (England, Church of), b 335, a 336; (English Literature), a 370; (Erasmus), a b 454
Wari or Owari, town (Benin), III, b 494-5
War in ancient states (Political Economy), XIX, a 361
Wari-Kauri or Chatham Island, V, a 385
Warington, R., naturalist (Aquarium), II, *a* 190
Warington's toughening process (Gold), X, a 668
Warka tablets (Cambyses), IV, a 648, a 649
War maps (Surveying), XXII, b 746-7
Warmbad springs (Transvaal), XXIII, a 550
Wärme, Ueber die Natur der (Mohr), XVI, b 629
WARMINSTER, town, XXIV, a b 391
Warm salt springs (Mineral Waters) (Table), XVI, a 453; sulphur springs, a b 454, a 456
Warnemünde, town (Mecklenburg), XV, a b 785; (Rostock), XX, b 884
Warner, Anna, novelist, XXIV, a b 884
WARNER, Seth, colonel, XXIV, a 884
WARNER, Susan, novelist, XXIV, a b 884
—— and Swazey, opticians (Telescopic Work), XXIII, a *b* 936
—— Observatory, XVII, a 736
Warner's Windmill (Ill.), XXIV, b 631
War of Independence, American, I, b 621-2; (United States), XXIII, b 789-93
—— of 1812, American (England), VIII, a 326; (Gallatin), X, b 36-7; (Girard), a 554; (Scott), XXI, b 576 note, a 577; (Search, Right), b 638; (United States), XXIII, a 806, b 807-9
—— of Investitures (Italy), XIII, b 481-2
—— of Spanish Succession (Coehorn), VI, a 98; (Lotteries), XV, a 13
—— of the Axe (Kaffraria), XIII, a 827
—— of the Public Weal (France), IX, b 504
—— of the Roses (Channel Islands), V, a 341; (Coventry), VI, a 471; (Edward IV.), VII, a b 594; (England), VIII, b 293-5; (Fortescue), IX, a 370; (France), a 498; (Hall, Edward), XI, b 347; (Henry VI., and VII., England), a b 590; (Hull), XII, a 356; (Margaret of Anjou), XV, b 543-4; (Parliament), XVIII, b 311-2; (Shakespeare), XXI, b 776-7; (Warwick), XXIV, a 402-3; (York), b 786
—— of the Scutcheons (Remiremont), XX, a 391
Warp in Weaving, XXIV, b 489, *a b* 490, *a b* 491, *a b* 493; (Cotton), VI, a 444; primitive (Textiles) (Ill.), XXIII, b 223, a 224
Warping, mode of (Irrigation), XIII, b 372, a 377-8; (Agriculture), I, b 360
War poetry, German (Kŏrner), XIV, b 142-3
War powers of Congress (United States), XXIII, *a* b 798
WARRANT, law-term, XXIV b 391-3; (Arrest), II, b 550; (Writ), XXIV, a 731, *b* 732; execution of (Summary Jurisdiction), XXII, *b* 675, *a* 676
—— of Attorney, III, b 55
—— officers (Navy), XVII, b 301-2, b 303
"Warranty" (Horse), XII, a 194
WARRANTY, law-term, XXIV, a 393-4; (Trademarks), XXIII, b 530; marine (Insurance), XIII, b 192; personal property (Sale), XXI, a b 218, *b* 219, a 220; recovery for breach of (Roman Law), XX, b 700-1; Roman (Sale), XXI, b 215-6, b 218; (Roman Law), XX, b 718
Warre, Sir Reginald West, Baron de la (Manchester), XV, b 471
Warree, mammal (Peccary), XVIII, b 460
WARREN, family, XXIV, b 884-6
——, George Washington, XXIV, a 886
WARREN, Gouverneur Kemble, general, XXIV, b 884
——, James, patriot, XXIV, b 884; (Surveys), XXII, a 936, b 938
——, John, immigrant, XXIV, a 885
WARREN, John, 2d, surgeon, XXIV, b 885
WARREN, John Collins, surgeon, XXIV, b 885; (Anæsthesia), I, b 692
WARREN, Jonathan Mason, XXIV, b 885-6
WARREN, Joseph, general, XXIV, a b 885
——, Lavinia (Dwarf), VII, a 491
WARREN, Mercy, authoress, XXIV, a 885; (American Literature), I, b 633; (Women), XXIV, b 911
WARREN, Samuel, novelist, XXIV, a b 394
——, Samuel, preacher (Methodism), XVI, a 198
—— girder (Bridges) (Ill.), IV, a 283, b 284-5, a 286, a 290, b 303
—— petroleum district (United States), XXIII, a b 865
Warren's survey (Jerusalem), XIII, a 647, a *b* 648, a 649, a 652 note, b 655
War resources (Protection), XIX, b 935-6
WARRINGTON, town, XXIV, b 394-5; (File), IX, b 140; (Lancashire), XIV, a b 254
WARRINGTON, Lewis, commodore, XXIV, a 886
Warringtonite (Mineralogy), XVI, b 418
"Warrior," ship (Navy), XVII, b 292, a 293, 296
Warrior caste (India), XII, b 820-2
Wars, drug (Kámalá), XIII, *b* 840
——, European (Fortification), IX, a b 380; losses of (Europe), VIII, a 618
——, feudal (Italy), XIII, b 484-5
——, Guelf and Ghibelline (Italy), XIII, a b 485, a 486-7
WARSAW, government, XXIV, *a* b 395; (Russia), XXI, a 76
——, duchy of (Poland), XIX, b 310
WARSAW, city (Plan), XXIV, b 395-8
    embellishments and education, a b 396
    guide-book topography, b 396-7
    history, b 397-8
    industry and trade, a b 397
    situation, b 395-6

—— (Kosciusko), XIV, *b* 143; (Poland), XIX, b 303, a 306, a b 323, a 324; sack of, 1794 (Suwaroff), XXII, a 766; university Observatory, XVII, a 735
War-secretary (Ministry), XVI, b 495, a 496
Warsheikh, station (Zanzibar), XXIV, a 806
War ships (Shipbuilding), XXI, b 859-61
Wars of the Lord (Israel), XIII, b 418
WART, excresence, XXIV, a b 398; (Heliotrope), XI, a 566; (Pathology), XVIII, a 386; (Skin Diseases), XXII, a b 129; (Toad), XXIII, a b 450
Warta, river (Poland), XIX, b 318-9, a 320
War Taboo, XXIII, b 22-3
Wartburg, castle (Eisenach), VII, b 685; (Luther), XV, a b 77; Hill (Saxe-Weimar), XXI, a 365
"Wartegeld," pension (Hoffmann), XII, a 47
Warthe, river (Oder), XVII, *a* 745
Wart-Hog (Swine), XXII, b 812-3
WARTON, Joseph, author, XXIV, b 398-9; (Collins, W.), VI, a b 133
WARTON, Thomas, 1st, poet, XXIV, b 398

WARTON, Thomas, 2d, poet, XXIV, b 399
Wart Snakes, XXII, a 204
WARWICK, county (Plate VIII), XXIV, b 399–401; (Coal), VI, b 48; (Shakespeare), XXI, a 774–7
WARWICK, town, XXIV, *b* 400, a b 401
——, town (Rhode Island), XX, *a* 539
——, Edward Plantagenet, earl of (York), XXIV, b 790
——, Guy, earl of (Libraries), XIV, b 513
——, John Dudley, earl of (Admiral), I, b 142
——, Sir Philip, secretary to Charles I. (Cromwell), VI, a 529
——, Richard Beauchamp, earl of (Effigies), VII, b 602; (Heraldry) (Ill.), XI, b 610, b 631, a 632, b 633
WARWICK. Richard Nevil, earl of, XXIV, b 401–3; (Edward IV.), VII, *a* 594; (Heraldry), XI, b 631, a b 633
——, Robert Rich, earl of (Post-Office), XIX, *b* 579
Warwickshire. See WARWICK, county
Wary, town (Carlsbad), V, a 99
Wasa, provincial statistics (Russia), XXI, a 76
Wash, The, estuary (Cambridge), IV, a 643; (England), VIII, a 196; (Lincoln), XIV, *a* 660
—— or Gwash, river (Rutland), XXI, b 122
WASHBURN, family, XXIV, a 886
——, Cadwallader Colden, general, XXIV, b 886
——, Charles Ames, journalist, XXIV, b 886
——, Edward Abiel, theologian. XXIV, a 887
——, Emory, jurist, XXIV, a 887
——, Ichabod, author, XXIV, b 886
——, Israel, shipbuilder, XXIV, a 886
——, Israel, Jr., lawyer, XXIV, a 886; (United States), XXIII, a 822
——, Peter Thacher, jurist, XXIV, b 886
——, Samuel Benjamin, sailor, XXIV, b 886
——, William Burritt, senator, XXIV, b 886–7
——, William Drew, politician, XXIV, b 886
Washburne Mountains (Yellowstone Park), XXIV, *b* 773
——, Elihu Benjamin, diplomatist, XXIV, a b 886
Washburn Observatory, XVII, a 736
Washing in Bleaching, III, a b 706, b 708–9
—— with iron oxide (Iron), XIII, b 334
—— machine (Coal), VI, b 72
—— ores (Metallurgy), XVI, b 63–4; (Mining), b 484
—— soda (Sodium), XXII, a 257
WASHINGTON, capital (Plans), XXIV, a 403–5
  District of Columbia, a b 403, a b 404
WASHINGTON, *continued*
  history, a b 405
  plan and bridges, b 403
  public buildings, b 404–5
  situation and communications, a b 403
  water and drainage, b 403–4
—— (American Journalism) XVII, a 887; (Libraries), XIV, a 535, b 553–4; (Observatory), XVII, a 736; capitol at (Architecture), (Ill.), II, a 397; (Columbia, District), VI, a 151; (Crawford, T.), b 491; (Greenough), XI, a 155; history of (United States), XXIII, a b 805, a 808
——, Mount, New Hampshire (America), I, a 596; (Meteorology), XVI, a 126; (New Hampshire), XVII, *a* 400, b 401, a 402; (United States), XXIII, b 842, a 859
WASHINGTON, admitted as a State in 1889 (Plate IX), XXIV, b 405–8
  area, b 405
  Cascade range, district, a 406
  civil and social features, a 408
  climate, b 405–6
  Eastern district, b 406–7
  forests and fisheries, a b 407
  history, a b 408
  industries, b 407–8
  mines and mining, b 407
  river-system, a 407
  Western district, a b 406
—— (Seal), XXI, a 610; (Universities), XXIII, a 913, a b 958; statistics (United States), b 853, b 856, a 857, a 858, a 861, a 862, b 864, b 865
WASHINGTON, Bushrod, jurist, XXIV, a 887
WASHINGTON, George, president, XXIV, b 408–12
  ancestry, b 408
  bibliography, b 411–2
  constitutional service, b 410–1
  death, b 411
  French and Indian war, a 409
  personal qualities, a b 411
  planter life, a b 409, b 411
  political abuse, a 411
  popular canonization, b 410
  Revolutionary struggle, b 409–10
  youth, b 408–9
—— (Franklin, B.), IX, *b* 631; (Greene), XI, a 146; (Hamilton), b 368, a 369; (Heraldry), a 613; (Jefferson), XIII, b 625, a b 626; (La Fayette), XIV, *b* 202; (Morristown), XVI, a 874; (Newburg), XVII, b 384; (Paine), XVIII, a b 141; (Philadelphia), a 755; (Protection), XIX, b 938; (Shirley), XXI, a 923; (Slavery), XXII, a 150; (Tryon), XXIII, b 946; (United States), b 782, b 789, b 790, *a b* 791, *a* 792, a b 793, a 795, *a* b 796, b 798, a b 801, a 802, a b 803, a 804; (Trumbull), a 945; portraits of (Stuart), XXII, a b 643; *Writings of* (Sparks), a 918; his *Farewell Address* (Tammany Society), XXIII, a 920
——, Lawrence, planter, XXIV, b 408, *a* 409
——, William Augustine, soldier, XXIV, a b 887
—— islands (Marquesas Islands), XV, a 571
Washingtonite (Mineralogy), XVI, b 401
Washington Observatory XVII, a 736; (Telescope), XXIII, b 161, a 165, a 166 note, b 169; (Time), a 422
Washington's Rock (Plainfield), XIX, a 179
Washington University, St. Louis, XXI, *a* 193
Washita, river. See Ouachita
—— stone (Hone), XII, a b 138
Washout water-closets (Sewerage) (Ill), XXI, b 752–3
Wash-pumps in Metallurgy (Ill.), XVI, b 64
Wash-warmer (Distillation), VII, b 230
Wásif, poet (Turkey), XXIII, b 699
WASPS, insects (Ill.), XXIV, a 412–4
  classified place of, a 412
  communities, a b 412
  economic entomology, a b 414
  eumenidæ (Ill.), b 413–4
  genera of vespidæ (Ill.), a b 413
  masaridæ (Ill.), a 414
  nests, b 412–3
  vespidæ (Ill.), a 412–3
—— (Bee), III, a 430; (Flight), IX, a b 274; (Galls), X, b 40; (Honey), XII, b 139, a b 140; (Hymenoptera), b 606, *a b* 607, *a* 608, *a* 609, a *b* 611, a 612; (Insects), XIII, b 152, b 154; (Instinct), b 166
Wasps, comedy (Aristophanes), II, b 447
Wasseralfingen, superheated (Iron), XIII, b 310
Wasserthurm, lighthouse (Luzerne), XV, b 42
WASTE, law-term, XXIV, b 414–5; (Landlord and Tenant), XIV, b 275–6
—— (Nutrition), XVII, a 706
—— lands, improvement of (Agriculture), I, b 356–61
Wastes, manorial (Commons), VI, a b 187, a 188
Wasting of banks (Canal), IV, b 694
Watauga river colonists (Sevier), XXI, *a* 917; (Tennessee), XXIII, b 194–5
Watch, night (Guild), XI, a 231, note
WATCH, timepiece (Ill.), XXIV, a 415–20
  anti-electric watches, a 420
  balance escapement (Ill.), b 415–6
  certified watches, a 420
  chronograph, b 419
WATCH, *continued*
  chronometer or detached escapement (Ill.), b 419–20
  compensated balances, b 416
  cylinder escapement (Ill.), a b 418
  Dent's and Loseby's balances (Ill.), a b 417
  duplex escapement (Ill.), a 418
  escapements, b 415–9
  general types, a b 415
  lever chronometer, a 419
  lever escapement (Ill.), a 418
  keyless winders (Ill.), a b 419
  machine-made, a 420
  regulating balance escapements, a b 416
  secondary compensation, b 416–7
  split second hands, b 419–20
  vertical escapement, b 417–8
—— (Beaumarchais), III, a 404; (France), IX, a 462; (Hooke), XII, a 153; (Navigation), XVII, a 257, b 265–6; American (Patents), XVIII, b 880; regulating (Mechanics), XV, a 735; stamps on (Trade Marks), XXIII, b 530
Watchish Mountains (America), I, b 595
Watch-making (Chaux de Fonds), V, b 393; (Geneva), X, *a* 133; (Jura), XIII, *b* 791; (Liverpool), XIV, b 721–2; (Switzerland), XXII, a 818
—— -spring, spiral (Huygens), XII, b 432
—— -towers (Military Frontier), XVI, a 308
Watellen mountain (Sahara), XXI, b 157
WATER, fluid, XXIV, a 420–2; (Brewing), IV, a b 244; (Chemistry), V, b 418–24, b 437–8; (Climate), VI, a 6; (Cookery), b 295–6; (Distillation), VII, b 227, b 228–9; (Electricity), VIII, a 8, b 9; (Filter), IX, a 146–50; (Fire), *a* 201, a b 205; (Flight), b 269–70; (Fountain), a 428–9; (Ice), XII, a 646–7; (Iron), XIII, b 295; (Mineralogy), XVI, b 386, b 400–1
——, action of (Baths), III, a 380–1; (Metals), XVI, b 75
——, composition of (Cavendish), V, a 236; (Gay Lussac), X, b 109; (Watt), XXIV, a 436; compressibility of (Elasticity), VII, b 709; decomposition of (Electricity), VIII, *b* 9, a 12; (Nicholson), XVII, a 500
——, density of (Heat), XI, a 522; (Hydromechanics), XII, b 479, a 480; (Thermodynamics), XXIII b 307–8; dissociation of (Sainte-Clair Deville), XXI, a b 175
——, drinking (Dietetics), VII, b 175
——, effects of, epigene (Geology), X, *a* 237–56; hypogene, a 233–4

Water, hard (Carbon), V, b 78
——, impact of (Hydromechanics) (Ill.), XII, b 539-49
——, John's doctrine of (Gospels), X, b 739, b 742-3
——, reaction of (Hydromechanics) (Ill.), XII, b 539-49; (Lead), XIV, a 378
——, refraction by (Light) (Ill.), XIV, a 595-6; (Optics), XVII, b 824
WATER, SEA, XXI, a 641-5
——, secretion of (Nutrition), XVII, a b 703
——, specific gravity of (Mediterranean Sea), XV, a 830
——, spring (Filter), IX, a b 146
——, temperatures of (Meteorology), XVI, a b 121
——, therapeutics of (Mineral Waters), XVI, a 451
——, velocity of sound in (Acoustics), I, a 98
——, viscosity of (Hydromechanics), XII, b 479
——, volcanic (Geology), X, a 216, b 225-6
——, Zodiacal sign, XXIV, b 831
—— absorption (Chalk), V, a 323
—— and air as media (Light), XIV, b 589
—— and blood (Gospels), X, a b 737-8
—— -bar, Smith's for windows (Building) (Ill.), IV, a b 443
—— -bearers, company of (London), XIV, a 834
"—— -beggars, troops" (Holland), XII, a b 78
Waterberg range and district (Transvaal), XXIII, a b 550, *a* 551
Water-birds (Yakutsk), XXIV, a 763
—— -blast (Metallurgy), XVI, *b* 65; (Mining) (Ill.), a 482
—— -blowing-engine (Bellows), III, a 476
—— -bok (Antelope) (Ill.), II, a 90
—— budget (Heraldry), XI, b 628
WATERBURY, Connecticut, town, XXIV, a 422; (Libraries), XIV, a 554
—— -carriage system (Sewerage) (Ill.), XXI, a 746-53
Water-Carrier, painting (Velazquez), XXIV, b 144
Water-castles (China), V, a 549
—— -chambers, stability (Shipbuilding), XXI, a 851-2
—— Clocks, VI, b 25
—— -closets (Hospital), XII, a 319; (Sewerage) (Ill.), XXI, a 752-3
—— -color Painting, XVIII, b 143-4; (Cox), VI, b 475; (Hildebrandt, E.), XI, a 728; (Palmer), XVIII, a 197; (Sandby), XXI, b 269-70; (Smillie), XXII, b 910; (Turner), XXIII, a 710; (Varley), XXIV, a b 98
—— -colors (Pigments), XIX, b 94-5
—— -companies (London), XIV, a b 834, b 862
—— Compass, VI, *b* 202
—— courses, man's action upon (Geology), X, a 258; (Water-Supply), XXIV, a 425
—— -cress (Horticulture), XII, b 301-2; (London), XIV, b 838
—— culture of plants (Physiology), XIX, a 55
—— -cure. See HYDROPATHY
—— Dog, VII, a 285
—— -drill (Agriculture), I, a 286
—— fall, energy (Hydromechanics), XII, b 549-50, b 553-4, b 555-8
Waterfall, Handeck (Aar), I, b 10; (Switzerland), XXII, b 815
——, Staubach (Switzerland), XXII, b 815
——, Triberg (Würtemberg), XXIV, b 735
Waterfalls (Geology), X, a b 245; (Glamorgan), b 564; (Ithaca), XIII, b 527; (Nerbudda), XVII, a 355; (New York), a 463; (Niagara), b 485-6; (Sweden), XXII, a 775; (Switzerland), b 815; (Westmorland), XXIV, a 542; (Zaire), a 803
——, Gersoppa (Kánara), XIII, a 844; (Shimoga), XXI, a b 840
WATERFORD, county, XXIV, a 422-3
WATERFORD, city, XXIV, *a* b 423; (Ireland), XIII, b 242, a 268; (Newspapers), XVII, a 434
—— Harbor, XXIV, *a* b 422, a b 423
Water gas (Gas-Lighting), X, a 92
—— -glass (Chemistry), V, a 453; (Silica), XXII, b 59
—— gauging (Hydromechanics), XII, a 499-503, b 537-9
—— Hen. See Moor Hen
—— hog (Capybara), V, a 72
Waterhouse, Benjamin, physician (Jenner), XIII, b 634
—— inch (Hydromechanics), XII, a b 499
—— inclosed in crystals (Geology), X, b 231
Watering (Horse), XII, b 197
——, pattern (Calender), IV, b 605
—— capital stock, effects of (United States), XXIII, b 834
—— places (Holland), XII, b 63; (Kent County), XIV, a 40; (New Jersey), XVII, a 407. See Health resorts
—— plants (Horticulture), XII, a 216, b 239, b 246, a 247
—— in igneous rock (Granite), XI, a 45; in soil (Agriculture), I, b 293-4
—— Islands (Malacca), XV, b 315
Waterlanders, sect (Mennonites), XVI, b 16
Water-lifts, furnace (Iron), XIII, b 307-8
WATER LILY, plant, XXIV, b 423-4
WATERLOO, Belgium, village, XXIV, a 424; battle, 1815 (Anglesey), II, b 29; (Battle), III, a 384; (Blucher), b 730; (Drouet D'Erlon), VII, b 408; (France), IX, a 544; (Gerard), X, a 396; (Napoleon I.), XVII, b 230-1; (Ney), a 485; (Picton), XIX, a 90; (War), XXIV, a b 373; (Wellington), a 525; Prussians at (Army), II, b 524
WATERLOO, Iowa, town, XXIV, a 424
—— bridge, London (Bridges) (Plate XVIII), IV, a 279, b 300, a 308; (London), XIV, b 832, a b 861
—— *Lectures* (Chesney), V, a b 513
—— square (Hanover), XI, a 401
WATERLOO-WITH-SEAFORTH, town, XXIV, a 424
Water main, cleaning (Hydromechanics) (Ill.), XII, b 510; diameters, b 514-5
—— mangle (Bleaching), III, b 709
—— -marks (Bibliography), III, a 564; (Book), IV, a 35; (Paper), XVIII, a b 222, a 225, b 228
—— -meadows (Irrigation), XIII, b 372-9, a b 380; management of, b 378-9
Water-melons (Egypt), VII, a 615
Watermen (Club), VI, a 39; Thames (Rowing), XXI, *b* 35, *a* 36
Watermill, painting (Hobbema), XII, b 33
Water-mites (Arachnida), II, a b 242
—— -mole (Mammalia), XV, a 351; (Platypus), XIX, b 225
—— -motors (Hydromechanics) (Ill.), XII, a b 549-65
—— -Ordeal, XVII, a 844
—— -Ousel (Ill.), XVIII, b 78-9
—— -pipes (Hydromechanics), XII, a 509-15
—— poet, John Taylor, XXIII, b 101
—— power. See HYDROMECHANICS
—— pressure engines (Coal), VI, a 65; (Hydromechanics), XII, a b 550-3
Waterproof fabrics (India-Rubber), XII, a 876, a 883; (Syme), XXII, a 849; (Tarpaulin), XXIII, a 72
Water Rail, bird, XX, b 229-30
—— rat, mammal (Mammalia), XV, a b 421, *a* 422; (Vole), XXIV, b 297, a b 298
Waters, mineral. See MINERAL WATERS
——, subterranean (Geology), X, a 239-41
Water seasoning of wood (Dry Rot), VII, a 426
Watershed (Appalachian Mountains), II, b 175-6; (Himalaya), XI, *a* 737, b 741-2; (India), XII, a 774, a 776-7; (Scotland), XXI, a b 545, a 546; (United States), XXIII, a 841; Siberian (Transbaikalia), XXIII, a 542
Water Shrew, XXI, b 883-4
—— -Snakes, XXII, a 200, b 202, *a* 203
Waterspout (Meteorology) (Ill.), XVI, b 134-6
Water spray method of Ventilation, XXIV, b 175
—— -steam thermometers (Heat) (Ill.), XI, a 506-8
—— -stomata (Histology), XII, *b* 19-20
WATER-SUPPLY (Ill.), XXIV, a 424-32
  accessories of dams, b 429-30
  conveyance, a 430
  dams, b 427-30
  distribution, b 431-2
  embankment dams (Ill.), a 428
  extension of supply, a 427
  masonry dams (Ill.), a 428-9
  meter-service, a 432
  purification methods, b 430-1
  reservoirs, a b 427
  softening water, b 430-1
  springs, a b 425
  storage, a b 431
  streams, a b 425-6
  sources of, a 424-5
  tanks, a 425
  typical dams (Ill.), b 428-9
  wells, a 426-7
—— (Calcutta), IV, a 584; (Canal), a b 692; (Chicago), V, b 532-3; (Dundee), VII, b 462; (Edinburgh), b 569, b 579; (Filter), IX, a 146-50; (Hygiene), XII, b 602; (Liverpool), XIV, b 720; London, b 833-4, b 855, b 862; (Middlesex), XVI, b 291; (Manchester), XV, b 468-9; (Naples), XVII, b 197; (Paris), XVIII, b 284, a 285; (Philadelphia), b 752; (Rome), XX, b 859, note; (St. Louis), XXI, a 193; (San Francisco), b 276; (Shoshong), b 881; (Sydney), XXII, a 847; (Trade Unions), XXIII, a 532; (Versailles), XXIV, a b 192; (Washington), b 403-4
—— -supply, garden (Horticulture), XII, a b 223; Mayan system (Yucatan), XXIV, b 796; pipe arrangement (Hydromechanics), XII, a b 514
—— surface, forms of (Hydromechanics), XII, a 527-9
—— -table (Hygiene), XII, b 601
Watertight compartments (Shipbuilding), XXI, *b* 854-5
WATERTON, Charles, naturalist, XXIV, a b 432; (Pigeon), XIX, b 93
——, Edmund, naturalist (Ring), XX, b 575, note, *a* *b* 576
—— -torrents, volcanic (Geology), X, a b 223
—— tower (Pullman), XX, b 890
WATERTOWN, New York, town, XXIV, b 432
WATERTOWN, Wisconsin, town, XXIV, b 432

- Watertown arsenal testing machine (Strength of Materials) (Ill.), XXII, a 627, notes, 628
- Water tubes, vertical (Steam-Engine), XXII, b 519-20
- —— tuyere (Iron), XIII, b 312-3
- —— vapor (Rainband), XX, a b 267-8
- —— wheel floats (Hydromechanics), XII, b 542-3
- —— -wheels (Egypt), VII, a 614; (Hydromechanics) (Ill.), XII, *a b* 454, b 541, b 542-3, a 550, b 553-64
- "Waterwitch," brig (Yachting), XXIV, a 759
- Water works (Aberdeen), I, b 44; (Greenock), XI, a 154; (Hamburg), a b 363; (Heat), a 638; (Olympia), XVII, b 791-2; London (Myddleton), XVII, b 122; Manchester (Hydrome- XII, chanics) (Ill.), b 502, *a* 503
- WATFORD, town, XXIV, b 432-3; (Hertford), XI, b 689
- Wáthik billáh, caliph (Mohammedanism), XVI, a b 607
- Watkin chronograph (Gunnery) (Ill.), XI, a 265, b 267-8; map system (Ill.), b 275-6; rangefinders (Telemeter) (Ill.), XXIII, b 136-7
- Watling island. See St. Salvador
- —— Street, road (Alfred the Great), I, a 447; (Canterbury), V, a 27; (Cheshire), a 513; (London), XIV, a 851; (Middlesex), XVI, a 293; (Roxburgh), XXI, a 40; (Shakespeare), a 774; (Stafford), XXII, a 460; (York), XXIV, a 786
- WATSON, Elkanah, publicist, XXIV, b 887; (United States), XXIII, *a* b 871
- ——, George, painter (Gordon), X, a 696
- ——, James, printer (Newspapers), XVII, a 433
- ——, James Craig, astronomer, *b.* 1838, *d.* 1880 (Comet), VI, a 171; (Telescopic Work), XXIII, a 936
- ——, naturalist (Penguin), XVIII, b 501 note, b 502
- ——, John, philanthropist (Foundling Hospitals), IX, b 427
- ——, Joseph, teacher (Deaf and Dumb), VII, *a* 8, a 10, b 11
- WATSON, Richard, bishop, XXIV, a b 433; (Gibbon), X, a 517 note; (Paine), XVIII, b 141
- ——, Robert Grant, diplomatist (Persia), XVIII, b 638
- ——, Sir Thomas, physician (Gout), XI, a 9; (Pathology), XVIII, a 383, b 406, a 407
- ——, Thomas, poet (Pastoral), XVIII, b 351
- ——, Sir William, physicist (Electricity), VIII, *b* 6, a 7; (Herschel), XI, b 684, b 685
- ——, Winslow Cossoul, farmer, XXIV, b 887
- Watt, Gregory, geologist (Geology), X, a 222
- WATT, James, inventor, XXIV, b 433-6
  - Boulton partnership, a 435-6
  - expansive steam working, b 436-7
  - Glasgow college epoch, a b 434
  - last years, a 436
  - literature, b 436
  - minor inventions, b 435, *a* 436
  - personality and family, a b 436
  - Roebuck and canal period, b 434-5
  - separate condenser invention, tight cylinder, b 434
  - successes, b 435
  - youth, b 433-4
- —— (Birmingham), III, a b 681; (Bleaching), a 705; (Boulton), IV, a 157; (Canal), b 695; (Glasgow), X, *b* 570, a b 573, a b 575; (Mechanics), XV, a 705, b 773-4; (Smoke Abatement), XXII, b 189; (Steam-Engine), b 492-4, a 496, b 523, a 529, b 536-7; memorial building (Greenock), XI, b 153-4
- ——, James, 2d, XXIV, *a* b 436
- ——, Robert, author (Bibliography), III, a 571
- WATTEAU, Antoine, painter, XXIV, b 436-7; (Lancret), XIV, a 260; (Teniers), XXIII, a 191
- Wattenbach, W., philologist (Palæography), XVIII, b 152, a b 154, a 155, a 156, b 157, b 166, b 169, b 170; (Papyrus), b 237
- Wattergands, district (Pas de Calais), XVIII, b 344
- Watteville, Montchrétien de, publicist (Political Economy), XIX, b 369
- Wattle, tree (Victoria), XXIV, a 234
- Wattle-birds (Honey-Eater), XII, a 143
- Watts, Henry, chemist (Chemistry), V, b 493 note
- WATTS, Isaac, hymnodist, XXIV, a b 437; (Hymns), XII, *a* 628
- ——, Thomas, bibliographer, (Newspapers), XVII, a b 424
- —— indicator - diagram (Thermodynamics) (Ill.), XXIII, a 304, b 305
- —— process (Flax), IX, a 258
- Wattwyl, commune (St. Gall), XXI, b 177
- Wat Tyler, insurgent. See Tyler, Wat
- Waukaringa, town (South Australia), XXII, b 298
- WAVE, undulation, XXIV, b 437-43
  - definitions, b 437-8
  - discrete masses, linear system of, b 439-40
  - elastic solid, a 443
  - extent of subject, b 437
  - fluid, compression and dilatation in, a b 440
  - gravitation and surface-tension, b 440
  - interference, b 442-3
- WAVE, *continued*
  - longitudinal waves in wire, a b 439
  - long-waves, b 440-1
  - oscillations of water, a 441-2
  - ripples, a b 442
  - sound propagation, b 440
  - temperature and electric potential, a b 443
  - transverse waves on wire, a 438-9
  - works and memoirs on, b 443
- ——, analytical expression for (Mechanics), XV, b 693; reflected (Mechanics), b 749, a 750; standing (Hydromechanics) (Ill.), XII, *a* 529-30; storm- (Meteorology), XVI, b 160
- —— deflection (Harbors and Docks), XI, a b 413; impacts (Harbors and Docks), a 412
- —— -length (Light), XIV, b 608, b 611-2, b 613, a b 614; of spectrum lines (Spectroscopy), XXII, a 393-4
- Wavellite (Mineralogy) (Ill.), XVI, a 385, b 422; (Phosphorus), XVIII, a 831
- Wave-making resistance (Shipbuilding) (Ill.), XXI, b 846, b 847-8
- Wave motion (Earthquake), VII, b 526, a b 527-8; (Hydromechanics), XII, b 452, a 454, b 466-7, a 477-8
- Waveney river (Suffolk), XXII, a 654
- Waverley Abbey (Surrey), XXII, a 730
- *Waverley*, novel (Scott), XXI, b 573, a b 574, a b 575, a b 576; *Novels* (Adolphus, J. L.), I, b 148; (Duel), VII, b 443; (English Literature), VIII, a b 386; (Ranke), XX, a 890
- WAVERTREE, town, XXIV, b 443
- Waves (Harbors and Docks), XI, b 407-11, b 416; (Mechanics), XV, b 694; classes of (Light), XIV, b 610; earthquake (Geology), X, a b 227; plane, in solids (Elasticity), VII, a b 716; sea (Geology), X, a 237, b 251-2, *a b* 253; force of (Lighthouse), XIV, a 620, a 622; stationary (Acoustics) (Ill.), I, a 103-4; surface tension of (Capillary Action), V, a b 63; (Wave Theory of Light), XXIV, a b 473, a 474-5; tidal (Geology), X, b 250-1; water (Light), XIV, b 610, a 611
- —— of extensible wire (Mechanics), XV, a 751
- Wave theory of gravitation (Attraction), III, a b 57
- WAVE THEORY OF LIGHT, XXIV, a 443-85
  - aberration, influence of, a 458-60
  - achromatism, conditions of, a b 450
  - Airy's white centre theory, b 447-8
  - arbitrary phase, vibrations of, a b 445
  - bands approximately achromatic, b 449-50
- WAVE THEORY OF LIGHT, *continued*
  - central stops in aperture, b 454, b 455
  - circular aperture, a 455-8, a 459
  - circular polarization, b 471
  - colors of crystalline plates, b 475-6
  - colors of thin plates, a 448-50
  - concave gratings, a b 463
  - coronas or glories, a b 458
  - corrugated waves, b 463-5
  - crystalline structures, effects of, b 474-5
  - diffraction by small particles, b 479-81
  - diffraction, source not seen in focus, b 466-9
  - diffusion rings of Newton, b 450-1
  - displacement, double refraction, b 473-5
  - double line image, a b 454, a b 457
  - double refraction, a 473-5
  - dynamical theory of diffraction, b 477-9
  - elastic solid theory of reflection, b 482-4
  - elastic theory, b 443-4
  - electro-magnetic theory, a 444
  - elliptical polarization, a b 471
  - forms of theory, a b 443
  - Fraunhofer's diffraction phenomena, b 452-5
  - Fresnel's rhomb, reflection, a b 484
  - gratings, theory of, b 460-3
  - Huygens' principle, a 451-2
  - hyperbolic propagation bands, a 468-9
  - images by simple aperture, b 459-60
  - intensity, b 444-5
  - intensity in circular aperture, a 456
  - intensity proportional to aperture, b 454-5
  - interference fringes, a 447-8
  - interference of polarized light, b 470-3
  - literature, b 484
  - luminous line image, a b 454, b 456-7
  - optical instruments, resolving power of, b 453-4, b 459
  - plane polarization, a 471
  - plane or spherical approximations, a 446-7
  - plane waves of simple type, a b 444
  - plate reflections, a b 482
  - polarimetry, a b 477
  - polarization, a b 470
  - polarization, diffracted light, a 480
  - prisms, effect of, a 450, a b 460
  - propagation of waves in general, b 445-6
  - rectangular aperture, a 453-5
  - reflection and refraction, b 481-2
  - resolving power of gratings, b 461-2
  - rotary polarization, b 476-7

WAVE THEORY OF LIGHT, *continued*
  ruling in gratings, b 462–3
  secondary wave, corrected law of, b 464–5, a 478–9
  shadow of circular disk, b 469–70
  shadows, theory of, a b 452
  symmetrical axial diffraction, a 469–70
  Talbot's bands, b 465–6
  transmitted light, intensity of, b 480–1
  two dimensions divergence, a 464
  uniform field with straight edge, b 457–8
  unpolarized light, b 471–3
  velocity of light, b 484–5

—— (Huygens), XII, a 432; (Light), XIV, a 584, b 587, b 603, a 608–19; (Optics), XVII, b 821, a b 830
Wave theory, long (Russell, J. S.), XXI, b 72
—— velocity on stretched cord (Mechanics), XV, a b 749
—— -vibrations (Acoustics), I, b 95–6, a 108; (Harmonic Analysis), XI, b 430–1
Wawa, district and town (Borgu), IV, b 64
WAX, fatty substance, XXIV, a 485–6; (Candle), IV, a b 709; (Fuel), IX, a 709; (Histology), XII, a b 19; (Oils), XVII, *b* 761, b 764, b 765
——, Gilding, X, b 530; insect- (Bee), III, b 419–20, b 422, a 423; (China), V, a 551, a 555; (Hymenoptera), XII, a 610 note; mineral- (Ozocerite), XVIII, a b 116; plant- (Botany), IV, a b 78; (Physiology), XIX, a *b* 60; spermaceti (Whale), XXIV, a b 554, a 558; (Whale Oils), *b* 558; vegetable (Japan), XIII, b 584, a 601
Waxed-paper process (Photography), XVIII, b 837
WAX FIGURES, XXIV, a b 486
Waxing (Leather), XIV, a 387
Waxmundska, mountains (Galicia), X, b 23
Wax painting (Encaustic Painting), VIII, a 170–1
—— palm (Forests), IX, a 358
—— tablets (Palæography), XVIII, a 148, a 149, a 151, a 153, a 166; Latin, a b 158–9
WAXWING, bird XXIV, a 486–7; (Birds), III, b 667
"Waxy" (Horse), XII, a *b* 183
—— degeneration of protoplasm (Pathology), XVIII, b 399
"Way, The," name for Christians (Paul), XVIII, b 426
Way, chemist (Liebig), XIV, a b 571; (Manure), XV, b 514, b 515
WAYLAND, Francis, educator, XXIV, b 887–8
——, Francis, Jr., jurist, XXIV, a 888
Waymouth, George, explorer (Polar Regions), XIX, b 329
WAYNE, Anthony, general, XXIV, a b 888
Waynflete, William of, bishop (Oxford), XVIII, b 100
Way of the World (Congreve), VI, a 241
Wayside Crosses, VI, b 541
Way-stations, construction of (Railway), XX, b 245
Waytiers, Barchman, archbishop (Episcopacy), VIII, b 436
Wazan, city (Morocco), XVI, b 860
Wazir. See VIZIER.
Waziri hills (Kohát), XIV, b 136
Wazír Khan, nawáb, physician (Lahore), XIV, b 215
Weald, district (Sussex), XXII, *a* 761
Wealden, ridge (Sussex), XXII, b 760, a *b* 761, a b 762
—— series, cretaceous (Geology), X, *a* 317, a 319; strata (Coal), VI, a 54; (Iguanodon), XII, a 740
WEALTH, XXIV, a 487–8; Bagehot on (Political Economy), XIX, a b 410; Carey's definition of, a 398; Ingram on, b 413; Leslie on, a b 411
—— in Athens (Demosthenes), VII, b 59; in England, VIII, b 633–4; (Nobility), XVII, b 538, a 540, a 541; in United States, XXIII, a 831, a 832; national of Scotland, XXI, a b 559
Wealth of Nations, Adam Smith's (History), XII, b 25; (Hufeland), a 350; (Hume), a 363; (Political Economy), XIX, a 379–83, a 387, b 395, a 396, b 400, a 401, note; (Smith, A.), XXII, a 180, note, *a* 181
Weaning infants (Dietetics), VII, b 174–5
Weapon-firth cycle (Iceland), XII, b 659
Weapons (Arabia), II, b 216; (Borneo), IV, *a* 52; (Ethnography), VIII, a b 542; (Hottentots), XII, a 324; (Kaffraria), XIII, a 829; (Kâfiristân), a b 832; (Micronesia), XVI, b 267; (Oath), XVII, b 718; (Solomon Islands), XXII, a b 266; (Tahiti), XXIII, a 29; Anglo-Saxon (Arms and Armor), II, a 487; Assyrian, II, a 486; Aztec (Mexico), XVI, a 219, a 222; bronze (Arms), II, a 485; Egyptian, a 486; English, b 487; Etruscan, b 486; Frankish, b 486; Greek, b 485–6; Homeric, a 485; mediæval (Ireland), XIII, b 263; modern (War), XXIV, a b 364; Norman (Arms), II, b 487; prehistoric (Metal-Work), XVI, a 77 note; Roman (Arms), II, a b 486; (Inscriptions), XIII, a b 136; Scandinavian (Arms), II, a 487; Stone, II, a 485. See ARMS and ARMOR, SWORD
Wear, river (Durham), VII, b 483
Wear and tear, marine Insurance, XIII, b 193
Weardale ore (Iron), XIII, a 294
Wearing ship (Seamanship), XXI, a b 628
Wearmouth Abbey (Bede), III, *a* b 415; bridge (Bridges), IV, a 300
WEASEL, mammal, XXIV, b 488; (Cockatrice), VI, b 90; (Marten), XV, *a b* 583; hunting (Chinchilla), V, b 585
Weather (Meteorology), XVI, a 119, a 120, a 162–4, b 189; effect of, on Fisheries, IX, *a* 212; on man (Atmosphere), III, b 32–3; (Pathology), XVIII, b 4
——, magnetic (Meteorology), XVI, a 173, b 176, b 178, b 189
—— angle (Windmill), XXIV, *a* 632
—— -boarding (Building), IV, a 408
Weathercock (Andronicus), II, b 22; (Anemometer), II, b 23
Weathering of rocks (Geology), X, b 235–6, a b 238
Weather maps (Climate), VI, b 6; (Meteorology), XVI, b 119–20, a b 162, a 163; (Signal Service), XXII, a 903, a b 904; newspaper (Typography), XXIII, b 750
—— myths (Swithun, St.), XXII, a b 814
—— prayers (Litany), XIV, b 701
—— predictions (Fitzroy), IX, a 238; (Henry, J.), XI, a 602; (Leverrier), XIV, a 487; (Meteorology), XVI, a 163; (Signal Service), XXII, *a b* 904
—— prognostics (Birds), III, b 662–3, b 665–6; (Frog), IX, a 700
—— weights (Hydrometer), XII, b 569
Weaver, poem (Slavs), XXII, b 160
Weaver, river (Cheshire), V, b 511, b 512; (Northwich), XVII, a 588
WEAVER-BIRD, XXIV, a b 489; (Birds), III, *a* 641, a b 642
Weavers, early (Cotton), VI, a b 434; Flemish (Manchester), XV, b 471; (Wool), XXIV, *a* 688
Weaver's knot (Seamanship), XXI, a 619
WEAVING, art (Ill.), XXIV, *b* 489–94
  double cloth (Ill.), a b 493
  figure-weaving, a b 491
  gauze-weaving, b 493
  history of power-loom, a b 492
  introductory, b 489–90
  Jacquard loom (Ill.), b 491–2
  piled fabrics, b 493–4
  plain weaving (Ill.), a b 490
  power-loom (Ill.), b 492–3
  twill-weaving (Ill.), b 490–1
  warping, a 490
—— (Chemnitz), V, b 503–4; (Hawick), XI, a 477; (India), XII, a 800–1, b 802; (Italy), XIII, a b 463; (Leyden), XIV, b 494; (Linen Manufactures), b 673; (Linoleum), b 682; (Masulipatam), XV, b 630; (Persia), XVIII, a 637; (Ribbons), XX, b 546; (Textiles) (Ill.), XXIII, b 223–32; Hindu (Cotton), VI, a b 432–3; (Jute), XIII, b 810; prehistoric (Textiles) (Ill.), XXIII, b 224
Web, textile fabric (Weaving), XXIV, a 490, a 492, a b 493, a 494
Webb, Alexander Samuel, journalist, XXIV, b 888–9
——, F. W., engineer (Steam-Engine), XXII, b 547, b 548
——, Henry Livingston, diplomatist, XXIV, b 888
WEBB, James Watson, journalist, XXIV, b 888
——, Matthew, swimmer (Swimming), XXII, b 809–10
——, Philip Barker, traveller (Troad), XXIII, b 619
WEBB, Samuel Blatchley, general, XXIV, b 888
Webbe, river (Africa), I, b 228
WEBBER, Charles Wilkins, journalist (Walker), XXIV, b 881
Webbing, elastic (India-Rubber), XII, a 883
—— in Micrometer, XVI, b 256, b 257
Weber, river (United States), XXIII, a 847
——, Albrecht Friedrich, philologist (Sanskrit), XXI, a 290 note, a 291 notes, a 292 notes, a b 293 notes, a 296, a 299 note, b 306, notes, b 309, note
——, Aloysia, singer (Mozart), XVII, *a* b 16
WEBER, Carl Maria Friedrich Ernst von, musical composer, a 494–6
  Berlin visit, a 496
  Breslau life, b 494
  childhood, a b 494
  Darmstadt period, a 495
  Dresden period, a 495–6
  English visit, a b 496
  Euryanthe, a 496
  father's career, a 494–5
  Freischütz, b 495–6
  Prague period, a 495
  Stuttgart life, a 495

—— (Mendelssohn), XVI, b 10; (Meyerbeer), b 230–1; (Music), XVII, a b 106; (Spohr), XXII, *b* 426
——, Ernst Heinrich, physicist (Acoustics), I, b 107; (Physiology), XIX, b 26; (Psychology), XX, b 64, b 74; (Touch), XXIII, a b 512, *a* 513; (Vascular System), XXIV, b 105, *a* 106, a 112, a 114, b 117; (Weber's Law), a b 497, a 498
——, Franz Anton von, baron, soldier, XXIV, *a* b 494, *a* 495
——, Gottfried, composer (Metronome), XVI, b 206
——, H. F., physicist (Telegraph), XXIII, b 124 note

Weber, Veit, poet (Germany), X, b 472
——, Wilhelm Eduard, physicist (Electricity), VIII, *a* 11, *a* 12, a 13, *b* 15, *a* b 37, a 63, b 67–8, a 73, b 97, a b 98; (Galvanometer), X, *b* 45, note, a 46, a 49; (Gauss), b 104; (Hydromechanics), XII, a 454; (Magnetism), XV, a b 239, a b 256, *b* 258 notes, b 269, a 273, a 279; (Vascular System), XXIV, b 105, *a* 106
Weber's, Leonhard, apparatus (Mercury), XVI, a 37
WEBER'S LAW, psychophysical, XXIV, b 496–8. See Weber, Ernst Heinrich
Web of girder (Bridges), IV, b 262, b 264, *b* 265
Webs, spider- or snares (Arachnida), II, b 259, a b 260; of peripatus (Myriapoda), XVII, a 124
WEBSTER, Daniel, statesman, XXIV, a 498–500
  Boston legal and oratorical work, b 498
  cabinet experience, a b 499, note
  family and personality, a 500
  New Hampshire life, a b 498
  parentage and boyhood, a 498
  representative in Congress, a 499
  senatorial life, a 499–500
—— (American Literature), I, a 634; (Taney), XXIII, *b* 921; (Taylor, Z.), a 928; (United States), a 813, b 817, b 818
——, Edward, soldier, XXIV, a 500, note
——, Fletcher, colonel, XXIV, a 500
WEBSTER, John, dramatic poet, XXIV, a 500–1; (Dekker), VII, a 35; (Drama), *b* 373, a 374; (Tourneur), XXIII, a 522
WEBSTER, Noah, lexicographer, XXIV, a b 501; (American Literature), I, b 633; (Plague), XIX, a 174, note
WEBSTER, Pelatiah, publicist, XXIV, a 889
WEBSTER, Thomas, painter, XXIV, b 501
——, Thomas, ancestor, XXIV, a 498, note
——, William G., editor, XXIV, b 501 note
Websterite (Mineralogy), XVI, a 418
Wechel family, printers (Sylburg), XXII, b 848; (Typography), XXIII, a 739
Weckherlin, Georg Rudolf, poet (Germany), X, b 474
Wedana, officials (Java), XIII, a 616
Weddahs, race. See VEDDAHS
WEDDERBURN, Alexander, earl of Rosslyn, chancellor, XXIV, *b* 501–3; (George III.), X, a 383; (Londonderry), XIV, a 865; (Loughborough), XV, b 17, note
——, John, poet (Hymns), XII, a 626
——, Peter, jurist, XXIV, b 501, a 502
Wedding ceremonies (Druses), VII, a 419; Ring, XX, a b 576
Weddle's method in Logarithms, XIV, b 786; his rule for curvilinear areas (Mensuration), XVI, b 26
Wedge, solid (Mensuration), XVI, a 29
—— breech system (Gunnery), XI, a 273, b 279–80
Wedgewood, Thomas (Photography), XVIII, b 834, a 837
Wedging, beams (Building), IV, a b 427, b 428, a 431
—— crib (Coal), VI, a 59; machines (Coal), a 64
WEDGWOOD, Josiah, potter, XXIV, a b 503; (Flaxman, J.), IX, a 261; (Glass), X, a 579. See Wedgwood ware
—— institute (Burslem), IV, a 509
Wedgwood's Pyrometer, XX, a 139
Wedgwood ware (Cameo), IV, a 654; (Pottery and Porcelain), XIX, a b 652; (Sculpture), XXI, a 587; (Stafford), XXII, b 459
WEDNESBURY, town, XXIV, b 503; (Stafford), XXII, b 459, a 460
Wednesfield, town (Stafford), XXII, b 459, a 460
WEED, Thurlow, politician, XXIV, a b 889; (Seward), XXI, *a* 744 note
Week, division of time (Babylonia), III, b 165; (Calendar), IV, b 589–90; days of (Astrology), II, b 649; (England), VIII, b 250, note; origin of the (Sabbath), XXI, a b 134–5; in prophecy (Daniel), VI, a 710
Weeka, bird (Ocydrome), XVII, a 743
Weekes, Henry, sculptor (Chantrey), V, b 343; (Sculpture), XXI, b 587
Weekly newspapers (American Journalism), XVII, b 884, b 890; (Newspapers), a b 430; (Periodicals), XVIII, a 547, b 548, a 549, b 555
Weems or Picts' houses (Archæology), II, a b 296; (Orkney), XVII, b 872
——, Mason L., preacher (Washington), XXIV, b 408
Weenix, John Baptist, painter (Hondecoeter), XII, *b* 132
Weeping (Salutations), XXI, b 248
—— Willow, tree, XXIV, a 621
Weert, Jan de, surgeon (Holland), XII, a 94
WEEVER, fish, XXIV, b 503–4; (Ichthyology), XII, *b* 704, b 728
WEEVIL, insect (Ill.), XXIV, a b 504; (Coleoptera) (Ill.), VI, b 114, b 115, a 116, b 120, a 121; (Insects), XIII, b 155–6; (Leeuwenhoek), XIV, a 412; (St. Helena), XXI, a 180; (Vine), XXIV, b 256; (Wheat), a 566; nut (Hazel), XI, a 490
Weft or woof (Textiles), XXIII, b 223, a 224; (Weaving), XXIV, b 489, a *b* 490, *a* 491, a 492, *a* b 493
Wegierski, Thomas Kajetan, poet (Poland), XIX, a b 314
Wegmann's roller-mill (Flour) (Ill.), IX, a 303
Wegscheider, Julius August Ludwig, theologian (Rationalism), XX, a 303
Weguelin, T. M., banker (Banking), III, *b* 285
Wehrlite (Mineralogy), XVI, a 396
Wei, kingdom (China), V, *a* *b* 560
——, river (China), V, a 549, a 551, a b 554; (Segan Foo), XXI, *a* 653
—— -chaou Wang, Kin emperor (China), V, b 561
Weidenbach's *Tafeln um den Logarithmen* (Tables), XXIII, b 17
Weidenger, musician (Trumpet), XXIII, a 631
Weidler, Johann Friedrich, astronomer (Ptolemy), XX, *a* 92, note
Weigel, Erhard, mathematician (Pufendorf), XX, a 105
——, Valentin, mystic (Boehme), III, a b 741; (Mysticism), XVII, *b* 141–2
Weighing, complications of (Weights and Measures), XXIV, a 506
Weighing Anchor, II, a 9
—— -machines (Agriculture), I, a 291; (Mechanics), XV, b 781–2
Weight, organ of (Phrenology), XVIII, b 859; standards of (Weights and Measures), XXIV, b 513–6; unit of, *a* 505, note
—— -modulus (Elasticity), VII, a b 700
—— of bodies, comparative, Table of (Hydrometer), XII, a b 574
—— of continents (Tides), XXIII, a 399
—— of Ivory, XIII, b 531–2
—— of marine engines, ratio to power (Steam-Engine), XXII, b 546–7
—— of materials, comparative (Bridges), IV, b 257
WEIGHTS AND MEASURES (Tables), XXIV, a 505–18
  bibliography, b 507, a 517, b 518
  COMMERCIAL, a 517–8
    British system, a b 517
    conversion tables, modern nations, a b 518
    Metric system, b 517–8
  HISTORICAL, b 507–17
    area standards, a 512
    Asiatic foot, b 511–2
    Asiatic volume standards, b 512–3
WEIGHTS AND MEASURES, *continued*
  HISTORICAL
    coinage, connections with, b 509
    connection of length, volumes and weights, a b 509
    cubits and digits, a 510–3
    difficulties, a 508
    Egyptian units of volume, a b 512
    English and French standards abolished, a 517
    Greek volumetric standards, a b 513
    Gythium volumetric standards, b 513
    Hebrew standards of volume, a b 514
    legal regulation, b 509–10
    length standards, a 510–7
    materials for study, a b 508
    names of units, a 510
    principles of study, b 508–10
    standards of volume, a 512–3
    transfer of units, a 509
    variation of standards, b 508–9
    weight standards, b 513–7
  SCIENTIFIC, a 505–7
    equivalents, b 507
    French standards, a b 507
    British standards, b 506–7
    atmospheric influence, a b 506
    water expansion influences, b 506
    temperature, b 505–6
    comparisons, a b 505
    standards, a 505
    units, a 505
—— (Abbreviations), I, b 33; (Arbuthnot), II, b 284; (Arithmetic), a b 468; (Burmah), IV, b 495; (Canton), V, b 34–5; (Denmark), VII, a 72; (Egypt), a 683; (France), IX, b 464; (Germany), X, b 401 note, b 406 note; (Greece), XI, b 80; (Japan), XIII, b 578, note; (Liberia), XIV, a 508; (Nepal), XVII, b 351; (Phœnicia), XVIII, b 817, a 819; (Sale), XXI, b 218; (Siam), b 891
Weight Thermometer, XXIII, b 309
Weihnachtsfeier, dialogue (Schleiermacher), XXI, a 428
Weil, Gustav, orientalist (Mohammedanism), XVI, b 588
Wei-lëĕ, Wang emperor (China), V, a 559
WEIMAR, city, XXIV, a b 519; (Academy), I, a 72; (Herder), XI, b 650, a 651; (Saxe-Weimar-Eisenach), XXI, *b* 364, a *b* 365; duchy

Weimar, *continued* (Jena), XIII, b 631; court of (Goethe), X, a b 648, *a* 649, a *b* 651, b 652, a 653
Weinhold, physicist (Pyrometer), XX, b 135, a b 138, a *b* 139
Wei-ning Chow, district (China), V, *a* 557
Weinmann or Weisemann, Sebastian, preacher (Luther), XV, a 73
Weinsberg, town (Kerner), XIV, a 52
Weirs (Hydromechanics), XII, b 493-5, a b 496, a b 528, b 549; (River Engineering), XX, *b* 588-90; (Water-Supply), XXIV, b 429; gauging (Hydromechanics) (Ill.), XII, b 499-500; separating (Ill.), a b 496; waste (Canal), IV, b 693
Weir's feed-heater (Steam-Engine), XXII, b 522; hydrokineter, b 522
Weisbach, Julius, engineer (Hydraulics), XII, b 454, *a* 484, a 492, b 499, a b 505, b 509, *a* b 512, b 518, a 552
Weise, Christian, author (Drama), VII, a 381
Weisenthal, Charles F., inventor (Sewing-Machines), XXI, a 754
Weishaupt, Adam, mystic (Illuminati), XII, a b 745
Weismann, August, zoologist (House-Fly), XII, a 331; (Hydrozoa), b 588 note; (Reproduction), XX, b 420, b 426, a 429; (Siredon), XXII, a *b* 104, a 105; (Variation and Selection), XXIV, b 88, note, a 91; (Zoology), b 856, a b 857
Weiss, Christian Samuel, mineralogist (Crystallography), VI, *b* 596, *a* 597, *a* 598, a 599; (Mineralogy), XVI, *b* 364
——, Michael, poet (Hymns), XII, a b 620
Weiss-bier (Brewing), IV, b 236
Weisse, Christian Felix, author (Drama), VII, b 381; (Germany), X, a b 477
Weisse, C. H. (Æsthetics), I, b 196
Weissenberg or White Mountain, battle of, 1620 (Bohemia), III, a 648; (Wallenstein), XXIV, a 349
WEISSENFELS, town, XXIV, b 519
Weissenstein mountain (Soleure), XXII, b 263
Weissite (Mineralogy), XVI, a 436
Weisskugel, mountain (Alps), I, a 546, *b* 553
Weiss Kunig, poem (Germany), X, b 472; (Maximilian I.), XV, b 651
Weiss's *Matthäusevangelium* (Gospels), X, a 713, a b 716, note, a b 748
Weisswasser, stream (Elbe), VII, a 717
Weizsäcker, critic (Romans), XX, *a* b 748
Weje-gi, pueblo (Pueblo Indians), XX, b 887
Welamestun, town (Walthamstow), XXIV, a 361
Welcker, Friedrich Gottlieb, philologist (Diez), VII, b 185; (Homer) XII, a 120, a 125; (Sappho), XXI, b 317-8
Welcombe, village (Shakespeare), XXI, b 780
Welcome, Mount (Africa), I, a 225
Weld, Sir Frederick, author (Straits Settlements), XXII, b 615, a b 616
WELD, Theodore Dwight, abolitionist, XXIV, b 889
Welding (Iron), XIII, b 284, b 288
Weldon, Sir Antony, courtier (Kite), XIV, b 105 note
"Weldon's process," Walter (Chlorine), V, a b 590; (Manganese), XV, a 488
—— rangefinder (Telemeter), XXIII, a 137
Weld steel (Iron), XIII, b 288
Welfs, party. See Guelfs
Welhaven, Johann Sebastian Cammermeyer, poet (Norway), XVII, a 605
Weliz, town. See VELIZH
Welland, river (Lincoln), XIV, a 661; (Northampton), XVII, a 569; (Rutland), XXI, b 122
—— canal (St. Lawrence), XXI, a b 188-9
Well-boats (Cod), VI, a 95
Welle, river (Soudan), XXII, *b* 290
Welle-Makua, river (Zaire), XXIV, *b* 802
WELLES, Gideon, statesman, XXIV, b 889-90
Wellesley, island (Carpentaria), V, a 112
——, province (Prince of Wales Island), XIX, a 761; (Straits Settlements), XXII, a *b* 615
——, Henry (Anthology), II, *b* 93
WELLESLEY, Richard Wesley or Wellesley, marquis of, XXIV, b 519-20; (India), XII, a 843-4; (Newspapers), XVII, *b* 443; (Pitt), XIX, a 158
—— college (Women), XXIV, 912
Wellhausen, Julius, critic (Decalogue), VII, *a* 17, note; (Israel), XIII, b 413, b 441; (Judges), a b 773, b 774, note; (Samuel), XXI, a 266. See List of Contributors
WELLINGBOROUGH, town, XXIV, b 520-1; (Northampton), XVII, a 570
"Wellings up," chromosphere (Sun), XXII, b 680
Wellington, island (Patagonia), XVIII, a 357
——, Mount (Hobart Town), XII, a b 32
WELLINGTON, town, New Zealand, XXIV, a b 521; (Newspapers), XVII, a 449; (New Zealand), a *b* 480, a b 483
WELLINGTON, town, Shropshire, XXIV, a 521
WELLINGTON, town, Somerset, XXIV, a 521
WELLINGTON, Arthur Wellesley, Duke of, and marquis of Wellesley, XXIV, b 521-7
  ambassadorships, b 524, a b 525
  authorities, a 527
  Canning administration, a 526
  French occupation, b 525
  Hundred Days, b 524-5
  Indian service, b 521-3
  last years, a 527
  Mahratta war, a 522-3
  Mysore war, a 522
  Peninsula war, a 523-4
  premiership, b 526-7
  Sindh war, b 522-3
  Spanish invasion, a b 524
  Talavera battle, a b 523
  Torres Vedras siege, b 523-4
  Verona Congress, b 525-6
  youth, b 521
—— (Argam), II, b 428; (Army), *a* 501; (Assaye), a 633; (Badajos), III, b 192; (Balance of Power), b 234; (Battle), *b* 384; (Berar), a 594; (Chartism), V, a 376; (Ciudad Rodrigo), b 695; (Combermere), VI, *a* 162; (Dalhousie), b 684, a 687; (Duel), VII, a 444; (Fortification), IX, b 380-1; (France), b 542, a b 543, a 544; (Fuenterrabia), a 711; (Goya), XI, a 21; (Grey), b 170, *a b* 171; (Hardinge), a 424; (Huskisson), XII, a b 419; (India), a 843-4; (London), XIV, a 862; (Londonderry), b 865; (Moore, Sir J.), XVI, a b 831
—— (Napoleon I.), XVII, b 221, a 223, b 230-1, b 232; (Oporto), a 819; (Palmerston), XVIII, a 198; (Parliament), b 314; (Peel), b 465-6; (Pitt), XIX, a 158; (Portugal), *b* 566, *a* b 567; (Raglan), XX, *a* b 227; (Soult), XXII, *b* 293; (Spain), *b* 358; (Surveying), b 731; (Talavera), XXIII, b 30; (Talleyrand), a 37; (Tarleton), a 923; (Turkey), b 691; (War), XXIV, a 367, a 370, a 373, b 375
—— monument (Dublin), VII, b 732
—— monument, St. Paul's (Sculpture) (Ill.), XXI, b 587, a b 588, note
Wellingtonia, tree. See Sequoia
Well of youth (Mandeville), XV, b 480
Wells, David Ames, economist (Taxation, United States), XXIII, a 927; (United States), b 824
WELLS, Horace, dentist, XXIV, a b 890; (Anæsthesia), I, b 692-3
——, Sir Thomas Spencer, physician (Surgery), XXII a *b* 726, note
——, William Charles, physician (Medicine), XV, b 825; (Variation and Selection), XXIV, a 84
WELLS, city, XXIV, b527-8; cathedral (Sculpture), XXI, a 585
Wells (Arabia), II, a 230; (Kordofan), XIV, b 141; (Somerset), XXII, *a b* 272, *a* 273; (Water-Supply), XXIV, a 426-7
——, artesian. See ARTESIAN WELLS
WELLS, NATURAL GAS, XVIII, b 894-5; (Gas-Lighting), X, a *b* 79
——, Petroleum, XVIII, a 726, a 727, b 729, b 730, a b 731; flowing (Ill.), a 731; pumping (Ill.), b 730
——, pier (Bridges), IV, b 295
——, symbolism of (Gospels), X, a b 740, b 742
Welpe, Yso von, bishop (Brasses), IV, b 197
Wels, fish (Siluridæ) (Ill.), XXII, b 74
Welsh, Mr. (Aëronautics), I, b 174, b 175, a 176
——. people, in Argentine Republic, II, a 435
——, use of the term (England), VIII, a 244; (Vlachs), XXIV, a 288
—— border war (Shakespeare), XXI, b 779-80
—— Calvinistic Methodists, XVI, a b 201
—— Cambrian system (Geology), X, b 291-2
—— Cattle, V, b 213, *a* 214; (Agriculture), I, b 345
—— Dictionaries, VII, a 163
—— Dinas brick (Iron), XIII, b 301
—— festivals (Eisteddfod), VII, a 686-7
—— groining (Architecture), II, a 409
—— Harp (Ill.), XI, b 437, a 438
—— historians (Celtic Literature), V, b 273-4, b 284
—— language (Celtic Literature), V, *b* 258-9; (Europe), VIII, a 615; (Gaelic), X, b 8, a 9; (L), XIV, a 164
—— Laws (Primogeniture), XIX, b 753, b 754
—— legends (Celtic Literature), V, a b 261; (Nennius), XVII, b 341
—— literature (Celtic Literature), V, b 272-80, b 284-5; (Jones, O.), XIII, b 749
—— monks (Monachism), XVI, b 732, a 741
—— poetry (Celtic Literature), V, a 274-8; (English Literature), VIII, b 364
WELSHPOOL or Pool, town, XXIV, a b 528
Welsh Romani speech (Gipsies), X, b 547-8
—— Silurian system, upper (Geology), X, b 295-6, a 298
—— Triads (Celtic Literature), V, a b 261, a 271; (Pheasant), XVIII, b 745 note
—— Universities, XXIII, a 912
—— Wools, XXIV, a 690
Welt als Wille und Vorstellung (Schopenhauer), XXI, b 471-3, b 474, b 475; (Pessimism), XVIII, b 698, b 704
Weltseele Von der (Schelling), XXI, a 407, b 409

Welwitschia plant (Histology), XII, a 18; (Vegetable Kingdom), XXIV, b 142, a 143
"Wen," symbol (W), XXIV, a 324
Wenatchee, mountains and river (Washington), XXIV a 406, a 407
WENCESLAUS, emperor, XXIV, b 528–9; (Germany), X, b 444; (Huss), XII, a b 420; (Hussites), b 422; (Zug), XXIV, b 865
——, king (Poland), XIX, b 299
——, Clemens, archbishop (Treves), XXIII, a 588
Wen Ching, princess (Lāmāism), XIV, b 229
Wendenburg (Anklam), II, b 53
Wendish Dictionaries, VII, b 163; literature (Slavs), XXII, a b 163
—— Switzerland (Livonia), XIV, a 730
Wends, race (Albert the Bear), I, b 399; (Lübec), XV, a 34; (Saxony), XXI b 368; (Slavs), XXII, b 153, b 154, a 155, a 156, b 157, b 159; Sorbian (Chemnitz), V, *a* 504
Wenelon of Sens, bishop (Roland), XX, b 641
Wenham, Jane, witch (Witchcraft), XXIV, a 655
Wenham, optician (Microscope), XVI, b 273, a 275; his illuminator (Ill.), b 283–4; stereoscopic binocular Microscope (Ill.), b 284–5
Wenham's aëro-planes (Flight) (Ill.), IX, b 282, a 283
—— gas engine (Steam-Engine), XXII, b 550
WENLOCK or Much Wenlock, town, XXIV, a 529; (Abbey), I, b 21; (Shropshire), XXI, *b* 887
—— Edge, range (Shropshire), XXI, b 886, a 887
—— group, rocks (Geology), X, b 296–7
Wens (Pathology), XVIII, b 387
Wensleydale, valley (York), XXIV, *a b* 784
——, James Parke, lord (Parliament), XVIII, b 312; (Peerage), a b 477
Wensum, river (Norwich), XVII, b 608
WENTWORTH, family, XXIV, b 890
——, Benning, governor, XXIV, b 890
——, Sir Charles May, baronet, XXIV, a 891
——, Hunking, patriot, XXIV, a 891
——, Sir John, governor, XXIV, a 891
——, John, 1st, publicist, XXIV, b 890
——, John, 2d, judge, XXIV, b 890–1
——, John, 3d, governor, XXIV, a 891
——, John, 4th, jurist, XXIV, a b 891
——, John, 5th, mayor of Chicago, XXIV, b 891
——, Tappan, lawyer, XXIV, b 891
Wentworth, Thomas. See STRAFFORD
——, William, preacher, XXIV, b 890
WENZEL, Karl Friedrich, metallurgist, XXIV, a b 529; (Chemistry), V, a b 401, a 403
——, H., orientalist (Tibet), XXIII, b 368 note
Weobley, town (Hereford), XI, b 652, b 653
Wepfer (Anatomy), I, a 712
Werberg, St., Life of (Bradshaw), IV, b 179
WERDAU, town, XXIV, b 529
Werder, island (Magdeburg), XV, a 198
——, General von (Gray), XI, b 68
Werders, drained land (Hamburg), XI, b 360, note
Werder testing machine (Strength of Materials), XXII, a 626
Were-wolf (Lycanthrophy), XV, a 90–3
Wergeland, Henrik Arnold, poet and prose writer (Norway), XVII, b 604–5; (Scandinavian Languages), XXI, a 390
——, Nikolai (Norway), XVII, b 604
Wergeld, fine (Damages), VI, b 693, note; (England), VIII, a b 250; (Germany), X, b 425; (Salic Law), XXI, a 224
Werinorum Lex (Salic Law), XXI, b 225
Wermland's Laen (Carlstad), V, a 100
Werner, count (Hapsburg), XI, a 405
WERNER, Abraham Gottlob, geologist, XXIV, b 529–30; (Jameson, R.), XIII, a 573
WERNER, Friedrich Ludwig Zacharias, poet, XXIV, a 530; (Germany), X, a 485
——, F. X., theologian (Hermes, G.), XI, a 671
——, Johann, of Nuremberg (Astronomy), II, a 657; (Navigation), XVII, a 258
——, O., statistician (Roman Catholic Church), XX, a 644
Werner's process (Encaustic Painting), VIII, b 170–1
Wernicke, Christian, epigrammatist (Germany), X, a 476
WERNIGERODE, town, XXIV, a b 530
Werra, river (Saxe-Meiningen), XXI, *a* 364; (Saxe-Weimar), a 365; (Weser), XXIV, a *b* 531
Wertheim, physicist (Acoustics), I, *a* 98; (Elasticity), VII, a b 707, 708, b 709; his experiments (Metals), XVI, b 70 *sq.*
Werther, romance (Goethe), X, b 644, *a* b 646, a 653; (Germany), b 478, a 481
WESEL, town, XXIV, b 530
WESEL, John Kuchrath, humanist, XXIV, b 530–1
WESER, river, XXIV, a b 531 (Germany), X, a 403, a b 404, b 411, b 420; (Hameln), XI, b 365; (Hanover), b 398, a 399; (Westphalia), XXIV, *a b* 545; battle of, 16 (Germanicus), X, 400
—— Hills (Weser), XXIV, a 531; (Westphalia), a 545
WESLEY, English family, XXIV, b 531–2
——, Charles, hymnologist, XXIV, a 532; (Hymns), XII, b 628, a 629; (Methodism), XVI, b 192, b 193, a 194, b 195
——, Charles, 2d, musician, XXIV, b 531
WESLEY, John, divine, XXIV, b 531–2; (Bengel), III, a 494; (Birmingham), b 679; (England), VIII, b 318 9; (Hymns), XII, b 628, a 629; (Methodism), XVI, b 192, a 196; (Spangenberg), XXII, b 382; (Whitefield), XXIV, *b* 582, *a* 583
——, Samuel, 1st, divine, XXIV, b 531
——, Samuel, 2d, teacher, XXIV, b 531
WESLEY, Samuel, 3d, musical composer, XXIV, b 532
——, Samuel Sebastian, musician, XXIV, b 532
Wesleyan Methodist Association, XVI, a b 198, b 200; (England), VIII, a 224
—— Reform Union (Methodism), XVI, a 201
Wesleyans, sect. See Wesleyan Methodist Association
Wesleyan university (Connecticut), VI, b 257; (Middletown), XVI, b 295–6
Wesling, John, anatomist (Anatomy), I, a 711
Wessel, J. H., poet (Denmark), VII, *a* 80
WESSEL, Johann, or Wesselus Gansfortius, theologian, XXIV, b 532–3; (Reformation), XX, *b* 337, note
Wesselényi, Miklos or Nicholas baron, statesman (Hungary), XII, b 385; (Kölcsey), XIV, a 138
Wessenlenyl's plot (Hungary), XII, b 384 note, b 395
Wessex, kingdom (Alfred), I, *a* 447; (Egbert), VII, a b 603; (England), VIII, a *b* 244, a b 245, b 255–7; (Hampshire), XI, a 386; (Northumberland), XVII, a b 584; (Wight), XXIV, b 593
West, settlement of the (United States), XXIII b 801, b 805, a 810, a b 811, a 812, b 813, a 814
——, river (Labrador), XIV, a 176
WEST, Benjamin, painter, XXIV, a b 533
——, Sir Edward, judge (Political Economy), XIX, b 387
——, E. W., orientalist (Pahlavi), XVIII, a 140 note, b 140
——, Richard (Gray, Thomas), XI, a 70
WESTALL, Richard, painter, XXIV, b 533–4
——, William, painter, XXIV, a 534
WEST BAY CITY, XXIV, a 534
Westborough, Massachusetts (Prison Discipline), XIX, a 784
Westbourne, district (London), XIV, b 827, a 830
WEST BROMWICH, town, XXIV, a 534; (Stafford), XXII, *a* 460
Westbrook, Harriet, or Mrs. Shelley, XXI, a *b* 827, *a b* 828–9
Westbury, town (Wilts), XXIV, b 625, *a* 626, a 627
WESTBURY, Richard Bethell, Baron, chancellor, XXIV, a b 534; (Chancery), V, b 338; (Copyright), VI, b 321
West Calder, town (Edinburgh), VII, *a* b 571
West Cheap, street (London), XIV, *a* 834
WEST CHESTER, town, XXIV, b 534; (Pennsylvania), XVIII, a 510
Westcott, Brooke Foss, theologian (Gospels), X, a b 717, note, a 719, *a* 724, b 726, *b* 728, note, a 730, b 734, note, a 738 note, b 746 note, a *b* 748, *a* 749; (John, Epistles of), XIII, b 718, a 719, b 720
WEST DERBY, town, XXIV, b 534
West End (London), XIV, a 859, a b 861, a 862
Westendarp, statistics (Ivory), XIII, b 531, note, a b 532
Westerbaen, Jakob, poet (Holland), XII, a 98
Westergaard, Niels Ludwig, orientalist (Zend-Avesta), XXIV, *b* 816
Westerland, bathing place (Sylt), XXII, a 849
Westermann, François Joseph, general (France), IX, a 534
WESTERN AUSTRALIA, colony, XXIV, b 534–7
  chorography, b 534-5
  climate, a 535
  farm industries, b 535–6
  flora and fauna, a b 536
  geology, a b 535
  history, a 537
  minerals, b 535
  organization, commercial and civil, b 536-7
—— Company (Louisiana), XV, *a* 24
—— Empire (Renaissance), XX, b 393, a b 394
—— epic poetry, XIX, a b 281
—— isles of Scotland (Hebrides), XI, a 542; (Iona), XIII, a 210; poetry of (Ireland), a b 757
—— monasticism (Monachism), XVI, a 728, b 741
—— Press Association (American Journalism), XVII, a 885
—— railways (United States), XXIII, a b 831
—— Sayans, mountains (Yeniseisk), XXIV, a 779
—— Tract and Book Society, XXIII, a 526 note
—— Union Telegraph Company (Patents), XVIII, a 883; (United States), b 879
Westerwald, range (Germany), X, a 403; (Nassau), XVII, b 244
Westfield, steamer (Renshaw), XX, a 905

WEST HAM, suburb, XXIV, a b 537; (London), XIV, a 827, *b* 833; Park (London), *b* 833
WEST HOUGHTON, town, XXIV, b 537
—— India Company (New York), XVII, *b* 466; French (Grenada), XI, a 165; New Dutch (Guiana), XI, b 224
—— India Cotton, VI, a 430
West Indian, The, comedy (Cumberland, R.), VI, a 622
West Indian birds (Tody), XXIII, a b 460, note; gum (India-Rubber), XII, a 879
WEST INDIES (Plates XI, XII), archipelago, XXIV, b 537–40
  climate, a 539
  fauna, b 539–40
  flora, a 540
  geology and minerals, b 539
  history, b 537–8
  physical features, b 538–9
  situation, b 538
  table of islands, b 538
—— (America), I, a b 627; (Buccaneers), IV, a 367–9; (Columbus), VI, a 155, note; (Coolie), *b* 297–8; (Cotton), b 443, a 444; (Denmark), VII, *b* 73; (Episcopacy), VIII, a 437; (Fire), IX, a 204; (Holland), XII, a 72; (Ichthyology), b 671; (Madeira), XV, b 181; (Missions), XVI, a 540; (Negro), XVII, b 328, note; (Newspapers), b 447; (Pearl), XVIII, b 458, a 459; (Reptiles), XX, a 485; (Societies), XXII, b 234; (Spain), a b 341; (Yaws), XXIV, b 768, *a* b 769; (Yellow Fever) *b* 771, b 772, a 773; avifauna (Birds), III, a 644, a 646; (Ornithology), XVIII, b 20; coins of (Mint), XVI, a 505; fauna (Distribution), VII, a 234, a 237, a b 238; *History of* (Edwards, B.), 597; modern slave trade (Slavery), XXII, *b* 149–50; trade with (Canada), IV, *b* 686
Westinghouse brake (Railway) (Ill.), XX, b 259–60
—— -engine (Steam-Engine), XXII, b 540
West Jersey, colony (Quakers in United States), XX, b 892. See NEW JERSEY
Westkappel, village (Holland), XII, a 62, b 63; dyke (Holland), a b 62
Westland (Holland), XII, b 62
West Lothian, county (Linlithgow), XIV, b 675–7
WESTMACOTT, Sir Richard, sculptor, XXIV, a b 540; (Sculpture), XXI, b 587
Westmacott's patent cement (Building), IV, a 411
Westmann's kiln (Iron) (Ill.), XIII, a b 298
WESTMEATH, county, XXIV, b 540–1
Westminster, part of London (City), V, b 695; (Libraries), XIV, a 516, b 545; (London), a b 827, *b* 829, *a b* 830, *a b* 831, a 832, a b 834, a 835, a 836, a b 842, *a* b 843, a *b* 844, b 846, a 847, *b* 853, *b* 855, *a* b 856, b 858, *a* 859; bishopric (Middlesex), XVI, b 292; St. Stephen's chapel (London), XIV, b 854; (Schools of Painting), XXI, a 468
Westminster, Statutes of (Commons), VI, a b 187; (Coroner), *b* 381; (Theft), XXIII, a b 251; (Wreck), XXIV, b 722
Westminster Abbey, I, a 20; (Building), IV, b 424, b 425; (Cloister), VI, a *b* 36; (Coronation), b 380; (Edward III.), VII, a 592; (Effigies), b 602; (London), XIV, a 833, b 838, a b 847–8, *b* 853–4, b 855, b 856, b 861; (Mosaic), XVI, a b 881; (Mural Decoration), XVII, b 51; (Sanctuary), XXI, a 268; (Sculpture) (Ill.), *a b* 585, notes, *a b* 586, b 587, b 588 note; (Stanley), XXII, a b 469; (Torrigiano), XXIII, b 482, note
—— Assembly, 1643 (England, Church of), VIII, b 338; (Erastus), a 459; (Festivals), IX, a 103; (Free Church of Scotland), b 655; (Gataker), X, b 97; (Gillespie), a 535; (Independents), XII, a b 765; (Milton), XVI, a 342, a 344; (Presbyterianism), XIX, a 707–8, a 718; (Usher), XXIV, a 25. See Westminster *Confession*
—— bridge (Bridges), IV, a 300, a 308; (London), XIV, a 832, a 835, a b 861
—— Catechisms, V, a 192
—— Clock, VI, a 13, b 16, a 17, b 19, b 21, a 22, a 23, a 27, a b 29, *a* 30, *b* 31, *a* 33, a 34–5
—— Column (London), XIV, b 849
—— *Confession* (Canon), V, b 14; (Creeds), VI, a 500; (Predestination), XIX, a 688 note, b 690; (Theology), XXIII, b 285. See Westminster Assembly.
—— Free Library (Libraries), XIV, b 515
—— Hall (Architecture), II, b 409, b 412; (Building), IV, b 401; (Cornelius), VI, b 374; (London), XIV, b 848, a b 849, a 856; roof of (Wood-Carving), XXIV, a b 860 note
—— Palace (Barry), III, b 344; (Mural Decoration), XVII, a b 52–3
—— Parliament, XVIII, b 310, a 311
—— petition (Fuller, T.), IX, a 715
Westminster Review (Bentham), III, a 497; (Martineau), XV, b 590, *a* 591; (Mill, James), XVI, b 319; (Mill, J. S.), a 324; (Periodicals), XVIII, a 547; (Thompson), XXIII, b 331
—— school (Busby), IV, b 511; (Cowper), VI, a 473; (Education), VII, a 584; (Rowing), XXI, a 36
WESTMORLAND (Plate XIII), county of England, XXIV, b 541–4
  civic and popular features, a b 544
WESTMORLAND, *continued*
  climate, b 543
  fauna and flora, b 543
  geology, a 542–3
  history, b 544
  industrial life, a 544
  minerals, b 543–4
  physical features, b 541–2
—— (Domesday), VII, a *b* 303
Weston, Edward Payson, pedestrian (Dietetics), VII, a 176, note
——, Sir Richard (Agriculture), I, a 265
Weston's automatic coupling (Lifts) (Ill.), XIV, a b 580
WESTON-SUPER-MARE, watering place, XXIV, b 544–5; (Somerset), XXII, b 271, a 272
West-östlicher Divan (Goethe), X, b 654
Westphalia, kingdom, (Hesse-Cassel), XI, b 696; (Napoleon I.), XVII, b 217, a 222
WESTPHALIA, province, XXIV, a b 545; (Fehmic Courts), IX, b 56; (Prussia), XX, a *b* 18, a *b* 19, *b* 20, b 21, a 23; (Saxony), XXI, a 367, *a* 368
——, Congress of, 1645, VI, a b 239
——, Peace of, 1648 (Austria), III, a 110; (Concordat), VI, b 215; (Diet), VII, b 173, a 174; (Germany), X, a *b* 449; (Hanseatic League), XI, a 404; (Innocent X.), XIII, a 92; (Mazarin), XV, a 659; (Metz), XVI, a 212; (Osnabrück), XVIII, a b 59; (Würtemberg), XXIV, a 738
——, John de, printer (Typography), XXIII, b 729, a 739
Westphalian basin (Coal), VI, a 52, b 53
—— dialects (Germany), X, a 467
Westphal's Comet, VI, a 173
—— specific gravity steelyard (Balance), III, b 226
West Point, town, Georgia, X, *a* 391, b 392, a 393, b 394
—— Point, New York (Hudson River), XII, b 645; (New York), XVII, b 467; (United States), XXIII, b 836
WEST POINT Military Academy, XXIV, b 545, b 891–2; (Army), II, a 541; (Libraries), XIV, a 554; (Thayer), XXIII, a 938; (Williams), XXIV, a 900
WEST PRUSSIA, province, XX, *b* 24–5
West Riding, district (York), XXIV, *b* 783, a *b* 784, *a b* 785, *a* 786
West River, Maryland, settlement (Quakers), XX, b 892
Westrop, Henry, symphonist (Music), XVII, b 104
West Sayan mountains (Siberia), XXII, *a* 7
Weststellingwerf, town (Friesland), IX, a 690
WEST TROY, village, XXIV, b 545–6
Westville, suburb (New Haven), XVII, a 404
WEST VIRGINIA, State (Plate VII), XXIV, a 546–8; (Mineral Waters), XVI, b 455, a 456; (Petroleum), XVIII, a b 727, b 731; (Universities), XXIII, a 913, a b 958; history (United States), b 823, a 825; statistics (United States), b 853, a 854, a 860, *b* 864, *a* 866, b 870, b 876; topography (United States), b 844, b 845
Westward Ho, novel (Kingsley), XIV, *a* 91
Westwood, John Obadiah, entomologist (Arachnida), II, b 244 note, a 245, note; (Crustacea), VI, b 568; (Insects), XIII, b 153, b 155, b 160
Wet-bulb thermometer (Diffusion), VII, a 189–90
—— docks (Harbors and Docks) (Plate XI), XI, b 416–20
—— gilding (Gilding), X, b 530
Wetherell, Sir Charles, politician (Campbell), IV, b 669, b 670 note
——, Elizabeth, pseudonym (Warner, S.), XXIV, a 884
Wet method of analysis (Iron), XIII, b 294–6
—— mountains (Colorado), VI, b 145
Wetness of steam, calculation of (Steam-Engine), XXII, b 507, b 512–3
Wet process (Copper), VI, b 308, b 310–1, b 312; (Metallurgy), XVI, a 63, a 68
—— purifier (Gas and Gas-Lighting), X, b 84
—— steam (Steam-Engine), XXII, b 503, a 506 note, b 507. See Wetness
WETSTEIN, John Jacob, theologian and philologist, XXIV, b 548–9; (Alexandrian MS.), I, b 438, a 439; (Bengel), III, b 493, a 494; (Bible), b 560
Wette, De, theologian. See DE WETTE
Wetterbergh, Karl Anton, novelist (Sweden), XXII, b 796
Wettin line (Saxony), XXI, *b* 368, a 369
Wetzlar, district (Goethe), X, a b 646; (Prussia), XX, a 25
Wetzstein mountain (Thuringia), XXIII, a 353
WEXFORD, county, XXIV, a 549–50; town, *a* b 550–1; harbor, *b* 549, *b* 550
Wexionius, Olof, poet (Sweden), XXII, a 793
Wey, river (Surrey), XXII, a b 729
Weybridge, suburb (Surrey), XXII, a b 729
Weyden, Rogier van der, elder, painter (Gossart), X, *b* 749; (Massys), XV, *b* 627; (Memling), *b* 854; (Schools of Painting) (Ill.), XXI, a 458, b 463
——, Roger van der, younger, painter (Schools of Painting) (Ill.), XXI, a b 458, note, b 463, b 465
Weyhill, village (Andover), II, b 18

Weyl's method of analysis (Iron), XIII, b 295
WEYMOUTH, town, XXIV, a b 551; (Dorset), VII, b 320, a 321, b 322
—— Pine, XIX, b 114; (Arboriculture), II, b 277, a 280; ovule of (Botany), IV, b 132
Weyprecht, Karl, explorer (Geography), X, a 175; (Polar Regions), XIX, b 335-6, b 338, a 339
Weyse, Christoph, composer Denmark), VII, b 82
WHALE (Ill.), mammal, XXIV, b 551-8
  characteristics, b 551-2
  FISHERIES, a 555-8
    America, a b 557
    appliances, a b 555
    Davis Strait, a b 556
    Greenland, a b 556
    history, a 557
    Hudson Bay, b 556
    hunting, b 555-6
    Norwegian, b 557-8
  literature, a 558
  MYSTACOCETI, a 552-4
    Balæna (Ill.), a 552-3
    Balænoptera (Ill.), b 553-4
    bowhead genus, b 552
    Greenland genus (Ill.), a b 552
    humpback genus, a b 553
    megaptera (Ill.), a b 553
    Rorqual or finwhale (Ill.), b 553-4
    Southern right whale, b 552-3
  ODONTOCETI, a 554-5
    Beluga or white whale, b 554
    bottle-nosed genus, a b 554
    fossils, b 554-5
    pilotwhale, b 554
    sperm whale (Ill.), a 554
  place of, b 551
—— (Ambergris), I, b 580; (Anatomy), b 719, a 720, b 722, b 725; (Atlantic Ocean), III, b 24; (Crustacea), VI, a 588; (Digestive Organs), VII, a 202; (Distribution), a 244; (Greenland), XI, a 533; (Mammalia), XV, a 396-403; (Spitzbergen), XXII, b 424, a 425; (Zoology), XXIV, b 923; bone deposits (Pacific Ocean), XVIII, a 128, a 130, a 131; feeling in (Touch), XXIII, b 509; fossil (Archæology), II, b 294, b 296; pilot (Mammalia) (Ill.), XV, a 376, a 403; right (Mammalia), b 140, a b 141; sperm (Mammalia), b 399; (Spermaceti), XXII, b 410-1; toothed (Mammalia), XV, b 369, a 375, b 396, a 399-403; whalebone (Mammalia), a 369, b 376, b 397-8; white (Mammalia) (Ill.), a 402, a 403
Whale-boat, XXIV, a b 555, b 557
WHALEBONE, XXIV, a 558; (Horse), XII, a 188, a 189; (Mammalia), XV, b 397-8, note; (Skeleton), XXII, a 116; (Whale), XXIV, a b 553, b 555, b 556, note
Whale fisheries, XXIV, a 555-8; (California), IV, a 617; (Columbia, British), VI, b 152; (Fisheries), IX, b 234; (Nantucket), XVII, a 181; (New Bedford), a 381; (Polar Regions), XIX, b 329, a b 330, a 335; Spitzbergen (Hudson, H.), XII, a 346
—— Island (Portsmouth), XIX, b 549
—— knot (Seamanship), XXI, a 619
WHALE OILS, XXIV, a b 558; XVII, a 761
Whaler, vessel (Whale), XXIV, a 555
Whaler's gum (Mammalia), XV, a 398
Whalsay, island (Orkney), XVII, b 870, a 871
Whalsey beach (Harbors and Docks), XI, b 409
Wharfe, river (York), XXIV, a b 784, a 786
Wharton, navigator (Somali), XXII, a 269 note
——, Joseph, inventor (Nickel), XVII, b 501 note
WHARTON, Philip, marquis XXIV, b 558
WHARTON, Thomas, marquis, XXIV, b 558; (Gray, Thos.), XI, a 71, note
——, Thomas, anatomist (Anatomy), I, b 711
Wharton's duct (Digestive Organs), VII, a 193
—— researches in the Black Seas, III, b 693
Wharves (Harbors and Docks) (Ill.), XI, a 407
WHATELY, Richard, archbishop, XXIV, b 558-60; (Mill, J. S.), XVI, b 323; (Political Economy), XIX, b 390; (Prison Discipline), b 770; (Probability), b 788, note; (Rhetoric), XX, a b 530
Whaup, bird (Curlew), VI, a 628
WHEAT (*Triticum*) (Ill.), cereal grass, XXIV, b 560-6
  adaptations to, b 562-3
  caterpillars and weevils, a 566
  cecidomyia (Ill.), b 565-6
  chlorops, a b 565
  classification, cultivated (Ill.), a b 562
  cockchafer, b 566
  daddy long legs (Ill.), b 565
  diptera, a 565
  distribution, b 561
  hemiptera (Ill.), a 565
  ear-cockle, b 566
  elater, b 566
  fodder, a b 564
  insects, injurious (Ill.), b 564-6
  millepedes, b 566
  mole cricket (Ill.), b 564
  origin and species, a b 561
  saw-fly, a 566
  structure (Ill.), b 560-1
  thrips, b 564-5
  variations, b 561-2
  varieties, production of, b 563-4
  yields, a 564
—— (Acclimatization), I, b 81; (Agriculture), b 262, b 267, b 270, b 304, a 315-9, b 322; (Botany) (Ill.), IV, b 77, a 121, b 135, b 137, a 143; (Brewing), b 236, a 242; (California), b 624; (Colorado), VI, b 146; (Corn Laws), b 362, a b 363, note, a b 364, a b 365, a 366; (Corn Trade), a b 367-8; (Flour), IX, b 300, b 301; (France), b 458; (Gluten), X, b 620; (Hertford), XI, a 689; (India), XII, a 786, a 789, a 796, b 797, b 798; (Ireland), XIII, 227, 228, a 229, b 230; (Italy), b 450, b 451, b 459; (Jersey Island), b 645; (Manure), XV, a b 514-5; (Mesopotamia), XVI, b 54; (Mexico), a 911; (Sicily), XXII, b 35; (Starch), b 473; ancient tillage (Egypt), VII, b 613; preparation of (Baking), III, b 216-7, a 220; crop per acre (Agriculture), I, b 366, a 367; crops (United States) XXIII, b 877, b 878
WHEATEAR, bird, XXIV, b 566-7; (Birds), III, a b 653, b 665
WHEATLEY, Francis, painter, XXIV, b 567
——, Phillis (American Literature), I, b 633
Wheat-midge (Hessian-Fly), XI, b 697
—— -milling (Patents), XVIII, b 881
WHEATON, Henry, lawyer and diplomatist, XXIV, b 567-8, a b 892; (International Law), XIII, b 197, a 201, a b 202, a 203
——, Robert, lawyer, XXIV, a 568 note, b 892
Wheat-rust. See Corn-Mildew
—— -seed (Grasses) (Ill.), XI, a 51
WHEATSTONE, Sir Charles, inventor, XXIV, a 568-9; (Blasting), III, b 703, a 704; (Brewster), IV, b 246; (Electricity), VIII, a 13, a b 14, b 59, b 61, b 83; (Gunnery), XI, b 264; (Stereoscope), XXII, b 565, a b 566, a b 567, a b 568; (Telegraph), XXIII, b 120, a 121; (Telephone), b 137; his bridge (Electricity), VIII, b 41-2, b 45; (Galvanometer), X, a 49; measurements (Telegraph) (Ill.), XXIII, b 124-5, a 128; his photometer (Light), XIV, a 588; his recorder (Telegraph) (Ill.), XXIII, a b 129, b 136
Wheel engraving (Gems), X, b 122
——, potter's (Pottery and Porcelain) (Ill.), XIX, b 618-9
—— and axle (Mechanics), XV, a 762
—— Barometer, III, a 330
—— carriages (Agriculture), I, b 287-8
Wheeler, George Montague, explorer (Surveys), XXII, b 936, b 938
——, Sir Hugh, general (Cawnpur), V, a 242
——, Talboys, orientalist (Caste), V, a b 165
WHEELER, William Almon, vice-president, XXIII, b 840
——, William Adolphus, lexicographer, XXIV, b 915
—— and Wilson, manufacturers (Sewing-Machines) (Ill.), XXI, a b 755, b 919, b 920
WHEELING, city, XXIV, a 569; (West Virginia), a b 547, a 548
—— Bridge Case (Stanton), XXII, a 919
Wheel lock (Gunmaking), XI, b 246
—— Maps, XV, b 524-5
WHEELOCK, Eleazer, clergyman, XXIV, b 892-3
WHEELOCK, John, educator, XXIV, a 893
Wheel of Fortune (Rosa), XX, b 869
Wheel-plough (Agriculture) (Ill.), I, a b 277, b 299
Wheels (Mechanics), XV, a 764-9, a 780; bevel (Mechanics) (Ill.), a b 765, b 768-9; car (Patents), XVIII, a 879; (Tramway), XXIII, b 539; conical (Mechanics) (Ill.), XV, a 765; cylindrical (Mechanics), b 764-5; grooved (Mechanics), b 765; rotating (Pyrotechny); XX, b 142; skew-bevel (Mechanics) (Ill.), XV, a b 765, a 769; toothed (Mechanics), b 765-9
Wheel-swarf (Iron), XIII, b 349
—— -work trains (Mechanics), XV, b 771-2
WHEELWRIGHT, John, preacher, XXIV, a b 893
—— deed (New Hampshire), XVII, a 403
Wheler, George, traveller (Archæology), II, b 301
Whelk, sea snail (Egg), VII, a 604; (Fisheries), IX, b 223, a 232; (Mollusca), XVI, a 663, b 676
Whemi, river (Dahomey), VI, a b 674, note
Whernside, mountain (York), XXIV, b 783
Wherry, boat (Rowing), XXI, b 36
Whetham, Boddam, traveller (Guatemala), XI, b 212, note
Whether Water or Fire is More Useful (Plutarch), XIX, b 246
Whetstone (Hone), XII, a 138
——, George, poet (Gascoigne, G.), X, b 93
WHEWELL, William, philomath, XXIV, a 569-70; (Anemometer), II, a b 24; (Astronomy), a 666; (Cambridge), IV, a 646; (Crystallography), VI, a 597, a 598; (Ethics), VIII, a b 532; (Political Economy), XIX, b 391; (Tides), XXIII, a 378, b 386, a b 394, note
Whewellite (Mineralogy), XVI, b 446
Whewer or Whew, duck (Wigeon), XXIV, b 592
Whey (Cheese), V, b 394; (Dairy), VI, b 680, a 681; (Milk), XVI, a 317

Whey-cures (Appenzell), II, a 184
Whichcote, Benjamin, theologian (Plato), XIX, a 223
Whiddy island (Bantry), III, a 300
WHIG AND TORY, English parties, XXIV, a 570–1; (Addison), I, a 135, b 136, *b* 137; (Anne), II, *b* 56; (Bolingbroke), IV, b 6–8; (Brougham), a b 338, b 340, b 341–2; (Burke), a b 483–4, a *b* 485, *b* 486, a 487, a 489, a 490; (England), VIII, *a* 314, a b 316–7, b 323–4, b 327; (Finance), IX, a 165; (George I.), X, b 378, a b 379; (George II., III.), a b 380, *a* 381; (Grey), XI, b 169, a b 170, a 171; (Holland), XII, *a b* 103; (Hume), a b 363; (Pulteney), XX, a b 109; (Rockingham), a 631; (Sheridan), XXI, a b 836; (Spencer), XXII, a b 406; (Tierney), XXIII, b 409; (Walpole), XXIV, *a* b 356; (Wedderburn), a *b* 502
WHIG party, American, XXIV, b 893–5; (Greeley), XI, b 143; (Republican Party), XX, *b* 905; (Seward), XXI, *a* 744 note; (Taylor, Z.), XXIII, a *b* 928; (Tyler), a 717; (United States), a 787, a 788, a 811, *b* 812, b 814, a b 816; (Veto), XXIV, b 224; (Webster), b 499, a 500; disintegration of (United States), XXIII, b 818, a 820, a 821
Whiggamore raid (Scotland), XXI, b 535
Whimbrel, bird (Curlew), VI, a b 628
Whin. See FURZE
Whinchat, bird (Wheatear), XXIV, a b 567
Whinsill, rocks (Northumberland), XVII, b 570, a 580; (Westmorland), XXIV a 542, a 543
Whip-grafting (Horticulture) (Ill.), XII, a 242
Whipper-in (Hunter), XII, a 411
Whipping, Russian (Prison Discipline), XIX, a 782; children, English (Prison Discipline), a 776
—— ropes (Seamanship), XXI, a 621
—— wives (Women), XXIV, b 675, note, a 676
WHIPPLE, Edward Percy, critic, XXIV, a b 895
——, G. M. (Meteorology), XVI, b 161–2, b 164, b 168 note
WHIPPLE, William, signer, XXIV, b 895
Whip-poor-will, bird (Goatsucker), X, b 634
Whips (Hippopotamus), XI, b 764
Whip Snakes (Ill.), XXII, b 203, a 206
Whirlicote (Carriage), V, b 119
Whirligigs, beetles (Coleoptera) (Ill.), VI, b 114, a 115, b 116, b 117, a 118
WHIRLPOOL, vortex, XXIV, a 571–2; (Hydromechanics), XII, a 481
—— pump chamber (Hydromechanics), XII, a 566, b 567
Whirlwinds (Africa), I, a 230; (Meteorology), XVI, a 134, a 137
Whiskers (Mammalia), XV, b 350
WHISKEY or whisky, distilled spirits, XXIV, b 572–3; (Distillation), VII, b 229, a b 230, b 231; (Dublin), b 432–3; (Ireland), XIII, a 238; (Islay), b 397; (Kentucky), XIV, a 46; (Pathology), XVIII, b 417; (Scotland), XXI, a 558; Hollands (Adulteration), I, b 159
—— insurrection, 1794 (Gallatin), X, a 36; (Pittsburgh), XIX, a 161; (United States), XXIII, b 803
—— ring (United States), XXIII, a 832
Whispering galleries (Acoustics), I, a 100; (Newburyport), XVII, a 385
WHIST, game at cards, XXIV, a 573–8
  American leads, a b 576
  antepenultimate lead, a 576
  Cavendish, a 575
  discarding and calling trumps, a b 575
  dummy, b 578
  etiquette, b 578
  French whist, a 575
  laws, b 576–8
  old authors, a b 574
  origin, b 573–4
  penultimate card, b 575
  ruff and honors, b 573
  short-whist, b 574–5
  triumph, b 573
—— (Hoyle), XII, b 339
WHISTLER, George Washington, engineer, XXIV, b 895–6
——, George William, engineer, XXIV, a 896
——, James Abbot McNeill, painter, XXIV, a 896
——, John, soldier, b 895
Whistling Swan, XXII, b 769
WHISTON, William, theologian and mathematician, XXIV, b 578–9; (Canticles), V, a 31; (Chubb), a 662; (Clarke), b 708, *a* 709, b 710; (Collins, A.), VI, a *b* 132; (Ditton), VII, a 253; (Magnetism), XV, a 238; (Navigation), XVII, b 263, a 265; (Newton), a b 458; (Woolston), XXIV, *a* b 699
Whitaker, William, divine (Universities), XXIII, b 908
Whitbourne, Richard, captain (Newfoundland), XVII, a b 395
Whitbread, Samuel, brewer (Brougham), IV, *a* 339
WHITBY seaport (Plan), XXIV, b 579–80; (Hilda), XI, *a* 727; (York), XXIV, a 784, *b* 785, a 786
—— Hall, XXIV, b 579
—— Jet, XIII, a b 683
Whitchurch, Edward, printer (English Bible), VIII, b 345, a 346
White, color (Pigments), XIX, *a b* 95
——, island (New Zealand), XVII, b 479, b 480, a 481
—— Mountain, battle. See Weissenberg
—— Mountains (Appalachian Mountains), II, *b* 175; (New Hampshire), XVII, a 400, a 401; (United States), XXIII, a b 842
—— Mountains (Crete), VI, *b* 503, a 504, a 506
——, river (Dakota), VI, *a* 681
——, river (Indiana), XII, b 852
——, river (Senegal), XXI, a 692
——, Sea (Russia), XXI, b 79, a b 80, a 83, a 84, a 85, a 86; fishery (Seal), XXI, *b* 609, a 610
——, Benjamin, publisher, XXIV, b 580
——, C. A., geologist (Surveys), XXII, b 937, b 938
——, George Savage, divine (Slater), XXII, b 906
WHITE, Gilbert, naturalist, XXIV, a 580–1; (Ornithology), XVIII, b 13, b 22
——, Henry, meteorologist, XXIV, b 580
——, John, naturalist, XXIV, b 580
WHITE, Joseph Blanco, author, XXIV, a 581
——, Peregrine (Winslow), XXIV, b 902
——, Richard Grant, critic, XXIV, a b 896; (Shakespeare), XXI, b 794, a 804, a 805, a 806, a b 807
WHITE, Robert, engraver, XXIV, a b 581
——, Thomas, naturalist, XXIV, b 580
——, Thomas, priest (Hobbes), XII, *a* 41, note
WHITE, William, bishop, XXIV, b 896–7; (Seabury), XXI, b 913
Whiteadder river (Berwickshire), III, a 529
White and Grant safety catch (Coal) (Ill.), VI, b 70
—— Ants (Ill.), II, a 84, a 88–9; (Insects), XIII, b 152, a 159
—— ash (Coal), VI, a 48
WHITEBAIT, fish, XXIV, b 581–2; (Fisheries), IX, a 223; (Herring), XI, b 683; (Salmonidæ), XXI, b 234
White Ben, river (Jalandhar), XIII, b 555
—— bows (Light), XIV, b 601–2
Whiteboys (Ireland), XIII, a 276; (Treason), XXIII, a 563
White Burgundy list (Wine), XXIV, b 638
—— Canons, monks (Abbey), I, b 25
—— Cart, river (Paisley), XVIII, a 145; (Renfrew), XX, *a* 407
—— cast iron (Iron), XIII, b 287, b 290, a 328
—— matter of brain (Anatomy), I, b 771–2
Whitechapel, parish (London), XIV, b 829, b 830, a 831, a 832, *a* b 842; market, b 837
White clergy (Monachism), XVI, a 727
Whitecoomb, mount (Dumfries), VII, a 454; (Scotland), XXI, a 546
White Cross, ensign (Switzerland), XXII, a 826
White Devil, tragedy (Webster), XXIV, *b* 500
White Doe of Rylstone, poem (Wordsworth), XXIV, b 710
—— Elephants, VIII, b 118
White-eye, bird (Zosterops), XXIV, b 863, note
Whiteface, mountain (United States), XXIII, a 842
WHITEFIELD or Stand, village, XXIV, a 582
WHITEFIELD, George, preacher, XXIV, a 582–3; (Franklin, B.), IX, a 629; (Georgia), X, b 393; (Huntingdon, Countess), XII, b 414; (Methodism), XVI, b 193, a b 201; (United States), XXIII, b 779
WHITEFISH, collective name, XXIV, a 583; (Ichthyology), XII, a 731; (Michigan), XVI, b 248; hatcheries (Pisciculture), XIX, a b 138
White Friars (Abbey), I, a 27
Whitefriars, district (London), XIV, a 842
Whitehall, district (London), XIV, a *b* 849, a 850, b 858; palace (Milton), XVI, *a* 344, *a* 345; Banqueting House (Architecture), II, b 387
WHITEHAVEN, seaport, XXIV, a b 583; (Cumberland), VI, a b 617
Whitehead, bird (Orthonyx), XVIII, a 56
——, physician (Vaccination), XXIV, b 32
——, William, poet (Drama), VII, b 378, note
—— Torpedo (Ill.), XXIII, a b 479, a 480; (Navy), XVII, a 293
White Hellebore, XI, b 566 note
—— Horde (Mongols), XVI, b 772
—— -Horse Hill (Berkshire), III, a 511, a 512
—— House (Washington), XXIV, a 405
—— Knight, house of (Ireland), XIII, a 267
—— lead, paint (Building), IV, a 457; (Lead), XIV, b 378–9; (Pigments), XIX, b 94, a 95
—— leg (Surgery), XXII, b 719
—— Light, XIV, a b 594, b 595–6, a 601, a 605, a 612, a 618
WHITELOCK, Bulstrode, commissioner, XXIV, b 583–4
——, General, surrender of (Argentine Republic), II, b 431
WHITE MAGIC, XV, b 207–12
Whiten Head (Sutherland), XXII, b 763
White Nile, river (Abiad), I, b 50; (Egypt), VII, b 611, a 612; (Nile), XVII, b 518–20, a b 521
—— Oak (Ill.), XVII, a b 712
—— Pepper, XVIII, b 527
—— Pine, XIX, a b 114, note; forests (United States), XXIII, b 860
—— Poplar, XIX, b 525
—— precipitate (Chemistry), V, a 457; (Mercury), XVI, a 39
Whiterock, mountain (Colorado), VI, b 145

"Whites" and "Blacks" (Turkestan), XXIII, a 681
White Sauterne list (Wine), XXIV, b 637
White Slave, novel (Hildreth), XI, b 729
White-sour (Bleaching), III, b 709
White's tackle (Mechanics), XV, a 773
"White Star" steamers (Steam-Engine), XXII, b 543-4 note
—— swelling, disease (Pathology), XVIII, b 415
WHITETHROAT, bird, XXIV, a 584-5
White tower (Issoudoun), XIII, b 442
—— trap or rock (Geology), X, *b* 275
—— Whale, XXIV, b 554
—— wheats (Agriculture), I, a 315
WHITFIELD, John Clarke, composer, XXIV, a 585
WHITGIFT, John, archbishop, XXIV, a b 585; (Bancroft), III, b 266; (England, Church of), VIII, a 338
——, Robert, abbot of Wellow, XXIV, a 585
Whithorn, See of (Northumberland), XVII, a 584
——, town (Monachism), XVI, b 732; (Scotland), XXI, b 496, b 497, a 498, b 504; (Wigtown), XXIV, a 595
WHITING, fish, XXIV, a 586; (Fisheries), IX, b 216; (Ichthyology), XII, a 730
——, polish (Chalk), V, b 323; (Pigments), XIX, b 95
——, Robert, last Abbot of Glastonbury, I, b 29; X, a 602 note
—— -pout (Pout), XIX, b 670
WHITLOW, inflammation, XXIV, a b 586
—— -grass (Botany) (Ill.), IV, a 80
Whitman, Marcus, missionary (Oregon), XVII, a b 849
——, Walt, poet (American Literature), I, a 643; (Longfellow), XIV, b 873
Whitney, mount (California), IV, a 618; (Signal Service), XXII, a 905
WHITNEY, Eli, inventor, XXIV, a b 897; (Patents), XVIII, a 878, b 879; (United States), XXIII, b 805, a 806; his saw-gin (Cotton), VI, a 429
——, William Dwight, philologist (Philology), XVIII, a 797; (Religions), XX, b 377-8, b 383; (Sanskrit), XXI, a b 286, a 291, note, a b 293 notes, b 309 notes; (Slavs), XXII, b 157; (Speech-Sounds), b 405; on American languages (America), I, a 605-6. See List of Contributors
Whitneyite (Mineralogy), XVI, b 409
WHITSTABLE, seaport, XXIV, b 586; (Canterbury), V, b 26
WHITSUNDAY, feast, XXIV, b 586; (Festivals), IX, a *b* 102, *a* 103; term (May), XV, b 654
Whitsuntide, celebration of (Shakespeare), XXI, b 786
Whitteby. See Whitby
Whittemore, Thomas, historian (Universalists), XXIII, a 952
Whittier, John Greenleaf, poet (American Literature), I, a 644; (Garrison), X, a 77; (Sumner), XXII, *a* 934
Whittingham, William, dean (English Bible), VIII, a 347; (Hymns), XII, a 624
——, William Rollinson, bishop (Turner), XXIII, b 949
——, printer (Typography), XXIII, b 756
WHITTINGTON, town, XXIV, b 586-7
WHITTINGTON, Sir Richard, lord mayor, XXIV, a 587; (Finance), IX, a b 155; (Libraries), XIV, b 515
Whittlesea, town (Cambridge), IV, b 644
Whitwell stove (Iron) (Ill.), XIII, a b 311, b 323, a 324
WHITWORTH, village, XXIV, a b 587
——, Benjamin (Drogheda), VII, *b* 406
——, Sir Joseph, inventor (Founding), IX, a 425; (Gauge), X, b 99; (Gunmaking), XI, a 250, b 257; (Hand Tools), b 392; (Iron), XIII, a 289; (Machine Tools), XV, b 154, b 155, b 158; (Tables), XXIII, b 18
—— steel-casting process (Iron), XIII, b 366
Whooper, Swan, XXII, b 769
Whooping-cough. See Hooping Cough
Whorl or involucre (Botany) (Ill.), IV, b 103-4, b 107-8, b 113, b 114-8, a b 122
Whorled-hairy Mint, XVI, a 515
Whorls for spinning (Textiles), XXIII, b 224, note; (Yarn), XXIV, a 766
WHORTLEBERRY, berry, XXIV, b 587
Whose Fault? (Hertzen), XI, *a* 691
Whydah, town (Dahomey), VI, b 674, *a b* 675, *a* 676
Whymper, Edward, explorer (Polar Regions), XIX, a 336
Whyting, Abbot. See Whiting, Robert
Whytock, Richard, inventor (Carpet), V, b 114, a 115
Wiarda, Tilleman Dothias, philologist (Frisians), IX, b 692, *a* b 693
Wibe, Johan, author (Norway), XVII, b 604
Wibert, antipope. See GUIBERT
Wiborg, city and province. See VIBORG
Wichfrid, archbishop (Ursula, St.), XXIV, b 17
WICHITA, city, XXIV, b 587
Wichitas, tribes (Indians), XII, b 866
Wichura, Max, naturalist (Hybridism), XII, a 442
WICK, seaport, XXIV, b 587-8; (Caithness), IV, b 574, *a b* 575; (Fisheries), IX, a 225, a 226; (Sutherland), XXII, a 765; breakwater (Harbors and Docks) (Plate IX), XI, a b 409, a 410, b 415
"Wicked" Bible (English Bible), VIII, a 347 note
Wickersham, William, inventor (Sewing-Machines), XXI, b 918-9, b 920
Wicker-work (Cane), IV, a 711
Wicket (Cricket), VI, b 511, *a b* 512, *a b* 513
Wickham Heights, hills (Falkland Islands), IX, b 14
Wickliffe, John, reformer. See WYCLIFFE
WICKLOW, county and town, XXIV, a 588-9; (Dublin), VII, a 428; mountains (Dublin), b 427
Wicks (Lamp), XIV, b 245-7; of candles (Candle), IV, a 709
Wicksteed, J. H., his autographic recorder (Strength of Materials), XXII, a 629, note; his testing machine (Strength of Materials) (Ill.), b 625-6
Widalin, John, bishop (Iceland), XII, b 656, b 662
WIDDIN or Widin, town, XXIV, a b 589
Wide-Awake, bird (Tern), XXIII, b 206
Wide Bay district (Queensland), XX, *a* 178
Widmannstätten figures (Meteor), XVI, a 118
Widmanstadt, J. A., philologist (Syriac Literature), XXII, a 864 note
WIDNES, town, XXIV, b 589
Widow (Intestacy), XIII, b 203, *a* 204; (Precedence), XIX, *a* 685; privileges of (Women), XXIV, a b 674, a 675. See Widows
—— -birds (Weaver-Bird), XXIV, a b 489
Widowers, tax on (Finance), IX, b 159
Widow of Nain's son (Gospels), X, a 720
Widows, church (Pastoral Epistles), XVIII, a 354; (Monachism), XVI, a 725
WIDOW'S QUARANTINE, XX, a 165
Wieck, Friedrich, pianist (Schumann), XXI, b 480
Wied, counts of (Neuwied), XVII, b 375
Wiedemann, Gustav Heinrich, physicist (Electricity), VIII, *a* 55, b 56, a b 58, b 61, a 75, b 77, a 78, *a* 81, b 83, a 86, a 87, a 89; (Electrolysis), a b 101, a 102, b 104, b 105, b 106, a 107; (Magnetism), XV, b 244, a 255, a b 266, *a* 269, b 270-1, a b 272, *a* 273, a b 274, a 275
——, F. J., philologist (Esthonia), VIII, *b* 496; (Persia), XVIII, b 579 note, a 581 note
Wiederkom, cup (Glass), X, a b 582, a 583
Wiedomosti (Newspapers), XVII, b 441
Wiegmann, Arend Friedrich August, naturalist, XII, a 442
WIELAND, Christopher Martin, poet, XXIV, b 589-91; (Drama), VII, b 381-2; (Germany), X, b 478, a 479, *b* 483; (Goethe), b 644, b 646, a b 647, *b* 648, a 649, a 653, a 656; (Periodicals), XVIII, a 552; (Weimar), XXIV, a b 519; imitators of (Germany), X, b 843
——, myth (Hephæstus), XI, *a* 605
Wieland, novel (Brown, C. B.), IV, a b 345
Wieliczka, mines (Salt), XXI, b 241, b 243
Wien, city. See VIENNA
——, stream (Vienna), XXIV, a 237
Wiener, Ch., philosophical writer (Evolution), VIII, b 672
—— -Neustadt, town. See NEUSTADT
Wieprz, river (Poland), XIX, *b* 318; (Siedlce), XXII, a 42
Wier or Weier, Johann, author (Witchcraft), XXIV, b 656
Wieringeu, island (Holland), XII, b 62, a 65
Wierzbolowo, town (Suwalki) XXII, a 766
Wierz-Yärvi, lake (Livonia), XIV, *a* 730
WIESBADEN, watering-place (Plan), XXIV, a b 591; (Nassau), XVII, *a* 245; district (Prussia), XX, *a* 19
Wieseler, critic (Hebrews), XI, *a* b 541; (Pastoral Epistles), XVIII, a b 355; (Paul), b 428, note
Wieselgren, Per, historian (Sweden), XXII, a 796
Wiesner on heliotropism (Physiology), XIX, *a* b 66
Wietor, Hieronymus, printer (Poland), XIX, *b* 311
Wife (Heraldry), XI, a b 611, a 617, a b 630-1; (Intestacy), XIII, b 203, *a* 204; gentile relations of Quiritian (Roman Law), XX, b 688, note, a *b* 689-90. See HUSBAND AND WIFE
Wife-purchase (Women), XXIV, a 673, note
Wiffen, Benjamin B., translator (Valdes), XXIV, b 38
WIG, artifical hair, XXIV, b 591-2; (Jute), XIII, b 812; official (Hair), XI, b 336
WIGAN, town, XXIV, a b 592; (Coal), VI, a b 49, a 65, *b* 69, b 71-2
Wigand, A., author (Evolution), VIII, a 673
WIGEON, duck, XXIV, b 592-3
WIGHT, ISLE OF, XXIV, a b 593; (England), VIII, a 244; (Hampshire), XI, a *b* 384, a *b* 385, *a* b 386; (Navy), XVII, a 288; section of (Geology) (Ill.), X, a 266
Wigner, G. W., chemist (Tea), XXIII, b 107
Wigry, lake (Poland), XIX, a 319
Wigtonshire. See WIGTOWN
—— Codfish, VI, a 95
Wigtown, bay, XXIV, *b* 593, *a* 594

Wigtown or Wigton, county and town, XXIV, b 593–5; (Scotland), XXI, a b 551
Wijk, town (Maestricht), XV, b 196, a 197
Wikmanshytta steel, Sweden (Iron), XIII, a 357
Wikrama Sinha, king (Ceylon), V, *a* 317
Wilanow palace (Warsaw), XXIV, b 397
Wilberforce, Samuel, bishop, XXIV, b 595–6; (Convocation), VI, a 292; (English Bible), VIII, a 349; (Trench), XXIII, *a* b 575
Wilberforce, William, philanthropist, XXIV, a 596–7; (Clarkson), V, b 710, *a* 711; (Pitt), XIX, a b 148, b 149, a 153, b 157, a b 158; (Slavery), XXII, b 147, *a* 148, b 149
Wilbert Fell, hill (Westmorland), XXIV, a 541, a 542
Wilbur, John, preacher (Quakers in United States), XX, b 893
Wilcke, physicist (Electricity), VIII, b 8, a 9, a b 93, a 95
Wilcox, ——, naturalist (Scrub-Bird), XXI, a 581
Wilczek, mountain (Nova Zembla), XVII, b 619
Wild animals (Game Laws), X, a 56; (Games), a 60
Wildbad, watering-place, XXIV, a 597; (Gastein), X, *a* 97; (Mineral Waters), XVI, a 452
Wild beasts, deaths by (Madras), XV, b 185
—— Cat, V, b 178–9
—— Cattle, British, V, b 213; (Hamilton), XI, b 367; (Northumberland), XVII, a 580
Wilde, Richard Henry, lawyer, XXIV, b 897; (American Literature), I, b 634
Wildebeest (Antelope), II, b 90
Wilder, Prof. B. G. (Arachnida), II, b 259, a 260
Wilder, Marshall Pinckney, horticulturist, XXIV, b 897
Wilderness campaign, 1864 (United States), XXIII, b 827
Wilde's machine (Electricity), VIII, a 12; (Electro-Metallurgy), a 109
Wild-fire (Thunderstorm), XXIII, a 351
Wild Gallant (Dryden), VII, b 422
Wildhaus, village (Zwingli), XXIV, *b* 871, a 872
Wild Irish Girl (Morgan), XVI, b 849
Wild Oat, XVII, a b 715, a 716
—— Pigeon, XIX, b 93
Wildspitz, mountain, Tyrol (Alps), I, a 546, b 553
——, mountain (Zug), XXIV, b 865
Wild's shelter (Thermometer), XXIII, b 310
Wilfrid, of Barcelona, the Hairy, count (Spain), XXII, a 326
Wilfrid, archbishop of York, XXIV, a 597–8; (Abbot), I, a 28; (Crypt), VI, a 591; (England), VIII, a 252; (Frisians), IX, b 691–2; (Glass), X, a 596; (Northumberland), XVII, *b* 583, b 585; (Sussex), XXII, a 762, a 763
Wilhelmhaven or Wilhelmshafen, naval station, XXIV, a 598; Observatory XVII, b 733; (Germany), X, *b* 420; (Oldenburg), XVII, a 729
Wilhelmi (Bee), III, b 418, b 419, b 425
Wilhelmina, Margravine of Baireuth (Frederick II.), IX, a 647
Wilhelm Meister, Goethe (Education), VII, a 588; (Germany), X, b 482; (Goethe), *b* 649, a 652, a 655; (Illuminati), XII, b 745
Wilhelmsglück mine (Halle, Swabian), XI, b 346
Wilhelmshöhe, summer-palace of (Cassel), V, a 160
Wilhelm Tell, play (Germany), X, a 482; (Schiller), XXI, b 414. See Tell
Wilhelmuslied (Holland), XII, a 96
Wilkes, Charles, admiral, XXIV, b 897, a 898; (Polar Regions), XIX, b 342
Wilkes, John, radical, XXIV, a 598–9; (Bute), IV, *a* 518; (Camden), *a* 650; (Churchill), V, *a* b 670; (Cruden), VI, a 549; (England), VIII, b 320; (George III.), X, b 381; (Hogarth), XII, *a* 52; (Junius), XIII, a 785, b 786; (Tooke), XXIII, *a b* 473
Wilkesbarre, city, United States, XXIV, b 599
Wilkie, Sir David, painter, XXIV, b 599–601; (Edinburgh), VII, b 573; (Raeburn), XX, a 226; (Velazquez), XXIV, b 143
Wilkins, John, bishop (Aëronautics), I, a 168; (Cryptography), VI, a 593; (Perpetual Motion), XVIII a b 566
Wilkinson, James, general, XXIV, a b 898; (Mobile), XVI, b 563; (Scott), XXI, *b* 576 note; (Taney), XXIII, a 921
——, Sir John Gardner, archæologist (Architecture), II, *b* 340, b 342, a b 343, b 400; (Egypt), VII, a 612, a 615, b 616, a 618, a 668, *b* 670, b 671, a 674, b 675, b 677, b 678 note, a 680
Wilkins's *Principles of Natural Religion* (Tillotson), XXIII, a 417
Wilkomierg, town. See Vilkomir
Wilks, actor (Farquhar, G.), IX, a 37
Will, testament, XXIV, b 601–6
criminal law, a 605
definition, b 601
donatio causa mortis, a 605
English and Roman law contrasted, a b 602
exceptional wills, b 604–5
existing law, b 603–5
international, a 606
interpreting wills, a b 604
Will, *continued*
invalidating wills, b 604
making wills, b 603–4
personalty, a b 603
real estate, English, b 602–3
Roman law, b 601–2
Scotland, a b 605
United States, b 605–6
—— (Domicile), VII, b 305; (Husband and Wife), XII, *a* 417; (Insanity), XIII, b 118; attesting (Witness), XXIV, *b* 657, note, a 658; introduction of (England), VIII, b 252. See Testament
——, volition (Descartes), VII, a b 109; (Pessimism), XVIII, a 701–2; (Psychology), XX, a 87; (Schelling), XXI, a 410; (Schopenhauer), a *b* 478–9
——, determinism of the divine (Cartesianism), V, a b 128, a 132
——, freedom of the (Cousin), VI, a 466; (Edwards), VII, a 599; (Epictetus), VIII, a 419; (Hutchinson), XII, a 426; (Kant), XIII, a 864; (Leibnitz), XIV, a 423; (Melanchthon), XV, a b 843; (Molina), XVI, a 653; (Paul), XVIII, b 437–8; (Schopenhauer), XXI, a b 475; Malebranche on (Cartesianism), V, a 132
Willaert, Adrian, musician (Zarlino), XXIV, a 809
Willamette, river (Oregon), XVII, b 845, a b 846, b 848, a 849
—— university (Salem), XXI, b 221
Will and Testament, Last (Chatterton), V, a 388
Will and Varrentrapp's nitrogen analysis (Chemistry) (Ill.), V, a b 473
Willan's engine (Steam-Engine), XXII, a b 540
Willard, Emma Hart, educator, XXIV, b 898; (Women), a 911
Willcox and Gibbs, manufacturers (Sewing-Machines), XXI, b 918, a 919
Willeborts, Thomas, painter (Fyt), IX, *b* 752
Willehalm, poem (Wolfram von Eschenbach), XXIV, a 666
Willem the Minstrel (Holland), XII, a 93
Willemer, Marianne von, poetess (Goethe), X, b 654, a 656
Willemite (Mineralogy), XVI, a 428; (Zinc), XXIV, b 823
Willemstad, town (Curaçoa), VI, a 626
Willenhall, town, XXIV, a 606
Willesden, parish, XXIV, b 606
Willet, bird (Greenshank), XI, a 155; (Sandpiper), XXI, b 272 note
Willey teasing machine (Wool), XXIV, a 692
William I., Prussia, emperor, XXIV, a 613–4; (Army), II, a 520; (Bunsen), IV, *b* 469; (Germany), X, a b 457–61; (Prussia), XX, b 16–7
—— I., the Pious, of Auvergne (Aquitania), II, b 203
—— V., Guilhem the Great, duke (Aquitania), II, b 203; (Truce of God), XXIII, a 628
—— IX., of Aquitaine (France), IX, b 475; (Toulouse), XXIII, a 517
—— IX., count of Poitiers (Provençal Literature), XIX, *a b* 898, a b 899, b 900
William I., conqueror, England, XXIV, b 606–8; (Archery), II, a 325; (Army), a 498; (Caen), IV, *a* 561; (Castle), V, b 171–2; (Coronation), VI, b 380; (Curfew), a b 627; (Domesday), VII, a *b* 303, a 304; (Edward III.), b 591; (England), VIII, a b 261–3, a 264–7; (England, Church of), b 333; (Feudalism), IX, a b 107; (Flag), a b 242; (France), *b* 474; (Government), XI, a 12; (Hampshire), a 386; (Harold II.), b 434, *a* b 435; (Hastings), b 457; (Hertford), b 689; (Horse), XII, a 185; (Hunting), b 409; (Knighthood), XIV, a *b* 114, note; (Lanfranc), b 283, a 284; (Normandy), XVII, a 556–7; (Normans), b 561; (Parliament), XVIII, a 309; (Salic Law), XXI, b 225; (Scotland), *a* 503; (Seals), a 614; (Typography), XXIII, b 724; (Warwick), XXIV, b 401; (York), b 789
William II., Rufus, England, XXIV, b 608–10; (Anselm), II, b 81–2; (England), VIII, b 263–4, b 271; (Flambard), IX, *a* 246; (Knighthood), XIV, a 114, note; (Scotland), XXI, b 503
William III., England, Prince of Orange, XXIV, a 610–2; (Abbadie), I, a 15; (Anne), II, a 56; (Arnaud), II, b 541, a 542; (Burnet, Bishop), IV, b 502; (Burnet, Thomas), b 503; (Cabinet), a 550, a 551; (Carstares), V, *a* 123; (Charles XII.), a 364; (Coehorn), VI, a 98; (Collier), b 130–1; (Corn Laws), b 363–4; (Defoe), VII, a b 25; (Devonshire), *a* 124; (Dublin), b 433–4; (England), VIII, b 313, b 314–6; (Fermanagh), IX, a 80; (Finance), a b 158, a b 159; (France), *a b* 508; *a* 509, a *b* 510, *a b* 511, *a* 512; (George I.), X, *b* 378; (Halifax, Earl), XI, b 344–5; (Holland), XII, b 82, a b 84; (Horse), a b 186; (Huchtenburg), *b* 343; (Ireland), XIII, b 235, b 274, b 275; (James II., England), b 569, a 570; (Leopold I., Emperor), XIV, a 467; (London), a b 860; (Marlborough), XV, b 560–1; (Ministry), XVI, b 494; (Navy), XVII, a 291; (Orange), b 836; (Orangemen), b 836, a 837; (Peterborough), XVIII, a 714;

William III., *continued* (Poor Laws), XIX, a 482; (Portland), a 545; (Presbyterianism), *a* 704; (Scotland), XXI, b 539–40; (Somers), XXII, *a* b 270; (Spain), *a b* 349; (Steele), *a* 555; (Stuart), b 642; (Sunderland), b 692; (Temple), XXIII, *a* b 188; (Tenison), b 191; (Tillotson), a 417; (Torquay), a 481; standing army under (Army), II, b 499, a 500
WILLIAM IV., England, XXIV, a 612–3; (Admiral), I, a 142; (Brougham), IV, a *b* 341; (Cabinet), b 550; (England), VIII, a b 327; (Golf), X, b 681; (Gray, Earl), XI, a b 171; (Hesse-Cassel), b 696; (Rothschild), XXI, a 7
—— II., elector (Hesse-Cassel), XI, b 696
WILLIAM IV., Hesse, landgrave, XXIV, a 614; (Hesse-Cassel), XI, b 696
WILLIAM OF ORANGE, the Silent, prince, XXIV, b 614–5; (Holland), XII, *b* 77, *a b* 78, *a b* 79, a 80; (John Don), XIII, *b* 728; (Languet), XIV, a 289; (Popedom), XIX, a 521
WILLIAM II. of Orange, stadtholder, Netherlands, XXIV, a 610; (Holland), XII, b 82, b 83
—— III., Orange. See WILLIAM III, England
—— IV., Orange, stadtholder (Holland), XII, a 85
—— Frederick, king, Netherlands, XXIV, b 615; (Belgium), III, *a b* 455, a b 456; (Gagern), X, *b* 14; (Holland), XII, a b 86
—— II., king, Netherlands, XXIV, b 615; (Holland), XII, b 86
—— III., Netherlands, XXIV, b 615; (Holland), XII, b 86
—— I., count (Holland), XII, b 74
WILLIAM OF HOLLAND, 2d, count, emperor, XXIV, b 615; (Germany), X, a b 441; (Holland), XII, b 74, a 75, a 83
—— III.–VI., counts (Holland), XII, b 75
WILLIAM THE LION, king of Scotland, XXIV, a 613; (Alexander III.), I, b 430; (Glanvil), X, a 566; (Glasgow), b 569; (Lothian), XV, b 12; (Scotland), XXI, a 506–7; (York), XXIV, b 789
—— I., the Bad, king (Sicily), XXII, *b* 31, a 32
—— II., the Good, Sicily (Peter of Blois), XVIII, b 711; (Sicily), XXII, b 31, a 32
—— III., king (Sicily), XXII, b 31
WILLIAM I., king, Würtemberg, XXIV, b 738; (Stuttgart), XXII, b 645, a 646
—— I., Longsword, duke (Normandy), XVII, a 554, a 556
—— Taillefer I., count of Toulouse, XXIII, b 516, a 517
—— Taillefer, counts of Toulouse, XXIII, b 517–8
—— IV., count (Toulouse), XXIII, *a* 517
—— the Aetheling, son of Henry I. (England), VIII, a 272
—— of Auvergne, bishop (Scholasticism), XXI, b 445
—— de Beaujeu, master (Templars), XXIII, b 178
—— of Brescia, archdeacon (Universities), XXIII, b 889
—— of Champeaux. See CHAMPEAUX
—— de Chartrez, master (Templars), XXIII, *b* 177
—— of Cologne or Herle, painter (Schools of Painting) (Ill.), XXI, a 457, b 463
—— of Conches, philosopher (Scholasticism), XXI, b 441, b 443
—— of Corboil, archbishop (England, Church of), VIII, a 334
—— Courtnez, count (Toulouse), XXIII, b 516, a 517
—— the Holy, abbot of Hirschau, XII, a b 3
WILLIAM OF LORRIS, poet XXIV, b 616; (France), IX, a b 566
WILLIAM OF MALMESBURY, chronicler, XV, a b 339; (Catacombs), V, a 180 note; (Glastonbury), X, a 601, b 602; (Grail, Holy), XI, b 32; (Knighthood), XIV, a 114, note; (Swithun), XXII, a 814
—— of Marcossay, bishop (Geneva) X, b 133–4
WILLIAM OF NEWBURGH, chronicler, XXIV, b 616
—— of Orange. See William the Silent, regent of Holland, and William III., England
William of Orange, romance (Holland), XII, a 93
—— of Rubruk, traveller. See RUBRUQUIS
—— of St. Amour (Aquinas), II, b 201
—— of St. Calais, bishop of Durham (William II.), XXIV, b 608, a 609
—— of Saliceto, physician (Surgery), XXII, a 710
—— of Selling, prior (Linacre), XIV, *b* 658
—— of Sens, architect (Architecture), II, a 374
—— of Solagna, friar (Odoric), XVII, a 749
—— de Sonnac, master (Templars), XXIII, a 178
—— of Tudela, poet (Provençal Literature), XIX, a 901
WILLIAM of Tyre, archbishop, XXIV, b 615–6; (Templars), XXIII, b 176
—— of Wallingford's Book (Romance), XX, a 659
WILLIAM of Wykeham, bishop, XXIV, b 616–7; (Architecture), II, a 375; (Winchester), XXIV, a b 628
Williams, Mount (Victoria), XXIV, b 232
WILLIAMS, family, XXIV, a 899–900
——, Albert, Jr., geologist (Surveys), XXII, b 937, b 938
——, Allen, author (Opium), XVII, b 817
——, Benezette, engineer (Pullman), XX, b 890
——, Charles Kilbourne, governor, XXIV, a 899
——, Clement, traveller (Burmah), IV, a 496, a b 499
——, Edward, poet (Celtic Literature), V, a b 273, *b* 276, a 282, b 284, a 285
——, Eleazer, missionary, XXIV, a b 899
——, Elisha, colonel, XXIV, a 899
——, Ephraim, colonel, XXIV, b 899
——, Eunice, captive, XXIV, a 899
——, Helen Maria, authoress (Coquerel), VI, a 326
——, Isaac, translator (Hymns), XII, b 619, a 620
——, Israel, colonel, XXIV, b 899
——, John, bishop, XXIV, b 899
——, John, geologist (Vitrified Forts), XXIV, b 283, *a* b 284
WILLIAMS, John, missionary, XXIV, b 617–8; (Sandalwood), XXI, a b 268
——, John, preacher, XXIV, a 899
WILLIAMS, Jonathan, engineer, XXIV, b 899–900
——, Monier, orientalist (Buddhism), IV, a 383 note; (Sanskrit), XXI, b 286, a 299 note
WILLIAMS, Roger, founder of Rhode Island, XXIV, a b 618; (Baptists), III, a 307; (Independents), XII, b 765; (Providence), XIX, a 909, a 910; (Slavery), XXII, a 907
——, R. Price, engineer (Railway), XX, a 240, a 251
——, Samuel, preacher, XXIV, a 899
WILLIAMS, Samuel Wells, orientalist, XXIV, a 900; (China), V, b 573, a 575, b 576, b 583
——, Solomon, preacher, XXIV, b 899
——, Stephen West, physician, XXIV, b 899
——, Thomas, physician, XXIV, b 899
——, William, poet (Hymns), XII, b 629
——, William, singer, XXIV, b 899
——, Sir W. Fenwick, general (Kars), XIV, b 8
—— ab Ithel, John, antiquary (Celtic Literature), V, b 273, b 284
Williamsburg, New York (Brooklyn), IV, *b* 334
——, Virginia, battle, 1862 (Hooker), XII, b 153
—— canals (St. Lawrence), XXI, a 190
Williams College (Libraries), XIV, a 554
Williamson, navigator (Solomon Islands), XXII, a 267
——, Alexander William, chemist (Chemistry), V, *a* 404
——, Joseph, editor (Newspapers), XVII, a *b* 425
——, Peter (Post-Office), XIX, a 582
Williamson's blue, pigment (Prussic Acid), XX, *a* 29
—— *Integral Calculus* (Tables), XXIII, a 19
WILLIAMSPORT, Pennsylvania, city, XXIV, b 618
Williams's, Dr., library, London (Libraries), XIV, a 516, b 544
—— rotary furnace (Iron), XIII, b 331
Williamstown, Massachusetts, Observatory, XVII, b 736
William Tell, play (Knowles), XIV, b 130. See TELL
Willibald, traveller (Sepulchre), XXI, a 705, note
WILLIBRORD, St., bishop, XXIV, b 618–9; (Frisians), IX, a 692; (Germany), X, b 429; (Holland), XII, a 73; (Utrecht), XXIV, *a* 27
Willich's *Popular Tables*, XXIII, b 16, a 17
Willigis of Mainz, archbishop (Germany), X, a 436
WILLIMANTIC, Connecticut, borough, XXIV, a 619
Will in Nature (Schopenhauer), XXI, b 474–5
Willis, Browne, antiquary, XXIV, a 620
——, Francis, physician (George III.), X, a 383
——, John, system of Shorthand, XXIV, *b* 875, note, a 876
——, Nathaniel, journalist, XXIV, a b 900
——, Nathaniel, Jr., journalist, XXIV, b 900
WILLIS, Nathaniel Parker, journalist, XXIV, a b 619, b 900–1; (American Literature), I, a 638
——, Richard Storrs, composer, XXIV, a 901
——, Robert, architect, *b.* 1800, *d.* 1875 (Abbey), I, a 18, b 19 note, b 27; (Architecture), II, b 373; (Building), IV, a 424, b 425; (Clocks), VI, a b 32, a 33
——, Robert, anatomist (Vascular System), XXIV, a 104 note
——, Sarah Payson, XXIV, a b 901
WILLIS, Thomas, physician, XXIV, b 619–20; (Anatomy), I, b 711; (Chemistry), V, a 398; (Medicine), XV, b 820; (Phrenology), XVIII, b 857, note; (Zoology), XXIV, a 854
Willis's method (Mechanics), XV, a b 768, a b 772
—— process, W. (Photography), XVIII, b 845
WILLISTON, Payson, divine, XXIV, b 901
——, Samuel, philanthropist, XXIV, b 901; (Button), IV, b 532–3
Willkomm, Moritz, botanist (Spain), XXII, a 311, b 318, *b* 319
WILLMORE, James Tibbitts, engraver, XXIV, a 620
Willmott, Robert, editor (Akenside), I, *a* b 386
Willoch, Hugh, inventor (Button), IV, a 533
Willock, bird (Guillemot), XI, b 232 note, a 233

Will-o'-the-wisp (Phosphorescence), XVIII, a 826
Willoughby, Lord Francis, governor (Barbados), III, a *b* 310
——, Sir Hugh, navigator (Geography), X, a 164; (India), XII, a 837; (Polar Regions), XIX, a 328, b 337
WILLOW, tree (Ill.), XXIV, a 620–1; (Arboriculture), II, *a* b 276, a 279, *b* 281, *b* 282; (Botany), IV, b 76, b 85, a 86, a 90, a 106, b 110, b 113; (Galls), X, *a* b 40, b 41, b 42; cultivation of the (Basket), III, b 364–5; wood (Gunpowder), XI, *b* 285
——, machine (Paper), XVIII, b 323
—— fracture (Surgery), XXII, a 716
—— -Grouse, XI, a b 197
—— -weed (Pochard), XIX, b 264, note
—— -Wren, XXIV, *a* 724; (Kinglet), XIV, a 85
Willshire, Sir Thomas general (Baluchistan), III, a 260
Willughbeïa, plant (India-Rubber), XII, b 879, a b 880
WILLUGHBY, Francis, ornithologist, XXIV, a 621; (Ichthyology), XII, a 668; (Ornithology), XVIII, b 8, b 24 note; (Owl), a 92; (Ray), XX, a *b* 313; (Turnstone), XXIII, b 710 note
WILMINGTON, Delaware, city, XXIV, a b 621; (Delaware), VII, *a* 40
WILMINGTON, North Carolina, city, XXIV, b 621; capture of (United States), XXIII, b 828
WILMOT, David, legislator, XXIV, b 901
——, John. See earl of ROCHESTER
—— proviso (United States), XXIII, *b* 816
Wilna, town. See VILNA
Wilser, Ludwig, philologist (Slavs), XXII, b 155
Wilson, Alexander, astronomer (Hydrometer), XII, a 568; on sun-spots (Astronomy), II, a b 687
WILSON, Alexander, ornithologist, XXIV, b 621–2; (Ornithology), XVIII, b 20; (Paisley), b 145
——, Allan B., inventor (Sewing-Machines), XXI, a 755
——, Andrew, Dr., traveller (Sea Serpent), XXI, a 639, note
——, Benjamin, physicist (Electricity), VIII, b 8
——, Bird, divine, XXIV, a 902
——, Florence, philosopher. See VOLUSENUS
——, Henry, captain (Caroline Islands), V, a 111
WILSON, Henry, senator, XXIV, a 622; (Republican Party), XX, b 905
WILSON, Horace Hayman, orientalist, XXIV, a 622–3; (Brahmanism), IV, a 190; (Buddhism), a 381; (Hindustani Literature), XI, b 753, *a* 754, *b* 755; (India), XII, b 828, notes, *b* 851; (Inscriptions), XIII, a 125; (Sanskrit), XXI, a 288 note, a 297 note, a b 299, notes, a b 300, note, b 301 note, a 305 note, a 308
——, James, zoologist, XXIV, a 623 note; (Encyclopædia), VIII, a 184; (Ornithology), XVIII, b 16-7
WILSON, James, jurist, XXIV, b 901-2; (United States), XXIII, a b 796 note; (Whig), XXIV, b 893, a 894
——, James H., general (Selma), XXI, a 671
——, John, Puritan preacher (Winthrop), XXIV, *a* b 904
Wilson, John, of Ainsworth, inventor (Cotton), VI, a 434
——, John, dramatist (Drama), VII, a 377
WILSON, John, essayist, XXIV, a 623–4; (Anthology), II, b 93; (Lockhart), XIV, a 770; (Phrenology), XVIII, a 863; (Wordsworth), XXIV, a 711
——, J. Leighton, missionary (Negro), XVII, b 325 notes
WILSON, Richard, painter, XXIV, b 624–5
——, Sir Thomas, statesman (Rhetoric), XX, a 530
——, Walter, biographer (Defoe), VII, *a* 29
——, William, theologian (United Presbyterian Church), XXIII, a 776
—— and Payne process (Glycerin), X, a 623
Wilson's Creek battle, 1861 (United States), XXIII, b 823
—— Peak (United States), XXIII, a 847
—— Promontory (Victoria), XXIV, a b 232
—— survey (Jerusalem), XIII, a 647
—— theorem (Numbers), XVII, b 632
Wiltaburg, town (Utrecht), XXIV, a 27
Wilton, village (Hawick), XI, b 476, a 477; (Wilts), XXIV, b 625, *a b* 626
—— or Moquette Carpets, V, b 114
WILTS, county (Plate XIV), XXIV, a 625–7; (Hoare), XII, a 32; (Vaccination), XXIV, a 29 note; origin of name (Slavs), XXII, a 154; peerage of (Bristol), IV, a 315
Wiltshire. See WILTS
——, Sir Thomas Boleyn, earl of (Cranmer), VI, a 486
Wiltz river (Luxemburg), XV, b 88
WIMBLETON, suburb, XXIV, a b 627; (Surrey), XXII, *a* 729, a 730; common (London), XIV, b 833, b 861
WIMBORNE-MINSTER, town, XXIV, b 627
Wimmer, L. F. A., philologist (Scandinavian Languages), XXI, a b 389, note, a 390 note
Wimpfen, battle of, 1622 (Pforzheim), XVIII, a 740
——, Alexander Süsskind, Jew (Rosh), XX, a 875 note
Wimpheling, Jacob, author (Typography), XXIII, b 731, a 732, b 734
Wimpina or Wympina, Conrad, anti-reformer (Luther), XV, b 74
Wimple (Costume), VI, *b* 412, *a b* 413, b 414, b 417
Wimpole Park (Cambridge, County), IV, b 644
Wimund of Ross, pretender (Scotland), XXI, a 505
Winans, Ross, engineer (Railway), XX, b 257; (Steam-Engine), XXII, a 923; (Whistler), XXIV, b 895, a 896
Winceby, battle of (Cromwell), VI, b 529
Winchell, Alexander, geologist (Petroleum), XVIII, a b 886
WINCHESTER, city, XXIV, b 627–8; (Fair), VIII, b 742, a 744; (Hampshire), XI, *b* 385, *a* 386; (Libraries), XIV, b 547; (Mint), XVI, b 503; bishopric of (Convocation), VI, b 292; cathedral (Crypt), VI, *a* b 591; (Swithun), XXII, b 813; Observatory, XVII, a 736
—— school (Foot-Ball), IX, b 321; (William of Wykeham), XXIV, b 617
——, treaty of (Henry II., England), XI, a 586
——, Saier de Quincy, earl of (Ware), XXIV, a 391
——, William Paulet, marquis of (England), VIII, a 305
WINCHESTER, Virginia, town, XXIV, b 628; college, b 628 note
—— looms (Wool), XXIV, a 688
—— Repeating Arms Company (New Haven), XVII, *b* 404
WINCKELMANN, Johann Joachim, archæologist, XXIV, b 628–30; (Æsthetics), I, a 195, a b 197; (Apollo Belvidere), II, b 163; (Archæology), b 301; (Germany), X, b 478, a 487; (Goethe), a b 644; (Herculaneum), XI, b 647; (Mengs), XVI, b 14; (Rubens), XXI, a 51; (Stendal), XXII, b 559; (Trieste), XXIII, b 595
——, Johann Justus, historian (Mnemonics), XVI, b 556
Wind (Cosmogony), VI, b 395; (Mediterranean Sea), XV, a b 831. b 832; (Meteorology), XVI, a 129, a 141, b 151–4, a 161–2; (Mythology), XVII, a 151, b 153, a 156, a 159
——, chinook (Washington), XXIV, a 406; effects of (Tides), XXIII, a 376; effect on rocks (Geology), X, b 235; influence on water (Hydromechanics), XII, a b 478, b 523–4; monsoon (Meteorology), XVI, b 153, a 154; suspension bridges in the (Bridges), IV, b 272; velocity (Anemometer), II, b 23, a 24. See Winds
Windage (Gunmaking), XI, a b 261
Windchest (Organ), XVII, b 852
Wind currents (Aëronautics), I, b 179; (Ecuador), VII, a 599; (Lake), XIV, a b 220
—— dogs (Halo), XI, a 357
Windermere, lake (Lancashire), XIV, a 253
WINDHAM, William, politician, XXIV, a b 630; (Pitt), XIX, *a b* 150, a 154, b 155, a 157
Windhausen's machine (Ice), XII, b 647-8
Windhill, village (Idle), XII, a 737
Windhover, bird (Kestrel), XIV, a 55, note
Windic Religions, XX, 372, a b 373
Winding (Coal), VI, a 69–72; -engines (Steam-Engine), XXII, b 539; machinery (Mining), XVI, b 476, a 479
—— surface (Variable), XXIV, a b 78
—— up Company, VI, a 198
Windischgrätz, Alfred, prince (Austria), III, *b* 119; (Hungary), XII, b 386, *a* 387
Windlass, differential (Mechanics), XV, b 772
Windlestrae Law, mountain (Selkirk), XXI, *a* 670
WINDMILL (Ill.), XXIV, b 630–2; (Cubitt, W.), VI, b 604; Electric. VIII, a 60; pumping (Mining), XVI, b 479
Windom, William, senator (United States), XXIII, b 833
Window-fittings (Building), IV, a 444; -glass (Glass), X, *a* 582, a 588
Windows (Building), IV, b 441, b 442–4; modern Italian (Architecture), II, b 385; mosaic (Glass), X, a 596–600; Roman (Glass), a 578; stained glass (Essex), VIII, b 489; (Gouda), XI, a 3; in Greek temples (Architecture), II, b 356, a 360
Window tax (France), IX, b 454
Wind pressure (Windmill), XXIV, b 631-2
—— River mountains (United States), XXIII, a 846, *a* 847, a 848; (Wyoming), XXIV, *b* 748
Winds (Africa), I, a b 230, b 240; (Battle), III, a b 256; (Black Sea), b 692; (Brazil), IV, b 202; (California), a 620; (Caspian Sea), V, b 156; (Egypt), VII, b 609–10, b 630 note; (Europe), VIII, a b 605; (Geneva, Lake of), X, a 136; (Greece), XI, a b 75; (Harpies), *b* 438; (Hermas), b 670; (Himalaya), a b 741; (Holland), XII, b 66; (Navigation), XVII, b 282–4; (Nebraska), a 316; (Norway), a 594; (Polar Regions), XIX, b 339-40; (Red Sea), XX, b 329; (Roumania), XXI, b 19; (Russia), b 83; (Sweden), XXII, a 777; (Switzerland), a 816; causes of (Atmosphere), III, a 27, b 30-2; (Geography), X, b 188; diurnal mountain

Winds, *continued*
(Asia), II, a 604; periodic (Asia), b 602-3; (Kant), XIII, b 856; prevailing (Climate), VI, a *b* 7; (Meteorology), XVI, b 148, b 149; (Pacific Ocean), XVIII, a b 121; (United States), XXIII, b 856-7; surface (Meteorology), XVI, b 161
WINDSOR, borough and castle (Plan), XXIV, b 632-3; (Architecture), II, a 409, a 410, b 419; (Holbein), XII, b 57; (Libraries), XIV, b 546; (Organ), XVII, b 854, a 860, b 861, b 862; (Schools of Painting), XXI, a 466; (William of Wykeham), XXIV, a 617
Windsor, Connecticut, town (United States), XXIII, a 779
—— New South Wales (Observatory), XVII, b 737
——, Nova Scotia, XVII, a 618
Windsor Beauties, painting (Lely), XIV, a b 435
—— brick (Furnace), IX, a 742
—— forest, XXIV, b 633; IX, *a* 351
Windsor Forest (Pope), XIX, b 497, a b 499
Windthorst, Ludwig, statesman (Hanover), XI, b 400
Windu, chronological period (Java), XIII, b 613, note
Windward Islands (Barbados), III, b 310, a 312; (Birds), b 649 note; (St. Vincent), XXI, a 211
—— Islands (Tahiti), XXIII, a 27
WINE, beverage, XXIV, a 633-44
    CHEMISTRY, a 633-5
        brewing, b 634-5
        fermentation, a 633-4
        injurious ferments, a b 635
        maturing processes, a b 634
        minorfermentations b 634
        plastering, a 635
        sparkling wines, b 635
    INDUSTRY AND TRADE, b 633-44
        Algeria, a 639
        Alto Douro vintage, b 640-1
        Asia, b 644
        Austria-Hungary, a b 643
        Australia, b 644
        Burgundy, b 638-9
        Champagne, a b 638
        Charente, a 639
        France, b 636-9
        Germany, b 643-4
        hermitage, a 639
        history, a b 636
        insect ravages in Portugal, a b 641
        Italy, b 642-3
        Madeira, b 641-2
        Medoc, b 636-7
        Portugal, a 640-2
        Saumur, a b 638
        Sauterne, b 637-8
        Spain, b 639-40
        United States, a b 644
—— (Birch), III, b 603; (California), IV, b 624; (Canary Islands), b 703; (Catawbas), V, a 191; (Chablis), a 322; (Dietetics), VII, b 175; (Falernus Ager), IX, a 13; (Fermentation), a 81; (Germany), X, b 405; (Gooseberry), b 693; (Gout), XI, a b 8; (Grünberg), b 199; (Hungary), XII, b 377, note, a 378 note; (Ischia), XIII, b 395; (Italy), b 451, a 452, b 465, b 466; (Jura), b 792; (Kâfiristân), *b* 830, b 832; (Kizliar), XIV, a 108; (Lebanon), b 395; (Madeira), XV, a 179; (Malaga), b 318, a 319; (Marne), XV, b 568, a 569; (Marsala), b 577; (Medoc), b 833; (Mexico), XVI, b 910; (Montilla), a 817; (Oporto), XVII, b 818; (Portugal), XIX, a 553; (Roumania), XXI, b 19-20, b 22, a 25; (Scio), XXI, a 487; (Shiraz), *a* 868; (South Australia), XXII, a 298; (Southampton), b 296; (Spain), a 314, *a* b 317; (Tokay), XXIII, a 461. See Wines
——, as a physic (Pitt), XIX, a 144; consumption of (Paris), XVIII, a 290; malmsey (Malvasia), XV, b 348; Rhenish (Nassau), XVII, b 244; shipping for flavor (Wine), XXIV, a 642; symbolism of (Gospels), X, b 738-9, note; use of (Persia), XVIII, b 650-1; (Sacrifice), XXI, b 142; Xeres (Cadiz), IV, b 557
—— and spirits (Adulteration), I, a 157-8
WINEBRENNER, John, revivalist, XXIV, a 902
Wine festival of Athens (Anthesteria), II, b 91
—— jars (Inscriptions), XIII, a 127, note
Wineland, sagas of (Iceland), XII, a 660
Wine myths (Dionysus), VII, b 216-7
Wines (Alcohol), I, b 416; (Arbois), II, a 275; (Bordeaux), IV, a 46, a 47; (Cape Colony), V, b 39, a 45; (Catalonia), b 189; (Distillation), VII, a b 230; (Gaillac), X, a 15; (Gironde), b 556; (Greece), XI, a 79; (Gyöngyös), a 313; (Lot-et-Garonne), XV, b 10; (Persia), XVIII, b 634; (Prussia), XX, a 18, b 25; (Pyrénées), a 134; (Rhine), a 535; (Worms), XXIV, a 720; (Yonne), *b* 783
——, ancient (Egypt), VII, b 613; champagne (Epernay), VIII, *b* 406
WINES, Enoch Cobb, penologist, XXIV, a 902; (Reformatories), XX, b 899, a 901, b 903
——, Frederick Howard, penologist, XXIV, b 902
Wine trade (Châlons-sur-Marne), V, b 328; (Champagne), a 335
Winfred. See BONIFACE, St.
Wing, A., geologist (Vermont), XXIV, a 181
Wingfield, Edward Maria, governor (Smith), XXII, *a* 185
Wing-membrane (Mammalia), XV, a 413; muscle fibre of (Histology) (Ill.), XII, a 11
Wings (Coleoptera), VI, a b 115; (Dragon-Fly), VII, a b 334, b 335, a 336; (Flight) (Ill.), IX, b 271-9; (Gnat), X, b 624; (Hemiptera), XI, b 576; (Hymenoptera) (Ill.), XII, *b* 605-6; (Insects), XIII, b 150; bones of (Birds), III, b 625, a 628; chiroptera (Mammalia), XV, b 409-10, a 413; lepidoptera (Butterflies and Moths), IV, b 527
——, stage (Theatre), XXIII, b 243-4
Winifred, St., well of (Holywell), XII, a 110
Winili, tribe (Lombards), XIV, b 822
Wininasht, tribes (Indians), XII, b 866
Winkel, Diederich, inventor (Metronome), XVI, b 206
WINKELRIED, Arnold von, hero, XXIV, b 644-6
Winkler, H., philologist (Ural-Altaic), XXIV, b 6 note, a 7
——, physicist (Electricity), VIII, *a* b 6, a 7
Winkworth, Catharine, poet (Hymns), XII, a 618, a 619, a *b* 621, a *b* 622, *a b* 623
WINLOCK, Joseph, astronomer, XXIV, b 902; (Telescopic Work), XXIII, a 935
Winnebagoes, tribes (Indians), XII, b 867, b 872
Winnebah, town (Gold Coast), X, b 672
Winnecke, A., astronomer (Parallax), XVIII, b 252, b 253; his Comet, VI, b 168, b 171, a 172
Winnemucca lake (Nevada), XVII, b 376
Winnibigoshish, lake (Minnesota), XVI, b 498
Winning (Coal), VI, a b 58
WINNIPEG, city, XXIV, a b 646; (Manitoba), XV; b 497, *a* b 498
——, lake (Canada), IV, a 679; (Manitoba), XV, *b* 497, *a* 498; river (Manitoba), *b* 497
Winnipegoosis, lake (Manitoba), XV, b 497
Winnisimmet, town (Chelsea), V, a 397
Winnowing machine (Agriculture), I, *b* 289, a b 290
WINONA, Minnesota, city, XXIV, b 646
Winooski, town (Burlington, Vermont), IV, b 491
Winsford, town (Cheshire), V, b 511, b 512
Winslow of Denmark, physician (Anatomy), I, b 713
——, Cleveland, colonel, XXIV, b 903
WINSLOW, Edward, governor, XXIV, b 646-7, b 902-3
——, Foster Benignus, alienist, XXIV, a 903
——, Francis, pisciculturist (Oyster), XVIII, a b 113, a 114
——, Gordon, divine, XXIV, b 903
——, Hubbard, divine, XXIV, b 903
——, Isaac, 1st., soldier, XXIV, a 903
——, Isaac, 2d, physician, XXIV, a 903
——, John, general, XXIV, a 903
——, John Ancrum, admiral, XXIV, a 903
——, Josiah, governor, XXIV, a 903
——, Myron, missionary, XXIV, a b 903
Winsor, Frederick Albert, manufacturer (Gas and Gas-Lighting), X, b 79
——, Justin, author (Libraries), XIV, b 536, a 537; (Standish), XXII, a 919; (Vespucci), XXIV, a 209; (Washington), b 411
Winstanley, William, architect (Lighthouse) (Plate VII), XIV, a b 620
—— and Barker's machine (Coal) (Ill.), VI, a 64
Winster, river (Lancashire), XIV, a 253
Winston, Charles, art-critic (Glass), X, a *b* 596, b 600, a 601
Winteler, J., philologist (Germany), X, a 467, note
WINTER, Peter, musician, XXIV, a 647
——, Robert and Thomas, conspirators (Fawkes), IX, a b 51, a 52
Winter, poem (Thomson), XXIII, a 332
Winter bean (Agriculture), I, a b 321, b 334
Winterberg, plateau of (Westphalia), XXIV, a 545
Winter-berry (Arboriculture), II, b 280; (Holly), XII, b 105
—— garden (Horticulture), XII, a 254
Wintergreen oil (Chemistry), V, a 497; (Methyl), XVI, b 204
Winter isothermals (United States), XXIII, b 855-6
—— palace (St. Petersburg), XXI, a 201
Winters, New England (United States), XXIII, a 780, note
——, open (Meteorology), XVI, a 160
Winter's machine (Electricity) (Ill.), VIII, b 94
Winter's Tale, Shakespeare (Euripides), VIII, a 592; (Greene, R.), XI, a 147; (Kite), XIV, a 106 note; (Shakespeare), XXI, a 786, a 801, b 805
Winter temperature, diurnal (Meteorology), XVI, a b 122
WINTERTHUR, town, XXIV, a b 647; (Zurich), *b* 870, a 871; (Switzerland), XXII, b 817, *a* 819, *a* 825
Winter vetches (Agriculture), I, b 334
—— wheat (Agriculture), I, a 315, a 316
Winther, Christian, poet (Denmark), VII, a b 81
WINTHROP, family, XXIV, b 903-5
WINTHROP, Fitz John, general, XXIV, b 904-5
——, Frederick, general, XXIV, b 905

Winthrop, James, judge, XXIV, b 905
——, John, astronomer, XXIV, b 905
WINTHROP, John, governor, Connecticut, XXIV, b 647, b 904
WINTHROP, John, governor, Massachusetts, XXIV, b 647, b 903–4; (Boston), IV, b 64
——, Robert Charles, senator, XXIV, a 905
WINTHROP, Theodore, novelist, XXIV, a b 905; (American Literature), I, a 638, *b* 642
——, Thomas Lindall, merchant, XXIV, a 905
——, Waitstill, judge, XXIV, a 905
Winton, earl of (Eglinton), VII, a 606
——, Andrew of. See WYNTOUN
Winyaw bay (South Carolina), XXII, *a* 301
Winze, shaft (Mining) (Ill.), XVI, a b 472
Winzet, Ninian, abbot (Scotland), XXI, a 568
"Wippe" (Poggendorff), XIX, a 286
Wircebirgum, town. See WURZBURG
WIRE, XXIV, b 647–8; (Elasticity), VII, *a* b 692, a *b* 694, a b 696, b 699, *a* 701, b 705, b 707, a *b* 709–10; (Electricity), VIII, b 54–5; (Gold), X, b 659, a 668; (Gold Lace), *a* *b* 671; electric qualities of (Telephone), XXIII, a b 143; electric resistance (Telegraph), b 124–5, a 127; flexure of (Mechanics), XV, a 751–2; galvanized (Iron), XIII, b 363; gold (Textiles), XXIII, a 228; tenacity of (Iron), XIII, b 363; undulations in (Wave), XXIV, a 438–9
—— apparatus (Sounding), XXII, a 295; drawing (Brass), IV, a b 196; (Steam-Engine), XXII, a b 506, a 529; entanglement (Fortification) (Ill.), IX, a b 373; fencing (Agriculture), I, b 276; Gauges, X, *b* 99; guides (Coal), VI, b 69; Nails, XVII, a 173; Netting, XVII, a 369; Rope, XX, b 868–9; (Clocks), VI, b 29; (Lifts), XIV, a 578; suspension bridges (Bridges), IV, b 271, a 272; -wicks (Candles), IV, a 709
—— -worm (Agriculture), I, a 314, b 316; (Coleoptera), VI, a 120; (Insects), XIII, a 155; (Wheat) (Ill.), XXIV, b 556
Wirsen, Karl David af, poet (Sweden), XXII, b 796
WIRT, William, jurist, XXIV, b 905–6; (Waddell), b 878
Wirzberg. See Würzburg
WISBECH or Wisbeach, borough, XXIV, b 648–9; (Cambridge), IV, *b* 643, b 644
WISBY, town, XXIV, a 649; (Hanseatic League), XI, *a* b 402, a 403; (Lübec), XV, a b 34
—— laws (Sea Laws), XXI, a 611, a 612–3
Wisconsin, river, XXIV, b 649, a b 651, *a* 652
WISCONSIN, state (Plate XV) (Sketch), XXIV, a 649–50
  area and surface, a b 649
  civil organization, a b 651
  climate, b 650–1
  education, b 651–2
  geology, b 649–50
  history, a b 652
  industrial system, a b 651
  soils and vegetation, b 650
—— (Glarus), X, a 567; (Reformatories), XX, b 898, a 901; (Universities), XXIII, a 913, a b 958; (Workingmen, United States), XXIV, b 918, *a* 919; antiquities of (America), I, a 608; history of (United States), a 795, b 811, a 817, a 822; statistics (United States), b 853, a 855, a b 856, *a* b 857, a 858, b 860, b 863, a 866, a b 873, *a* b 878, a 879
"Wisdom" (Apocrypha), II, a *b* 159, *b* 160; (Ecclesiastes), VII, a b 540; (Logos), XIV, *b* 813–4; literature of (Job), XIII, a b 713
—— (Stoics), XXII, b 596, a b 599
——, age of (Stevinus), XXII, b 573
Wisdom, Book of (James), XIII, b 563; (Proverbs), XIX, a 904–9; (Solomon), XXII, a 265
—— *of God* (Ray), XX, *a* b 314
—— *of Jesus* (Isaiah), XIII, b 389; (Canon), V, *a* b 4, note, *a* 5, *b* 6, *b* 7
—— *of Solomon* (Apocrypha), II, a *b* 159, *a* *b* 160
—— teeth (Dentistry), VII, a b 84; (Digestive Organs), b 202
Wise, mountain (Devonport), VII, a 120
WISE, Henry Alexander, governor, XXIV, a 906
WISE, Henry Augustus, sailor, XXIV, a b 906
WISE, John, theologian, XXIV, b 906
——, John, balloonist, (Aëronautics), I, a 173, a b 174, a 175, *a* 182, a 187
——, John S., legislator, XXIV, b 906
——, Thomas A., physician (Surgery), XXII, a b 707, a 708, a 712
Wiseman, Nicholas, cardinal, *b* 1802, *d*. 1865 (Syriac Literature), XXII, b 865, b 882 note
——, Richard, physician (Surgery), XXII, *b* 710, a 711
Wise men, the three (Cologne), VI, b 136
—— men of Greece (Thales), XXIII, b 235; *Banquet of the Seven* (Plutarch), XIX, b 245
Wiserine (Mineralogy), XVI, b 420
Wishart, George, martyr (Beaton), III, b 402; (Dundee), VII, a 462; (Scotland), XXI, a 522
WISHAW, burgh, XXIV, b 652
Wisheart, Robert, bishop (Glasgow), X, a b 569
Wisibada, town (Weisbaden), XXIV, b 591
Wisigothorum, Lex (Salic Law), XXI, a b 226
WISMAR, town, XXIV, b 652–3; (Hanseatic League), XI, b 402; bay and town (Mecklenburg), XV, a b 785
Wisniowiecki, Adam, prince (Russia), XXI, *b* 102; (Poland), XIX, a 307
Wissahickon creek (Philadelphia), XVIII, b 754
Wissant, town (Itius Portus), XIII, a 528
Wissenschaft der Gesetzgebung (Zachariæ), XXIV, b 800
Wissenschaftslehre (Chalybäus), V, a 329; (Schelling). XXI, b 406, a b 407
Wis u Rámín, Jurjání's (Persia), XVIII, a 670, a b 673
Wiszniewski, Michael, historian (Poland), XIX, a 317
Wit (Luxembourg), XV, a 88; (Macaulay), b 130; (Macedonian Empire), a 141; organ of (Phrenology), XVIII, b 859
Witan. See Witenagemot
Wit and Humor (Hunt), XII, b 399
Witch, tragedy (Middleton, Thomas), XVI, b 295
Witch animals (Lycanthropy), XV, a 90–3
WITCHCRAFT, XXIV, a 653–7
  church law, a b 653
  continent of Europe, a 656–7
  English law, b 653–5
  Ireland, b 656
  literature, *a* 656, a 657
  present state of English law, a b 655
  Roman law, a 653
  Scotland, b 655–6
  trials, English, b 654–5
  United States, a 656
—— (Agrippa, H. C.), I, a 372; (Apparitions), II, b 178–9; (Banswara), III, b 299; (Calabar), IV, b 576; (Calabar Bean), a 577; (Demonology), VII, b 55, b 56; (Fairfax, E.), VIII, b 745; (Fetichism), IX, b 104; (Forfar), a 363; (Gaelic), X, a b 10; (Gregory, D.), XI, a 163; (Hale, Sir M.), a 341; (Hottentots), XII, b 325; (Kaffraria), XIII, a 829; (Loango), XIV, a 749; (Loudun). XV, a 17; (Lycanthropy), b 90; (Mackenzie), a 159; (Magic), a 200, a 203, a 206; (Medical Jurisprudence), a 793; (Mexico), XVI, b 227 note; (Mythology), XVII, a b 152; (Ordeal), a 844; (Popedom), XIX, a 518; (Salem), XXI, a 221; (Sewell), b 917; (Shamanism), a 807–8; (Torture), XXIII, b 494, note, a b 495; (Zululand), XXIV, b 867
——, *Discoverie of* (Scot, R.), XXI, b 491
Witches' Kitchen, woodcut (Engraving), VIII, b 389, a 390
Witches' Thimbles (Harebell), XI, b 427
Witch Hazel, VIII, a 141; XI, b 490; (Arboriculture), II, a 281, a 282
Witch of Atlas, poem (Shelley), XXI, b 830
—— *of Edmonton*, play (Ford), IX, a b 348
Witch Sabbaths (Jew, Wandering), XIII, a 685
Witenagemot, assembly (County), VI, b 455; (England), VIII, b 249, b 267; (Hardicanute), XI, b 423; (Parliament), XVIII, a b 308; (Peerage), a 470, b 472; (Oxford), a 102
Witham, river (Lincoln), XIV, a 661
Withamite (Mineralogy), XVI, a 427
Witham's machine rabble (Iron) (Ill.), XIII, a 330
WITHER, George, poet, XXIV, a 657; (Hymns), XII, b 626–7; (Pastoral), XVIII, a 352
Withering, William, physician (Digitalis), VII, b 207
Witherings, Thomas, postmaster (Post-Office), XIX, *a* b 579, note
Witherite, mineral (Barytes), III, a 350; (Glass), X, a 585; (Mineralogy), (Ill.), XVI, b 414
Withernam, capias in (Writ), XXIV, *a* 731
WITHERSPOON, John, educator, XXIV, b 906–7
WITHINGTON, town, XXIV, a 657
Witiza, king of Visigoths (Mohammedanism), XVI, a 596; (Salic Law), XXI, b 226
—— or Benedict, St. Aniene, monk (Monachism), XVI, a 734
Witloef, salad (Horticulture), XII, a 293
WITNESS, law-term, XXIV, a 657–8; (Bankruptcy), III, a 296; (Evidence), VIII, a b 649, a b 650, a b 651–2; (Government), XI, a 17; (Jury), XIII, *b* 794, a 795; (Liguori), XIV, b 645; (Siam), XXI, a 892; (Treason), XXIII, *a* b 561. See Evidence, Testimony
——, John's doctrine of (Gospels), X, a b 737–8, a 743
WITSIUS, Hermann, theologian, XXIV, b 658
Witt, Cornelius and John de. See DEWITT
Witte Berg, mountains (Cape Colony), V, a 38
Wittekind or Widukind, chief (Saxony), XXI, *b* 367, b 368; (Charlemagne), V, b 349
Wittelsbach, house of (Germany), X, a 440, *a* 442, b 451; succession (Bavaria), III, b 392
WITTEN, town, XXIV, b 658–9
WITTENBERG, town, XXIV, a 659; (Cranach), VI, *a* *b* 482; capitulation of 1547 (Saxony), XXI, a 369

Wittenberg Concordia (Luther), XV, b 84, a 85; *Reformation* (Luther), a 85; *Theses* (Luther), b 73
Wittengen Bridge (Ill.), IV, a 300-1
Wittich, Christoph, theologian (Descartes), VII, b 109
—— of Breslau (Napier), XVII, *b* 189, a 190
Wittichenite (Mineralogy), XVI, b 411
Wittikind. See Wittekind
Wittstein's *Logarithmes de Gauss* (Tables), XXIII, b 17
Witwater Rand, range (Transvaal), XXIII, *a* 550
Witwicki, poet (Poland), XIX, a 316
Wives (Contract), VI, a 287; (Ethnography), VIII, a 544; (Insurance), XIII, a 188; (Real Estate), XX, a 320; (Settlement), XXI, b 728, a b 729; crimes of (Women), XXIV, b 675, a b 676; rights of (Husband and Wife), XII, b 416-8; (Women), XXIV, *b* 674, *a b* 675, b 676. See HUSBAND AND WIFE, MARRIAGE
Wives and Daughters, novel (Gaskell), X, b 94, a b 95
Wladimir, duchy. See VLADIMIR
Wladyslaw. See LADISLAUS
WLOCLAWEK or Vlotslavsk, town, XXIV, a b 659
Woad, dye-stuff (Dyeing), VII, a b 498, a 501; (Indigo), XII, *a* b 884
WOBURN, Massachusetts, town, XXIV, b 659
—— drill (Agriculture), I, b 285
Woden or Wuotan, deity. See Odin
Wodrow, Robert, historian (Pitcairne), XIX, b 142
Woegel, Michel, inventor (Trumpet), XXIII, a 631
WOELFL, Joseph, composer, XXIV, b 659
Woermann, Kaspar, historian (Van Dyck), XXIV, b 66, note, b 71
Woffington, Peg, actress (Garrick), X, a 76
WOHLER, Friedrich, chemist, XXIV, b 659-61; (Chemistry), V, b 403, a b 451; (Chromium), a 612; (Mercury), XVI, b 39; (Prussic Acid), XX, a 27, *a* 30; (Saint-Claire Deville), XXI, *b* 174; (Titanium), XXIII, *b* 437; (Uranium), XXIV, b 11; (Urea), *a* b 15; (Uric Acid), b 16; (Vanadium), b 60; his experiments (Strength of Materials), XXII, b 632-3; his process (Fluorine), IX, a 306; (Methyl), XVI, b 203; (Potassium), XIX, b 606
Wöhlerite (Mineralogy) (Ill.), XVI, b 444
WOHLGEMUTH, Michael, painter, XXIV, a b 661; (Dürer), VII, b 479, b 480; (Sculpture), XXI, a 592; his *Christmas Dancers* (Engraving), VIII, a b 389
Woide, Dr. (Alexandrian MSS.), I, *a* b 439
Wola, diet of, 1573 (Poland), XIX, a 303
Wolborough, town (Newton Abbot), XVII, a 461
Wölchite (Mineralogy), XVI, b 411
WOLCOT, John, or Peter Pindar, satirist, XXIV, b 661-2; (D'Israeli, Isaac), VII, *a* 226; (Opie, John), XVII, *b* 809
WOLCOTT, family, XXIV, a 907-8
—— Erastus, judge, XXIV, b 907
——, Erastus Bradley, surgeon, XXIV, a 908
——, Frederick, manufacturer, XXIV, a 908
——, Henry, puritan, XXIV, a 907
——, Oliver, governor, XXIV, b 907
——, Oliver, Jr., governor, XXIV, b 907-8
——, Roger, governor, XXIV, b 907
——, Samuel, missionary, XXIV, a 908
Woldemar (Jacobi), XIII, b 546
Wolds, low hills (Horncastle), XII, a 174; (Lincoln), XIV, *a b* 660, *a b* 661; (York), XXIV, a 784, a 786
WOLF, animal, XXIV, a 662-3; (Canada), IV, *b* 684; (Dog), VII, *b* 281-2; (Fur), IX, a 736, a 737; (India), XII, b 779; (Norway), XVII, a 595; (Sweden), XXII, a 779; cults (Sacrifice), XXI, b 143-4, note; (Totemism), XXIII, b 499; (Tasmania), a b 80. See LYCANTHROPY
WOLF or Wolfius, Friedrich August, philologist XXIV, a b 663; (Boeckh), III, b 739; (Greece), XI, a 123; (Homer), XII, b 118, a b 119, a b 120, *a* 125
——, Johann Christoph, scholar (Ana), I, a 689
——, Joseph, artist (Ornithology), XVIII, a 16, a 18; (Ostrich), a 67; (Peacock) (Ill.), b 454; (Pheasant), a 747
——, M., physicist (Seismometer), XXI, *b* 661
——, Rudolf, of Zurich (Astronomy), II, a b 688; (Meteorology), XVI, b 175, a 185
—— -Dogs (Ill.), VII, a 283-4
WOLFE, Charles, poet, XXIV, b 663-4
WOLFE, James, general, XXIV, a b 664; (Chatham, Earl of), V, a 383
——, Reginald, printer (Typography), XXIII, b 739
WOLFENBUTTEL, town, XXIV, b 664; (Brunswick), IV, b 360, a b 361
Wolfenbüttel Fragments (Bretschneider), IV, b 233; (Germany), X, b 479; (Lessing), XIV, b 481-2; (Reimarus), XX, a b 365, a 366
Wolferstone, Charles, governor (Barbados), III, a 310
Wolff, Albert, sculptor (Sculpture), XXI, a 593
——, Bernhard, editor (Newspapers), XVII, a 440
——, Betjen, poet (Holland), XII, b 99, a 100
WOLFF, Caspar Friedrich, embryologist, XXIV, b 664-5; (Biology), III, b 591, b 594; (Embryology), VIII, b 151-2; (Evolution), a 653, a 657; (Morphology), XVI, a 865, a 868; (Physiology), XIX, b 14; (Zoology), XXIV, *b* 854
WOLFF, Christian, philosopher, XXIV, a 665-6; (Bilfinger), III, *b* 581; (Crusius), VI, a b 558; (Ethics), VIII, a 536; (Germany), X, a 476; (Kant), XIII, b 859, a 860; (Rationalism), XX, b 301, *a* 302; (Universities), XXIII, a 903; (Wyttenbach), a b 750
——, Elizabeth, novelist, (Bekker, E.), III, a 441
Wolffian bodies (Reptiles), XX, b 475, a 476
Wolf-fish (Ichthyology), XII, a 729; (Sea-Wolf) (Ill.), XXI, a b 645. See SEA WOLF
Wolfius. See Wolf
Wolf of Badenoch, the (Dunkeld), VII, a 469; (Scotland), XXI, a b 513. See Buchan, Alexander, earl
Wolfram of Sens, missionary (Holland), XII, a 73
WOLFRAM VON ESCHENBACH, poet. XXIV, a b 666; (Germany), X, a 464, a 469, a 470; (Romance), XX, b 654, b 660, b 662, b 665
Wolframite (Mineralogy) (Ill.), XVI, b 420; (Tin), XXIII, *b* 427
Wolfram, metal (Mineralogy), XVI, a 387; (Mining), a 489. See TUNGSTEN
Wolfram's table (Logarithms), XIV, a 784, a 786; (Tables), XXIII, a 16, a 17
Wolf Rock (Lighthouse) (Plate VII), XIV, a b 621, a 623, b 636
Wolfsbane (Aconite), I, b 92
Wolfsbergite (Mineralogy), XVI, b 410
Wolf's Crag (Berwickshire), III, b 529
—— engine (Steam-Engine), XXII, a 495, a 510, a 514-5, *b* 539
Wolimer, Gothic king (Electricity), VIII, a 5
Wolkonskoite (Mineralogy), XVI, b 443
Wollaston, Francis, astronomer, XXIV, b 666; (Astronomy), II, b 701, b 705
Wollaston, G. H., entomologist (St. Helena), XXI, a 180
WOLLASTON, William, theologian, XXIV, b 666; (Ethics), VIII, a 529
WOLLASTON, William Hyde, chemist, XXIV, b 666-7; (Camera Lucida), IV, a 654; (Chemistry), V, b 402, a 403; (Goniometer), X, b 686; (Light), XIV, *a* b 597, note, b 614; (Micrometer), XVI, a 252; (Mineralogy), XVI, b 375; (Mitscherlich), a 555; (Pen), XVIII, b 494; (Photography), a 834; (Photometry), a 856; (Platinum), XIX, a b 201; (Telescope), XXIII, a 169; (Titanium), b 437; (Wire), XXIV, a 648
Wollastonite (Mineralogy), (Ill.), XVI, a 385, b 433
Wollaston's doublet (Microscope), XVI, a b 270, a 272, note
Wolle, Christopher, theologian (Hermeneutics), XI, a 664
Wolleben, Herni, hero (Winkelried), XXIV, b 645
Wolley, John, naturalist (Gare-Fowl), X, b 71, a 72; (Waxwing), XXIV, a 487, note
WOLLIN, island and town, XXIV, b 667; (Oder), XVII, a 745; (Slavs), XXII, a 154
Wollstonecraft, Caroline Lengsfeld von, author (Schiller), XXI, a 415
——, Mary. See GODWIN and SHELLEY
Wolmar, Melchior, reformer, (Beza), III, a b 538
Wolofs or Yolofs, race (Africa), I, b 235; (Dictionary), VII, b 167; (Negro), XVII, a 328; (Senegambia), XXI, a 695
Wolseley, Sir Joseph Garnet, baron (Ashantee), II, a 596; (Red River), XX, b 328
WOLSEY, Thomas, cardinal, XXIV, b 667-70
  birth and education, b 667-8
  chancellorship, a 669
  failure of, b 669-70
  French diplomacy, b 668-9
  Henry VII. period, a b 668
  Henry VIII. period, b 668-70
  Lives of, a 670
  private patronage time, a 668
—— (Cromwell, T.), VI. *b* 534, notes, *a* 535; (England), VIII, b 299-300; (England, Church of), b 335, a b 336; (Fox, R.), IX, a 443; (Gardiner, S.), X, *a b* 69; (Hampton), XI, b 386; (Henry VIII.), *b* 591, *a* 592; (Latimer), XIV, a 326; (Mary I.), XV, a *b* 599; (Monachism), XVI, a 738; (More, Thomas), a b 843; (Oxford), XVIII, a 100; (Reformation), XX, b 340, *a* 341, *a b* 342, a 343; (Talbot), XXIII, b 31; (Textiles), a b 231; his gateway (Ipswich), XIII, a 218; his tomb (Windsor), XXIV, a 633
Woltz, river (Luxemburg), XV, b 88
Wolverene or Wolverin (Fur), IX, a 736, a 737. See GLUTTON
WOLVERHAMPTON, town, XXIV, a b 670; (Stafford), XXII, b 459, *a* 460
Woman of Canaan (Drouais), VII, b 408
—— *Hater, The*, play (Beaumont and Fletcher), III, b 405

Woman, Vindication of Rights of (Godwin), X, b 638
Woman-pope, Joan (Benedict), III, a 482
Woman's Cave, V, a 234
Woman taken in Adultery, Louvre (Metsu), XVI, a 207
WOMBAT, marsupial (Ill.), XXIV, b 670-1; (Australia), III, a 97; (Mammalia), XV, b 357, a 381, a 382, a 386; (Western Australia), XXIV, a 536
WOMBWELL, town, XXIV, a 671
Women (Abbess), I, b 16; (Adam), *b* 124, b 126, a *b* 127; (Abduction), b 35; (Acclimatization), b 84; (Adoption), b 149; (Aëronautics), b 172, b 173, a 175; (Afghânistân), a 212; (Africa), b 236; (Agriculture), b 263; (Alien), b 506, a b 507; (Amazons), a b 576; (Anatomy), b 720, b 724, *a* 727; (Apothecary), II, b 174; (Arabia), b 220; (Archery), b 326, a 330; (Aristotle), a 456; (Artotyrites), b 585; (Babi), III, b 156, a 157; (Baths), b 377, a 378; (Beards), b 401; (Beauvais), b 410; (Bhopal), b 545; (Bremer), IV, b 229; (Burmah), a *b* 494, a 495; (Camisards), b 657, a 658, note; (Cavalry), V, b 227-8; (China), b 582, a 583; (Circumcision), a 691; (Club), VI, b 38, a 40; (Cochabamba), b 84; (Communism), b 189-90, a 194; (Comte), a 212; (Corea), b 349; (Dagger), b 670; (Dahomey), a b 676; (Druidism), VII, b 412; (Egypt), b 618, a 619, a 624, a 626, a b 627, b 628, a 629; (Ethnography), VIII, b 543-4, a 549; (Etruria), b 559; (Factory Acts), *a* b 740; (Family), IX, a b 18, a b 19; (Games), X, a 58; (Ganymede), b 65; (Gilgit), *a* 534; (Gipsies), *a b* 550; (Gladiators), a 563; (Gout), XI, b 8; (Greece), a 84; (Henna), b 583-4; (Heraldry), a 617, a b 630, b 632; (Hottentots), XII, b 323, *a* 324; (Illyria), a 748; (Insanity), XIII, b 107, b 108-9, b 115; (Ireland), b 256, a b 263, a 264; (Japan), b 596; (Juno), b 788; (Knighthood), XIV, b 124-5; (Labor), b 169; (Libraries), a 541; (Lycurgus), XV, b 97-8; (Maldive Islands), a 332, a 333
—— (Methodism), XVI, b 200; (Micronesia), b 267; (Monachism), a b 732; (Mosque), a 891; (Municipality), XVII, a 34; (Mysticism), b 139, b 140; (Mythology), a 149; (New Britain), *a* 382; (Niam-Niam), b 487; (Orgies), b 863; (Ovid), XVIII, a 83; (Parsis), b 330, a 331, b 332; (Periodicals), b 555, a 556; (Persia), a 620, a 626; (Plato), XIX, b 221; (Pillory), b 104; (Polynesia), b 436, b 438, b 440; (Population), b 528, a b 529; (Post-Office), a b 587; (Precedence), a 684-5, b 687, note; (Presbyterianism), a 717; (Prison Discipline), a 769, a 776, a 779; (Primogeniture), b 752-3; (Quakers), XX, b 157, a 158; (Salic Law), XXI, a b 224; (Siam), a b 154, b 156, a b 893; (Sleep), XXII, b 166-7; (Socialism), a 231; (Suicide), a *b* 664, *a* 665; (Suttee), a 763; (Taboo), XXIII, b 20, a 21; (Tahiti), b 28; (Temperance), a b 175; (Theatre), b 241; (Tibet), b 365, b 366; (Tiresias), a b 434; (Treason), b 560, b 561; (Will), XXIV, b 604, b 605; (Witchcraft), *b* 653, a b 654, note, a 655, note. See Gynæcocracy, Gynæcology
WOMEN, American, a 908-13
  aptitudes, a b 908
  bibliography, b 913
  colleges, a b 911-2
  colonial education, b 910-1
  contracts, b 909
  custodial rights, *a* 910
  divorce, a 910
  dower, a 910
  education, a 910-1, 912
  marital legislation, b 908-9
  party organization, b 911-2
  property rights, b 908-9
  rise of reforms, a 908
  school suffrage, b 913
  testaments, b 909
  torts and testimony, b 909

—— (Garrison), X, a b 78; (Privilege), XIX, a 758; (Sanitary Commission), XXI, b 903; (Slavery), XXII, a 900; (Weld), XXIV, b 889; education of (Preston), XIX, a 926; (Schools), XXI, a b 910; (Universities), XXIII, a 910-1, 912, b 914, b 958-6, a b 963; (Willard), XXIV, a 898; pioneers (United States), XXIII, b 805; prison at Sherborn (Reformatories), XX, a 902, a b 903; (Workingmen), XXIV, *a* b 916, a 919; labor distribution of (United States), XXIII, *a* b 876, *a* b 879
——, Aryan primitive (India), XII, *b* 819; Bœotian (Agrionia), I, a 370
——, brain of (Anatomy), I, *b* 772, *a* 773; classical servile (Slavery), XXII, a 138, a 143; corporation of (Chartres), V, a 376
——, dress of (Arabia), II, b 216, b 219; (Ireland), XIII, a b 263; (Sumptuary Laws), XXII, b 677, a 678. See COSTUME
——, Education of, VII, *a* 583; (Astell), II, a 643; (Europe), VIII, b 624-5; (Faustina), IX, a 49; (Greece), XI, b 78; (India), XII, a 815; (Ireland), XIII, b 247; (Medicine), XV, a 816; (Russia), XXI, b 78; (St. Petersburg), a 203; (Universities), XXIII, b 906, a 907, a 910; (Women), XXIV, b 674, b 676
——, *Essay on*, parody (Wilkes), XXIV, b 598
——, influence on knowledge of (Buckle), IV, a 378
WOMEN, Law relating to, XXIV, a 671-7
  ancient dependence, b 671
  breach of promise, a 677
  canon law, b 672
  common and statute law, a 673-4
  criminal law, b 675-6
  English law, a 674-6
  family rights, b 674
  literature, b 676
  northern Europe, b 672-3
  political rights, a 674
  procedure, a b 675
  professions and trades, a b 674
  property rights, b 674-5
  Roman law, b 671-2
  Scotland, a b 676, a 677
  tendency of law, a b 671
  United States, b 676, a 677

——, Accadian (Babylonia), III, b 166; Roman (Roman Law), XX, a 690, *a* 691, a 726, a 733; status in (Norton), XVII, a 588; (Will), XXIV, *a* 602
——, London (Bankruptcy), III, b 295
——, Luke's representation of (Gospels), X, a 719
——, military service in Scotland, XXI, b 498
——, *Monstrous Regiment of* (Knox), XIV, a 133
——, *On the Virtues of* (Plutarch), XIX, b 246
——, *Pedigree of* (Simonides), XXII, a 91
——, *Subjection of* (Mill, John Stuart), XVI, b 325
Women pope makers (Rome), XX, a b 805
Wonder, organ of (Phrenology), XVIII, b 859
Wonders beyond Thule, Greek novel (Romance), XX, b 650
Wonder-working Magician (Calderon), IV, b 585
Wonga-Wonga, bird (Pigeon), XIX, b 93
Woo, kingdom of (China) V, a 560
Woo-chang Foo, department (China), V, a 566
Woo-ching, city (China), V, b 552
Woo-chow Foo, department (China), V, *b* 549
Wood (Distillation), VII, b 228; (Fuel), IX, a b 709; (Natal), XVII, a 247; arches of (Bridges), IV, a 282, b 288; bending (Building), a b 348; bricks of (Building), a b 416; density table (Hydrometer), XII, b 574; flexural rigidity (Elasticity), VII, a 702; friction (Mechanics), XV, b 775; fuel (Iron), XIII, a 299; joiner's (Building), IV, b 498; shearing stress (Bridges), b 255-6; shrinkage (Building), b 434-5; strength of (Elasticity), VII, 708; structure of (Botany), IV, a b 89-90; vessels of (Histology), XII, b 20. See Lumber, Timber
—— of Largo, Sir Andrew, sailor (Scotland), XXI, b 518
WOOD, Anthony A, antiquary, XXIV, b 677-8: (Airay), I, a *b* 381; (Napier), XVII, a b 189; (Prynne), XX, b 31, a 33; (South), XXII, a b 295
——, Father, monk (Pianoforte), XIX, b 81
——, Fernando, mayor (New York), XVII, b 475; (Tammany Society), XXIII, *b* 920
WOOD, George Bacon, physician, XXIV, b 913-4
WOOD, Henry, Mrs., novelist, XXIV, a b 678
——, Horatio C., physician, XXIV, a 914; (Pathology), XVIII, b 403 note
WOOD, James Frederick, archbishop, XXIV, a 914
——, Jethro, inventor (Patents), XVIII, a 877
——, John, traveller (Polo), XIX, a 419
——, John Turtle, traveller, (Ephesus), VIII, b 414, *b* 415, *b* 416
——, Robert, archæologist (Homer), XII, a 119
——, Truman, book-illustrator (Typography), XXIII, a 750
——, William, coiner (Swift), XXII, b 804
Woodbine, vine (Honeysuckle)), XII, b 143
WOODBURY, Levi, governor XXIII, b 840; (United States), a 813
—— hive (Bee), III, b 431-2
—— machine (Brushes), IV, a 363
—— type (Photography), XVIII, a b 846
WOOD-CARVING (Ill.), XXIV, b 678-84
  Asiatic, b 683-4
  Danish, b 682
  Egyptian (Ill.), a b 679
  English, a 680-2
  French (Ill.), b 682
  German, b 682-3
  Greek, b 679-80
  Italian (Ill.), a b 682
  material for, b 678-9
  mediæval, a 680
  Mohammedan, a b 683
  Roman work, a 680
  Savage races, a b 684
  Spanish, b 682

—— (Carving), V, b 147-8; (Gibbons), X, a 520; (Gibson, J.), a 524; (India), XII, a 802; (Switzerland), XXII, a b 818; ecclesiastical (Sculpture), XXI, b 584 note, a 586, b 591-2, a 694
Wood Charcoal, V, b 345-6; (Gunpowder), XI, a b 285-6, a 287, a 289
Woodchat, bird (Shrike), XXI, b 885
Woodchuck or ground-hog (Mammalia), XV, b 408
WOODCOCK, bird, XXIV, b 684-5; (Shooting), XXI, a 874
—— -Owl, bird, XVIII, a 94
Woodcocks-pilot, bird (Kinglet), XIV, a 85
Woodcote Farm (Agriculture), I, b 281-2

Wood-engravers, fifteenth century (Typography), XXIII, a 726
Wood Engraving, VIII, b 388-91; (Manson), XV, b 507; (Walker), XXIV, b 346; (Wohlgemuth), a b 661; Bewick's (Ornithology), XVIII, a 14; earliest dated cuts (Typography), XXIII, a 726; satirical (Luther), XV, b 76; substitutes for (Typography), XXIII, b 749-50. See ENGRAVING
Wooden-shoes(Shoemaking), XXI, a 869; rebellion of, 1378 (Florence), IX, a 203
—— tongue, disease (Veterinary Science), XXIV, b 221
—— type (Typography), XXIII, a b 736, a 744
Woodfall, William, editor (Newspapers), XVII, b 427
Wood fibre (Paper), XVIII, b 229
—— -gas (Gas-Lighting), X, b 91
—— -grouse (Capercally), V, a 49
Woodhead tunnel (Railway), XX, a 242
Woodhen (Bird), III, a 644; (Ocydrome), XVII, a b 743
—— -hills (Polar Regions), XIX, a 341
Woodhouse, S. W., naturalist (Surveys), XXII, a 936
—— intaglio (Gems), X, *b* 124
—— Moor, common (Leeds), XIV, b 409
Woodhouselee, Lord. See TYTLER
Woodlark, bird (Lark) (Ill.), XIV, b 315-6
Woodlouse, Oniscidæ (Ant), II, a 86; (Crustacea), VI, b 567, b 568, b 582
"Woodmen of Arden" (Archery), II, b 328, a 329
Wood Mosaics, XVI, a 882
Wood-oil or Gurjun Balsam, III, a 253; (Oil), XVII, a 767
Wood parenchyma (Histology), XII, a 21
—— paving (Roads and Streets), XX, a 601-2, *a b* 602
WOODPECKER, bird (Ill.), XXIV, b 685-7; (Birds), III, b 620, b 623, b 627, a 629, a 641, a 655, a b 669; (California), IV, b 623; (Mars), XV, a 577; (Ornithology), XVIII, a 39, a 51; (Zoology, American), XXIV, a 924; parasite (Trematoda), XXIII, a 574
"Woodpecker," Horse, XII, a 188
Wood-pigeon (Dove), VII, b 328
—— prosenchyma (Histology), XII, a 21
—— pulp (Paper), XVIII, b 223, b 229
Woods, Alva, educator, XXIV, b 914
——, J. Tenison, geologist (Queensland), XX, b 179
WOODS, Leonard, XXIV, a 914; Leonard, Jr., theologian, a b 914
——, Lake of the (Minnesota), XVI, b 498
Wood's half-pence. See Wood, William, coiner
—— Holl, Massachusetts (Smithsonian Institution), XXII, a 916
Woodside Ferry (Birkenhead), III, a 677
Wood's metal (Cadmium), IV, b 558; (Lead), XIV, b 378
Wood spirit (Methyl), XVI, a 203
Woodspite or Woodspeight, bird (Woodpecker), XXIV, b 685
Wood's puddling method (Iron), XIII, b 331; slag machine (Iron), b 314
WOODSTOCK, England, town, XXIV, a b 687
——, town (New Brunswick), XVII, b 382, b 383, b 384
WOODSTOCK, Ontario, town, XXIV, b 687
——, manor of (Marlborough), XV, b 561
Wood Tar, XXIII, b 62-3
—— Tin, XXIII, a 427
—— tools (Hand Tools) (Ill.), XI, *b* 390, a 391-2
Woodville, Elizabeth. See Elizabeth Gray, queen
——, Lionel, bishop (Gardiner), X, a 69
——, William, physician (Vaccination), XXIV, *b* 28, a 29, b 30, a 36; his lymph (Vaccination), b 28, a 29, b 30, note
Woodward, John, geologist (Hutcheson), XII, b 427
——, Samuel P., geologist (Brachiopoda), IV, *b* 172, b 174; (Distribution), VII, a 242, *a* b 243
Woodwardian museum (Cambridge), IV, b 645
Woodwardite (Mineralogy), XVI, b 419
Woodwork, painting (Building), IV, b 457-8
Woodworth, Samuel, *b*. 1785, *d*. 1842, poet (American Literature), I, b 633
Wood-Wren, bird, XXIV, a 724; (Westmorland), b 543
Woody tissues (Physiology), XIX, a b 54
Woo-Hoo, city. See WUHU
Woo How, empress (China), V, a 561
Wookey Hole (Cave), V, b 232; (Somerset), XXII, a b 271
WOOL, John Ellis, general, XXIV, b 914
WOOL AND WOOLLEN MANUFACTURES (Ill.), XXIV, b 687-98
  American wool, b 688
  blending wool, b 692
  British wool, a b 688, a 690
  burring, a 692
  carding (Ill.), a b 693
  colonial wool, a 690
  combing, b 694-5
  condensing, b 693
  cropping, a 697
  drawing, b 695
  drying fleece, b 691-2
  felt, b 692-3
  fibre characteristics, a b 689
  finishing, a b 696
  fulling, b 696
  manufactures (Ill.) b 692-7
  material, sources of, b 687-8
  merino, b 689-90
  mule-spinning, b 693-4
WOOL AND WOOLLEN MANUFACTURES, *continued*
  oiling wool, a b 692
  pressing, a 697
  scouring, a b 691
  shearing sheep, b 690
  sheep, b 688-91
  shoddy and mungo, a 696
  stapling or sorting, b 690-1
  teasling, b 696-7
  throstle spinning, b 695-6
  trade, a 697-8
  worsted, a 693, a b 694, b 695
  yarn, a b 694
—— (Agriculture), I, b 269, a 349, b 353-4; (Alpaca), *a* b 526; (Anatomy), a 789; (Arabia), II, *a* b 211; (Bleaching), III, a 714; (Corn Laws), VI, a 363; (Felt), IX, b 60; (Fibres, Textile) (Ill.), a b 115, *b* 117; (Finance), a 155; (Goat), X, *a* b 632; (Kirmán), XIV, a 102; (Land), a 265; (London), a 839; (Mammalia), XV, b 350; (Massachusetts), b 619; (Ohio), XVII, b 757; (Negro), a 326 note; (South Australia), XXII, a 299; (United States), XXIII, a 878; Shetland (Knitting), XIV, a 128
—— bonnet manufacture (Kilmarnock), XIV, a 79
—— felt (Hat), XI, a 464
—— manufacture (Adulteration), I, b 159; (Arpino), II, a 549; (Austria), III, a 105; (Bradford), IV, b 178, a 179; (Dublin), VII, b 432; (Dyeing), b 495-7, a b 499, a *b* 500, *a b* 501-2; (Elbeuf), *a* 718; (England), VIII, a 209-10; (France), IX, b 459; (Galashiels), X, a 18; (Germany), b 412; (Gloucester), a 615; (Hainichen), XI, b 336; (Halifax), b 343; (Huddersfield), XII, b 344; (Ireland), XIII, a 226, a 235-6, b 272, b 273, a 274, a b 275; (Italy), b 461, a 463; (Kendal), XIV, b 36; (Marne), XV, a b 568; (Mazamet), b 657; (Protection), XIX, a 936, a 937; (Rheims), XX, b 521, note; (Scotland), XXI, b 557; (Seine Inférieure), a 657; (Tibet), XXIII, a b 364; (York), XXIV, b 785
Wooley, Sir Francis, benefactor (Donne), VII, b 315, a 316
Woolf's steam-engine (Mining), XVI, a 480
Woolhope limestone (Geology), X, b 296
Woolhouse, W. S. B., statistician (Annuities), II, *b* 74, a b 75, a *b* 76, a 77; (Insurance), XIII, a 177, b 179; *on Interpolation* (Tables), XXIII, b 17; his tables (Calendar), IV, a b 602, b 603. See List of Contributors
WOOLLETT, William, engraver, XXIV, a 698
Woolloomooloo bay (Sydney), XXII, a 846, b 847
WOOLMAN, John, quaker, XXIV, b 914-5; (Quakers), XX, b 157; (Slavery), XXII, b 147
Woolsey, Theodore Dwight, *b*. 1801, *d*. 1889 (International Law), XIII, b 196, b 198, a 203
WOOLSORTER'S DISEASE, XXIV, a b 698; (Pathology), XVIII, b 417
WOOLSTON, Thomas, deist, XXIV, b 698-9; (Deism), VII, a 31, b 32
Woolwas, tribes (Nicaragua), XVII, a b 492
WOOLWICH, town, XXIV, b 699-700; (Dockyards), VII, b 269, 275; (London), XIV, *a* 827, a b 831, a b 842, b 843, a 845
—— clay beds (Geology), X, b 320
—— Military Academy (Army), II, b 512, a 513; XXIV, a 700
—— ordnance (Gunmaking) (Ill.), XI, b 256-7; (Gunnery), b 272, b 274
—— Royal Arsenal, II, a 515, a 553-4; XXIV, b 699; (Artillery), II, b 574, a 575, a 581
Woon, district and town. See WUN
WOONSOCKET, R. I., XXIV, a b 700
Woo-sung, town (China), V, b 583
Woo-te I., emperor (China), V, b 559-60
—— II., emperor (China), V, b 560
Wooton locomotive (Steam-Engine), XXII, b 520
Woo-tsung, emperor (China), V, a b 561
Wootz, metal (Iron), XIII, b 296, b 352-3
Woo-Wang, emperor (China), V, b 558
Woo-yuen, tea district (China), V, b 552
WORCESTER, county (Plate XVI), XXIV, b 700-1
WORCESTER, city (Plan), XXIV, b 701-3; (Hardicanute), XI, b 423; (Libraries), XIV, b 546; (Newspapers), XVII, a 432; (Pottery), XIX, a 662, a 664; battle of, 1654 (Cromwell), VI, a 532; (Milton), XVI, b 344
WORCESTER, Massachusetts, city, XXIV, a 703; (Libraries), XIV, a 554
——, Edward Somerset, marquis of, inventor (Perpetual Motion), XVIII, b 565; (Steam-Engine), XXII, a b 491
WORCESTER, Henry A., Swedenborgian, XXIV, a 915
——, Henry Percy, earl of (Percy), XVIII, a 534
——, John Tiptoft, earl of, scholar (England), VIII, b 296, a 297; (Ireland), XIII, b 267
WORCESTER, Joseph Emerson, lexicographer, XXIV, b 915
WORCESTER, Noah, clergyman, XXIV, a 915
——, Samuel, clergyman, XXIV, a b 915
——, Samuel Melancthon, clergyman, XXIV, a 915

WORCESTER, Samuel S., judge, XXIV, b 915
—— college (Oxford), XVIII, b 101
Worde, Wynkyn de, printer (Gesta Romanorum), X, b 496; (Hawes, S.), XI, *b* 476; (Typography), XXIII, b 739, a 740, a 741
Word formation (Sanskrit), XXI, b 284–5
Words (Fine Arts), IX, a 181; *Study of* (Trench), XXIII, a b 575. See Philology
Wordsworth, Christopher, bishop (Gauden), X, b 98
——, Dorothy (Coleridge, S. T.), VI, a 123; (Wordsworth), XXIV, a b 704, note, a 709
——, John, Latinist (Roman Law), XX, b 697 note
WORDSWORTH, William, poet, XXIV, a 703–11
  bibliographical notes, a b 710
  Coleridge's visit, b 704–5
  defiance of theory, his, a 707–8
  Evening Walk and *Prelude*, b 703–4
  Excursion, a 709–10
  Grasmere life, a 709–10
  law of his work, b 708–9
  Lyrical Ballads, a b 705
  parentage and youth, a b 703
  Preface, b 705–7
  sister and wife, a b 704
  tranquillity, uses of, a b 708
—— (Apparitions), II, a 181; (Burns), IV, a *b* 507; (Coleridge), VI, *a* 123, a 124, a 125; (English Literature), VIII, *b* 385, b 387; (Hunt), XII, b 398, b 399, a 400; (Mill, John Stuart), XVI, b 322; (Newspapers), XVII, b 429–30; (Poetry), XIX, a 283; (Rossetti), XX, *b* 882
Work, manual (Hygiene), XII, b 602, a 603; food relation of (Dietetics), VII, a 182–4. See LABOR
——, mechanical (Dynamics), VII, b 504; actual relation to heat (Steam-Engine), XXII, a 509–10, a b 512; examples of (Mechanics), XV, a b 707–8, a b 782; theoretical ratio to heat (Steam-Engine), XXII, b 499, b 504; (Thermodynamics), XXIII a 304–5
Workhouse, pauperism (Communism), VI, b 193; (England), VIII, a 228; (Hamburg), XI, a 363; (Poor Laws), XIX, a b 490, b 493
Working classes (International), XIII, a 195–6; (Wages), XXIV, a 333; (Women), XXIV, b 672, *b* 673, a b 674, a 676; Jevons on the elevation of (Political Economy), XIX, a 412
Workingmen, Association of (Chartism), V, b 375; Cairnes on (Political Economy), XIX, a 395; college (Maurice), XV, a b 645; clubs of (Friendly Societies), IX, a 688; conspiracies of (Trade Unions), XXIII, b 530–1, a 532; German unions of (Socialism), XXII, a 226, a 227; Greek (Costume), VI, a 402; homes of (Melbourne), XV, a 847; Mill on (Political Economy), XIX, b 393; schools for (Technical Education), XXIII, b 114–5. See LABOR
WORKINGMEN OF THE UNITED STATES, XXIV, b 915–21
  apprenticeship, b 918
  arbitration, a 920
  bibliography, b 920–1
  classification, b 915–6
  continuousness of employment, b 917
  co-operation, b 920
  hours of labor, b 918
  immigration, a b 920
  legislation, b 918–9
  organizations, a 919–20
  profits, division of, a b 917
  relief societies, b 919–20
  savings, b 917–8
  strikes and lockouts, a 920
  wages, a 916–7, b 918
  women and children, a 916
WORKINGTON, town, XXIV, b 711; (Cumberland), VI, b 616, a b 617
Works and Days, poem (Greece), XI, a b 123; (Hesiod), *b* 694, *a* 695
Workshops (Abbey), I, b 19, a 22, a 23; (Ventilation), XXIV, b 171; charity (Belgium), III, a 451; national, France (Coöperation), VI, a 302; (Socialism), XXII, *b* 220
WORKSHOP, town, XXIV, b 711–2
Work without Hope (Sonnet), XXII, b 275
World, The (Descartes), VII, a 103, a 107
——, journal (Johnson, S.), XIII, b 734
——, conception of (Theism), XXIII, a 257, a b 266; History of the (Chronology), V, a 625–60; Population of, XIX, a 528; renunciation of (Lollards), XIV, *b* 819
World as Will and Idea (Schopenhauer), XXI, b 471–3, b 474, b 475
—— *Bewitched* (Bekker, B.), III, a 441
—— -disk, Middle Ages (Map), XV, a 525
—— -Maps (Ill.), XV, b 526, b 527, b 528
—— Religions, XX, b 379, b 380, *a* 381, a 382
Worlebury Hill (Weston-Super-Mare), XXIV, *b* 544, a 545
Wormberg, mountain (Brunswick), IV, a 361; (Harz), XI, a 453
Wormley, T. G., chemist (Gelsemium), X, *a* 121
WORM (Ill.), XXIV, a 712–9
  archiannelida, a b 719
  alimentary tract, a b 715
  body-wall, b 712
  classification, a b 712, b 718–9
WORM, *continued*
  clitellum, b 712–3
  cœlom, a b 713
  excretory organs, a 714–5
  female reproductive organs, b 717–8
  literature, b 719
  oviduct, a 718
  nervous system, b 713
  reproductive organs, b 715–8
  seminal reservoirs (Ill.), a b 716
  setæ (Ill.), a 713, b 717
  spermathecæ, a b 718
  vasa deferentia, b 716–7
  vascular system, b 713–4
Worms (Agriculture), I, a 296; (Brachiopoda), IV, a b 170; (Reproduction) (Ill.), XX, a 421, a 422, b 424, a 426, b 431; bristle-footed (Madeira), XV, a 181; flat (Trematoda) (Ill.), XXIII, b 568–75; intestinal (Parasitism), XVIII, a 275; meal, larvæ (Coleoptera), VI, a 116, b 120; nerve system of (Physiology), XIX, b 35; parasites (Veterinary Science), XXIV, a 222–3; tactile organs of (Touch), XXIII, a b 508; water (Planarians) (Ill.), XIX, b 180–5; white, larvæ (Coleoptera), VI, a 116. See Vermes
WORMS, city, XXIV, b 719–20; Concordat of, 1122 (Italy), XIII, a 482; Diet of, 1076 (Italy), b 481; in 1521 (Germany), X, *b* 446, a 447; (Luther), XV, a b 76, a 77; (Reformation), XX, b 340, note
——, pipes (Distillation), VII, a 227, b 230
Wormwood, herb (Horticulture), XII, b 302; (Mesopotamia), XVI, a 55
—— scrubs, common (London), XIV, b 833, a 844
Wornu, city (Soudan), XXII, b 292
Wornum, Robert, musical instrument maker (Pianoforte), XIX, b 83, a 84
Woronicz, John Paul, poet (Poland), XIX, a 315
Woronzoff, Simon, count. See Vorontzoff
Worsaae, Jens Jakob Armusson, antiquarian (Denmark), VII, a 82; (Scandinavian Languages), XXI, *a* 382 notes
WORSBROUGH, town, XXIV, b 720
Worship (Adonis), I, b 148; (Alfar), b 562; (Angel), II, *a* 27; (Catacombs), V, b 183–4; (Church), *b* 665; (Comte), VI, b 211; (Ethnography), VIII, a b 547; (Fetichism), IX, b 103–4; (Homer), XII, a b 115; (Hymns), a b 631; (Image Worship), a 749–53; (Israel), XIII, b 408, a b 409, a b 412, *a* 416, b 417, b 419–20, a b 423, b 425, b 429, a 432; (Lares), XIV, a 314; (Manichæism), XV, b 491, a 492; (Quakers), XX, b 156; (Religions), a 374, *a* b 375, *a b* 376, *a* 377, *a* 380; (Tahiti), XXIII, a b 29; ancestral (Macedonian Empire), XV, b 141; (Micronesia), XVI, b 267; Athenian (Club), VI, b 38–9; Brahmanical (Sanskrit), XXI, b 289, b 290, b 292, a 293, a 297; forest (Lithuanians), XIV, b 707; genesis of (Pessimism), XVIII, a 699; imperial (Rome), XX, a 791, note; philosophy of (Metaphysic), XVI, b 106; primitive (Greece), XI, b 82; (Grove), b 198. See Cult, Liturgy, Mass
Worship of the Lamb (Eyck, Van), VIII, b 712–3
Worsley, Charles, politician (Manchester), XV, a 472
——, John, divine (Howard, J.), XII, a 333
Worstead, town (Norwich) XVII, a 610
Worsted (England), VIII, b 209–10; carded (Wool), XXIV, b 695; cloths (Wool), a 697; etymology of (Norfolk), XVII, a 550; yarns (Wool), XXIV, a 693, a b 694
Wort (Brewing), IV, b 237, b 241, *b* 244, *a* b 245–6
Wörterbuch zum Neuen Testament (Teller), XXIII, b 172
WORTH, William Jenkins, general, XXIV, a 921
Wörth, battle of, 1870 (War), XXIV, a 368, a b 371, *a* 382
Worthies of England (Fuller, T.), IX, a 715, a *b* 716
WORTHING, town, XXIV, b 720–1; (Sussex), XXII, b 761, a 762
Worthington engines (Steam-Engine), XXII, *a* b 541
Wortley, Stuart (Photography), XVIII, a b 841, a 842
Worungul, town. See WARANGAL
Woshem, district (Arabia), II, a 209, b 221–2
Wothly's nitrate process (Photography), XVIII, b 844
Wotton, Edward, naturalist (Ornithology), XVIII, b 7 note; (Reptiles), XX, b 445–6; (Zoology), XXIV, b 842, a 843
WOTTON, Sir Henry, diplomatist, XXIV, a 721; (Casaubon), V, b 150, a 151; (Scotland), XXI, b 529, a 530; (Walton), XXIV, *a* 363
WOTTON, William, author, XXIV, a b 721
Wounded in war, treatment of (International Law), XIII, a 201
Wounds (Medical Jurisprudence), XV, b 791–2; (Ophthalmology), XVII, b 808; (Vampire), XXIV, a 60; erysipelas from (Pathology), XVIII, a 408; gangrenous (Pathology), b 411; (Schizomycetes), XXI, a b 425; infection from (Pathology), XVIII, a b 411; repair of incised (Surgery), XXII, a b 717; Tetanus from, XXIII, a 217; (Pathology), XVIII, a 400; treatment (Surgery), XXII, a 712–4, b 715–6; of peritoneal (Surgery), b 725–6

WOUWERMAN, Paul Joosten, painter, XXIV, b 721
WOUWERMAN, Philip, painter, XXIV, b 721; (Schools of Painting), XXI, b 459, a 464
Wrack, sea weeds (Kelp), XIV, b 31
Wrangel, Erik, dramatist (Sweden), XXII, b 794
Wrangell, Ferdinand Petrovitch, baron von (Geography), X, b 172; (Polar Regions), XIX, b 332
—— or Kellet's Land (Polar Regions), XIX, a 338; (Siberia), XXII, b 10; (Yakutsk), XXIV, a 762
Wrapping connectors (Mechanics), XV, b 769–70
WRASSE, fish (Ill.), XXIV, b 721–2; (Parrot-Fishes), XVIII, b 329
Wrath, Cape (Sutherland), XXII, b 763, a 764
Wray, John, naturalist. See RAY, John
Wreak, river (Leicester), XIV, a 424
WRECK, law-term, XXIV, a 722–3; (Brehon Law), IV, b 226; (Flotsam), IX, a 300; (Government), XI, a 12 note; (Navigation), XVII, a 265, a 285
Wreckers (Bahamas), III, *b* 205; (Denmark), VII, a 75; (Hundred), XII, b 375
Wrede, Carl Philip von, marshal (Army), II, b 524; (Artillery), b 584; (Austria), III, a 118
Wrekin, hill (Shropshire), XXI, b 886, b 887
WREN, bird, XXIV, b 723–4; (Birds), III, b 665, a 668, a 669; golden-crested (Birds), b 655; (Kinglet), XIV, b 84–5; willow- (Birds), III, a 653, b 665
WREN, Sir Christopher, architect, XXIV, b 724–5; (Architecture), II, b 387–8; (Building), IV, a 421, a 447; (Cambridge), a 646, *a* 647; (Greenwich), XI, b 155; (Infinitesimal Calculus), XIII, a 8; (London), XIV, a 831, a b 847, a b 848, b 850, a *b* 851, a b 852, b 858, *b* 859, a 865; (Newton), XVII, b 453, a 455, a 456; (New York), b 896; (Oxford), XVIII, b 98, b 99, a 100, b 101; (Zoology), XXIV, a 854
——, Matthew, bishop (Cambridge), IV, a 647
WRESTLING AND BOXING, XXIV, b 725–6; (Games), X, b 58
WREXHAM, town, XXIV, b 726–7; (Denbigh), VII, *a* b 68
—— sandstone (Building), IV, b 419
Wright, A. W., astronomer (Zodiacal Light), XXIV, *b* 836, a 837
WRIGHT, Benjamin, engineer, XXIV, a b 921
——, Carroll D., statistician (Protection), XIX, a 934, b 941
WRIGHT, Chauncey, metaphysician, XXIV, b 921
——, C. R. Alder, chemist (Perfumery), XVIII, a 537. See List of Contributors
——, Edward, mathematician (Napier), XVII, *b* 185, b 187; (Navigation), *b* 260, *a b* 261, note
——, Frances, philanthropist (Women), XXIV, b 911
——, John, inventor (Electro-Metallurgy), VIII, b 109
WRIGHT, Joseph, painter, XXIV, a 727
——, Lemuel W., inventor (Patents), XVIII, a 882; (Pin), XIX, *b* 106
——, R. S., jurist (Conspiracy), VI, a 262
WRIGHT, Silas, senator, XXIV, a b 727
WRIGHT, Thomas, antiquary, XXIV, b 727–8; (Gillray), X, a *b* 536
——, William, orientalist (Syriac Literature), XXII, a b 866 notes, b 867 note, b 868 note, b 873 notes, a b 883 notes, b 894, note. See List of Contributors
Wriothesley, chancellor (Askew), II, b 623
Wrisberg, physician (Anatomy), I, a 714, b 715
"Wrist-drop" (Poisons), XIX, b 289
Wrist-joint (Anatomy), I, b 736; (Dislocation), VII, a 225
Writer's Cramp, VI, b 481–2
Writers to Her Majesty's Signet, society (Libraries), XIV, a 522
Writing (China), V, b 567–9; (Homer), XII, b 115–6, a 119, a 120; (Indians), *a* 868; (Japan), XIII, b 594, a b 595, a 596; (Mohammedanism), XVI, a 626; (Sanskrit), XXI, b 285–6; (Tibet), XXIII, a b370; book-hand (Typography), a 725; cuneiform (Inscriptions), XIII, a 120–2; English (Palæography), XVIII, a 163–6; graphic (Bushmen), IV, a 513; Greek (Palæography), XVIII, b 149–55; (Theognis), XXIII, a 280; Irish (Palæography), b 161–3; Latin (Palæography), b 155–9; Lombardic (Palæography), b 159–60; Merovingian (Palæography), b160–1; micrographic (Bales), III, a 241; origin of (Archæology), II, b 299; (Beech), III, a b 434; (China), V, a 558; (Philology), XVIII, b 780; papal documents (Palæography), a 160; stages of (Palæography), a b 147; Visigothic (Palæography), b 160
WRITING MACHINES, XXIV, a 733–4
—— material (Papyrus), XVIII, a b 236–7; (China), V, b 575; (Stationery), XXII, a b 478; sizes of Paper, XVIII, a 230, a b 231; tablets (Ivory), XIII, b 533
—— Telegraph, XXIII, a 131
WRITS, legal documents, XXIV, a 728–33
  authorities, a 733
  judicial writs, a 731–2
  mediæval history, b 728–9
WRITS, *continued*
  non-judicial writs, b 732
  obsolete writs, a 730–1
  original and judicial divisions, b 729
  recent legislation, a 730, a 731
  Roman law, a b 728
  Scotland, b 732–3
  United States, a 733
  Writ of Right, b 729–30
——, Convocation, VI, a 289, b 292–3; (Pleading), XIX, b 229, note, a 230; (Prerogative), a 694; of parliamentary summons (Peerage), XVIII, a b 472–3, b 475. See specific names of Writs
—— of assistance (Otis), XVIII, a 71; (United States), XXIII, a 784, a 786
Writtle, village (Chelmsford), V, b 396
Wrongs in law. See TORTS
Wronski, Hoenede, mathematician (Algebra), I, a 455
Wrought iron (Iron), XIII, b 327; tenacity of, b 363
Wroxeter, village (Shropshire), XXI, b 887
Wrybill, genus (Birds), III, a 644; (Killdeer), XIV, b 78
WRYNECK, bird, XXIV, a b 734
Wu-Chang, city (Hankow), XI, *a* 394
Wucherer's *Gebrauch der Decimalbrüche* (Tables), XXIII, b 12
WUHU or Woo-Hoo, city, XXIV, b 734
Wúlar, lake (Kashmír), XIV, a 12
Wülcker, E., philologist (Germany), X, a 466 notes
Wulfenite (Mineralogy) (Ill.), XVI, a 420
Wulfhere, king (England), VIII, a 255
Wulfnoth, earl of Sussex (Godwine), X, *a* 641
Wulfruna, duchess of Northumberland (Wolverhampton), XXIV, b 670
Wulfstan, bishop of Worcester (England), VIII, b 265; (Gloucester), X, a 616; (Worcester), XXIV, b 701, a b 702
Wullenwever, Jürgen, burgomaster (Lübec), XV, b 34, b 35
Wüllner, chemist (Spectroscopy), XXII, b 389, a 392
WUN, district, XXIV, b 734–5; town, b 734, a 735
Wundt, Wilhelm Maximilian, physiologist (Dream), VII, a 395, b 396–7; (Evolution), VIII, b 673; (Psychology), XX, b 45, b 52, b 53, a b 55, a 70, *a* 71, b 82 note, a 84, b 90; (Touch), XXIII, b 512; (Weber's Law), XXIV, b 496, a b 497
Wuoksen, river (Finland), IX, b 188
Wupper, river (Prussia), XX, a *b* 25
Wurda, district. See WARDHÁ
Würmsee, lake (Germany), X, b 402, a 404
Würmser, Dagobert Sigismund, general (Austria), III, b 113, a 114; (France), IX, b 536, *a* 537; (Napoleon I.), XVII, *a* 204
Wurnu, town (Sokoto), XXII, a 262
WURTEMBERG or Württemberg kingdom, XXIV, a 735–8
  area and surface, a b 735
  Black Forest, b 735–6
  civil organization, a b 737
  climate and soil, a 736
  history, b 737–8
  industrial features, a 736–7
  nineteenth century, a b 738
  people and division, a 737
  religion and education, a 737
  rivers, a 736
—— (Army), II, a 525; (Forests), IX, a 352; (Hegel), XI, b 547, b 549; (Suicide), XXII, b 662; statistics of (Germany), X, b 404, a *b* 405, a 406, a b 408, a b 409, b 413, a 414, b 416, a *b* 417, a b 418, a 420, *b* 421, a 423
——, Eberhard in Bart, duke of, VII, b 533–4
—— *Confession* (Trent, Council of), XXIII, b 581
WURTZ, Charles Adolphe, chemist, XXIV, b 738–9; (Chemistry), V, a 404; (Ipecacuanha), XIII, b 216
——, Henry, chemist (Gold), X, *b* 665
WURZBURG or Wirzberg, town, XXIV, b 739–40; (Walther von der Vogelweide), *b* 361; university (Schelling), XXI, b 407, a 408; (University), XXIII, a b 905
Wurtzite (Mineralogy), XVI, b 408
Wurzelberg, mountain (Thuringia), XXIII, a 353
Wüstenfeld, orientalist (Tabarí), XXIII, b 6, note, a *b* 7, note, b 8, a b 9
Wusthoff, Gerard van, explorer (Cambodia), IV, a 641
Wu Tchi Shan, mountains (Hainan), XI, b 334
Wuthering Heights (Bronte), IV, a b 329, *a* 330; (Poetry), XIX, a 271
Wyandots, tribes (Indians), XII, b 867, b 871
WYANDOTTE, city, XXIV, b 740
—— cave (Indiana), XII, b 852
—— Mills, Michigan (Iron), XIII, b 299
WYAT, Sir Thomas, poet, XXIV, b 740–1; (Shakespeare), XXI, *b* 793; (Surrey), XXII, *a* 731
WYATT, James, architect, XXIV, a 741
——, Richard J., sculptor (Sculpture), XXI, b 587
——, Sir Thomas, rebel (Grey), XI, a 173; (England), VIII, a 305; (London), XIV, a b 857; (Maidstone), XV, a 297
Wyatville, Sir Jeffrey, architect (Windsor), XXIV, b 632, b 633

Wych elm, tree (Arboriculture), II, a 278
WYCHERLEY, William, dramatist, XXIV, a 741-4
  Country Wife, a b 742-3
  court of Charles II., a 742, b 743
  gentility of, a b 741
  licentiousness, dramatic, a b 743
  Love in a Wood, b 741-2, b 743
  marriages, b 743-4
  naval experiences, a b 742
  origin, a 741
  Plain Dealer, a b 742-3
—— (Drama), VII, a 377
Wych-hazel. See Witch hazel
WYCLIFFE or Wyclif, John, reformer, XXIV, a 744-7
  bibliographical, a b 747
  Bruges commission, a 745
  college days, a b 744
  Courtenay trial, b 746-7
  death, a 747
  dominium doctrine, b 744
  estimate of, a 747
  Gaunt's patronage, a b 745, a 746
  origin, a 744
  papal indictment, b 745-6
  propaganda schemes, a b 746
  transubstantiation controversy, b 746
  Westminster, violation of, a 746
—— (England), VIII, a b 291, a b 292; (England, Church of), a 335; (English Language), b 354, 359; (English Literature), b 366-7; (Fleming), IX, a b 265; (Gregory XI.), XI, b 159; (Huss), XII, b 419, a b 420, a b 421; (Jerome of Prague), XIII, b 642; (Lollards), XIV, b 819, a b 820, a b 821; (Oxford), XVIII, a b 109; (William of Wykeham), XXIV, b 617
Wycliffe's Bible (Ecclesiastes), VII, b 539; (English Bible), VIII, b 342, a 343; (Madden), XV, a b 177; his New Testament (English Bible), VIII, b 348
WYCOMBE, High Wycombe, or Chipping Wycombe, town, XXIV, b 747-8
Wyddva, mountain (England), VIII, a 196
Wye, river (Brecon), IV, a 218; (Chepstow), V, b 506; (Hereford), XI, b 652, b 653; (Monmouth), XVI, a b 780, b 781; (Radnor), XX, a 224
Wyke, village (Hull), XII, b 355
Wykeham, bishop. See WILLIAM OF WYKEHAM
Wyker Meer (Canal), IV, b 696
Wyld, Dr. (Homœopathy), XII, a 131
Wyld's georama (Globe), X, b 609-10
Wylie, A., philologist (Ricci), XX, a b 552
Wyllie, R., engineer (Steam-Engine), XXII, b 545 note
WYMAN, Jeffries, anatomist, XXIV, b 921-2
——, Morrill, physician, XXIV, a 922
Wynford, William Samuel Best, baron (Press Laws), XIX, a 730
Wynkyn de Worde. See Worde
WYNTOUN, Andrew of, chronicler, XXIV, a 748; (Barbour), III, b 314, b 315; (Scotland), XXI, a 566
Wyntour, Sir John, woodman (Gloucester), X, b 614
WYOMING, territory (Plate XVII), XXIV, a 748-9; (United States), XXIII, b 853, a 856, a 857, b 861, a 862, b 864, a 873
—— coal region (Pennsylvania), XVIII, a b 511
—— massacre, 1778 (Sullivan), XXII, b 932; (Wilkesbarre), XXIV, b 599
—— ore (Iron), XIII, b 293
WYON, William, medallist, XXIV, b 749
Wyre, forest (Coal), VI, b 48; river (Lancashire), XIV, a 253
Wyss, Johann Rudolph, poet (Switzerland), XXII, a 838
Wytfliet, Cornelius, geographer (Australia), III, a 90
WYTHE, George, lawyer, XXIV, a 922; (Jefferson, Thomas), XIII, a 624; (United States), XXIII, b 796 note
WYTTENBACH, Daniel Albert, classical scholar, XXIV, b 749-51
——, Thomas, theologian and reformer (Zwingli), XXIV, b 871-2
Wyvern, the (Heraldry) (Ill.), XI, b 626
Wyville Thomson ridge (Norwegian Sea), XVII, a 608

X, letter, XXIV, a 751-2
Xalapa, town. See JALAPA
Xamaran, lazaretto (Quarantine), XX, b 161, note, a 162
Xanthin, organic substance (Nutrition), XVII, b 702
Xanthippus of Athens, general (Pericles), XVIII, b 539
—— of Sparta, general (Rome), XX, a 766
Xanthocon (Mineralogy), XVI, b 412
Xanthochroi, races (Anthropology), II, b 100; (Asia), a 609
Xantholæma (Birds), III, a 662
Xantholite (Mineralogy), XVI, a 426
Xanthophyll, plant color (Physiology), XIX, b 59
Xanthophyllite (Mineralogy), XVI, a 431
Xanthosiderite (Mineralogy), XVI, a 404
Xanthoxylon, satin-wood tree (West Indies), XXIV, a 540
XANTHUS, city, XXIV, a b 752; (Persia), XVIII, a 578, note; marbles of (Archæology), II, a 308; tombs at (Architecture), a 352
—— river (Asia Minor), II, a 619; (Lycia), XV, b 94, a 95
——, king of Bœotia (Apaturia), II, b 129-30
——, historian (Lycia), XV, b 100, a 101
Xanthusiidæ, family (Lizard), XIV, a 739
Xaragua, lake (Hayti), XI, a 486
Xarayes, district (Brazil), IV, a 200
Xatardia, plant (Pyrenees), XX, a 132
Xativa, town. See JÁTIVA
Xauxa, river (Peru), XVIII, a 686
Xaver, Prince, regent (Saxony), XXI, b 370
XAVIER, Francisco, missionary, XXIV, b 752-4; (Caste), V, b 166; (Jesuits), XIII, b 661, a 662, a b 663; (Madras), XV, b 186; (Mantis), b 510; (Missions), XVI, b 536; (Propaganda), XIX, a 833
——, Jerome, missionary (Punjab), XX, b 116
——, Silva, conspirator (Brazil), IV, a 208
Xebeks, race. See Zeybeks
Xelahuh, town (Quezaltenango), XX, a 187
Xelhua, chief (America), I, b 618, a 619
Xema, genus of birds (Gull), XI, a b 243; (Peru), XVIII, b 684, note
XENIA, city, XXIV, a 754
Xenia, book of epigrams (Martial), XV, a 586
Xenicus, genus (Nuthatch), XVII, a 685
Xenien, epigrams (Goethe), X, a 652; (Schiller), XXI, a 414
XENOCRATES of Chalcedon, philosopher, XXIV, a 754-5; (Academy), I, a b 67; (Ethics), VIII, b 515; (Evolution), b 662; (Phocion), XVIII, b 812; (Phrenology), b 859
Xenodermidæ, family (Snakes), XXII, a 204
Xenolite (Mineralogy), XVI, a 426
Xenon, grammarian (Greece), XI, a 123
Xenopeltidæ, family (Snakes), XXII, b 202
XENOPHANES of Colophon, philosopher, XXIV, a 755-6; (Astrology), II, a 647; (Eleatic School), VIII, a 3; (Evolution), b 661; (Homer), XII, a b 114; (Mythology), XVII, b 143; (Parmenides), XVIII, a 321, a 322
XENOPHON, historian, XXIV, a 756-7; (Byzantium), IV, b 546; (Cyrus, Elder), VI, a 664; (Finance), IX, b 150; (Greece), XI, b 92, a 93, b 126; (Hunting), XII, b 408, a 409; (Mesopotamia), XVI, a 52, a b 53, a 55; (Palæography), XVIII, a 168; (Pelopidas), b 490; (Persia), b 575, a 576, b 577, a 579, a 588; (Political Economy), XIX, b 362; (Pontus), a 474; (Socrates), XXII, a b 244, a b 245, a 246, a b 247, a 249; (Thucydides), XXIII, b 345, a 347; (Weights and Measures), XXIV, b 512, b 514
—— of Antioch, author (Romance), XX, a 651
—— of Cyprus, author (Romance), XX, a 651
—— of Ephesus, novelist (Romance), XX, a 651
Xenorhynchus, genus (Jabiru), XIII, b 539
Xenos, Stephanos, novelist, (Greece), XI, a b 136
Xenotime (Mineralogy), (Ill.), XVI, b 384, b 420
Xenurus, genus (Mammalia), XV, a b 390
Xeres, town. See JEREZ, wine of. See Sherry.
Xeroderma (Skin Diseases), XXII, b 129
Xerophila, genus (Birds), III, a 643
Xerus, genus (Squirrel), XXII, b 455; (Mammalia), XV, b 350, a 422, a 423
XERXES, I., king of Persia, XXIV, b 757; (Ahasuerus), I, a b 374; (Alexander the Great), a 426, b 427; (Army), II, a 491; (Darius), VI, a 727; (Esther), VIII, a b 494, a 495; (Greece), XI, b 89-90; (Persia), XVIII, b 583-5
—— II., king, XXIV, b 757; (Persia), XVIII, a 587
Xestes, measure (Weights and Measures), XXIV, b 512, a 513
Xibalba, city (America), I, b 618
Xicaques, Indians (Honduras), XII, b 134
Xiloco, river (Aragon), II, a b 267
XIMENES, Francisco de Cisneros, cardinal, XIII, a 704-5; (Alcala de Henares), I, a 405; (Inquisition), XIII, a 101; (Liturgy), XIV, b 713; (Oran), XVII, b 833; (Spain), XXII, a b 342
Ximenez or Eximeniz, Francesch, author (Spain), XXII, a 378
Xiphias, genus (Ichthyology) (Ill.), XII, a 690, a 697, a b 701
Xiphiidæ, family (Ichthyology), XII, b 700-1, a 728; (Sword-Fish), XXII, b 842-3
Xiphisternum, bony process (Mammalia), XV, a 361
Xiphium, genus (Iris), XIII, b 282
Xiphosura, sub-class (Crustacea), VI, b 561, a 574, b 578, note, b 579, b 585-6
Xisuthrus, king, Babylon (Deluge), VII, a 49
Ximani, suburb (Cartagena), V, a 124
Xonotlite (Mineralogy), XVI, a 439
Xosa, chief (Kaffraria), XIII, a 828
Xylaria, genus (Fungus), IX, a 733; (Mushroom), XVII, a 83

Xylem, fibres (Botany), IV, b 82-3, a b 89 90, a 95; (Histology), XII, *b* 20, a 21
Xylene, benzol (Tar), XXIII, a 65
Xylite (Mineralogy), XVI, b 443
Xylofer, implement (Gymnasium), XI, b 312
Xylography or block-printing (Typography), XXIII, b 724, b 725-7
Xyloidin, chemical substance (Gun-Cotton), XI, a 245
Xylophaga, group (Insects), XIII, a 156
Xylophylla, plant (Botany), IV, b 108, b 111
Xystos, gymnasium (Elis), VIII, a 131
X. Y. Z. despatches (Gallatin), X, b 36; (United States), XXIII, a 804

Y, letter, XXIV, a 758
——, lake (Canal), IV, *b* 696, a 697
Ya'akob ben Asher, Rabbenu (Rosh), XX, *a* b 875, note
—— ben Meir, Rabbenu (Tam), XXIII, a 44-5
—— ben Shimshon, Rabbenu (Talmud), XXIII, b 44, notes
—— of Orleans, Rabbenu (Tam), XXIII, a 45
Yablanoi or Yablonovi, mountains (Asia), II, a 600; (Transbaikalia), XXIII, b 541, a b 542; (Siberia), XXII, a 7
YACHOW-FU, city, XXIV, a b 758; department (China), V, *a* 555
Yacht-building (London), XIV, a 842
—— clubs (Yachting), XXIV, *b* 758, *a* 759
YACHTING, sport, XXIV, b 758-61
  early history, b 758
  fleet, modern, b 760-1
  development of sport, b 758-9
  international contests, a b 759, a b 760
  literature, a 761
  usage in races, a b 760
  vessels of recent type, b 759-60

Yacht-Racing Association (Yachting), XXIV, a 760
Yacúb Khan. See Yákub Khan
Yadzvings, race. See Yatvyags
Yáfá or Joppa, city, XIII, a 756; (Palestine), XVIII, b 176, a b 178, b 181, b 182
Yaffil or Yaffle, bird (Woodpecker), XXIV, a 686
Yáfi'í, historian (Tabarí), XXIII, a 9
Yagello or Jagiello, chief (Lithuanians), XIV, b 708; (Poland), XIX, *b* 300-1
Yagnob, river (Zerafshan), XXIV, a 820
Yagozhikhinsky copper mines (Perm), XVIII, b 562
Yaguachi, river (Ecuador), VII, b 560
Yaguar-cocha, lake (Ecuador), VII, b 560
Yahgans, tribe (Tierra del Fuego), XXIII, b 410
Yahudíeh, city (Ispahán), XIII, a 406
—— ben 'Abdalláh, pretender (Mohammedanism), XVI, b 604
—— ben Khalid, vizier (Barmecides), III, b 325; (Haroun al Raschid), XI, *a* b 436, note; (Mohammedanism), XVI, a b 603, a 604, a 605
—— ibn Hammúnd, caliph (Spain), XXII, *a* 330
Yahya Mirza, prophet (Babi), III, a 157
Yaila, mountains (Russia), XXI, a 880-2
Yailahs, basins (Asia Minor), II, a 616
Yájnavalkya, code of (India), XII, a b 822
—— Yajasaneya, scholar (Sanskrit), XXI, a b 292, a 302
Yajur-veda or Yajush (Brahmanism), IV, *b* 182; (Sanskrit), XXI, a b 286, a 288, b 291-3
YAK, mammal (Ill.), XXIV, a b 761; (Acclimatization), I, a 81; (Himalaya), XI, a 744
Yakama Dictionary, VII, a 168
Yakima, pass, river, district and lakes (Washington), XXIV, *a* b 406, a b 407
Yakoba, town (Sokoto), XXII, a 262
Yakootsk. See YAKUTSK
Ya'kúb, king (Persia), XVIII, b 644-5
—— Almansor, caliph (Spain), XXII, b 331
—— Beg, amir (Kashgar), XIV, *b* 9. *b* 10; (Turkestan), XXIII, a 681
—— ben Laith, prince (Mohammedanism), XVI, b 608
Ya'kúbí or Ibn Wâdih, historian (Tabarí), XXIII, b 7
Yákub Khán, amir (Herat), XI, a 639; (India), XII, *a* 851
Yákút, geographer (Merv), XVI, a 49; (Mesopotamia), a 56; (Tabarí), XXIII, b 8
——, tribe (Turks), XXIII, b 702; (Yakutsk), XXIV, *b* 762-3; dialect of (Dictionary), VII, a 167; (Turks), XXIII, b 703, b 704; (Ural-Altaic), XXIV, a 5, a b 6
YAKUTSK, province, XXIV, b 761-3; (Maritime Province), XV, *b* 555; (Russia), XXI, b 76; (Siberia), XXII, a b 6, *b* 9, a b 14, notes, a 15 note, *a* 16
YAKUTSK, town, XXIV, *a b* 762, a b 763; (Siberia), XXII, b 10, note, *a* 11, a 14, note, a 16; climate of (Asia), II, b 602; (Geology), X, *b* 199
Yale college (Connecticut), VI, b 257; (Libraries), XIV, a b 534, b 553; (Micrometer) (Ill.), XVI, b 264; (New Haven), XVII, a 404, a 405; (Observatory), a 736; (Universities), XXIII, *a* 914, a b 953, b 959, b 960, *a* b 961, a b 962; gallery (Trumbull), b 945, a 946; museum (Ornithology), XVIII, b 40
—— Lock, XIV, b 757-8
Yalkut (Midrash), XVI, b 299
Yalmal, peninsula (Tobolsk), XXIII, a 457
Yalta, town (Crimea), VI, a 519
Ya-lu-kiang, river (Corea), VI, a 347
Yalung or Ya-lung-Kyang, river (Asia), II, b 598; (Tibet), XXIII, b 360, b 362; a 365, b 366
YAM, tuber, XXIV, b 763; (Polynesia), XIX, a 433; Chinese (Horticulture), XII, a 302
Yama, god (Brahmanism), IV, *a* 188
Yama-maï, moth (Butterflies), IV, b 530; (Silk), XXII, b 66
Yaman-tau, peak (Ural Mountains), XXIV, b 8
YAMBO or Yembo, town, XXIV, b 763-4
Yamdena, island (Timor Laut), XXIII, a 425
Yàmdok-tso, lake (Tibet), XXIII, b 361
Yamghán, districts (Hindú Kúsh), XI, *a* 749
Yammúna, lake (Lebanon), XIV, b 393
Yampol rapids (Dniester), VII, b 266
Yamschicks or postal communities (Siberia), XXII, b 15
Ya Mura, mountain (Sumatra), XXII, b 671
Yana, river (Siberia), XXII, a 9, *a* 10
Yanadis, tribe (Nellore), XVII, a 330
YANAON, French settlement, XXIV, a 764
Yanbo, town. See YAMBO
YANCEY, William Lowndes, secessionist, XXIV, a b 922
Yandoon, town (Thún-Khwa), XXIII, b 351
YANG-CHOW FU, city, XXIV, a 764
Yang-chû, teacher (Mencius) XVI, b 7
Yanghi-hissar, town (Yarkand), XXIV, b 764
Yanghishar, fortress (Yarkand), XXIV. b 764
Yangi Shahr, fortress (Kashgar), XIV, b 9
Yang-keen, emperor (China), V, b 560
Yang-te, emperor (China), V, b 560
Yang-tse-Kiang, river (Asia) II, b 598 (Brahmaputra), IV, b 190; (China), V, *a* b 548, b 549; (I-Chang), XII, a 665; (Ichthyology), b 709, a 710; (Pacific Ocean), XVIII, b 120; (Tibet), XXIII, b 362; exploration of (Garnier), X, *b* 74; (Osborn), XVIII, a 58
Yangtuny, mountain (Ural Mountains), XXIV, a 8
Yanina. See JANINA
Yankee Doodle (American Literature), I, b 633
Yankeeisms (English Language), VIII, b 358
YANKTON, city, XXIV, a 764; (Dakota), VI, a 682
Yanoski, J., historian (Slavery), XXII, b 153
Yanteles, mountain (Chili), V, a 535
Yany-daria, river (Syr-Daria), XXII, b 858
Yao or Yaou, emperor (Astronomy), II, b 651; (China), V, b 558
Yap, island (Caroline Islands), V, a 111
Yapock, marsupial (Opossum) XVII, a 819
Yaqui, pico del, or mountain (Hayti), XI, b 485, a 486
——, rivers (Hayti), XI, *b* 485-6
——, river (Mexico), XVI, b 904, b 908
—— Indians (Mexico), XVI, a 898, b 909, a 911
Yard, measure, imperial (Weights and Measures), XXIV, b 506, b 507, a 512, *a* 517
Yards (Sail), XXI, b 161; getting up lower (Seamanship), b 625
Yare, river (Norfolk), XVII, a *b* 549
Yariba. See YORUBA
Yari of Suzdal, grand duke (Russia), XXI, b 98
Yari-yari, tree (Lancewood), XIV, a 260
YARKAND or Yarkend, oasis and town, XXIV, a 764-5; (Turkestan), XXIII, b 679, a 680, a 681
——, river. See Zerafshan
—— -Daria, river (Yarkand), XXIV, a b 764
Yarlung valley (Tibet), XXIII, b 361, b 366, b 367
YARMOUTH or Great Yarmouth, seaport of Norfolk, XXIV, a 765-6
——, port (Suffolk), XXII, *b* 651
——, town (Nova Scotia), XVII, *a* 618
——, earls of (Paston Letters), XVIII, b 349, b 350
—— bloaters (Fisheries), IX, b 218-20
—— corporation (Contempt of Court), VI, b 283
Yarmuk, river (Palestine), XVIII, a 177, a 180
YARN, spun fibres (Ill.), XXIV, a 766-7; (Cotton), VI, a 433, note; (Linen Manufactures), XIV, a b 673; (Rope), XX, b 865, a *b* 866, a b 867; (Wool), XXIV, a 693, a b 694; fine (Muslin), XVII, a b 116; knotting (Seamanship) (Ill.), XXI, b 621
Yaropolk of Kieff, duke (Russia), XXI, *b* 97
Yaroslaf, king of Russia (Harold III.), XI, *b* 433; (Novgorod), XVII, a b 622; (Kieff), XIV, a 72; (Russia), XXI, b 97
—— of Suzdai, prince (Russia), XXI, a 99
YAROSLAVL, government, XXIV, a 767-8; (Russia), XXI, a 76, a 93
YAROSLAVL, city, XXIV, b 767, *a* 768
Yaroslav Vladimirovitch, duke (Yaroslavl), XXIV, a 768

Yaro-tsanpo, river (Tibet), XXIII, b 360, note, a b 361-2
Yarra, river (Melbourne), XV, b 844, *b* 846, a 847; (Victoria), XXIV, a 233, a 236
YARRELL, William, naturalist, XXIV, b 768; (Kiwi), XIV, a b 107; (Ornithology), XVIII, a 22, b 32, note, a 33; (Swan), XXII, b 769; (Whitebait), XXIV, b 581
Yarrow, river (Selkirk), XXI, a b 676
——, A. C., ethnologist (Pueblo Indians), XX, a 890
Yasa, mendicant (Buddhism), IV, b 384
——, mountain (Nepal), XVII, b 349
Yashil-Kúl, lake (Oxus), XVIII, b 107
Yashkun, caste (Gilgit), X, a 534; (Zend-Avesta), XXIV, *b* 814, *a* 815, a 816
Yashts, sacred books (Zoroaster), XXIV, *b* 859
Yâska Paingi, grammarian, (Sanskrit), XXI, b 287, *b* 291
Yasna, book (Zend-Avesta), XXIV, a *b* 814, b 815; (Zoroaster), b 859, *a* 860, a 862
Yasodharâ, wife of Buddha (Buddhism), IV, *a* b 382, a *b* 385
Yassa Orgievian, mountains (Bessarabia), III, b 531
Yassin river and state (Gilgit), X, b 532, *a b* 533, a *b* 534
Yataghan, weapon (Sword) (Ill.), XXII, a 839, b 840, a 841
Yates, Richard, governor, *b.* 1818, *d.* 1873 (United States), XXIII, a 822
Yatha'amar, princes (Yemen), XXIV, a 777
Yathil, citadel (Yemen), XXIV, b 777
Yatvyags or Yadzvings, race (Lithuanians), XIV, b 707, *a* b 708
Yavana kings (Persia), XVIII, b 609, note
Yavari, river (Brazil), IV, a 199; (Peru), XVIII, a 683
Yavorski, Stephen, polemic (Russia), XXI, a 114
Yawning (Respiration), XX, a 494
Yawry Bay (Sierra Leone), XXII, a 51
YAWS, skin disease, XXIV, b 768-9
Yay-lu Tsoo-tsai, Tartar chief (China), V, b 561, *a* 562
YAZD or Yezd, city, XXIV, b 769; (Opium), XVII, *b* 813; (Persia), XVIII, a 626; marble of (Persia), a 633
Yazdegerd or Yazdagird I., the "Sinner" (Persia), XVIII, a 621; (Syriac Literature), XXII, b 871
—— II., king, Persia, XVIII, b 621
—— III., king, Persia, XVIII, a 626-7; (Arabia), II, *a* 225; (Oxus), XVIII, a 105; (Parsis), a 332
——, era of (Chronology), V, b 622-3
Yazdin, tax-collector (Syriac Literature), XXII, b 879
Yazid I., caliph, ben Mo'áwiya, caliph (Mohammedanism), XVI, b 589-91
—— II., caliph (Mohammedanism), XVI, b 597, a 598
—— III., caliph (Mohammedanism), XVI, a 599
—— ben Mazyad, general (Mohammedanism), XVI, b 602
—— ben Mohallab, rebel (Mohammedanism), XVI, b 596, a b 597, a 598
Yazīdádh of Edessa, author (Syriac Literature), XXII, a b 871
Yazoo, river (Mississippi), XVI, a b 542
—— land grant (Tatnall), XXIII, a 922
Yca, city (Ica), XII, a 646
Y-chang, town (I-chang), XII, a 665
YEADON, town, XXIV, b 769-70
Yeamans, Sir John, governor (Slavery), XXII, b 906
Year, the (Astronomy), II, b 673; (Calendar), IV, b 590-3; (Egypt), VII, a 632; beginning of (March), XV, a 540; Christian (Chronology), V, a 619; confusion ended (Calendar), IV, a b 591; consular (Chronology), V, b 618; embolismic (Calendar), IV, a b 601; Hebrew (Calendar), *a* b 602; (Chronology), V, b 619-20; legal (January), XIII, a 578; Mahometan, table (Calendar), IV, b 603-4; solar compared with civil (Astronomy), II, b 259; (Calendar), IV, b 590-2
Year Book (Hone), XII, a 139
Yearly Meetings (Quakers in United States), XX, b 892, a 893
YEAST, ferment, XXIV, a 770; (Baking), III, b 218; (Biology), b 588, b 599; (Brewing), IV, *b* 245, a 246; (Fermentation), IX, a 81, b 82, *a b* 83, a 84, *a* b 85; cell-division of (Histology), XII, *b* 15
Yeast, novel (Kingsley), XIV, a *b* 90, a 91
Yebna, city. See JAMNIA
Yedina, race (Soudan), XXII, a 292
Yedo, city. See TOKIO
—— -bay (Japan), XIII, a b 580, b 585
—— dialect (Japan), XIII, b 595-6
Yehiel, rabbi (Talmud), XXIII, a b 42 note
Yehl, god (Mythology), XVII, b 155, b 162 note
Yehudah ben Hannasi. See HANNASI
—— ben Koreish, rabbi (Targum), XXIII, a 71 note
—— ben Nathan, rabbi (Rashi), XX, b 296 note
YEISK, town, XXIV, a 770
Yekâlang, valley (Afghânistân), I, a 217
Yekaterinburg. See EKATERINBURG. For like Russian names of towns drop the Y
Yeko or Yekot, people (Yakutsk), XXIV, b 762
YELETS, town, XXIV, b 770
Yeliu Tashi, prince (Prester John), XIX, b 735
Yelizavetgrad. See ELIZABETHGRAD
Yelizavetpol, See ELIZABETHPOL
Yelk-sac of Cephalopoda (Mollusca), XVI, a 709
Yell, island (Orkney, etc.), XVII, b 870, a 871, b 872
Yellamalais, mountains (Karnúl), XIV, *b* 7, a 8
Yellow, color (Dyeing), VII, b 499-500; (Glass), X, a 600; (Light), XIV, a 595, b 596, a 606, a 607; (Pigments), XIX, b 95-6; aniline (Coal Tar Products), XVIII, a 904; cadmium (Pigments), XIX, a 96; Mars (Pigments), b 95-6; scarlet in (Dyeing), VII, b 496
—— -berried Ivy, XIII, b 536
—— -bird (Siskin), XXII, a 107
—— cells (Protozoa), XIX, b 874
—— Earth. See Felinite
YELLOW FEVER, disease, XXIV, b 770-3
  characteristics, b 770-1
  distribution, b 771-2
  literature, a 773
  local and racial conditions, a b 772
  sanitation, a 773
  theory of, b 772-3
  treatment, a 771
  type and circumstances, b 770
—— (Brazil), IV, a 210; (Buenos Ayres), IV, b 435; (Memphis, Tenn.), XV, b 856; (New Orleans), XVII, b 414, b 415; (Pathology), XVIII, a 413; (Puerto Cabello), XX, a 104; (Quarantine), a b 160, a 161, a 162-3; (Rush), XXI, *a* 69; (United States), XXIII, b 805; (Veratrum), XXIV, a 177 note
—— Hammer bird (Bunting), IV, b 470
—— Pine, XIX, *b* 113; forests (United States), XXIII, b 860, b 861
—— prussiate of potash (Chemistry), V, a 481
—— river or Hwang-ho, (China), V, *a b* 547, *a* b 548, b 558, a 559, a 564; (Kai Fung Foo), XIII, a 833; (Mongols), XVI, b 769, b 770; (Pacific Ocean), XVIII, b 120; (Tibet), XXIII, b 360, *a* 363
—— sandstones (Cork), VI, b 357
—— Sea (China), V, b 547, b 548, a 550; (Pacific Ocean), XVIII, a 120, a 125
—— Soap, XXII, *a* b 215
Yellowstone, lake (Yellowstone Park), XXIV, a b 773
——, river (Montana), XVI, a b 799, a 800; (Wyoming), XXIV, b 748; (Yellowstone Park), *b* 773, *b* 774
YELLOWSTONE NATIONAL PARK (Map), XXIV, a 773-5; (Geology), X, a 224; (Geysers), a 499
YELLOW-TAIL, fish XXIV, a 775
—— wood (Fustic), IX, a 752
Yema, a pair (Zoroaster), XXIV, b 861, note
Yemamah, district (Arabia), II, a b 209, b 212, b 217, *a* b 219, b 221
Yembo. See YAMBO
YEMEN, division of Arabia (Map), XXIV, a 775-8
  Biblical accounts, b 775-6
  chronology, a b 777
  coins, b 778
  Greek accounts, a 776
  hereditary monarchies, a 778
  Homerite domination, b 776
  inscriptions, b 776-8
  linguistic problems, a 777
  literature about, b 778
  locality, a b 775
  Minæan race, b 777-8
  religion, a b 778
  Roman accounts, a b 776
  Sabæans, b 775-6
—— (Arabia), II, a 206-7, *a b* 207, a 208, a 210, a b 211, *a* 212, a *b* 213, *a* b 214, b 215, *a* 217, *a b* 218, a b 219, *a* 220, *a* 221, *a* b 223, *a* b 224, a *b* 227, a 229, a 230; (Coffee), VI, a 102; (Mohammedanism), XVI, a 588, a 589, a 592, a 598; (Persia), XVIII, a 624, a 626; (Semitic Languages), XXI, a 686; (Turkey), XXIII, a 696 note
Ye-nang-gyoung, town (Burmah), IV, a 493
Yendys, Sydney, pseudonym (Dobell), VII, a 267
Yen Hwui, disciple (Confucius), VI, b 232
Yenibazar, sandjak and town (Bosnia), IV, *b* 60, a 61
Yenikale, strait (Black Sea), III, *b* 691, b 692; (Kertch), XIV, *b* 54
——, town and fort (Kertch), XIV, b 54, a 55
Yenipazar, town. See NOVI-BAZAR
Yenisei river (Siberia), XXII, *b* 8, *a b* 9, note, b 15, b 17, a 18; (Transbaikalia), XXIII, *b* 541; (Yeniseisk), XXIV, *a b* 779
Yeniseians, people (Siberia), XXII, b 16
YENISEISK, province, XXIV, b 778-80; (Krasnoyarsk), XIV, b 147, a 148; (Russia), XXI, b 76; (Siberia), XXII, a 6, note, b 7, a 9, *b* 14, *a* 16, b 17
——, town, XXIV, a b 780
—— Taiga, mountains (Yeniseisk), XXIV, *a* b 779, b 780
Yeni-Shehr, town. See LARISSA
Yen-King, city (Cambaluc), IV, a b 639
Yen-ping Foo, department (China), V, *a* 553
Yen-ta, Tatar chieftain (China), V, *b* 563
Yen-tai, town. See CHE-FOO
YEOLA, town, XXIV, b 780
Yeomen, English (Land), XIV, *a* b 265; (Parliament), XVIII, a 313

Yeomen of the Guard (Archery), II, b 325; (Royal Household), XXI, b 43
YEOVIL, town, XXIV, b 780-1; (Somerset), XXII, b 271, *a* 272
Yerba Buena, island and mission (San Francisco), XXI, *a* 275
Yerbales, woods (Maté), XV, b 633, a 634
Yerba Maté. See Tea, Paraguay
Yercum (Fibres, Textile), IX, a 116
Yerli Opium, XVII, a b 811, note
Yermak, Cossack chief (Ivan IV.), XIII, b 529; (Russia), XXI, b 101, b 111; (Siberia), XXII, a 17; (Tobolsk), XXIII, b 458
Yerva do polos (Maté), XV, a 634
Ye-seen, Tatar chief (China), V, b 563; (Mongols), XVI, a 772
Yeshiboth, "sessions" (Jews), XIII, a 692
Yeshil Irmak, river. See Iris
Yéshū'bar Shūshan, patriarch (Syriac Literature), XXII, a 892-3
Yesso, island. See Yezo
Yestor, mountain (Devonshire), VII, b 120
Yetholm, loch (Roxburgh), XXI, b 39
Yeu or Dieu, island (Vendée), XXIV, a b 149
YEW, tree (Ill.), XXIV, a 781-2; (Arboriculture), II, b 277, a 279; (Botany) IV, b 76, b 91, b 108, b 132, a 140
Yew-chao She, emperor (China), V, a 558
Yeytor, mountain (Devonshire), VII, b 120
Yezd or Yezdikhast, town. See YAZD
Yezdegird, kings. See Yazdegerd
Yezíd I., caliph (Hasan and Husein, XI, b 454; (Mansur), XV, b 507
Yezidis, tribes (Mesopotamia), XVI, a 54; (Mosul), a 896
Yesid Khaneh Su, river (Tigris), XXIII, a 413
Yezo, island (Distribution), VII, b 234; (Japan), XIII, a 578, b 579, *b* 580, *b* 583, *b* 584, a 587
Y Gododin, poem (Celtic Literature), V, b 275, b 284
Y Gogled, district (Celtic Literature), V, a 261, b 262, *a* 275
Y-Guasú or Curityba river (Brazil), IV, a 199, a 200
Yguerne of Round Table stories (Romance), XX, a b 661
Yǐh mountains (China), V, a 551; river (China), a 551
Yih King (Confucius), VI, b 233-4
Yima, ideal king (Zoroaster), XXIV, a 861
Ying Kow, town. See Yingtze
Ying-teen, city. See NANKING
Ying-tsung, Mongol emperor (China), V, a 563
Ying-tsze, town (China), V, a *b* 557; (Manchuria), XV, *b* 473, a 474; (New-Chwang), XVII, *a* 391
Yirnajang, mountain (Himalaya), XI, a 737
Yishak or Isaac, rabbi (Rashi), XX, b 296, note
Yishma'el, rabbi (Midrash), XVI, b 298; (Talmud), XXIII, a 41
Y-lin, town (I-chang), XII, a 665
Ylya, river (Russia), XXI, a 81
Ymir, giant (Mythology), XVII, b 162, a 164
Ynca, Peruvian kings. See Incas
—— hualpa, bird (Peru), XVIII, b 686
Ynglingar, dynasty (Sweden), XXII, a 783
Ynglingasaga (Edda), VII, a 564; (Sweden), XXII, a 783
Ynirida, river (Orinoco) XVII, *a* 868
Yo, river (Bornu), IV, a 54, a 55
Yoga, philosophy (Sanskrit), XXI, a 305
Yogātāra, junction stars (Zodiac), XXIV, *b* 832, *b* 833
Yoghourma Opium, XVII, b 811
Yohanan ben Napha, rabbi (Talmud), XXIII, b 41
—— ben Zakkai, rabbán (Rab), XX, a 197
YOH-CHOW FU, city, XXIV, a 782
Yojoa, lake (Honduras), XII, b 133
Yokai-ichi, seaport (Nagoya), XVII, a 171
Yoke-elm, tree (Hornbeam), XII, a 172
Yokoba, city (Soudan), XXII, b 292
YOKOHAMA, city (Plan), XXIV, a b 782; (Japan), XIII, b 580, *a* 583, a 587, *b* 589
YOKOSUKA, naval station, XXIV, b 782-3; (Japan), XIII, a 590
Yola, or Yolla, city (Adamawa), I, a 129; (Africa), a 243; (Soudan), XXII, b 292
Yolande, queen of Aragon (John I., Aragon), XIII, b 726
——, duchess of Savoy, XXII, b 356; (Switzerland), XXII, *a* 826
Yolk glands (Trematoda), XXIII, a 571; sac (Mammalia), XV, b 371; segmentation (Embryology), VIII, *b* 153, a 154
Yolofs, tribes. See Wolofs
Yoma, mountains (Burmah, British), IV, *b* 499; (India), XII, b 769, a 770, a 773; (Tavoy), XXIII, a 91
Yom-ki-long-mo, goddess (Tibet), XXIII, a 366
Yomuts, tribe (Turks), XXIII, a 703
Yonathan, rabbi (Semitic Languages), XXI, *a* 680; (Targum), XXIII, a 70
Yonge, Nicholas, musical amateur (Madrigal), XV, a 193
YONKERS, city, XXIV, a 783
YONNE, department, XXIV, a b 783; (Wine), a 639
——, river (France), IX, a 446, b 457 (Nièvre), XVII, *a* 509; (River Engineering), XX, b 588, a b 589; (Seine), XXI, *a* 655; (Seine-et-Marne), b 655, a 656; (Yonne), XXIV, *a* 783
Yorck or York, Hans David Ludwig von Wartenburg, general (Prussia), XX, b 15
Yoredale group (Geology), X, a 307, a 308; (Derby), VII, b 93; (Westmorland), XXIV, *b* 542, a 543, a 544; (York), b 783, b 784
Yoriacum, town. See IVRY
Yoritomo, chief (Japan), XIII, b 591, a 592
YORK county (Plate XVIII), XXIV, b 783-7
  administrative features, b 785-6
  agriculture, b 784-5
  ancient castles, b 786-7
  area, b 783
  bibliographical, b 787
  ecclesiastical features, a 787
  geology, b 783-4
  history, a b 786
  minerals, b 784
  springs, mineral, b 784, b 785
  trade features, b 785
  water systems, a b 784
—— (Coal), VI, a b 47, b 48-9, b 52, b 61, a 63, b 64; (England), VIII, b 195; (Geology), X, a 254; College (Leeds), XIV, b 408
—— county (South Carolina), XXII, *b* 301
—— Archbishopric, II, a b 323, a 324; (Convocation), VI, a 289, b 291, a b 292, a 293; (England), VIII, b 224, a b 254; (Ireland), XIII, a 255; (Northumberland), XVII, b 583; (Scotland), XXI, a b 504, a 506
YORK, city (Plan), XXIV, b 783, a 784, b 785, *a b* 786, a b 787-9; (Bridges) (Ill.), IV, b 299, a 300; (Harold III.), XI, a 434; (Maine), XV, b 303; charter of (Freemasonry), IX, a 658; St. Mary's Abbey at (Ill.), I, a b 20, b 27. See York cathedral
YORK, Pennsylvania, city, XXIV, b 789
——, town, Canada (Toronto), XXIII, b 477
——, town (Western Australia), XXIV, a b 535, *b* 536
——, Edmund Plantagenet, duke of (York), XXIV, a 790
——, Frederick, duke of (Army), II, *b* 500; (Croker), VI, a b 526; (Windham), XXIV, a b 630
——, Henry Stuart, cardinal (James, Pretender), XIII, b 570; (Stuart), XXII, a 643
——, James Stuart, duke of. See James II. of England
——, Richard, duke of (England), VIII, *a* 294; (Henry VI., England), XI, *a* 590; (Ireland), XIII, b 267; (Warwick), XXIV, *a* 402; (York), *b* 789, *a* 790
——, Rowland, swordsman (Fencing), IX, a 62
—— cathedral, XXIV, b 787-8; (Architecture) (Plate XIX), II, a b 374, b 404, *a* b 405, a 416, b 417, b 418; (Crypt), VI, b 591; (Libraries), XIV, a 512, b 517, b 546
YORK, house of, XXIV, b 789-91; (Duke), VII, b 448-9; (Lancaster, House of), XIV, b 256. See Wars of the Roses
Yorke, Sir Charles, chancellor (Warburton), XXIV, a 389
—— peninsula (South Australia), XXII, a *b* 297, a 298, a 300
—— -Fort, factory (Canada), IV, b 684
—— House (Twickenham), XXIII, b 716
—— -races (Horse), XII, *b* 204, *a* 205
—— -road, Somers Town (London), XIV, b 838
"—— -round" (Archery), II, b 326
Yorktown, battle of, 1781 (Tarleton), XXIII, a 923; (United States), b 792-3, b 836
Yoro, department (Honduras), XII, b 135
YORUBA or Yariba, country, XXIV, a 791-2; (Ilori), XII, a 749; (Soudan), XXII, a b 292; religion (Benin), III, b 494
Yosemite valley (California), IV, a 619
Yoshitsuné, chief (Japan), XIII, b 591
Youatt, William, veterinary surgeon (Breeds), IV, b 223, a *b* 224
YOUGHAL, seaport, XXIV, b 792-3; (Waterford), a b 422
Youghiogheny, river (Maryland), XV, a 609
Youmans, Anne Eliza, botanist, XXIV, b 922
YOUMANS, Edward Livingston, chemist, XXIV, b 922
——, William Jay, scientist, XXIV, b 922
Young, Sir Allen, explorer (Polar Regions), XIX, b 334, b 336-7
YOUNG, Arthur, agricultural economist, XXIV, b 793-4; (Agriculture), I, b 272, b 367; (Burke), IV, a 488, a 489; (France), IX, a 526, b 328; (George III.), X, b 382; (Ireland), XIII, b 234, a 236, *a* 237, a 239, b 248
YOUNG, Brigham, Mormon, XXIV, a 794; (Mormons), XVI, b 852-4
——, Sir Charles (Precedence), XIX, b 680, note, a b 681 notes, b 682 note, b 683 note, a 684
——, Charles A. (Astronomy), II, b 689, b 690, b 691
——, Edward, economist (Taxation, United States), XXIII, a 927
YOUNG, Edward, poet, XXIV, a b 794; (Drama), VII, a 378, note; (English Literature), VIII, a 282; (Pope), XIX, b 500-1; (Thornhill), XXIII, b 335

Young, James, chemist (Paraffiu), XVIII, a 241, a b 244, a 245; (Petroleum), a 726
——, Sir John, governor (Ionian Islands), XIII, a 213
——, John, governor of New York (Van Rensselaer), XXIV, b 876; (Astronomy), II, a 666
——, Thomas, divine (Milton), XVI, b 336, b 337, a 341
YOUNG, Thomas, physician, XXIV, b 794–5; (Arago), II, b 264, a *b* 266; (Capillary Action), V, b 51, a 57; (Elasticity), VII, a b 698; (Encyclopædia), VIII, a 184; (Light), XIV, b 601, a 608, a b 610, a b 611, b 613; (Navigation), XVII, b 268–9; (Paraffin), XVIII, b 247; (Vascular System), XXIV, b 105, a 106; (Wave Theory), b 450, b 458, a 462, note, *b* 470, b 475
Young Bull, painting (Potter, P.), XIX, b 617
"Young Europe," society (Mazzini), XV, a 662
"Young Germany," school (German Literature), X, b 487; (Gutzkow), XI, b 303
"Young Italy" of Mazzini (Carbonari), V, a 79; (Charles Albert), b 368; (Italy), XIII, a 497–501; (Mazzini), XV, *b* 661
Young's modulus (Elasticity), VII, a b 698, a b 699, a 701, *a* 707–8, b 709; (Strength of Materials), XXII, b 624, a 625
YOUNGSTOWN, city, XXIV, a 795
"Young Switzerland," society (Mazzini), XV, a 662
Young William's islands (Caroline Islands), V, a b 111
Yourouks (Asia Minor), II, a b 622
Youth (Medical Jurisprudence), XV, b 788
Yowangatake, mountain (Lew Chew), XIV, b 489
Yperlee, river (Belgium), III, a 445
YPRES, town, XXIV, a 795
Ypsilanti, princes (Roumania), XXI, *b* 25, *a* 26
Y-pyta (Plate), XIX, b 199
Yriarte, Charles, historian (Rimini), XX, a b 572, b 574. See List of Contributors
——, Ignazio, painter (Murillo), XVII, a 62
—— or IRIARTE, Tomas de, poet, XII, b 281; (Fable), VIII, b 734; (Spain), XXII, a 375
Yrieix, St., town (Vienne), XXIV, b 241
Yrkull, Boris d', baron (Hegel), IX, b 549
Yrnerius, jurist. See IRNERIUS
Ysabel, island (Solomon Islands), XXII, b 265, note, b 266, *a* 267
Ysaie le Triste (Romance), XX, b 664, *b* 665
Yseult, Isolde or Isolt, of Brittany (Romance), XX, *a* 664; of Ireland (Romance), *b* 663–4; of Round Table (Romance), XX, *a* b 659
Ysopet, fabulist (Fable), VIII, a 734; (Marie de France), XV, b 548
Yssel, river (Holland), XII, *b* 65, *a* 66; (Salic Law), XXI, a 223, note
Ystwith river (Cardigan), V, a 84
Ythan, river (Aberdeenshire), I, *b* 46
Ytterbium spectrum (Spectroscopy), XXII, a 391
Ytternæs, port (Aland Islands), I, b 391
Yttria (Mineralogy), XVI, b 420; (Yttrium), XXIV, *b* 795
YTTRIUM, chemical element, XXIV, a b 795; (Chemistry), V, a b 470; (Garnet), X, b 73; spectrum (Spectroscopy), XXII, b 390
Yttrocerite (Mineralogy), XVI, a 399
Yttroilmenite (Mineralogy), XVI, b 446
Yttrotantalite (Mineralogy) (Ill.), XVI, a 446
Yttrotitanite (Mineralogy), XVI, a 444
Yu, emperor (China), V, *b* 558, a 559
——, mineral (Jade), XIII, b 549; (Mineralogy), XVI, b 438, a 442
YUCATAN, peninsula, XXIV, b 795–8
  ancient culture, b 797
  area, b 795
  bibliography, a b 798
  climate, a 796
  inscriptions, a b 797
  Maya-Quiché nations, a 798
  people and towns, a 796, a 798
  physical features, b 795
  ruins, b 796–7
  Spanish conquest, a b 796
  vegetation, a 796

—— (Alphabet), I, b 529; (Dances), VI, b 703, b 704; (Mexico), XVI, a 222, b 223; channel (Yucatan), XXIV, b 795, a 796
——, *Incidents of Travel in* (Stephens), XXII, a 564
YUCCA, genus of lilies, XXIV, b 798; (Botany), IV, a 79, b 110; (Horticulture), XII, b 260; (New Mexico), XVII, b 411
Yudhishthira, prince (Sanskrit), XXI, b 294, a 295
Yuĕ-che, kingdom of (China), V, a 559; nomads (Persia), XVIII, b 603, a b 604, a 611, b 617; (Turkestan), XXIII, a 680
Yueh, country (Tong-King), XXIII, b 468
Yuen-Ching, Mongol emperor (China), V, a 563
Yuen Keang, river (China), V, b 553
Yuen-Pen (Drama), VII, b 346
Yuen-tsung, emperor (China), V, a 561
Yug, river (Russia), XXI, b 80; (Vologda), XXIV, *b* 303
Yugurs, people. See Uigurs
Yuh Keang, river (China), V, a 549
Yuk, river (Dwina), VII, a 491
Yukon, river (Alaska), I, b 393; (Pacific Ocean), XVIII, b 120
Yule, festival. See CHRISTMAS
Yule, Henry, colonel (Burmah), IV, a 496, b 498, b 499. See List of Contributors
Yuma, tribes (Indians), XII, a 867
Yumadoung mountains (Arákán), II, *a* 268
Yuna river (Hayti), XI, b 485, *a* 486
Yuncas, tribe (Bolivia), IV, *b* 12; (Peru), XVIII, a 690; language of (Peru), a 690
Yung-ching She, emperor (China), V, a 558
Yung-ching, Tsing emperor (China), V, a 565, a 567
Yung-leĭh, emperor (China), V, b 564
Yung-lo, Ming emperor (Peking), XVIII, a 480, a 481; (China), V, a 563
Yung-ping Foo, department (China), V, b 551
Yun-ho river (China), V, b 548–9
Yunnan, province (Burmah), IV, *b* 495; (China), V, b 547, a b 548, a 549, a 550, *b* 556–7, b 562, b 564, b 566; (Kublai Khan), XIV, b 151; (Opium), XVII, a 814; (Plague), XIX, b 178–9; (Tong-King), XXIII, b 467, a 468, b 469
YUN-NAN FU, city, XXIV, b 798; district (China), V, *b* 556
Yunque, mountain (Cuba), VI, a 601
Yúnx (Birds), III, b 620, a *b* 621. See Iynx
Yupanquï, Inca (Chili), V, a 537
Yuraks, people (Samoyedes), XXI, b 263, *a* 264; (Turks), XXIII, b 703
Yuri Danilovitch of Moscow (Russia), XXI, b 99
Yurieff, town. See DORPAT
Yuri Miloslavski, novel (Russia), XXI, b 115
Yurma, peak (Ural Mountains), XXIV, *b* 8
Yurtas, habitations (Yakutsk), XXIV, *a* 763
Yuruari, territory (Venezuela), XXIV, *b* 152
Yus, river (Yeniseisk), XXIV, a b 779
Yu-shan, lake (China), V, a 549
Yussef Ibn Tashfyn. See Tashfyn
—— Kothual, chief (Alp Arslan), I, a 527
Yuste, convent of (Plasencia), XIX, a 188; (Charles V, Emperor), V, b 361–2
Yúsuf Abú Ya'kúb, general (Mansur), XV, a 508; (Portugal), XIX, *b* 556
—— ibn Táshufin caliph. See Tashfyn
Yúsuf u Zalíkhá, poems (Persia), XVIII, a 670, b 673
Yûsufzai, district (Afghânistân), I, a b 204, a 205, b 209; town (Punjab), XX, b 115
Yûsufzais tribe (Afghânistân), I, a b 211
Yutta, plateau (Palestine), XVIII, a 177
Yuzhnaya, bay (Sebastopol), XXI, a 647
Yverdon, town (Neuchatel), XVII, b 370, a 371; (Vaud), XXIV, *b* 125
YVETOT, town, XXIV, b 798–9
Yvon, Pierre, controversialist (La Badie), XIV, b 164
Yzer, river (Belgium), III, a 445
Yzerberg, mountain (Transvaal), XXIII, b 550

Z, letter, XXIV, a 799
ZAANDAM, Zaanredam, or Saardam, village, XXIV, a b 799; (Peter I., czar), XVIII, a 712
Zâb, rivers (Kurdistan), XIV, a 157; (Tigris), XXIII, a 413; valley (Nestorians), XVII, a 366
Zabad inscription (Semitic Languages), XXI, *a* 683
Zabergan, king, Huns (Greece), XI, b 100
Zabians. See Sabians or Sabæans
Zabielin, historian (Russia), XXI, a 117; (Slavs), XXII, b 154
Zâbul, region (Cabul), IV, b 554
ZACATECAS, city and state, XXIV, b 799–800; (Mexico), XVI, a 223, b 907, b 908, b 909
ZACH, Franz Xaver, baron von, astronomer, XXIV, a 800; (Astronomy), II, *b* 705
ZACHARIAE VON LINGENTHAL, Karl Salomo, jurist, XXIV, a 800–1; (Basilica), III, a 363
ZACHARIAS, St., pope, XXIV, a 801; (Popedom), XIX, a 509, a 524
——, Benito (Admiral), I, a 142
—— Rhetor or Scholasticus (Syriac Literature), XXII, a 875, a b 877
Zacynthus, ancient city (Zante), XXIV, a b 805; (Numismatics), XVII, a 660
Zada, Sheikh, chronicler (Turkey), XXIII, a 698
Zaddach, naturalist (Trematoda), XXIII, b 571, a 575
Zaddikim, leaders (Jews), XIII, a 692
Zadok, sons of, priests (Pentateuch), XVIII, b 520; (Priest), XIX, *a* b 748. See SADDUCEES
Zadonstchina, poem (Russia), XXI, b 112
Zadrugas, communities (Servia), XXI, b 721
Zafarines, islands (Morocco), XVI, b 856
Zafar Khan, sultan (India), XII, b 832
Zafarnáma or *History of Timur* (Petis de la Croix), XVIII, a 717; (Timur), XXIII, *b* 426
Zaffre, color (Cobalt), VI, b 76, a 77
Zagarelli, philologist (Georgia), X, b 389, b 390
Zagora, country (Geeece), XI, b 103
Zagoskin, Mikhail Nicolawitch, novelist (Russia), XXI, b 115, a 117

Zagozhi, island (Niger), XVII, b 510
Zagrab. See Agram
Zagreus, god (Dionysus), VII, a 217
Zaherani, Nahr el, river (Lebanon), XIV, b 393
Zahir, mosque (Egypt), VII, a 660; Sheikh, rebel (Tiberias), XXIII, a 356
Zahn, critic (Hebrews), XI, a b 539, a 542; (Syriac Literature), XXII, a b 864
Zahrá, palace (Spain), XXII, b 328, b 329
Zahr el-Kazíb, mountain (Lebanon), XIV, a 394
Zähringen, counts of (Freiburg), IX, a 671, *a* b 672; (Hapsburgh), XI, a b 405
Zaid ben 'Ali, pretender (Mohammedanism), XVI, a 598
—— ben Haritha, freedman (Mohammedanism), XVI, a 572
—— ben Thábit, scribe (Mohammedanism), XVI, b 626, b 627
Zainab, Jewess (Mohammedanism), XVI, a 581
ZAIRE or Congo, river, XXIV, b 801-3; (Africa), I, b 220, b 222, a 223, a 225, b 227; (Congo), VI, b 235, *a b* 236, a b 237; (Tanganyika), XXIII, b 50
Zäire, tragedy (Voltaire), XXIV, b 307, b 312
Zaisan, lake (Semipalatinsk), XXI, a b 671
Zakataly, province and town (Russia), XXI, b 76, note; (Transcaucasia), XXIII, b 545, b 547
Zakariyá, Abu, prince (Tunis), XXIII, b 661
Zaki, regent (Persia), XVIII, b 655-6
Zakonik, code (Servia), XXI, *a* 721, b 722
Zakrzewski, Vincent, historian (Poland), XIX, a 317
Zaleski, Bogdan Joseph, poet (Poland), XIX, a 316
——, Waclaw, poet (Poland), XIX, b 315
Zaleucus, legislator (Locri), XIV, a b 771
Zalim Sinh, chief (Jhalawar), XIII, b 700
Zalláka, battle of, 1086 (Spain), XXII, b 330
Zalmuna, sheik (Gideon), X, b 525
Zaluski, Andrew Chrysostom, historian (Poland), XIX, b 313
——, Joseph Andrew, bishop (Poland), XIX, a 314
—— Library, St. Petersburg (Libraries), XIV, b 532
Zama, battle of, 202 B.C. (Hannibal), XI, a 397; (Rome), XX, *a* 769; (Scipio), XXI, b 488, a 489
Zamán Sháh (Punjab), XX, *b* 117
Zamback Jasmine, XIII, b 605
Zambales, Cordillera de (Philippine Islands), XVIII, b 765
Zambeccari, count (Aëronautics), I, b 171, b 172
ZAMBESI, river, XXIV, b 803-4; (Africa), I, *b* 221, a b 222, b 224, b 225, b 226, a b 228, b 230; (Ichthyology), XII, a 711; (Livingstone), XIV, b 726-7; (Mozambique), XVII, *b* 13, *a* 14
—— languages (Zululand), XXIV, a 867
Zambo, mixed breed (Negro), XVII, b 328
Zamenis, snake (Reptiles), XX, a 486
Zamindár, collector (India), XII, a b 809, b 810; (Hastings), XI, b 459; rights (India), XII, b 840-1, a 843; (Madras), XV, b 186, a 187, b 188
Zamma, teacher (America), I, a 618
Zamoiski, Jan, chancellor (Poland), XIX, *b* 305, b 311, a 312
ZAMORA, province, Spain, XXIV, b 804-5; (Spain), XXII, b 312
——, state (Venezuela), XXIV, a b 152
ZAMORA, city of Spain, XXIV, a 805
Zamorano, Roderico, geographer (Navigation), XVII, b 260, a 261
Zampa (Hérold), XI, a 679
Zampieri, Domenico, painter (Domenichino), VII, a 302
Zamr-al-Kebír, instrument (Oboe), XVII, a 725
Zamzam, well of (Mecca), XV, a 678, a *b* 680
Zancara, river (Spain), XXII, b 309
Zancle, city (Messina), XVI, a 62; (Numismatics), XVII, b 655; (Sicily), XXII, a b 21
Zanclodontidæ, family (Reptiles), XX, b 456 note
Zander, fish (Pike-Perch), XIX, a 98
Zandey, tribes (Niam-Niam), XVII, b 486, a b 487
Zanes, images (Olympia), XVII, b 791
ZANESVILLE, city, XXIV, a 805
Zangemeister, philologist (Palæography), XVIII, a 156, b 166
Zanguebar. See ZANZIBAR
Zanobius, bishop (Florence), IX, a 292
Zansz, Hans, optician (Microscope), XVI, a 271
ZANTE, island and city, XXIV, a 805-6; (Greece), XI, a 77, a 79, a 80; (Ionian Islands), XIII, b 211, *a b* 212
ZANZIBAR, country and island, XXIV, a 806-7; (Africa), I, a 237, b 242; (Arabia), II, b 229; (Birds), III, a 659; (Copal), VI, *a* 304; (Mombasa), XVI, b 723, b 724
ZANZIBAR, city, XXIV, b 807
——, or Sawahilil Coast (Africa), I, a b 230, 231, b 234, a b 242
Zaphrentinæ, tribe (Corals) (Ill.), VI, b 338, a b 339, b 340, a 341
Zapolya, John, king of Bohemia (Austria), III, b 108-9; (Hungary), XII, b 383, a 384; (Transylvania), XXIII, b 555; (Turkey), b 684
——, Sigismont, waiwode (Hungary), XII, a 384
Zapolya (Drama), VII, a 379
Zapornia, bird (Rail), XX, a 230
Zaporog Cossacks, VI, *a* 397; (Russia), XXI, a 87, a 108
Zapoteca Dictionary, VII, a 168
Zapskovie, town (Pskoff), XX, a b 41
Zapus, genus (Mammalia), XV, a 425
ZARA, town, XXIV, b 807-8; (Crusades), VI, *b* 555; (Dalmatia), *b* 690; (Dandolo), a 707; (Faliero, Marino), IX, a 13; (Villehardouin), XXIV, a 247
——, Antonio, bishop (Encyclopædia), VIII, b 176
ZARAGOZA or Saragossa, province, XXIV, a 808; (Spain), XXII, b 312, a b 314, a 315, b 318
ZARAGOZA or Saragossa, city (Plan), XXIV, a 808-9; council of (Monachism), XVI, a 729; rise of (Spain), XXII, *a* b 322, a 326; siege of (Palafox y Melzi), XVIII, b 170
Zarah hollow (Sistán), XXII, b 108-9
Zaraisk, town (Ryazañ), XXI, b 124
Zarate, Augustin de, historian (Peru), XVIII, a 693
——, Fernando de, dramatist (Enriquez Gomez), VIII, b 400
Zarathushtra. See ZOROASTER
Zaratite (Mineralogy), XVI, a 416
Zarato, painter. See FELTRE, Morto de
Zardhust-Nâma, sacred book (Zoroaster), XXIV, *b* 859
Zariaspa, city (Afghânistân), I, a b 218; (Balkh), III, a 244
——. See BALKH
ZARLINO, Gioseffe or Giuseppe, musician, XXIV, a 809-10; (Music), XVII, a 93
Zarncke, Friedrich (Prester John), XIX, a b 737
Zarni, town (Afghânistân), I, b 207; (Ghúr), X, *b* 509-10
Zarvanites, sect (Zoroaster), XXIV, b 861, note
Zastrow, engineer (Fortification), IX, a 408
Zaton or Zayton, city (China), V, *a* 546. See Chinchew
Zauber-Bibliothek (Magic), XV, a 204
Zauberer von Rom (Gutzkow), XI, a 304
Zauberflöte, opera (Mozart), XVII, a b 17; (Music), a 104, a 106
Zauberposse, play (Pantomime), XVIII, a 219
Zaudzi, station (Comores), VI, b 196
Zavelitchie, town (Pskoff), XX, a b 41
Zavoljie, district (Nijni-Novgorod), XVII, a 514
Zavul basin (Tibet), XXIII, *a* b 362
Zaza dialect (Kúrdistán), XIV, b 158
Zàzahòva, slaves (Madagascar), XV, b 172
Zea or Tzia, island. See CEOS
Zeagonite (Mineralogy), XVI, a 442
ZEALAND or Sjaelland, island, XXIV, a 810; (Denmark), VII, b 70, a b 71, *a* *b* 73, a 82
ZEALAND, province, XXIV, a 810; (Holland), XII, *a* b 62, a 63, a b 64, a 65, a b 66, *a* b 67, a 68, a b 69, a *b* 70, a *b* 73, b 75, *a b* 76, *b* 78, *a b* 79, b 81, a b 87, a 89; (Middelburg), XVI, a b 290
Zealanders, people (Guiana), XI, b 224
Zealots, sect (Israel), XIII, b 436, *a b* 437
Zea Mays or Maize, plant (Botany), IV, a 122; zones of (Histology), XII, b 17. See MAIZE
Zebah, sheik (Gideon), X, *b* 525
Zebed, town (Inscriptions), XIII, a 123 and note
Zebedáni, valley (Lebanon), XIV, b 394
Zebi, Sabbath, leader (Jews), XIII, b 690, b 691
ZEBRA, mammal (Ill.), XXIV, a 810-1; (Africa), I, a 232; (Horse), XII, a b 179; Burchell's (Dauw), VI, a 735
Zebu, mammal (Cattle), V, a b 213, b 214
ZEBULUN, tribe, XXIV, a b 811; plain of (Palestine), XVIII, b 175, a 180
Zecchino, coin (Numismatics), XVII, a 673, a 675
ZECHARIAH, prophet, XXIV, b 811-3; (Angel), II, b 26; (Haggai), XI, b 330, a 331, a 332; tomb of (Architecture), II, a 345
Zech's *Tafeln* (Tables), XXIII, b 17
Zechstein rocks (Geology), X, *b* 311, a 312
Zedekiah, king (Ezekiel), VIII, b 725
Zedekunst (Holland), XII, a 96
Zedler, Johann Heinrich, editor (Encyclopædia), VIII, a b 179
Zeeb, sheik (Gideon), X, *b* 525
Zeeklei, clay (Holland), XII, b 61
Zegzeg, city (Soudan), XXII, b 292
Zehngerichtenbund or Zehngerichte, league (Grisons), XI, b 182; (Switzerland), XXII, b 827, *a* 830
Zeidìyeh, sect (Imam), XII, a 753
Zeila, town (Adel), I, a 138; (Africa), b 242
ZEISBERGER, David, missionary, XXIV, b 922-3
Zeitoum, gulf (Greece), XI, b 74, b 75, b 80
ZEITZ, town, XXIV, b 813
Zĕkhā-isho of Rabban, monk (Syriac Literature), XXIV, a 878, note, a 880
Zelinde, play (Molière), XVI, a 650, a 651, b 652
Zell, town (Gold), X, a 661
——, Ulrich, printer (Typography), XXIII, a b 729, a 732, *b* 734, a 736, b 738, a 739
ZELLE or Celle, town, XXIV, b 813-4; (Hanover), XI, a *b* 399, a 400

Zeller, Eduard, scholar (Acts of the Apostles), I, b 115, *b* 118, a 119; (Mysticism), XVII, a 138; (Neoplatonism), b 342, a 347, b 348; (Parmenides), XVIII, a b 322; (Pythagoras), XX, b 144, b 145 note; (Scepticism), XXI, b 396, *a* 398, a 401; (Sosigenes), XXII, a 290; (Socrates), a 251; (Xenophanes), XXIV, *b* 755
——, Fritz, entomologist (Trematoda), XXIII, a *b* 571, a 575
Zellerfeld, town (Klausthal), XIV, a 110
Zelotti, Battista, painter (Veronese), XXIV, b 187
Zelter, Karl Friedrich, composer (Mendelssohn), XVI, a b 10, a b 11
Zeluco, romance (Moore, Dr. J.), XVI, a 830
Zemlyanoy-Gorod, suburb (Moscow), XVI, b 883, a 885, b 887
Zemstvo, council (Russia), XXI, *a b* 77, a 79
Zenana, woman's court (Hastings), XI, b 459; (Missions), XVI, b 541
Zend, meaning of word (Persia), XVIII, a 666
ZEND-AVESTA, book, XXIV, a 814-6
    contents, a b 814
    editions, b 816
    form and arrangement, b 814-5
    history, a 815-6
    manuscripts, a b 816
    name and language, a 814
    present form, b 815-6

—— (Ahriman), I, b 376; (Anquetil du Perron), II, a 81; (Brahmanism), IV, b 183, b 185; (Demonology), VII, a 57; (Fire), IX, a 200; (Pahlavi), XVIII, a 140; (Persia), b 595, note, a 614, a 657, a b 666, notes, a 667 note
Zend dynasty (Persia), XVIII, a 655-7, note
—— language (Burnouf), IV, b 504; (Dictionary), VII, b 165; (Persia), XVIII, a 666-7
Zenesquali, river (Caucasus), V, b 220, *a* 221, a 224
Zenger, John Peter, printer (Newspapers), XVII, b 445
Zengi Bor, town (Isauria), XIII, a 395
Zeni map (Polar Regions), XIX, b 328, a 329
Zenith, defined (Astronomy), II, b 667; (Geography), X, b 176, b 177; sector, Airy's (Earth), VII, a b 518; telescope (Geodesy) (Ill.), X, b 149-50
Zenj empire (Zanzibar), XXIV, *a* 807
Zenker, philologist (Ural-Altaic), XXIV, b 6, b 7
——, surgeon (Parasitism), XVIII, a 275
ZENO, emperor, XXIV, b 816-7; (Isauria), XIII, a 395; (Odoacer), XVII, b 747, a 748
——, Antonio, admiral (Venice), XXIV, a 159
——, Apostolo, historian (Italy), XIII, a 522, a 523; (Metastasio), XVI, a 109
——, Carlo, soldier (Venice), XXIV, a 156
——, Caterino, ambassador (Geography), X, b 160; (Persia), XVIII, b 644, a 646
——, Niccoló and Antonio, navigators (Geography), X, b 159; (Polar Regions), XIX, b 328
Zeno of Cyprus, philosopher (Stoics), XXII, *a* b 590, *a* 591, a 592, *a* 594, a *b* 595, b 596, b 597, a *b* 598, a b 599, a 600
ZENO of Elea, philosopher, XXIV, a 817-8; (Art), II, a 557; (Atom), III, b 33; (Eleatic School), VIII, *b* 3; (Evolution), b 661; (Parmenides), XVIII, b 322; (Socrates), XXII, a b 250; (Sophists), *b* 277
Zenobia, queen, Palmyra (Egypt), VII, b 648; (Longinus), XIV, *a* 875; (Palmyra), XVIII, b 205, a b 206; (Paul of Samosata), a 440; (Rome), XX, b 794
Zenobius of Edessa, deacon (Syriac Literature), XXII, a 868
—— of Pontus, general (Scio), XXI, a 488
Zenodotus of Ephesus, critic (Gloss), X, a 612
—— of Mallos, grammarian (Dictionary), VII, a 158; (Gloss), X, a 612; (Homer), XII, a 118
ZENTA or Zentha, town, XXIV, a b 818; battle of, 1697 (Eugene, Prince), VIII, b 579
Zentmayer's Microscope, XVI, b 287-8
Zeolite (Geology), X, b 203; (Mineralogy), XVI, a 387, a 401, b 438; (Pacific Ocean), XVIII, b 129, a 131
ZEPHANIAH, prophet, XXIV, b 818-9; (Joel), XIII, b 715; (Philistines), XVIII, a 770
Zepharovichite (Mineralogy), XVI, b 422
ZEPHYRINUS, St., bishop, XXIV, b 819; (Popedom), XIX, a 504, b 523
ZEPHYRUS, myth, XXIV, b 819-20
Zeraf, Bahr al, river (Nile), XVII, b 519
ZERAFSHAN, province and river, XXIV, a b 820; (Russia), XXI, b 76, note
——, river (Bokhara), IV, *a* 3; (Samarkand), XXI, b 258; (Turkestan), XXIII, b 674, b 678; (Yarkand), XXIV, b 764
Zerah (Judah), XIII, *b* 770
Zera'im (Mishnah), XVI, b 528
Zerayhah Hallevi, rabbi (Rabad), XX, a 198. See Hallevi
Zerbis, Gabriel de, physician (Anatomy), I, a 707
ZERBST, town, XXIV, b 820; (Anhalt), II, *a* b 43
Zerghát, district (Chhindwárá), V, *a* 529
Zerklar, Thomasin, poet (Germany), X, b 470
Zernetz, village (Engadine), VIII, *b* 193
Zero (Infinitesimal Calculus), XIII, b 16; (Numbers), XVII, a 630, b 636; (Numerals), a b 641, *a* 642; origin of (Pisanus), XIX, b 134; potential (Electricity), VIII, a 23
Zerotin, Karl ze, author (Slavs), XXII, b 161, b 162
Zerryn Taj, prophetess (Babi), III, b 156, a 157
Zerubbabel, prince (Haggai), XI, *a b* 331, notes, a 332; (Zechariah), XXIV, *b* 811, *a* b 812; his Temple, XXIII, b 183-4
Zervókhori, village (Heraclea), XI, a 607
Zesen, Philip von, satirist (Germany), X, a 475
Zetacism (Greece), XI, a 117
Zeta-Moratcha, valley (Montenegro), XVI, b 805, a b 806
Zethus. See Tomb of Zethus
Zetinje, town (Cettinje), V, a 311
Zetlitz, Jens, author (Norway), XVII, b 604
Zeugitana, province (Carthage), V, a b 140
Zeuglodon, fossil (Mammalia), XV, b 356, b 396, *a* b 397, a 399, *a* 401
Zeuner, G., physicist (Steam-Engine), XXII, b 503, a 504, b 524; his slide valve diagrams, b 524-5
Zeunerite (Mineralogy), XVI, b 424
ZEUS, Greek deity, XXIV, b 820-1; (Agamemnon), I, a 245; (Crete), VI, a *b* 504; (Cybele), a 657; (Dionysus), VII, b 216, a 217; (Ganymede), X, *b* 65, a 66; (Gorgon), *a* 698; (Greece), XI, b 82, a 84, *b* 86; (Hera), b 605-6; (Homer), XII, a b 123; (Io), XIII, a 208; (Ixion), b 537; (Jupiter), a *b* 789, a b 790; (Laodicea), XIV, b 293; (Mythology), XVII, a 143, *a* 144, *a* 145, b 146, a 147, a 155, *a b* 160, *a b* 161, note, *a* 162; (Prometheus), XIX, b 829, a 830, a 831; (Saturn), XXI, *a* 336, note; (Theism), XXIII, b 257, a 258; Aristæus, II, b 443; Soter, altar of (Pergamum), XVIII, *b* 538; *Olympian*, statues of (Archæology), II, a 311, a 313; (Phidias), XVIII, *a* 748; (Dodona), VII, a b 280; (Olympia), XVII, a b 787; Tarentum (Bronze), IV, b 331; statues of (Archæology), II, a 304, b 306; temple of (Selinus), XXI, b 665-6. See JUPITER
——, *Hymn to* (Stoics), XXII, a 598
——, fish (Dory), VII, b 324; (Ichthyology), XII, b 717, a 718, a 728
Zeuss, Johann Kaspar, philologist (Celtic (Literature), V, b 258, *a* 260, a 265, a 274, a 281, a 283
Zeuthen, mathematician (Curve), VI, a 637, b 639, b 641, a 642
ZEUXIS, painter, XXIV, a b 822; (Archæology), II, a 314, b 317; (Parrhasius), XVIII, a 327; (Terra-Cotta), XXIII, b 210
ZEVIS, Altichiero da, painter (Verona), XXIV, b 186
Zeybeks or Zebeks (Asia Minor), II, a 622; (Carians), V, a 91
Zever, poet (Slavs), XXII, a 162
Zeyla, port (Somali), XXII, b 269
Zezere, river (Tagus), XXIII, b 26
Zheguleff, hills (Simbirsk), XXII, b 83, a 84
ZHITOMIR or Jitomir, town, XXIV, b 822; (Volhynia), b 302
Zhōb river (Afghânistân), I, b 206, a 208
Zhukovski, Vasili Andreevitch, poet (Russia), XXI, a 115, a 118
Ziani, Sebastiano, doge (Venice), XXIV, a 154, b 162, *a* 165, b 166
Ziáu-d dín Barní, historian (Thugs), XXIII, a 348
Zibebu, chief (Zululand), XXIV, *b* 868
Zibeth, animal (Civet), V, a 696
Zibin mountains (Transylvania), XXIII, b 554
Zib-un-nissa, poetess (Lahore), XIV, b 215-6
Zickzack, bird (Plover), XIX, b 239
Ziegelhein, exclave (Saxony), XXI, a 372
Ziegenbalg, Bartholemæus, missionary (Tamils), XXIII, a 49
Ziegenrücken, mountain (Riesengebirge), XX, b 566
Ziegler und Klipphausen, Heinrich Anselm von, dramatist (Germany), X, b 475
Ziela, battle of, 65 B.C. (Lucullus), XV, b 58
Zienkiewicz, Romuald, poet (Poland), XIX, b 315
Zierikzee, town (Holland), XII, *a* 79
Ziervogel and Tuchen's method (Potassium), XIX, a 608
Zigalga, peak (Ural Mountains), XXIV, b 8
Zihl river (Switzerland), XXII, a 815
Ziklag, town (David), VI, a b 738; (Israel), XIII, b 414
Zikr, chant (Dervish), VII, a 99
Zila, district (Madras), XV, b 187
Zimara, Marc Antonio, philosopher (Averroes), III, b 131
Zimb fly. See TSETZE
Zimbaoe, ruins (Africa), I, a 223
Zimisces, emperor. See JOHN I., Eastern Emperor
Zimmé, state (Shans), XXI, a b 810; (Siam), b 892
Zimmer, F., theologian (Paul), XVIII, a 427 note
ZIMMERMANN, Johann Georg. von, physician, XXIV, b 822-3; (Germany), X, b 478; (Goethe), *a* 648, a 656; (Switzerland), XXII, b 836; (Uranium), XXIV, *a* 12
——, Karl, court preacher (Gustavus Adolphus Union), XI, *a* 300

Zimmerman, Dr. Robert, philosopher (Fine Arts), IX, a 170
Zimmern, philologist (Ural-Altaic), XXIV, a 7
Zimocca Sponge, XXII, *a* 440, *a* 445, b 446
Zimorowicz, Bartholemy, poet (Poland), XIX, b 312
Zinaline, dye (Coal Tar Colors), XVIII, b 904
ZINC, metal, XXIV, a 823-6
  analysis, a 826
  chemical compounds, b 825-6
  distillation, b 824-5
  furnaces (Ill.), a b 824
  history, a 823
  impurities of ores, a 825
  metallurgy of, b 823-4
  ores, a b 823
  properties of metal, a b 825
—— (Afghânistân), I, a 208; (America), b 597; (Cadmium), IV, a 558-9; (Chemistry), V, a b 456, *b* 457; (China), a 557; (Elasticity), VII, a 707, 708; (England), VIII, b 207; (Germany), X, b 408; (Indium), XII, b 885; (Iron), XIII, a b 316; (Metallurgy), XVI, *a* 66; (Mineralogy), b 397, a 401-2, b 403-4, a 416, a 418, a b 421, b 422-3, a 428; (Mining), b 487, a b 489-91; (Missouri), a 549; (Poland), XIX, b 319, b 322; (Prussia), XX, *a* 19; (United States), XXIII, a 864, a 870; alloys (Gold), X, b 668; boiling point (Pyrometer), XX, b 140; organo-compounds of (Chemistry), V, *b* 497, a 498
—— -blende (Cadmium), IV, a 558, a 559; (Mineralogy), XVI, b 390, a 394; (Zinc), XXIV, *b* 823
—— -coating (Iron), XIII, a 367
—— -copper couple (Electrolysis), VIII, b 107-8
—— -cyanide (Prussic Acid), XX, b 28
—— -dust (Zinc), XXIV, b 824
—— -hydroxide (Chemistry), V, *a* 421
—— in boilers, use of (Steam-Engine), XXII, b 522; in "concentration" (Lead), XIV, a b 377; in typo-etching (Typography), XXIII, a 750
—— -salts (Poisons), XIX, a 290
—— -spectrum (Spectroscopy), XXII, b 390
—— -sulphate (Mineralogy), XVI, b 386
—— -sulphuret (Mineralogy), XVI, b 386, b 387
Zincite (Mineralogy), XVI, a 401
Zincke, George Heinrich, publicist (Political Economy), XIX, a 377
ZINCKEN or Zinken, wind instruments, XXIV, a 826-7
Zinckenite (Mineralogy) (Ill.), XVI, b 410
Zincke's chemical Thermometer, XXIII, b 310
Zinc-methyl (Methyl), XVI, a 206
Zincography (Lithography), XIV, b 705; charting (Surveying), XXII, b 752, b 753
Zinco-types (Typography), XXIII, b 749-50
Zinc-roofing (Building), IV, a 451
Zinc-white (Building), IV, a 457; (Lead), XIV, a 379
Zindeh-Rúd, river (Ispahán), XIII, b 404
Zinder, prince of (Bornu), IV, b 55
Zindl, king (Gipsies), X, a 547
Zingareschi-painting (Solario), XXII, b 262
Zingaro or Zingano, name (Gipsies), X, a 546, b 550
——, Lo, painter. See SOLARIO
Zingerle, orientalist (Syriac Literature), XXII, b 867, a 868 note, a 869 note, a 870, note, a *b* 872, note, *b* 877
Zinho, mountain (Tras-os-montes), XXIII, a 558
"Zinkstukken" (Holland), XII, b 62
Zinn, Johann Godfrey, physician (Anatomy), I, a 714, b 715
Zinnia elegans, species (Horticulture), XII, a 256
Zinnwaldite (Mineralogy) (Ill.), XVI, b 430
Zinspaläste, tenement palaces (Vienna), XXIV, b 237
ZINZENDORF, Nicolaus Ludwig, count of, reformer, XXIV, a 827-8; count (Chelsea), V, b 396; (Hymns), XII, b 622; (Moravian Brethren), XVI, a 838; (Spangenberg), XXII, *b* 382
Zion, mount (Jerusalem), XIII, *b* 649, note, a 650, b 651, a 652; (Moriah), XVI, b 850
Zionites, sect (Ronsdorf), XX, a 865
Zipfer, mountains (Carpathian Mountains), V, a 112
Ziphiinæ, sub-family (Mammalia), XV, a 400
Ziphioids, group (Mammalia), XV, a 397
Ziphius, genus (Mammalia), XV, a b 400
Zirbel or Zirbel-Kiefer (Pine), XIX, b 114
Zircon, mineral (Jacinth), XIII, b 541-2; (Mineralogy) (Ill.), XVI, a 382, b 384, b 390, a 406, a 443; (Zirconium), XXIV, a 828
Zirconia (Mineralogy), XVI, b 444
ZIRCONIUM, metal, XXIV, a b 828; (Chemistry), V, b 466-7
Zirites, dynasty (Tunis), XXIII, b 660, a 661
Zirkel, Ferdinand, mineralogist (Geology), X, b 205, b 206 note, b 209, a 210; (Surveys), XXII, a 937, b 938
Ziska. See ZIZKA
ZITTAU, town, XXIV, b 828-9
Zittel, explorer (Sahara), XXI, a b 158, *a* 159; (Sponges), XXII, b 427, *a* 444, a 445
Ziyád, bastard (Mohammedanism), XVI, a b 389
Ziza, catacombs of (Cemetery), V, b 288
Zizianoff, general (Persia), XVIII, a 659
Zîzîth, charm (Phylactery), XIX, a 5
ZIZKA, John, Hussites chief, XXIV, a 829; (Adamites), I, b 129; (Hussites), XII, b 422, *a* 423
Zizyphus, genus (Jujube), XIII, a *b* 777
Zlataric, Dominco, poet (Servia), XXI, a 723
ZLATONST, town, XXIV, a b 829; district and town (Ufa), XXIII, a *b* 764; (Ural Mountains), XXIV, b 10
Zmichowska, Gabriele Narzyssa, poet (Poland), XIX, b 317
ZNAIM or Znaym, town, XXIV, b 829
Znojmo, town (Znaim), XXIV, *b* 829
Zoan, town (Egypt), VII, a 667
Zoana, images (Wood-Carving), XXIV, b 679, a 680
Zoantharia, order (Corals) (Ill.), VI, a 327-37
Zoanthidæ, family (Actinozoa), I, b 120, a 121; (Corals), VI, a 327, b 328, a 329
Zoanthus, genus (Crustacea), VI, a 581
Zoarium, or colony (Polyzoa) (Ill.), XIX, a 445, a b 446, a 447, b 450
Zóba'ah, whirlwind (Egypt), VII, a 610
Zobah, state (Syria), XXIII, b 861
Zobair ben Bakkâr, historian (Tabarí), XXIII, a b 7
Zobeir, town (Bussorah), IV, b 514
Zöblitz, quarries (Serpentine), XXI, a b 715
Zobten, mountain (Silesia), XXII, a 57, a 58
Zöckler, Otto, theologian (Chronicles), V, b 614 note, *a* 616
ZODIAC, imaginary zone, XXIV, b 829-35
  Arabian system, a b 833
  architecture, b 834-5
  astrology, a 834-5
  Aztec, a 832
  Chinese signs, b 831-2, a b 833
  constellations, b 829, a 831
  cyclical meaning of signs, a 831
  duodenary divisions, b 829-30
  Egyptian and Greek signs, a b 831, a b 834
  hieroglyphs, a 835
  Hindu *nakshatras*, a 832-3
  lunar zodiac, a 832-4
  planispheres, b 834
  signs, a 830-1
—— (Astrology), II, b 647, a b 648; (Astronomy), a 674, a 679; (Denderah), VII, a 69; (Dupuis), VII, b 475; (Egypt), a 673, b 678; (Manichæism), XV, a 491; Hindu (Chronology), V, a 624
ZODIACAL LIGHT, XXIV, a 835-7
  bibliography, a 837
ZODIACAL LIGHT. *continued*
  constitution of, b 836-7
  extent, b 835
  general description, a 835
  history, a b 835
  moon's light, a b 836
  position, b 835-6
—— (Astronomy), II, a 691; spectrum (Aurora), III, a 83
Zodiac-calendar (Magic), XV, b 204
"Zodiac of pleasures" (Zodiac), XXIV, b 834
Zoe, empress (Constantine VII.), VI, a 269; (Greece), XI, a 104; (Harold III.), b 433; (Michael IV., V.), XVI, *a* 235
Zoëa, stage of growth (Arthropoda), II, b 567; (Crustacea) (Ill.), VI, a b 569-71
Zoen of Avignon, bishop (Universities), XXIII, b 889
Zoghawa, tribe (Darfur), VI, a 725; (Soudan), XXII, a 292; (Tibbus), XXIII, *a* b 355
Zohair, poet (Mo'allakát), XVI, a 560, a 561, a b 562
Zohâk (Afghânistân), I, b 216, a 219
Zohar, book (Alchemy), I, b 409, a 412; (Jews), XIII, *b* 691; (Kabbalah), b 822-3; (Midrash), XVI, b 298, notes
Zoharites, sect (Jews), XIII, b 691
Zoiros, A., dramatist (Drama), VII, b 362
Zoisite (Mineralogy) (Ill.), XVI, a 427, b 438
Zójí-la Pass (Kashmir), XIV, b 12
Zola, Émile, novelist (France), IX, a 597
Zoller, historian (Rome). XX, a 751 note, a 753 note, b 754 note
Zollern, counts of (Hohenzollern), XII, b 54-5
ZOLLNER, Johann Carl Friedrich, astronomer, XXIV, b 837; (Astronomy), II, a 690, b 701, a 702, a 709; (Electricity), VIII, a 55; (Photometry), XVIII, b 855
Zollverein (Austria), III, a 120; (Germany), X, *a* 409, b 415, a b 453, a b 456; (Protection), XIX, b 937, a 938, a 939
Zolotnic, weight (Weights and Measures), XXIV, b 519
Zoltan, Duke (Hungary), XII, *a* b 382
Zomba mountain (Africa), I, b 224
ZOMBOR, city, XXIV, b 837
Zonal harmonics (Legendre), XIV, b 414
ZONARAS, Joannes, historian, XXIV, b 837
Zone, circular (Mensuration), XVI, a 23; hyperbola (Mensuration), XVI, b 24; parabola (Mensuration), XVI, a 24; spherical (Mensuration), a 30
——, defined (Geology), X, a 288

Zones, Huygens's (Wave Theory), XXIV, a 451, a 452, a 473; of crystals (Mineralogy) (Ill.), XVI, b 364, b 366
—— of the earth (Geography), X, *a* 178; Ptolemaic (Climate), VI, b 3
Zongo rapids (Zaire), XXIV, b 802
Zonotes in Mexico (America), I, b 619
Zonotrichia, group (Birds), III, a 653
Zonule of Zinn (Anatomy), I, b 781
Zonuridæ, family (Lizard), XIV, b 739
Zoo-dynamics (Zoology), XXIV, a 842, b 853-6
Zoœcium or dwelling (Polyzoa), XIX, *b* 445, a 448, b 449, *a* 451, *a* b 452, *a* 454
Zooglœa, state (Schizomycetes) (Ill.), XXI, a 418, a b 419, a 420-1, a b 422, b 424
Zoographia Rosso-Asiatica (Ornithology), XVIII, a 12; (Pallas), b 192
Zoological Gardens (London), XIV, a 833, b 845; (Mexico), XVI, b 218; (Philadelphia), XVIII, a 751; (Zoology), XXIV, b 856
—— *Miscellany*, Leach (Ornithology), XVIII, a 11 note
—— regions (Distribution), VII, b 232, b 233-44
—— Societies, XXII, b 237
ZOOLOGY, XXIV, a 837-59
  bibliography, b 859
  biology, relations, a 857-8
  bionomics, a b 856
  branches of the study, a b 842
  division inadequate of morphology and physiology, a b 842
  evolution, development of, b 858-9
  hereditary transmission, b 857
  HISTORY, b 838-42
    academies, influence of, b 839-40
    anatomy and physiology, relation of, a 839
    Darwin's philosophy, b 840-2
    development, ideas of, a b 840
    microscopes, early use of, a 840
    naturphilosophen, b 840
    scientific treatment, rise of, a b 839
    teleological development, a b 841
    thremmatology, b 840-1
    travelling era, b 838-9
  instincts, transmission of, a b 858
  MORPHOGRAPHY, b 842-53
    Agassiz's system, b 848-9
    Baer's classification, a 846
    cellular embryology, a b 849
    classification of Linnæus, a 844-5
    Cuvier's classification, b 845-6
ZOOLOGY, *continued*
  MORPHOGRAPHY
    degeneration doctrine, b 850-1
    dendriform classification, a b 850
    distribution, geographical, a b 853
    enterozoa classified, a 851-3
    expeditions, b 853
    Gessner to Ray, a b 843
    Haeckel, a 849-50
    Lamarck's classification, a b 845
    Lankester's classification, a 851-3
    Leuckart's system, b 847-8
    Linnæus, b 843-5
    Linnæus to Cuvier, a b 845
    meaning of term, b 842
    morphologists, rise of, a b 846
    Milne-Edwards's system, a b 848
    Müller's system, Fritz, a b 850
    Müller, Johann, a b 847
    Owen's work, b 846-7
    protozoa, classified, a 851
    single-fact system, b 847-8
    structural classification, b 848-53
    taxonomy, Darwin's influence on, a 849-51
    Wallace's study, a 853
    Wotton's classification, b 842-3
  philosophy, relations of, b 858-9
  scope of history, a b 838
  teleology, b 856-7
  thremmatology, b 856-7
  variation, a 857-8
  ZOO-MECHANICS AND CHEMISTRY, b 853-6
    anatomy and physiology, comparative, b 853-4
    cell-theory, a 855-6
    chemistry, relations of, a 855
    Haller and Hunter's, b 854-5
    histology, rise of, a 855
    ovist school, a b 854
    plasmology, a 856
    physiology, cellular, b 855-6
—— (Cuvier), VI, b 654-5; (Geoffroy Saint Hilaire), X, a b 156; (Gervais), a 493; (Gesner), a 496; (Gray, J. E.), XI, b 69-70; (Horse), XII, a 176-80; (Ichthyology), a 666; (Lamarck), XIV, a 232
ZOOLOGY, AMERICAN, XXIV, a 923-6
  FOSSIL FAUNA, a 925-6
    cretaceous, b 925
    Jura-Trias, a b 925
    palæozoic, a 925
    quaternary, b 926
    tertiary, b 925-6
  LIVING FAUNA, a 923-4
    avifauna, b 923-5
    mammalia, a b 923
    reptilia, b 924-5
—— (Maine), XV, a 301
——, Arabic (Mohammedanism), XVI, a 619
Zoōphorus, frieze (Architecture), II, b 419
Zoospores (Africa), I, a 233; (Algæ), I, b 448; (Biology), III, a b 598; (Botany), IV, a 145; (Fungus), IX, a 728; (Lichens), XIV, b 559; (Reproduction), XX, a 436, *b* 437
Zootomy (Anatomy), I, b 700
Zooxanthella, genus (Protozoa), XIX, b 875
Zooxanthine, animal pigment (Trogon), XXIII, b 620 note
Zopf, W., naturalist (Protozoa), XIX, a 858, a b 860, b 864; (Schizomycetes), XXI, a *b* 416, note, b 418, *b* 421, note, b 422, a b 423, note
Zopyrus, goldsmith (Plate), XIX, b 191, a 192
——, governor (Persia), XVIII, b 583, note
——, physiognomist (Physiognomy), XIX, b 7
Zor, channel (Jordan), XIII, a 757
Zorgite (Mineralogy), XVI, b 407
ZOROASTER, reformer of Magianism, XXIV, a 859-63
  age of, b 860, a b 861
  development of religion of, b 862-3
  doctrine of, b 861-2
  dualism of, b 861-2
  eschatology of, a b 862
  Grecian accounts of, a b 859
  historical reality of, b 859-60
  Indian religion compared, b 860-1
  man, doctrine of, a 862
  origin and family, a b 860
—— (Ahriman), I, b 376; (Akbar), b 385; (Balkh), III, a 244: (Mithras), XVI, a 554; (Oxus), XVIII, b 104; (Persia), a b 666; (Zend-Avesta), XXIV, a b 815. See Zoroastrianism
Zoroastrian hierarchy (Persia), XVIII, a 618
Zoroastrianism, religion (Darius), VI, a b 726; (Devil), VII, a b 118; (Incense), XII, b 758; (Isaiah), XIII, a 393, b 394; (Israel), a 430; (Manichæism), XV, *b* 492; (Parsîs), XVIII, b 330, a 331-3; (Persia), a 576, b 595, b 603, a 618, b 621, a 623; (Pilgrimage), XIX, a 100; (Priest), b 745; influence of (Gnosticism), X, *a* 625, b 627; sacred books (Pahlavi), XVIII, a 139-40. See ZEND-AVESTA and ZOROASTER
Zorrilla, José, poet (Spain), XXII, a b 375
ZOSIMUS, St., pope, XXIV, a 863; (Pelagius), XVIII, b 482-3; (Popedom), XIX, a 506, b 523
ZOSIMUS, historian, XXIV, a 863
—— of Thebes (Alchemy), I, a 409
Zoster, promontory of (Attica), III, b 53
Zostera, plant (Botany), IV, a 109, b 125, a 143
ZOSTEROPS, genus of birds, XXIV, a b 863; (Birds), III, a 644
Zoticios, Papaspondylos, poet (Greece), XI, a 134
Zouaona, tribe (Kabyles), XIII, a 824,, note
Zouaves, soldiers (Kabyles), XIII, a 824 note
ZOUCH, Richard, jurist, XXIV, b 863-4
"Zounds" (Oath), XVII, b 720
Zouteveen, Hartogh Heys van, Dr. (Holland), XII, a 61, b 72
Zoutpansberg, mountains (Transvaal), XXIII, a b 550, *a* 551
Zrinyi, Nicholas, poet (Hungary), XII, b 391
——, Nicholas, soldier (Hungary), XII, a 384
ZSCHOKKE, Johann Heinrich Daniel, novelist and historian, XXIV, a b 864
ZUCCARO or Zucchero, Federigo, painter, XXIV, a b 865
ZUCCARO or Zucchero, Taddeo, painter, XXIV, b 864
ZUG, canton, XXIV, b 865-6; (Switzerland), XXII, 816, *b* 822, *a* 823, a 829, a 830, *b* 833, b 834
——, lake (Switzerland), XXII, a 815
——, town (Switzerland), XXII, b 816, a *b* 822; XXIV, *b* 865
Zuga, river (Africa), I, a b 229
Zugspitze, mountain (Germany), X, b 402
Zui, Tui or Tyri, god (Germany), X, a 426
Zuichemus, Viglius, jurist, (Basilica), III, a 363
Zukertort, J. H., player (Chess), V, *a b* 523, a 524
ZULLA or Zula, village, XXIV, a 866
Zulu language, XXIV, b 866
—— Kaffre languages, XXIV, b 866-7; (Dictionaries), VII, b 167; (Grammar), XI, *b* 829-30; (Kaffraria), XIII, *b* 827, a b 828, *a* b 829; (Negro), XVII, a 328. See Bantu
ZULULAND, territory, XXIV, a 866-8
  bibliography, b 868
  Boer encroachments, a b 868
  Cetshwayo's reign, b 868
  classification by speech, a b 867
  customs, b 867
  history, b 867-8
  language, b 866-7
  people, b 867
  physical features, a b 866
  territory of, a 866
Zulus, race (Anthropology), II, a 106; (Apparitions), a b 178; (Dance), VI, b 703; (Demonology), VII, a 54, a 56; (Mozambique), XVII, a 14; (Mythology), b 154, b 165; (Zambesi), XXIV, b 804; (Zululand), a 866-8
Zumbo, settlement (Zambesi), XXIV, *b* 804
Zumpe, Johann, musical instrument maker (Pianoforte), XIX, b 80, a 81, b 82

Zundererz (Mineralogy), XVI, b 404

Zuñi, town (New Mexico), XVII, b 411; tribes (Indians), XII, a 865, a 867; (Pueblo Indians), XX, a 887, *b* 888, a *b* 889, a 890; (Totemism), XXIII, b 500

Zuniga, Alonso de Ercilla y, poet. See ERCILLA

——, Juan de (Alcantara Knights), I, a 406

Zunz, Leopold, critic (Ezekiel), VIII, b 726; (Jews), XIII, b 692, note

Zurawno, treaty of, 1676 (Turkey), XXIII, b 686

ZURBARAN, Francisco, painter, XXIV, b 868–9; (Schools of Painting), XXI, b 459, a 464, b 466, b 467

ZURICH, canton, XXIV, a b 869; (Insurance), XIII, a b 169; (Italy), a 463; (Registration), XX, a 355; (Switzerland), XXII, 816, b 817, a *b* 818, *a* 819, a b 820, *b* 821, *a* 823, b 824, *a* 825, a b 829, a b 830, *a* b 831, a b 832, *a b* 833, a 834

ZURICH, city, XXIV, b 869; (Cloister), VI, a 36; (Libraries), XIV, a 550; (Observatory), XVII, a 734; (Reformation), XX, b 344, a 345; (Switzerland), XXII, b 816, *b* 822, *a* 823, *b* 824, *a* 825, a b 827, *b* 828, *a* b 829, *a b* 830, *a* b 831, a *b* 832, *a* 834; (Technical Education), XXIII, *a* 117; (Winterthur), XXIV, a b 647; (Zwingli), XXIV, *a b* 872, *a* 873

—— Lake, XIV, *a* b 221; (Switzerland), XXII, a 815

Zurich Catechism, V, b 191

Zurita, Gerónimo de, historian (Spain), XXII, a 373

Zusha, river (Orel), XVII, b 849

ZUTPHEN, town, XXIV, a 871; (Guelderland), XI, a b 216, a 217; (Holland), XII, a 67, b 80

Zuyder Zee (Commerce), VI, b 179; (Harlingen), XI, b 429; (Holland), XII, a b 62, a b 63, b 74; (North Sea), XVII, a 577

Zuylichem, lord of (Huygens), XII, a 433

Zvornik, Sandjak and town (Bosnia), IV, b 60, a 61

Zwardekroon, Hendrik (Java), XIII, a 614

Zwarte Berge, mountains (Africa), I, a 225; (Cape Colony), V, a b 38

Zwartewater, river (Overyssel), XVIII, b 81

Zweibrücken. See Deux Ponts

——, dukes of (Palatinate), XVIII, a b 171

Zwentebulch, king (Lorraine), XV, a 7

Zwick, A. H., philologist (Calmucks), IV, a 629

ZWICKAU, town, XXIV, a b 871; basin (Coal), VI, a 54; district (Saxony), XXI, b 372, a *b* 373, *a* 374; prophets (Luther), XV, *a* 78

Zwieselite (Mineralogy), XVI, a 425

Zwinger, palace (Dresden), VII, b 404, a 405

Zwingli, Bartholomew, dean, XXIV, b 871

ZWINGLI, Huldreich or Ulric, reformer, XXIV, b 871–3; (Eucharist), VIII, a 574; (Germany), X, b 473; (Glarus), b 567; (Hermeneutics), XI, *b* 668; (Hutten), XII, a 429; (Luther), XV, b 75, b 82, *a* 83, a b 84; (Pellicanus), XVIII, *a* 489; (Reformation), XX, a 344–5, a b 346; (Switzerland), XXII, *b* 828, *a* 829

Zwinglians, Netherland (Presbyterianism), XIX, b 715, *a* 716

Zwingli's *Confession* of the Baptists, III, b 304, *a* 305

ZWOLLE, town, XXIV, b 873; (Holland), XII, a 67, b 70; (Overyssel), XVIII, b 81

Zygæna, genus (Shark), XXI, a b 813, a 816

Zygantrum, process (Reptiles), XX, b 461

Zygapophyses defined (Skeleton), XXII, b 118

Zygites, rowers (Ship), XXI, a *b* 843

Zyguemeæ, plants (Reproduction), XX, b 438, a 440

Zygobranchia, order (Mollusca), XVI, a 668, b 671

Zygodactyli, group (Ornithology), XVIII, a 42

Zygoma, bone (Anatomy), I, a 723; (Mammalia), XV, b 358

Zygomycetes, sub-class (Vegetable Kingdom), XXIV, *a* 139

Zygopleura, organic forms (Morphology), XVI, a 871

Zygosphene, process (Reptiles), XX, b 461

Zygospore (Botany) (Ill.), IV, b 144; (Histology), XII, a 15; (Reproduction), XX, *b* 437

Zygosporeæ, group of plants (Biology), III, b 599–600

Zygote (Protozoa), XIX, *b* 882

Zymogen, ferment-former (Nutrition), XVII, b 690, b 693

ZYMOTIC DISEASES, XXIV, b 873; (Homœopathy), XII, b 131; (Hospital), b 318

Zyrians, people (Vologda), XXIV, b 303

Zythos, liquor (Brewing), IV, *a* 236

END OF GENERAL INDEX.

GTU LIBRARY
3 2400 00568 3150

3775
AQ54
En19
1875
v.25
The Encyclopaedia
Britannica

DATE	ISSUED TO
AUG 7 - 1981	

The Encyclopaedia britannica.
3775
AQ54
En19
1875
v.25